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Editorial

This early part of the year appears to have been reserved almost exclusively for the Big Ones. Stage extravaganzas abound with Genesis, Rundgren, Jethro, Zappa and Floyd — to name but a few — all mounting bigger and more expensive theatrics to accompany their live music performances. And the music itself is requiring bigger and better hardware. This month Beat has trodden two separate paths to the centre of this boiling bubble. One led to Frank Zappa himself in the States, where he explains in depth and detail his early influences, his music, technique, ambitions and fears. Our other path led to Olympia to watch the Pink Floyd rehearsing prior to their present tour, and to take the office magnifying glass to the awesome battery of electronic equipment which now forms the nucleus of the band's electrifying stage show.

However, leaving the Superstars to their business for a moment, we will be on our way to Frankfurt to find out exactly what the instrument manufacturing trends look like being for the coming year. Once we've had a good look round all the stands, we'll be publishing a full report in the next issue.

This month sees another Beat competition — for a Hohner K1 electric piano, so get to page 13 (after reading the Zappa files) and then fill in the coupon. And if you don't win? . . . ah well, that's life!

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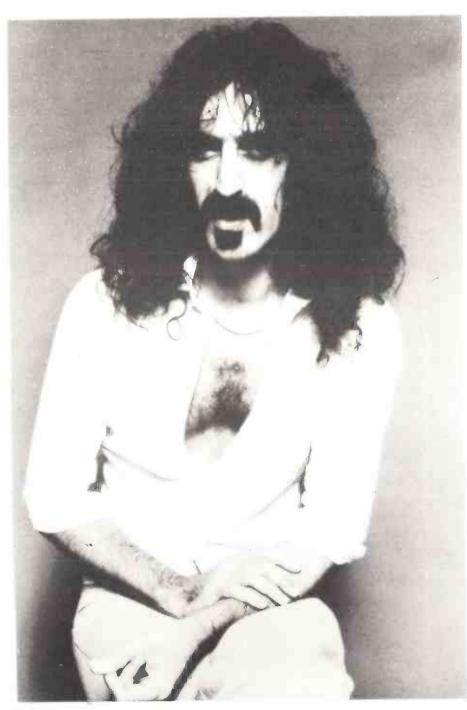
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FRANK ZAPPA

In a special report from the States, Charles Stevenson talks to the original Mother about his development and techniques as a guitar player . . .



rank Zappa is the composer/producer/ leader of the Mothers of Invention, a band of musicians which changes personnel on virtually every album and has as its only constant the intriguing and fantastic persona of the 36-year old guitarist. Most people look past Zappa's talents as a guitar player to his more visible output as a composer. Yet the Baltimore-born player possesses a bizarre style utilizing speed and rhythm which makes his playing every bit as startling as his writing. On Zoot Allures (released in December) he has actually written material as vehicles for his guitar work which seems to possess an edge and invulnerability lacking in his earlier playing. Here then is the unexpurgated story of Frank Zappa.

I know that you play other instruments besides the guitar (drums, piano, organ); did you start your musical journey on the guitar?

I started playing guitar when I was 18 but I started on drums when I was 12 because I liked that. I didn't hear any guitar players until I was about 15 or so because in those days the saxophone was the instrument that was happening on record. When you heard a guitar player it was always a treat so I went out collecting R&B guitar records. The solos were never long enough, they only gave them one chorus and I figured the only way I was gonna get to hear enough of what I wanted to hear was get a guitar and play it myself. So I got one for a buck-fifty in an auction ... an arch-top, f-hole, cracked base unknown brand guitar because the whole finish had been sanded off of it. It looked like it had been sandblasted. The strings were about, oh, a good inch off the finger board (laughs) and I didn't know any chords but I started playing lines

right away. And then started figuring out chords after that and finally got the Mickey Baker book and learned a bunch of chords off that.

Who were some of those early guitar players you were listening to?

Umm, I used to like Johnny 'Guitar' Watson, Clarence 'Gatemouth' Brown, Guitar Slim, Matt Murphy.

Were there bands actually playing in your town that you could go and see live?

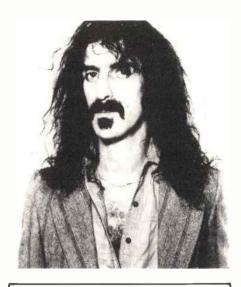
Yeah, sure, in San Diego when I was in high school down there they had plenty of rhythm and blues bands. Most of them played instrumentals, only a few of them had singers.

Were your parents musical at all? My father played guitar when he was in college. He had an old guitar sitting around the house but it didn't feel as good to me as the one for a buck-fifty. He played around the house about once every three years; he'd pick it up and go wank-wankwank but that was about it.

How long did you play drums? I started when I was about 12 and I still play a little bit now. I had a few lessons. I went to a summer school one time when I was in Monterey and they had like basic training for kids who were going to be in the drum and bugle corps when school went back in. And I remember the teacher's name was Keith McKillip and he was the rudimental drummer of the area in Pacific Grove. And they had all these little kids about 11 and 12 years old lined up in this room. You didn't have drums you had these boards, not pads, but a plank laid across some chairs and everybody stood in front of this plank and went rattlety-tat on the plank.

And I didn't actually have a drum until I was about 14 or 15 and all my practising had been done on the top of this bureau in my bedroom which happened to be a nice piece of furniture at one time. But some perverted Italian had got it and painted it green all over and the top of it was all scabbed off from where I was beating it with the sticks. So finally my mother got me a drum and allowed me to practice out in the garage. I had just one snare drum. And then I entered my rock and roll career at 15 when I talked them into getting me a complete set which was a kick drum, a rancid little Zyn hi-hat, one snare, one floor tom, and one Zyn ride cymbal, about a 15 inch ride cymbal. The whole set cost fifty

And I was playing my first professional gig at a place called the



"I entered my rock and roll career with a rancid little Zvn hi-hat."

Uptown Hall in San Diego which was in the Hillcrest District at 40th and Mead. I remember it well, going to my first gig, I got over there, set my drums up, and noticed I had forgotten my only pair of sticks (much laughter). And I lived way on the other side of town. I was really hurtin' for an instrument in those days. For band rehearsals that we had had before we got that gig used to be over at this guy Stuart's house. His father was a preacher and he didn't have any room or interest in having a drum set in the house but they allowed me to beat on a pair of pots that I held between my legs. And I'm sittin' there trying to play shuffles on these two pots between my legs.

When did you buy your first electric guitar?

I didn't get my first electric guitar until I was 21 when I rented a Telecaster from this music store and had that for a while. And then I bought a Jazzmaster and had that for about a year-and-a-half. I used to play like lounge jobs, you know? Sit on a stool, strum four chords in a bar . . . anniversary waltz, happy birthday, one twist number per night, don't turn up. All that kind of crap. Nobody else in the band really knew what the chord changes were to these dumb songs, they were all trying to figure out what was going on. Places like Tommy Sandy's Club Sahara in San Bernardino, and some other clubs around West Covina. Really boring, miserable places. I worked

with a group called Joe Perrino and the Mellow Tones (laughs) and then I got a chance to write some music for a movie and actually earned some money doing that. So with the money that I got from that film job I bought a Gibson ES-5 Switchmaster which I used for about five years. I recorded the first three albums with that guitar and also with the money I bought a recording studio from this other guy.

What movie was that?

It was called Run Home Slow; it was a western starring Mercedes McCambridge and was written by a high school English teacher. It's been on TV a few times. I've done music for four films; the first one was called The World's Greatest Sinner starring Timothy Cary about a guy who thinks he's God and then later has his doubts. Then There was Run Home Slow and then a short film called Burnt Weeny Sandwich and 200 Motels.

Were you involved in any serious music before the Mothers of Invention?

I had a three-piece power trio called the Muthers and that Les Papp on drums and Paul Woods on bass and we were working at a place in Ontario, California, called The Saints & Sinners. It was like mostly Mexican labourers, a go go bar, lots of beer, and a few waitresses who would jump up on the table . . . that type of thing. And I was playing a lot there.

What other equipment besides the Switchmaster did you use on Freak Out! (Verve Records V 5005-2)?

Just a Fender Deluxe, that's all. After that I got a Les Paul gold top and used that for a couple of albums. And eventually I got an SG.

You're using an SG now?

No, I'm using a variety of things now; I've branched out quite a bit in the last couple of years. I've got a couple of Strats wired up funny ways. Both of the Strats have pre-amps built into them and one of them has a special tone control switch which lets you put each of the pickups out of phase and that kind of stuff. And then the other Strat has a Barcus Berry located in the neck which gives it a really interesting sound because I do a lot of stuff with my left hand and it helps the notes speak a lot faster. It's like the whole guitar is alive, you can touch it anyplace and hear where you touch the guitar because the Barcus Berry hears all of

What do you mean when you say your left hand has a lot of movement?

If I pick one note with my right hand I'm playing five with my left. I

FRANK ZAPPA

don't pick everything that I play and consequently the action's down pretty close on most of the guitars. I also do some stuff where I use the pick on the fingerboard, press down and hit the string with the pick at the same time. It gets kind of a Bulgarian bagpipe sound. An example of that kind of thing is the end of the solo on 'Inca Roads', (from *One Size Fits All* on Warner Bros. Records 0698) and also on 'Po-Jama People', the end of the solo is done that way (also on *One Size Fits All*).

You seem to use a wah-wah quite a bit?

I use a wah-wah; I have a Mu-tron and the 9D Oberheim VCF (voltage control filter). I got an example of that on this new album (*Zoot Allures*). I'm starting to use some echo-plex now which I've generally avoided in the past.

You use the wah-wah a lot in its bass position where it acts as a fuzz boost.

Yeah, I use it for a tone control and very seldom do I just step on it on the beat. Like on the old Clapton records where he goes wacka-wackawacka just to tap your foot on it; usually what I do is shape the notes for phrasing with it and the motion of the pedal itself is very slight. I usually try and find one centre notch in the thing that's going to emphasize certain harmonics and ride it right in that area. Because if you put it all the way to the top it's too squeaky and if you put it all the way to the back it's too blurred.

Had you heard Clapton or Hendrix use the wah-wah before?

As a matter of fact I think I was one of the first people to use the wah-wah pedal. I'd never even heard Jimi Henrix at the time I bought mine; I didn't even know who he was. I had used wah-wah on the clavinet, guitar, and saxophone when we were doing We're Only In It For The Money in '67 (Verve Records V6 5045X) and that was before I met Hendrix. He came over and sat in with us at the Garrick Theatre that night and was using all the stuff that we had on stage. Seems like everytime I went to Manny's there'd be some new gizmo there that we'd be trying out so we were always into the hardware of the rock and roll industry.

Clapton appears on the Money album.

I met him someplace in New York, I can't remember where, maybe at one of our concerts. And he played with the Mothers once at the Shrine in Los Angeles and came over to my house but I haven't been on speaking terms with him for some time now. And he was just in New York one day hanging out and I invited him over to the studio to do that rap that's on *We're Only In It For The Money*. People think he's playing on it but he's not, the only thing he's doin' on there is talking.

Did you ever sit down with him and have him show you anything?

No, he wasn't that kind of musician as far as I could tell he wasn't the jamming type. When I used to live in a log cabin I had some amps set up in the basement and he came over one day and played during one of our rehearsals. But he didn't like the amp; we were using Acoustics then and he didn't like it. And remember when he came on stage at the Shrine? Nobody knew who he was; he came out and played the set and nobody paid any attention to him at all until he walked off and I told the audience that was Eric Clapton.

Getting back to your guitars, are you still using the SG pictured on the cover of the live Roxy album (Warner Bros. 0998)?

No, I have another SG that I'm using. No, that one that's on the Roxy cover has since been thoroughly injured by an airline company . . . oh, they beat the shit out of it. Cracked the neck and the most recent time it came back from Europe the binding was off the fretboard. I had



"One of my Strats is the one Hendrix burned at the Miami Festival . . ."

the neck repaired but it's never been the same; it flexes so much that it's hard to keep in tune so I hardly use it anymore. But one time we were working down in Phoenix and this guy came up to the dressing room after the show and said that he had this guitar he built and wanted to sell. And he had copied a Gibson (SG) himself except he had added one more fret so it goes up to an Eb and it had an ebony finger board and it's got some inlay on it and some real nice woodwork on it. He said he wanted to sell it for \$500 and I thought it was a real nice guitar so I bought it. And I had Rex Bogue do some stuff to it, add a pre-amp and snazz it up, and that's the one that I'm using now. And it has humbucking pickups on it.

One of my Strats is the one Hendrix burned at the Miami Pop Festival; it was given to me by this guy who used to be his roadie. And I had it hanging on the wall in my basement for years and years and last year I gave it to Rex and said put this sucker back together 'cuz it waz all tore up . . . the neck was cracked off of it, the body was all fried and the pickups were all blistered and bubbled. And that's the one that's got the Barcus Berry in the neck. A lot of people thought I had his guitar from Monterey but it was from Miami; the one from Monterey was

white and this one is sunburst.

You don't really use the vibrato arm on the Stratocaster or SG much.

Well I used to use it on the SG a little bit but I took it off because it was too hard to keep the instrument in tune and especially the one with the soft neck. But I use it quite a bit now on one of the Strats; I don't even have a vibrato arm on that Hendrix one. You can hear it on the new album. I'm also playing quite a bit of keyboards, and bass, and synthesizer.

What is an octave bass on the Hot Rats album (Bizarre Records RS 6356)?

It's a bass that's been speeded up an octave to put it up into guitar range. Speeding it up not only changes the rate that you play the notes but it changes the envelope of the notes and gives it a punchier attack. And you know how a bass will ring for a long time? It gives you a different kind of sustain, the sustain comes out an octave higher.

What kind of picks and strings do you use?

I use Fender Heavies and I use a different set of strings for each guitar; I have about 22 guitars. To give you an idea I use either an .008 or .009 on top (E), an .011 or .012 on



the B, a .016 or .017 on the G, a .024 or .026 on the D, anywhere from a .032 to a .038 on the A, and anywhere from a .046 to a .052 on the E. So it's medium on the bottom and they're mainly all Ernie Ball.

Are you using Marshall amplifiers now?

I have a Vox cabinet with four JBL's in it (12") and another Marshall cabinet with JBL's. I use a 100 watt Marshall and an Acoustic 270 but I'm going to re-do all that stuff because we're just getting ready for another tour and I'm changing my guitar setup around for a different thing.

Can you be more specific?

I'd rather make it a surprise but I'm trying to optimize the sound, trying to get more of the kind of sound I like on stage out into the audience and you can't always do that just by putting the mike in front of the amp.

Are there certain positions you use on the 270 (equalizer) in conjunction with the guitars to achieve certain sounds?

It depends on what kind of a hall I'm playing in. I'm real fussy about

equalization and sometimes there's a compromise between the kind of sound I want to get on stage and what the mixer needs to hear out in the audience and I'll change things around like that. But I've used the 100 watt Marshall with the volume about double the inputs into the bass channel (with a connecting cord) and the treble is on about 4 and the bass is on about 3; mid will be anywhere from 6 to 8; and the presence will be anywhere from 6 to 10. This is the average, the bass could be as high as 10 or as low as 0 depending on how much bottom you need.

And on the 270 the volume will be on 4; the treble will be all the way up; the bright switch will be on; the mid-range will be on about 75%; the bass will be at about 80%; the graphic equalizer is all the way up at 80 cycles, about 80% at 160, all the way up at 320, just about flat at 640, and maybe a little bit of boost at 1250.

Is this the same equipment you use in the studio?

In the studio most of the stuff is played through a Pignose. I've done all kinds of things with a Pignose; I've taken it and put it in a live chamber and taken a RE-20 and stuck it right in front of the Pignose and that'll get you one kind of sound. It's actually the sound of an amp but you can hear that it's in a room and the room is resonant so it's a realistic sound.

On this new album (Zoot Allures) about the only thing I used the Vox bottom and the Marshall top for is to get feedback on a song called 'Filthy Habits'. And there's another song called 'The Torture Never Stops' where it's just Pieness.

where it's just Pignose.

Another thing I'll do with the Pignose is just put it out in the middle of a dead studio and put two mikes on it and mike it stereo . . . it gets a good sound. Put one mike behind the other so there's a slight spread to it. I've also put the Pignose in an echo chamber and miked it up but not too close because the echo chamber is real resonant and since the amplifier isn't real loud in there if you put the mike a foot away from the amplifier you're going to get a sound that really approaches what you hear in a hockey rink. Except for the low end; a big amp is going to

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FRANK ZAPPĀ

put out more low end. But it's that same kind of spread fuzz is what you get. And anybody who's working in a studio and wants to try it just tell the engineer to disconnect the speaker calbes that are out in the echo chamber and put a plug (phone jack) on the end of the echo send and plug the echo send into your Pignose. And you can sit in the control room, plug your guitar directly into the board, send it to the echo chamber on the echo send, and hear yourself coming back and it sounds like you're in a hockey rink. And you can even make it feed back by long distance.

I've been using a Pignose for about the last 3 or 4 years. I think I started using it the most on Apostrophe (Warner Bros. Records DS 2175) but there is some on Over-Nite Sensation

(Warner Bros. MS 2149).

You don't play any slide guitar? No, but I do have a fretless guitar and I'm pretty good on that. At one time Acoustic manufactured a fretless guitar; they made a prototype and tried to interest people in it but nobody wanted it. So the prototype ended up at Guitar Center (in Hollywood) and I walked in there one day and asked them if they had anything new and they said, 'Have we got one for you'. And they brought this thing out and it was really neat and I bought it for \$75. The only restriction was they had to take a chisel and some black paint and scratch off the word Acoustic at the top of the guitar because Acoustic didn't want anybody to know that they had made such a grievous error as to make a fretless guitar. I've put a Barcus-Berry in that, send the magnetic to the left and the Barcus-Berry to the right and the thing that sounds like a slide on 'The Torture Never Stops' is actually a fretless. It's also on 'San Ber'dino' and 'Can't Afford No Shoes' (from One Size Fits All on Warner Bros. Records DS 2216).

It's different than a regular guitar; you don't push the strings to bend em. You move them back and forth like violin-type vibrato which is a funny movement to get used to. But you can play barre chords on it, it's

What scales do you work from?

My solos are speech-influenced, rhythmically they're speechinfluenced. And harmonically they're either Pentatonic, or poly-scale oriented. Or there's another mode, the Mixolydian mode that I use a lot.

You don't really play a lot of blues in your solos?

I can, I have started off that way, but I'm more interested in melodic things. I think the biggest challenge when you go to play a solo is trying to invent a melody on the spot. And I think also that a guitar player can only be as good as the band that's accompanying him. If the people who are backing you up are sensitive to what you're playing you'll sound great and if they're just note-mashers then you'll always sound mundane.

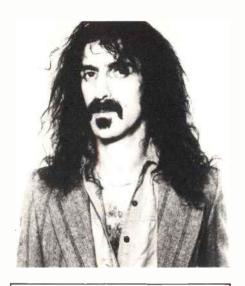
Those are the qualities that you look for in a backing musician?

I've always had good rhythm section players but I wouldn't say that they've always been too enthusiastic about what I was playing. Or understood it too well or really got into it. Because if a person's from the jazz world they're gonna play worlds of gnat notes, playing clouds of Pentatonic gnat notes that really don't amount to shit. Or if they're from the blues world they want somebody who gets on three notes and goes squirmsquirm-squirm. It's hard to explain to guys who are just coming into the band the rhythmic concept that I have about playing. Because it's based on ideas of metrical balance; long sustained events versus groupettos that are happening with a lot of notes on one beat. Like a lot of sextuplets, septuplets, and things like that. A lot of times I'll play 13 notes over a half note and try and space it evenly so it flows. This is sort of against the grain of rock and roll which likes to have everything in exactly duple or triple and straight up and down. So that you can constantly tap your foot to it but I prefer to have the rhythm section be aware of where the basic pulse of the time is and create a foundation that won't move so that I can flow over the top of it. It's hard to do, it's hard to get people to do that. And it's also hard to get them to leave some space for where those fast notes occur. Rhythm sections always have a tendency if they hear somebody else playing fast notes they want to play fast notes too and then you can't hear any fast notes anymore.

I've always had good rhythmic rapport with Aynsley Dunbar, I thought he was really good drum-wise and Terry Bozic, the drummer that's in the group now is excellent. He has a tendency to frenzy out a little bit but I'll just figure that's because he's from San Francisco.

What about playing with Jack Bruce on 'Apostrophe'?

Well that was just a jam thing that happened because he was a friend of



"A guitar player can only be as good as the band that's accompanying him . . ."

Jim Gordon's. I found it very difficult to play with him; he's too busy. He doesn't really want to play the bass in terms of root functions. I think he has other things on his r

but that's the way jam sessions go On that solo in 'Apostrophe' I using an SG with a Barcus-Berry the bridge and that's being sent to one of the channels and then the other side is coming out of a Pigr and there's an attack differential between how fast the Barcus-Berr speaks and how fast the Pignose speaks. So you've got a sharp atta on one side and then the rest of tl note following it on the other. An on 'Stink-Foot' (also on Apostrop there's an interesting sound where I'm using an acoustical guitar witl magnetic pickup on it and a Barcus Berry on the bridge, the Barcus-Berry is going to one channel and the magnetic pickup is going to a Mutron and the other channel so you have a sharp attack and an enveloped attack. It gives a lot of space.

You don't play a lot of acoustic

guitar.

No, but I like it. But since most of my life is oriented toward the road rather than the studio there's not much opportunity to play sensitively on your acoustic guitar except in a hotel room. The rest of what we do is high volume type stuff. I have a real nice Martin, I don't know what the model number is, but it has a classical width neck that joins right at

FRANK ZAPPA

the 12th fret at the body in a jumbo shell. I also have an Ovation (not yet used on record) and a bazooky with a Barcus on it. I've recorded some stuff with that but it hasn't been released yet; I have some duets that I did with Jean-Luc Ponty (violin) that turned out real nice. I also have a Gibson acoustic with a pickup right next to the fingerboard; I don't know what the model number is. It's a round hole, I like that guitar, it's got a real good neck on it. I just lucked out because I don't think all the necks are good on Gibsons. In fact they're usually a little too pudgy for my hand, I like to get 'em shaved down.

Do you play any banjo or mandolin?

No. I like the sound of them but I have enough trouble just playing guitar.

Since you've used Fender and Gibson guitars you really don't have a preference of one over the other?

Well, I use them for things that they're good for. The Strat has a drier sound, it has more of an acute, exact sound and I use the Gibson for more of a sweathog type of sound.

Are there guitar players that you listen to?

There's a few that I've heard recently that I think are real good. I like Brian May out of Queen, I think he's real excellent and I always did like Wes Montgomery until they started smothering him with violins. I think his best album is one on Fantasy that just has him and his brothers playing 'Lover Man' and 'Monterey Blues'. And I like the Johnny 'Guitar' Watson records from the early 50's, they're really good. I especially like Guitar Slim, his solo on a record called 'The Story Of My Life'. One of the best of the early distorted guitar solos; it really sounds like he's mad at somebody.

What about somebody like Jeff k?

ı like Jeff, yeah. I've listened to Wired (Epic Records PE 33849) and there's a couple of solos on there that I like. And I like some stuff on Rough And Ready (Epic Records KE

How about John McLaughlin?

Well, a person would be a moron not to appreciate his technique. The guy has certainly found out how to operate a guitar as if it were a machine gun. But I'm not always enthusiastic about the lines I hear or the ways in which they're used. But I don't think you can fault him for the amount of time and effort that it must have taken to play an instrument that fast. I think anybody who can play an instrument that fast is just wonderful. And I'm sure that 90% of teenage America would agree with that since the whole trend in the business has been faster is better.

You've always tended to be a fast guitar player.

Well I'm not really a fast guitar player because I'm not picking everything I play. I only play fast when I think it's appropriate to the line that I'm doing.

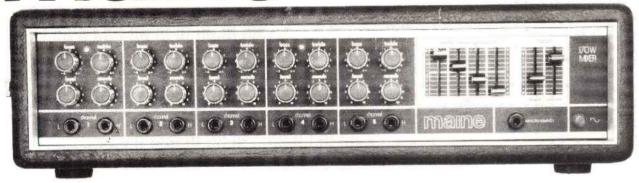
How do you see yourself in the role of a guitar player as being different than say the role McLaughlin or Beck

plays?

Well I think that's a matter of advertising more than anything else. Once I get out on a stage and turn my guitar on it's a special thing to me, I love doin' it. But I approach more as a composer who happens to be able to operate an instrument called a guitar rather than 'Frank Zappa Rock and Roll Guitar Hero'.

How does your playing differ say in your current band (4-piece) as opposed to the larger orchestrated groups you've worked with?

It differs quite a bit because with a larger group you have to play less because there's a lot of people waiting in line to play solos. And



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that's one of the reasons why I've got a smaller group now because I happen to like to play solos and I happen to think I'm in a specialised category from the stuff that I play and I don't think that there's any reason why I should have to wait in line (laughter). Because I have some stuff to say and I'm gonna get out there and do it.

Have there been songs in the past that you've written specifically as guitar vehicles?

Not really, no. There's a few now that I've designed that way. I figure that since I've been playing for about 20 years or so (Zappa is 36) I might as well start doing that.

Is there a reason why you don't work with other guitar players?

Well, I have (he worked with Roy Estrada on the first album as well as with Lowell George but not in a multi-lead situation). But double leads just never seemed appropriate to what I was doin'. Sneeky Pete was in the band for a while but he couldn't stay, he had too many other appointments.

Are there any devices for guitar which you've developed?

There's one thing Bob Easton constructed for me called the Electro Wagnerian Emancipator. That's a very attractive little device that combines a frequency follower with a device that puts out harmony notes to what you're playing. You can have your choice of any 12 chromatic notes in 4 lines following you lines; you can't play chords with it but linerally it'll follow you whether you bend or whatever. It's main drawback is the tone that comes out of it is somewhat like a Farfisa organ.

Do you feel more comfortable playing in a live situation as opposed to the studio?

Yeah, I mean I have had a few laughs in the studio but the problem is that in a studio I'm my own producer and I've got so many other electronic things to worry about that it distracts me from just getting in there and playing the instrument.



FRANK ZAPPA

Whereas you go out on the road and once the house lights go down and the red light comes on it's a different story. I usually play my best stuff out on the road.

Are your solos on record first-takes or are they conceived beforehand?

It depends on what the song is; very rarely are they first-take things. But they aren't things where I'd sit down and work out the whole solo in advance before I played it, I can't do that, I can't remember it. Usually what I do if I get something going, I'll lay down 20 bars or something like that and step on the recorder and stop the tape and back up and punch in and take up from where I left off. And try to make the event that's going on the record make musical sense and fit in with what's going on because a record is a fixed object, it doesn't change. It's not the song anymore, it's an object; if you're playing a song on the road it can change every night, it can be something, it comes alive each time you play it and it has its own existence, but once you've committed it to a record it never changes. And so if you're going to leave your guitar solos on it you're stuck with that for the life of the record. So I'm fairly fussy about it but I'm sure I let a few go out on record that I could probably do better now. But I hope that's the way it's always gonna be.

Have you ever thought of having another producer to allow you more time with the guitar?

If I thought I could find somebody who would produce things the way I want to hear them. But the details that I worry about when I go into a studio are how the board is laid out. what EQ is going to be on the stuff you're listening to in the headphones, to what kind of echo you're going to be using, what kind of this and what kind of that, how long you should be taking to do such-and-such a thing because at a \$150 an hour you don't want to be wasting your time while you're in there. It's hard once you've got all that stuff set to just walk in and play and forget about it. I'll spend anywhere from 3 to 9 hours just getting the sound on the rest of the band right before I'll record.

On this new album it's different because I did a lot of tracks just starting with a Rhythm Ace and built all the stuff up from there. What I usually do is I'll play the guitar from the control room while the band is playing or else I'll have the band lay

down a track and then I'll put mine on later.

Are there songs where you've laid down more than just a rhythm and lead track?

Yeah, 'Po-Jama People', and there's a couple on the new album that have anywhere from 3 to 5 guitar parts. 'Filthy Habits' has five guitar parts on it; on 'We're Only In It For The Money' I did a few; 'Uncle Meat' (Bizarre Records 2MS 2024) has some.

You've been playing now for two decades; where and what else do you want to go and do with the guitar?

The hardest thing for me to do is play straight up and down, absolutely the hardest thing to do. Stuff that everybody else does naturally just seems as impossible as shit to me. I can sit around and play 5's and 7's all day long with no sweat. But the minute I got to go do-do-do-do-do-do-do-do-do it feels weird, it's like wearing tight shoes. So I'm gonna keep practicin'. . . .

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BEAT'S MARCH COMPETITION

WIN A HOHNER ELECTRIC PIANO WORTH OVER £300



This month Beat is giving away a Hohner electric K1 portable piano, which retails at £312. Its keyboard spans a full five octaves, and can be split into treble and bass sections if desired. The facilities include a volume slider and such sound effects as harpsichord, steel guitar and acoustic piano. It is light, portable, and easy to tune. The K1 comes complete with its own carrying bag. It could be yours simply by listing in order of preference THE MOST IMPORTANT FEATURES OF A WORKING MUSI-KEYBOARD INSTRUMENT. Listed below are ten of these features. Your job is to choose the SIX most important. When you have decided on the correct order, use the appropriate letters of the alphabet to fill your answers in on the coupon, then cut it out and send it to Beat as soon as possible. Remember: do not write out the answers — use the letters we have given them.

- (A) Sound
- (B) Appearance
- (C) Reliability
- (D) Robustness
- (E) Number of special effects
- (F) Price
- (G) Action
- (H) Built-in speaker
- (I) Number of manuals
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HOW TO ENTER

- 1. Once you have picked out the six features from the list alongside which you think are the most important for the keyboard instrument of a working musician, place them in order of preference on the coupon (e.g. 1 A).
- 2. Give the titles of the features or items you liked most in this issue of Beat.
- 3. Insert your name and address in BLOCK CAPITALS in the appropriate space.
- 4. Cut out and post the coupon off to us at **BEAT IN-STRUMENTAL**, **23 RIDGMOUNT STREET**, **WC1**, to arrive not later than April 1st, 1977.
- 5. The result will be announced in the May issue of Beat Instrumental. No staff of Campillos Ltd. or their families or relatives are eligible to enter this competition. The judge's decision is final and binding and no correspondence can be entered into concerning this competition.

Insert the six keyboard features you have chosen in their order of preference in the spaces below. 1 2 3 4 5 6	
Your favourite articles in this month's Beat	
1 4 2 5 3 6	
NAME AGE	
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YOUR LETTERS

Vibration

Dear Sirs,

I am having problems with my effects pedals and wonder if you would be so kind as to help me out. I have recently purchased a 'Shin-ei' Companion FY-2 fuzz box and a Wah Wah pedal manufactured by Sola-Sound.

When the fuzz box is switched on I get a prominent deeply pitched buzzing through the amplifier. This occurred when the fuzz box was in close proximity and when I moved it away from the amplifier. I also tried swapping the leads around but the buzzing persisted.

Also, when connecting the Wah Wah in series with the fuzz box I get a reduction of quality and volume in the wah-fuzz effect.

Could you comment on the quality and reliability of these pedals as I do not want to ruin my equipment, especially as a friend has told me that a fuzz box distorts the sound and places a lot of unnecessary vibration on the speaker and this eventually ruins the quality of the sound produced by the amp — is this true? The amp I use is a Custom Sound Tracker 30w combination amp with a Grant 'Les Paul' guitar.

Thanks for an obliging and very informative magazine,

Neil Bott,

Royston, Nr. Barnsley.

It sound as if you have two separate problems here, Neil. One is a fault in your fuzz box, which should be taken back to a shop for repair. The other is that it doesn't match with your Wah Wah. People assume that any

fuzz box will match any Wah Wah but this isn't necessarily so due to fluctuating specifications as regards output voltage. Really, you should get the Shinei checked by a dealer and then part exchange it for another model which does match the Sola-Sound, assuming, of course, that our diagnosis is correct.

As regards this business about fuzz units damaging speakers, we're getting thoroughly sick and tired of these old wives tales so here, yet again, are the facts as we understand them.

Given that you have a good quality speaker in a cabinet and one which has a rating sufficiently high enough to handle comfortably the peak output of the amp, the use of a fuzz box or overdriver will not damage it. If, however, you are using a cheap amp where the speaker is already overdriven, and if your

fuzz box causes the amp to deliver substantially more wattage than it might otherwise have done then prolonged use might damage the speaker. In your case you need not worry about this and neither need anyone who has bought an amp made by a responsible manufacturer.

Songbook

Dear Editor,

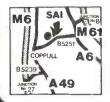
Thank you for having interviewed Mick Ralphs in the October issue of *Beat*.

Bad Company has been my favourite group since I bought their album 'Bad Company'. Now I've got the other two albums 'Straight Shooter' and 'Run with the Pack'. What I would like to know is whether it can be possible for me to obtain a copy of the sheet music to the

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COMING NEXT MONTH

Jack Bruce/Pete Brown double interview
Peter Gabriel
Gentle Giant

AND QUERIES

abovr albums. I've been to all the music shops I know but couldn't get a single copy.

Yours sincerely, Sibanyoni M. Timothy, Transvaal, South Africa.

Bad Co.'s music is published by Island music who, unbelievable though it seems, say that they haven't yet published any Bad Co. Songbooks, although they are supposed to be working on them at the moment. When they are published, Island claim, these will be made available abroad, as well as in the U.K.

Dobro

Dear Sir,

I intend building a wooden body Dobro-style guitar. The problem is this: where can I obtain a metal resonator from? Secondly, is there a book with any details concerning the construction of such a guitar?

Many thanks,
Yours faithfully,
Paul Whiteside,
Sturry,
Kent

The wholesalers of Dolbro guitars in Britain are Coppock of Leeds, and they gave us the names of two retailers in Kent who should be able to order a resonator for you: try White's of Tonbridge or Sicodi of Canterbury. The cost should be around £18.

Most of the books on guitar building tend to be about making classical instruments, i.e. nylon string. Roger Bucknell of Fylde (who hand-build acoustics) tells us that "Make Your Own Spanish Guitar" by Clifford Essex and "Classical Guitar Construction" by Irving

Sloine are reasonable basic guides. For steel strings, however, have a look at "Complete Guitar Repair" by a gentleman . Japanese with unlikely name of Hideo Kamimoto.

Info please

Dear Sir,

We are a band from America ("Train") and I was wondering if you could help me by giving some imformation: what are the names and addresses of the A & R men at the following companies: Vertigo, Polydor, A&M, Arista/Bell, Charisma, Reprise, Decca and RCA. I would appreciate any help you could give

Thank You, Mike Skinner, Wavertree, Liverpool.

Vertigo records are distributed by Phonogram at Stanhope House, Stanhope Place, London W2 — A & R man is Chris Peers. At Polydor you want Jim Cook, 17 Stratford Place, London W1. A&M have Mike Noble at 136-140 New Kings Road, London SW6 and Arista are at 49 Upper Brook Street, London W1; Andrew Bailey is the A & R man. Charisma: Mike Everett. 37 Soho Square, London W1. Reprise are distributed by WEA: Peter Swettenham, 69 New Oxford Street, London WC1. Decca: Hugh Mendl, 18 Great Marlborough Street, London W1. RCA: Alan Sizer, 50 Curzon Street, London W1. A complete list of A & R men was printed in last December's issue.

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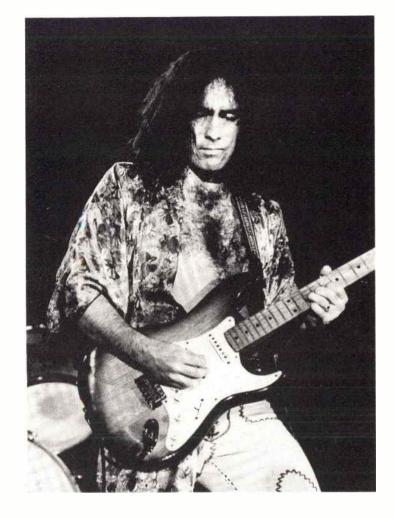


The MICROMOOG a world of sound in a nutshell



BAD CO-

Chris Trengove runs with the pack (well, Mick and Paul) to find out what Britain's prodigal sons are up to now . . .



Then The Showmen sang that classic teen anthem 'Rock 'n' Roll Will Stand' all those years ago, they had no way of knowing that the sixties and seventies would bring weird (and often not so wonderful) variations of the form that they would now have difficulty in recognizing as having anything to do with rock'n'roll. At one end of the scale, we have multi-multi-track studio extravaganzas that would have had Eddie Cochran scratching his head in bewilderment, and astronomicallybudgeted wimperama involving the likes of the London Symphony Orchestra, as many choral societies as can be squeezed into the studio, and the massed bands of any regiment that can find time between deb dances. On the other hand, we now have the legions of punk, whose prowess sometimes makes the average fifties' garage band sound like Weather Report.

Nevertheless, there have been, and still are, bands that stay close to the spirit of rock'n'roll, without in any way fossilizing the form, or taking the part of revivalists crying in the wilderness. The Stones and Quo come to mind immediately, and I won't try to list the dozens of others who are doing sterling work. When a new band comes along who have that spirit, and who are original and immediately distinctive as well, it's not that surprising that thousands of people give a whoop of joy, smash their piggy banks open, and rush out and buy their records by the sackload. Back in '74, when punk still meant The Seeds and Shadows of

Knight, that's more or less what happened on the occasion of the release of 'Bad Co.', the first album by Bad Company.

The band's success was immediate and colossal, 'Bad Co,' reached the number one album spot in the States, was equally successful here, and went on to achieve platinum status. Bad Company, nine months after being formed, were a headlining act in America on only their second tour. Since then, their progress has been the stuff of which struggling rock bands' dreams are made. Their second and third albums, 'Straightshooter' and 'Run With The Pack', achieved platinum status in the U.S., charted high here and sold massively around the rest of the world, and their singles have enjoyed similar success. Their tours are consistently sell-outs, whether they're in the States or other parts of the world with a big rock market, like Japan, They've broken attendance records at massive venues like the Coliseum in Jacksonville, Florida, and Municipal Auditorium in Mobile, Alabama, to say nothing of selling out Madison Square Garden within a day.

Within the space of two and a half

years, Bad Company has become a superstar rock act. However, music fans in this country are not as aware of the band as they might be, simply because Bad Company, like many others before them and no doubt many others to come, have been forced into a position whereby they can't do that much live work here. All the usual reasons apply — taxes, lack of suitable venues, overwhelming commitments in bigger markets, and so on. In fact, the last time they played here was when they headlined the somewhat ill-fated Great British Music Festival in January '76

However, this situation is about to be remedied, as I found out when I went along to see Paul Rodgers and Mick Ralphs at their management's London headquarters. Amongst many other things, I discovered that British dates are on the cards for the midsummer. Paul and Mick are a genial pair, more than willing to talk about their current and future activities. The interview took place under conditions of super-relaxation. At various points members of Led Zeppelin (who share the same management) wandered in and exchanged greetings, John Paul

Jones having a few animated words with Mick on the subject of cars, a topic dear to both of their hearts. After lagers had been provided all round by the amiable Clive, the band's personal manager, I flicked on the tape and got cracking. (Paul was absently fingering the 'office guitar' throughout the interview, occasionally illustrating a point by singing a few well-chosen words. I am hanging onto my cassette as a possible valuable bootleg item in the future!)

B.I.: Bad Company has been out of the country a lot in the last year or so, and some British fans may have slightly lost touch with what you've been doing. Just for the record, what have you

been up to of late?

Paul Rodgers: Well, quite a lot actually, although it may not have seemed much to people here, as we've hardly done any press stuff lately. In the early part of last year, after we'd done the Olympia gig, we finished off the mixing of the 'Run With The Pack' album in Malibu in California, and then we went straight off on a world tour which took us up to the autumn, when we went to France to cut the new album. That was at the Chateau Herouville near Paris. It's been a pretty hectic year really.

B.I.: Now the new album ('Burnin' Sky, on Island), is out, what are the

band's immediate plans?

Paul Rodgers: We're starting a European tour on April 1st, and then we blast on to the States for a four month tour, so all that will keep us busy for a while.

Mick Ralphs: Yeah, and we hope to be doing dates in England in the summer — we'll break off in the middle of the U.S. tour to do them. A lot of people in Britain are probably wondering why we haven't toured here lately. It's just

been a question of time — we've had a hectic schedule of recording and travelling, and every time we've had the chance to play here all the venues have been booked. But we all want to do dates in the U.K. because we think a lot of our British fans, and we definitely want them to have a chance to see the band live.

B.I.: 'Burning' Sky' is your fourth album. Do you think it represents another step forward for the band?

Mick Ralphs: Well, every time we do an album I say the same thing (laughs) ... it's a key album, a crucial album and so on. Seriously, this album to me is as big a step as the first one, in that we've tried a whole lot of different things, things that we've not done before. Not so much instrumentalwise, I don't mean we've brought in the London Symphony Orchestra of anything like that (more laughter), just that we've done different types of songs, and varied our line-up a bit. Like on one track Paul plays guitar, pretty well I might add, and on another I play organ, which I've not done before. At the stage when we recorded 'Burnin' Sky', we were a bit concerned about becoming static, you know, just doing albums, one after the other boom-boom-boom, and we wanted it to stand out from the other three as something different again. If you don't move on you get too 'established' . . . the 'boring old fart syndrome', as the punks call it?

Paul Rodgers: This album's a lot more relaxed, and therefore a lot more powerful. Although we seem like a new band to a lot of people, we have been together for about three years, and we've now got to the stage when we're really confident when we go into record. Because we're more confident, it means the music is looser and more



"Dunno - let's go down on one knee and see wot 'appens."



"Wot song's this, Paul?"

relaxed, and therefore more together and tighter, if that makes any sense. We've tried a couple of different things on this album, for example, with one song, called 'Master of Ceremonies', we went on after we'd finished the track, into a kind of jam thing. We couldn't actually mix it, because we'd just recorded in on eight-track, straight onto stereo. But it came out so great that we decided to use it as it stood.

Mick Ralphs: The lyrics for it came straight off the top of Paul's head, and they turned out really well too. That was the whole thing with this album spontaneity. We'd just come off a long tour, and in a way the last thing we felt like doing was recording an album, and we'd only got two songs ready. As it turned out, because we were writing as we went along, creating the whole thing on the spot as it were, a lot of good things came out of it. There's a feeling of spontaneity and immediacy. All the things we experienced over the course of the tour, all the ideas that came up on the road went charging into the album.

B.I.: I know that as a band you don't go in for studio trickery much, but did you use any particular production

techniques on this album?

Paul Rodgers: Well, you said it right first time. We don't like things to get too complicated, whether it's production, or arrangements or whatever. It's not that we're not capable of doing complicated things, we keep things fairly simple by choice. In a way, the more you play, the less it means. Going

back to your question, we tend to use more or less the usual techniques to achieve a variety of sounds, but there was one thing we tried which turned out to be really effective. It was a special piano sound, which we got by playing the part, double-tracking it and then Vari-speeding it. It came out really nicely. But generally speaking we don't go in for that type of thing too much. It's the same with extra session guys - we tend to like to keep things to ourselves, although on this album Mel Collins plays some nice flute on a number called 'Morning Sun'. He was on the first album too.

BI.: Do you see yourselves as primarily

a live or a recording band?

Paul Rodgers: We're a live band. We always play live, even if we're in the studio we pretend we're playing live. There's always an audience in your

head really.

Mick Ralphs: Yeah, otherwise you feel you're blasting your guts out just to sing to a brick wall. You've got to project yourself into the idea of it being live if you're going to get any depth of feeling out of it. For example, the vast majority of the vocals that Paul does are recorded while we're doing the instrumental tracks, as if we are performing on stage. Usually they're the ones see end up using—

"Even in the studio we pretend we're playing live . . ."

they have the most empathy with the track, because everything's done at the same time. That's why our albums are fairly simple and basic, because we're trying to show what we can do together, as a band, rather than artificially piecing everything together, bit by bit.

B.I.: Both of you write for the band, separately and together. Is there any particular method in the way you go

about writing?

Paul Rodgers: Actually, it's becoming more and more spontaneous. As Mick said before, this album was an on-thespot kind of thing, and it worked out really well for us.

Mick Ralphs: The engineer played a key part in the process, because he was sitting and listening while we were writing and rehearsing the songs, helping us to get into them rather than

just saying "well, we're ready" to record," or whatever.

Paul Rodgers: We went in with the attitude that this was an experiment, we didn't know whether it would work out or not. As it happened, it was a major step forward, because there was so much energy it was really exciting.

Mick Ralphs: Every day someone would come up with an idea, so we'd all plunge in, and at the end of the day we'd have a track down. From getting up with nothing to going to bed with a track down is a nice feeling. The method is obviously good for us, because we ended up writing more than we'd ever done for any other album, twenty-two songs in fact, out of which we used eleven. Usually when we do an album there's about four left over.

B.I.: Finally, to change the subject completely, earlier on Mick jokingly mentioned the punk-rockers and their dismissal of the 'boring old fart' syndrome. What do you thing about the new wave of bands coming up?

Paul Rodgers: Well, I say good luck to them, or rather to any of them that can play good music. When you come down to it, it's the music that counts, and really it remains to be seen which of them is going to come up with the goods. If and when they do, that's fine with me.



"Thanks a lot for the interview."

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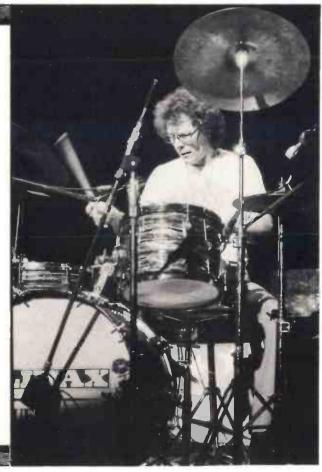
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RORY



GALLAGHER

'00?" onald old man at the stage door of the Hammersmith Odeon eyed me suspiciously.

"Gallagher", I replied.
He turned and scuttled into the recesses of the building. Seconds later a muffled voice was shouting: "Anyone 'ere called Donald?" A number of confused voices wafted back; a few doors slammed. After a while, the breathless Donald appeared, shepherded by the uniformed ancient. was allowed through.

Donald is Rory's brother, and also his manager. The occasion tonight was a Sight and Sound

Peter Douglas sneaks behind the cameras and tape machines as 'Sight and Sound' is recorded.

broadcast in which (you will recall) a concert is not only filmed and recorded by BBC Television, but by BBC Radio as well, who send it over the airwaves in stereo - for the benefit of those with stereo receivers.

The mix is taken from a 16track recorder which, during the gig, is stationed in one of the many BBC sound trucks parked at the back of the theatre. The man responsible for the radio stereo sound is Chris Lycett, a young man who sits calmly and cheerfully in a small truck whilst haggard-looking men climb all over him, trying desperately to locate "that noise". When they started climbing over me decided it was time to leave.

Donald and I went back into the theatre to have a look at the set-up there. There are two stacks of PA per side - one just above stage level, and another about 20 feet above, on a platform supported by scaffolding. As for cameras, there are two peering down from the Circle above us, two in the pit right in front of the stage, and one roving unit at the back of the stage. This one is kept well out of the way, however, in order not to obstruct the audience's view. The whole emphasis is on making the show as much like an ordinary concert as possible, and in the same way, Rory's band are not going in for props such as separation screens, although some bands are beginning to use these in live recor-

The thing is," said Donald, "if we started putting them up tonight they'd be very obvious. The priority tonight is the people who've come to see the show. We're forced into putting the radio and TV second because, even though it's probably more important in the long run, you can't cheat the people who've paid to see the show. They don't want to have their sightlines blocked. You just have to work around it. We've already done balances and we're very happy with what we've been getting in the sound trucks. because we do use small amplification on stage anyway, and with the stage here in the Odeon, the sound is inclined to go up into the ceiling and get lost. In fact, if we were to use any kind of barrier, we'd fly an overhead partition, so it would reflect the sound straight down, because it isn't helping the monitors any that the sound is going straight up."

There were special cumstances for this particular

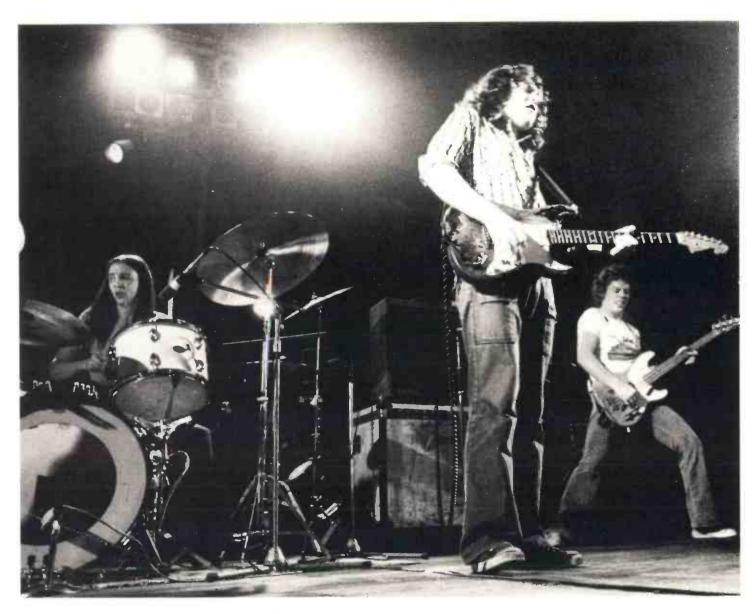
edition of Sight and Sound. The shows are normally filmed at the Hippodrome in Golders Green. But "it seems that within the BBC they were using this whole Sight and Sound venture as an opportunity to have a strike, or get a rise or something like that. We had it scheduled for tomorrow, and they've had to cancel the Golders Green gig, so the only alternative way of doing the programme was to have their Outside Broadcast unit do it. Typically as it goes, they

resolved the situation this morning!"

I had been at the previous evening's concert, which had received the sort of rapturous response Rory must surely have got used to by now (although by his own reaction to the applause, you wouldn't think so). There had been problems with buzzes, however, and the monitors had been playing up. 'Well, last night it was recorded for Capital Radio, so there again

we had a 16-track mobile in, and





there seemed to be interference because of the splitting of the microphones, which in fact sapped some of the volume from the monitors. It seems that the VUs were showing full volume, and the road crew were getting full level, but that wasn't a true indication of what Rory was hearing."

Another problem with the monitors had been the noise emanating from Rod De'Ath's drum kit, which was now positioned at one side of the stage. Explain, please, Donald: "Before, the set-up was that the drums were directly behind Rory. Rod is a loud drummer he's got great strength - and he's got those Paiste cymbals, which are extremely loud, and so's that Autotune kit; they were pouring over into the vocal mic, and any time Rory'd move away from the mic he'd just get a cymbal crash right through . . . Rod just got that drum kit recently - and the cymbals -

so it's the sheer volume. Rory then couldn't hear the vocals because of the pressure on his ears, so he was asking for more guitar and more vocals on the monitors - and then the drummer couldn't hear the keyboard, the keyboard player couldn't hear Rory that well! And Rory couldn't hear the keyboard, because he was on the opposite side of the stage. So it was like an equation changing the formula a little so that it worked out. It's worked out well now, and I think we'll keep it. You get great separation now with the drums being off on their own. It's more of a recording studio set-up than anything else.

The band have been using Stramp gear for some time, leaving aside Rory's amps and Lou Martin's Leslies. Later I asked Rory about his amplification as we stood in his dressing room. "I ditched the AC30 about two years ago. It

was very good, but with keyboards you need something stronger. What I've got now is a Fender Bassman and a Fender Concert linked together." His instruments consist of his old Strat, the black Telecaster, a Martin acoustic, a mandolin and a National Steel guitar. For those who don't know, National Steel quitars are not the sitdown type used by C & W players, but roughly conventional guitar-shaped inconstruments made from a single sheet of steel. They are extremely rare, and thus highly sought-after. The sound they produce is, as one might expect, iangley and metallic. Rory's is a National Aeolian model, made between 1932 and 1935. It cost him just £100.

I had noticed the previous evening that his acoustic instruments were not only being "aimed" at a microphone, but also had contact mic's stuck to the body. What was the advantage of this dual miking? "Well, with an ordinary mic you get a sense of dynamics. The bug is very one-dimensional, very compressed-sounding. So what happens is that you get it all in one tone and lose out on that rounded feeling — which is what acoustic instruments are supposed to sound like."

The overall sound of the gig had not been entirely to his satisfaction — partly because of the monitor trouble. "I was getting all tweeter and no bottom. And another thing — we've moved the drum kit back to the left hand side of the stage now, which is how we had it before. It was just a sort of mad gamble last night to try having it on the right. I couldn't see the audience either. That makes things a bit difficult — I like to see a few heads sticking up, at least."

In the room at the same time was Jeff Griffin, the BBC Radio

continued on page 24

RORY GALLAGHER— Captured in Sight and Sound



producer, and I casually left the tape-recorder running whilst Jeff attempted to pin Rory down to a firm sequence of songs. It wasn't that easy. The idea was to get the balance right whilst the band played three or four numbers, and then begin the recording. Rory was naturally anxious to do as many of the newer songs as possible — chiefly off the "Calling Card" album.

"The best thing", Donald suggested, "is to take your cue after the third number, do two fast ones, run through the acoustics, and get the changeover as smooth as possible."

Jeff: Shall we work on that basis? You would play three numbers which we're not taking, right? Do you know what they are?

Rory: The first one will be Moonchild; say, Tattooed Lady second, then Slow Blues or Calling Card. After that then you can come in and start off with something like Do You Read Me, or something like that. Secret Agent. . . .

Jeff: Are these fairly likely? You see, the more titles we do pin you down to, the more chance Tom (Corcoran — TV director) stands, because they've been through some of them and got the words and music cues written out. Obviously he likes to be able to cut from one camera to another . . . he doesn't try and make it all flashy, but the cuts are

"I like to see a few heads sticking up at least . . ."

smoother if he knows where he's cutting them and to what instrument, and obviously he'll shoot wild on the ones he doesn't know, or he'll do overlays or fade in and out. But it's nice to have some which actually look right.

Donald: Unless I sit in the TV truck and just stick around.

Jeff: Yes. I'm sure he won't mind that. The only thing is, it has to be so quick. I'm sure you know that. You have to get in really on music cues, and in fact Tom is doing his own vision mixing out there.

Donald: Well before I was cueing him a couple of minutes beforehand.

Jeff: Oh, when you did the Whistle Test thing?

Donald: Yes. But I know what Tom means, because, for instance, last time we'd just taken on a new light man, and I had to cue that

As the discussion went on, Rory continued to be uncertain about what to play, or in what order. His set takes the form of

three sections: the first is a series of quick-paced electric songs, followed by about twenty minutes of acoustics, ending with Going To My Home Town, which puts the crowd back in a raucous mood, ready for the final section of fast electrics. But the actual tunes chosen would depend entirely on the pace of the show, on the degree of hysteria in the audience. In the end, the band played Do You Read Me, Secret Agent, Calling Card, Slow Blues; on acoustic, Out On The Western Barley Plain, 8 Grape Rag/Pistol Snapper Blues, Too Much Alcohol, Goin' To My Home Town; the show ended (very conveniently for the BBC men) during the applause which followed Souped-Up Ford, Thus all Jeff Griffin's fears that they would either a) have to fade out in the middle of the acoustics, or b) run out of material too quickly, proved groundless. If there were any hitches, the viewers didn't see them, and that's what counts.

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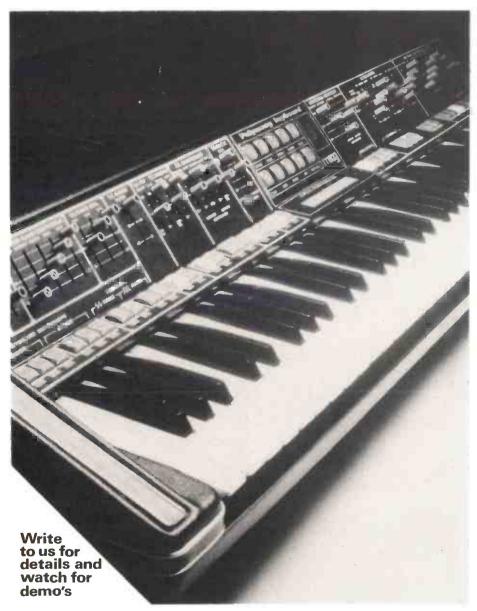
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GORDON GILTRAP

From Guitarist to Visionary

Gordon Giltrap has been picking away at his acoustic guitars for a good many years now without achieving a great deal of material success but, as a couple of spins of his latest album 'Visionary' will prove, he has gone a long way to establishing himself as a unique artist with a unique approach to his art. 'Visionary' is a collection of acoustic guitar pieces inspired — according to Giltrap — by the poems and

illustrations of William Blake. These guitar themes have been carefully and cleverly placed in the nucleus of a much grander overall concept using orchestral wrappings, and the talents of a number of musicians contributing trumpet, sax, keyboards, drums and assorted percussion. Despite the general feel of richness that runs throughout the work I first put it to Gordon that 'Visionary' is essentially very simple — did he agree?



"I'd like to take that as a compliment, if I may, because all the best things are, hopefully, simple. I've got this thing about strong melodies. I used to be into the technical side very much — and hopefully I've acquired more technique over the years but you just can't beat a good tune, and I try to aim for that in the way that I write. But if I had a guitar with me now I'd be able to play one of the most simple things on the album and you'd see that it is quite complicated really.

"When Visionary was in its original form — well, let's call it its 'demo form' — it started out as a fourteen minute piece — I took it to a journalist friend of mine who told me it really was much simpler than the stuff I had been into before — because I am primarily a guitar player and I'm known for that. I made two albums for Trans Atlantic and they were very complex things, very much exploring what the guitar could do and people who have followed by career are now in a position to see the transformation from being a complex, erratic guitar player to something much more elementary."

The form that Gordon has chosen as the platform for his extraordinary guitar work can be closely related to the original concept of a classical concerto where one solo instrument (usually a piano) put over the main themes and ideas while being supported by an orchestra. It has been generally assumed that those classical composers who revelled in the concerto also actually wrote the string sections, whereas now albums consistently credit individuals with 'arrangements'. Who, in fact, did write the orchestral sections on 'Visionary'?

"'On the album, arrangements are credited to Rod Edwards and Roger Hand — and that is true, but most of the basic melodies I got together myself. But, let me tell you the way I work, and that should basically answer your question. In getting 'Visionary' together I used a taperecorder — like a lot of musicians do — using a lot of overdubs and a lot of the string lines came out of the guitar lines. On the new album on which I'm working at the moment, however, I'm trying to work a lot closer with Roger and Rod from the initial stages.

Pressure

"Visionary, although it took a long time to get together from the initial ideas to the finished product — about 2 years, — it came together very quickly in the end — as we were recording it in fact. I was writing stuff as I was recording it — the last track on side 1, Revelation, was written in an evening, for example — it's amazing what you can do under pressure."

At this point I feared we might digress into a long discussion on the vices and virtues of being compelled to work in conditions which are not necessarily of our own choosing — something which, contrary to public opinion, prevails as strongly in the so-called artistic environment of the music world as it does on a factory floor, so I swung off on a tangent toward the inspiration for the album itself — William Rlake

Blake is best remembered — in fact, to his detriment as an artist — for 'Tiger, tiger

burning bright,' and for the 'lyrics' to Jerusalem, but he was in reality an exceptional 'visionary', a deeply religious man, a poet of considerable genius and an illustrator of particular inspiration. Holding naturalistic art in high contempt, however, did not stop him from appreciating genius in those who executed it. It is said he described a Constable sketch as 'not a drawing but inspiration.' Constable, with all the foresight of a blind opposition front bencher, replied 'I had meant it to be a drawing.' Given then, that Blake was one of the genuine genii of recent centuries, what connection is there between his work and Giltrap's?

"Originally I wanted the album to be a William Blake presentation — a picture of him on a double gatefold cover, and illustrations inside. Most people I have spoken to have said they can see the connection between that piece of music and Blake's interpretation . . . but I don't want to get into a big thing about the Blake angle. I would say that two-thirds of the album were directly inspired by Blake the rest was, of course, already written. Lucifer's Cage, for example, which is the aggressive, heavy Satanic thing was the perfect theme for the Day of Judgement. But, really, if you can't see the connection, you've got to be into Blake, you've got to know what he was trying to do.

"But on the other hand, hopefully, it's a piece of music that should stand up on its own — it's there to be listened to and enjoyed. You don't have to have the illustrations and poems to enjoy the music, but if you happen to be into Blake and are interested in seeing where I got the inspiration from — then fine."

At this point Stephanie, Electric Records' inimitable promotions lady arrived clutching armfuls of beef and ham sandwiches (despite our request for tongue and chicken) so it seemed a good opportunity

to change tack before we became involved in an inconsequential discussion on eighteenth century writers. 'Visionary' has been compared by some critics with Mike Oldfield's Tubular Bells — at least in overall feel and approach. Did Gordon accept this comparison? Most certainly, he did not.

"I respect Mike Oldfield — we used to gig together. I knew him when he was fourteen when he was singing with his sister Sally — and he was a good guitar player even then, and, as I say I respect him very much and I think I would like to meet up with him again some time as what I've heard of Ommadawn shows it to be a very fine album.

"But as regards Tubular Bells: I think the first three minutes are fine but after that it's rubbish and I'm sure Mike Oldfield — if he was here now — would say the same. And although my music is going to be put into the same bracket as that (which is fine because I like to sell records: if I could sell 8 or 10 million albums worldwide I'd be laughing) but in no way is Tubular Bells great music. I'm trying to write, and I know it sounds arrogant and you can say 'Gordon Giltrap's an arrogant pig' — but I'm trying to write great music. I'm trying to write music that's worth something, that's going to be around in a few years time. . . .

Bells

But coming back to Tubular Bells, it has opened up a great many doors. It's a great point of reference. If I ever make it in a big, big way, I would owe quite a lot to Mike Oldfield because he was able to make that concept idea popularly acceptable. Of course an important musical difference is that I am a guitarist, where Mike is interested in a great many other instruments."... which of course gave me a breathing space to ask about his own guitars, prompted by a photograph on the office wall depicting Gordon playing a superb looking double neck John Bailey acoustic electric.

He has two Ovations. "I used to hate them actually; I used to hate the idea of using them because you just can't compare them to my other guitars and they just don't mature and mellow like a really good wooden guitar. But I tried them out and they are incredible through a P.A. system — the sheer volume that's obtainable. The

double neck though is a work of art; the pick ups aren't too good and it doesn't sound too amazing through an amp, but acoustically it's a knock out." He also owns three Fyldes, two six strings and a 12 string Jumbo which are unfortunately mispelled 'Flyde' on the album credits, and a six string John Bailey, also made for him. With a background of folk clubs and pubs he's not interested in electric guitars which he finds incompatable with his extraordinary style of picking.

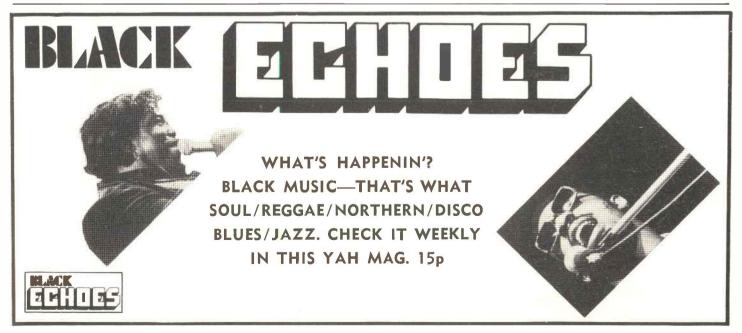
Finger

Gordon uses only a plectrum and his little finger — which should be suitably astonishing for anyone with any experience of his undeniable instrumental talent. John Renbourne, an old friend of his, only discovered his technique a few weeks ago and remarked — 'It makes your playing even more ridiculous!'' How does he manage?

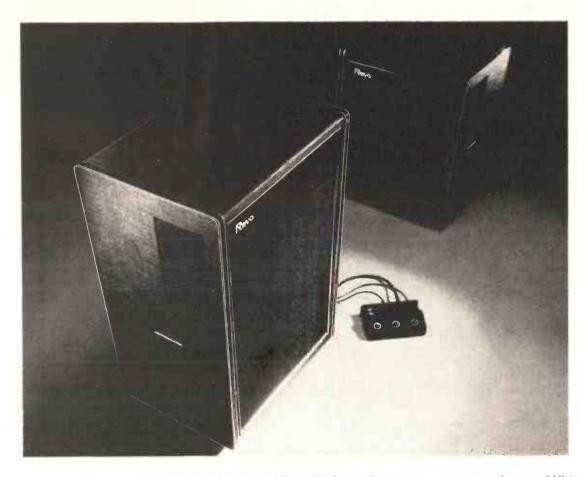
"Well, it just developed and I don't think about it any more — I just do it. I started out many, many years ago as a plectrum lead guitar player, then switched to acoustic and gradually the little finger just crept in. When I try to analyse it it becomes very difficult. I did try to teach my style to somebody once but I found I couldn't get it all together at all. It's just a natural thing which I do without thinking." Not thinking can be a problem as we realised we'd both just about missed our next appointments.

In retrospect it may appear Gordon and I found little to agree on which is contrary to the actual tone of the conversation as it developed. It is true to say that our opinions differed in some areas but in many others ('off the record remarks') we found a usable affinity. There is no doubt however, that Gordon is an extremely talented composer and guitarist, striving to reach a level of attainment achievement — some would say perfection which is sadly lacking in other aspects of the music spectrum. For that, if nothing else, I wish him luck.

By Tom Stock



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INSTRUMENT REVIEW 1

HAGSTROM JAZZ BASS

Whilst Hagstrom might be an unfamiliar name to many younger Beat readers, it's one that older musicians will know and almost certainly respect from the mid sixties when Hagstrom were imported by Selmer. Like many fine European makers (Hofner is another) Hagstrom must have felt the pinch of Japanese imports. The Japs could make cheap copies of Fenders and Gibsons (with а callous disregard of the original designers) and get them into Britain far cheaper than the European makers who were, by and large, designing their own shapes. Faced with the choice of a guitar that looked like an American name brand or one with a funny name and unfamiliar shape, the kids chose the copies (and many live to regret the choice because some of the early ones weren't anywhere near as good as they are today).

Consequently, Hagstrom disappeared from the British market. Sales, hawever, were good in their native Sweden and the instruments were continually popular on the Continent. Now Fletcher, Coppock and Newman have had the sense to import these instruments into Britain and they deserve to make a fortune for so doing.

The guitar under review, then, is the Hagstrom Jazz bass. Perhaps having learned their lesson, the designers have followed uncle Leo's classic shape and made improvements as and where they see fit. The result is a solid and good sounding bass.

Apparently made of mahogany, the Jazz bass has two pickups (double pole) two volume and a tone control. Both pickups(which are quite disgustingly powerful by the way!) are hidden beneath massive expanses of chromed steel. As with Fenders, these get on my nerves. The one covering the bass pickup

doesn't leave enough space to get your hand in behind (if you use a pick) and the cover over the bridge stops you getting a real treble clunk. Personally, I'd have both off (certainly the bass one) but it's up to you. Possibly they offer some protection to the pickups but if they inhibit the playing of the instrument they deserve removing.

A thumb rest is provided and I could have done with this half an inch higher as it prevented me really pulling the E string when doing my world famous Stanley Clarke bits (known and hated the office over).

Neck wise, this Hagstrom is superb. Although it's actually quite wide, the thickness has been reduced to such a point that the instrument becomes really playable. It's a fast neck but I didn't like the flat wound strings that came with it, still, nothing a set of Rotosounds wouldn't cure!

From the technical design angle, the Hagstrom Jazz bass is a bit of a weirdo. In the neck is a truss rail instead of a truss rod. The idea of this is that it enables a twist in the neck to be straightened as opposed to a standard truss rod which just enables bows or warps to be handled. Not having found the slightest evidence of neck deviation in this instrument I haven't been able to test this principle. What I can say, however, is that I have owned a guitar with a Hagstrom neck for over ten years during which it has required absolutely no correction whatsoever. This correction whatsoever. manufacturer, in my opinion, makes excellent necks.

On our particular sample there was, however, a fault (I think) in the electronics. Using the treble pickup a distortion and cut-out occurred which I have put down to either a broken wire or broken winding in the pickup coils. I have no reason to suppose that this is standard in Hagstrom or that they are prone to this sort of

failure but it might be worth their while checking a few samples.

Tone is, of course, a very difficult thing to talk about in a review. You can't actually describe the sound a quitar makes in words but let me say that the Hagstrom Jazz bass does a pretty good im-personation of a Fender but actually seems to have several moré voices in its repertoire. It is capable of a good fine, hard clunk and a round deep bass. Had I been prepared to spend a few quid I'd have had the strings off it and slapped on a set of round wounds (although, as a rule I prefer flat wounds). The resulting sound should be monstrous as the Hagstrom has that sort of piano like tone (if you know what I mean) that roundwound strings accentuate.

In the finish department I was most impressed. The guitar looked like it was made out of real wood (certain American instruments these days look like they're made out of plastic) and things like binding, varnishing and other operations looked like they'd been tackled by a good craftsman. If I have any reservations they're ones of taste. On the bridge cover is a Hagstrom crest that, although well made, is plastic and will possibly get chipped and broken over the years. It cheapens the instrument as does the very nasty 'Hagstrom' plate on the head. These, are of course, just questions of taste (or lack of it) but I would have preferred something more tasteful on the head and nothing at all on the bridge plate.

Machine heads were good and solid and like the rest of the guitar will last for many years.

On balance, I like the Hagstrom bass very much indeed. At first the fault in the pickup annoyed me but I got over that and I grew very fond of the instrument indeed. The neat contouring of the body threw the neck a bit too far away from me for my taste when playing sitting down but I got used to that as well. The sound was good, the feel excellent (especially the neck). Power from the pickups was, as I've mentioned, exceptional and I got the impression that the manufacturers are really trying.

If people are brave enough to buy expensive guitars that

they've not heard of before and that they've not seen around, then Hagstrom should do very well over here. Rumour has it that Abba use them and, more importantly, I'm sure that I've seen Joe Walsh toting a Hagstrom six string recently . . . 'nuff said, perhaps!

There is, however, a bit of an obstacle in this guitar's way. According to the importers it's price has been set at an R.R.P. (inc. VAT) of £325. In that bracket it faces stiff competition. If you've got the bread it's certainly worth putting on your short list and it certainly is better made than some current American guitars. If only the price had been a little lower I'd have said that it could have been a hundred per cent winner. Nevertheless, a fine bass guitar. Tested G.R.C. Using Vox AC 50 and 2×15 cab. Vox Custom 250 and four Afflyn Audio 2×12 Celestion cabs.

APOLOGY

In our review of the Dharma Sound Sweeper pedal in the February issue we inadvertently described it as being "a pretty expensive piece of hardware". Obviously, it is the opposite of this description, and we aplogise to Dharma Sound for the embarrassment and to any of you who were misled by that statement.

Also, in the Studio Spotlight on CBS Studios in the February issue of Beat, we continually referred to Studio 3. In fact, it was Studio 2 that has been the subject of the development programme, and we apologise to CBS for the printing error.

INSTRUMENT REVIEW 2

HOHNER K1 PIANO

Having played almost every kind of keyboard instrument known to man. I am always a little apprehensive about instruments that I have come into contact with. I have owned a Hohner Pianet for many years, so I was interested to see what Hohner have done recently and was heartened to find a very playable and well made instrument placed before me. The point by point test reflects the sort of investigation that the player wants to know about and does not touch on 'how thick is the solder?' (although a high quality of workapparent manship was throughout).

Piano Setting

A nice and realistic piano sound with a light touch response. The sound was well balanced throughout the length of the 61 note keyboard. I was pleased to see a sustain pedal which works well and seems of solid construction.

Harpsichord/Steel guitar setting

The Harpsichord needs a dash of piano slider to sound like a harpsichord but after some experimenting the sound can be achieved and then mixed to taste. A steel guitar sound can be found with the help of the vibrato with the delay switch in operation but I would describe the sound as more like a Zither (as in the Third Man Theme), which sounds very attractive when utilising the Bass control.

Additional Bass Setting

(operating from bottom F up to B approx. 1½ octaves).

This is operated from a recess in the front of the instrument and after a little practice, the push button on/off switch is found to be very accessible. The slider volume balance operates either through the main output or a separate bass output which can go to another amp or another channel. The sound is

very pleasing although I would like to see the range extended up to C instead of B. It would be nice to have separate bass sustain but that is perhaps personal taste.

Vibrato

Apart from use with the steel guitar effect, I found this to be probably the least attractive feature of the instrument.

General Use

In a short time of playing the K1, I found it to be very versatile and would be acceptable as an instrument in it's own right, or as a second keyboard offering manual bass (as opposed to pedal bass), and providing a range of extra sounds.

For portability the piano comes complete with a carrying bag (as do the supporting legs) and is relatively well protected, although nothing really replaces a hard case! (a lid to protect the keys and prevent dust might be a good idea?). The basic construction is sturdy with well

protected tuning facilities (each note of the keyboard is "banked" — i.e. twelve screws one for each chromatic note covering the whole keyboard). These are easily accessable at the rear of the instrument.

Service

The Hohner engineers say that it shouldn't need servicing but should anything go wrong, any electronics engineer would be able to fix it, taking into account the normal snares of repair. As it didn't go wrong I can say no more!

Personal conclusions

This Piano is a good and useable instrument at a reasonable price and should give many years of excellent use. Do try it for yourself, as musical instruments are personal items after all, and I personally like this one.

Tested with Hohner Orgaphon 130 Amplifier and OTS130 Speaker cabinet.

Roger Coulam L.G.S.M.





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INSTRUMENT REVIEW 3

ROLAND RS202 STRING MACHINE

'd forgotten it is possible to fall in love in only four days not that I can remember exactly what it was like but it's a fair quess it bore some resemblance to unpacking this little black item and ripping the plug off the electric carving knife to sit cross legged on the floor with a set of Woolies screw drivers cursing the advent of the continental wiring system. That first rush of anticipation is quickly followed by the headlong ecstacy of consummation: power on, plug in, and start driving away! Well that's how I felt about the RS202 String Machine that Brodr. Jorgensen managed to intercept for Beat somewhere en route between the Roland factory and an expectant customer. I trust by the time that customer reads this review he'll feel as satisfied with his purchase as I am with its performance.

String machines are strange animals. They don't pretend to sound as 'realistic' as either the genuine orchestra or a mellotron but they have distinct advantages over both. They're portable, don't require weekly wages, can't suffer from mechanical breakdown or seven second spurts of enthusiasm—and they're cheaper than both. And the Roland, at only £513.19 represents excellent value for money.

A brief description then: The RS202 has a 61 note keyboard with three voices — horns, and strings 1 and 2 — the latter being one octave higher than the former.

The bass (F) clef and the treble (G) clef each have their own independent controls — one each for the three voices, one for soft attack, and one for soft volume which operates within each clef. Additionally there are controls for sustain for each clef tone (a sliding scale between high and low) for strings and horn, and vibrato and delay, and ensemble for the keyboard as a whole. Additionally there is a on off switch, pilot light and sliding volume scale.

Also on the main control panel is a tune facility in the shape of a knob which rotates about 270 degrees altering the pitch over-all by about a semitone — a useful and sensible addition. At the rear are three female jack sockets — one high and one low, and a third —

a Gate output for connecting to the ADSR of a synthesizer.

Pretty well equipped by any machine's standards, and at this price and quality, virtually unique. The whole machine is finished in black PVC with a black anodised control panel—looking very smart. Also included is the top which converts the whole issue into a long, heavyish suitcase!

I do have a couple of criticisms of the controls and their functions as I feel that with only a little more circuitry and a little more cost the 202 could have been made considerably more versatile. The soft volume just seems to rock too easily — it's a little uncertain which mode you're in — which could be a bit of a problem when filling in some backing in a loud live situation.

I would also have liked to see the ensemble control doubled up to make separation of the bass and treble clefs possible as it stands they are linked together by this control. The same criticism can be applied to the vibrato — this too, controls both ends of the keyboards at once.

So what's it like to play? The keyboard action is superb — a little on the heavy side for an

electronic keyboard, but firm and really pleasant to use — it makes you feel as if you have a substantial instrument at your fingertips — which is certainly true. Because of the way Roland have split the keyboard at the F below middle C there is a definite split in the sound. The bass clef is very bassy indeed — in fact some amps had trouble in reproducing the bottom three semitones when the horn section was introduced — a fault not of the Roland's making.

If I were to criticize this arrangement it would be on the grounds that not a lot of numbers are written in F — I would have preferred it to have gone on down to E — at least you could give a substantial string arrangement to most blues sequences in the original key — still, I can hardly imagine this machine getting a lot of blues work!

The Ensemble switch — off, one or two — should really have a third position — between off and on, as the difference is greater than between two and three — almost annoyingly so at first but it's very easy to get used to.

The String II is by far the most pleasing voice on the whole

machine, reaching up to a clean, crisp, pure treble that I've not come across on instruments costing twice as much, or more. A real winner of a voice - not that the others aren't good simply that this is outstanding. With every control on flat out the overall picture is one of great depth and richness, suitable for virtually every application you could think of — assuming of course you're into needing this sort of backing, and it's certainly my contention that many a small outfit with a thin overall sound could do a lot worse than investing in one of these for the hard-up keyboard player. The Roland provides the facility at a very reasonable cost.

Undoubtedly the keyboard section of present day music has benefited from electronic advances more than any other it's difficult to believe that not so long ago the only weapons in the armoury were either a piano or an organ. Now the potential Rick Wakeman is faced with an awesome choice of artillery clavinets through mellotrons and synthesizers to string machines and electronic pianos; where does he begin to look? Obviously it depends greatly on the type of music you're into, but this string machine can also double up as an organ - albeit a very simple one - and can even sound like an electric piano when set up with the horn section only with the sustain on full - there's quite an interesting sound in there. - so it is more versatile than one would at first imagine.

So what more can I say? I enjoyed having the use of the instrument immensely — I'm sorry it had to go back so quickly. Perhaps some time in the future I'll get a chance to give it further consideration for a longer period of time.

The RS202 really does deserve its place up there rubbing shoulders — or is it horns? — with the best of them and I wouldn't be surprised if a few of the top table guests are finding a coolish breeze blowing around their string sections. It could just be the Roland taking breath!

Roland RS202 string machine. Tested TVS with Pearl and Carlsbro amps, assorted foot pedals (sweeper, envelope and phaser) Sony tape recorder — when working — and a whole bucket full of enjoyment.



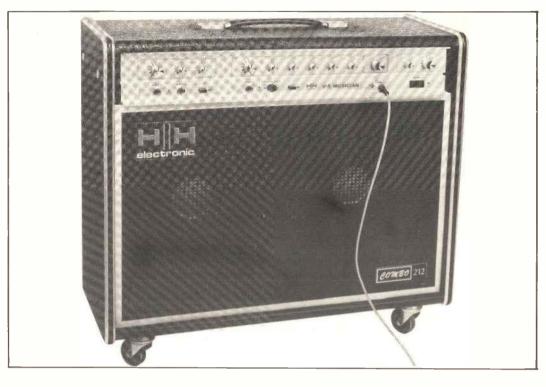
HH's widely publicized VS series first time appeared around March of last year, and so Beat thought it was about time to take another look and see how well the range has stood up during the year or so that it has been on the market. The big difference between the new HH gear and previous transistorized amplification was, so they told us, that an almost infinite range of tonal possibilities was offered, viz: "The VS Musician can be set to sound like a 5 watt practice amp, a 100 watt valve amp on full steam, a clean, tingly transistor amp or any other amp you may favour." In other words, anything you wanted it to be, behold! it would become. This is a very big claim, and one worth investigating.

So how are these unique sound characteristics produced? Well, first by the use of a control marked "voice". This can be set in any of three positions — light, neutral and heavy. It is designed to set the basic tone type that you want to use. The other feature is the Valve Sound switch. This switches the "patented harmonic generator" on or off. Off for ordinary transistor sound; on for the valve effect. Quite simple, isn't it?

The model we reviewed had the optional reverb facility. This is controlled from two on/off buttons — one per channel, and from the Master Reverb control, which varies the depth.

The front panel controls, then, from left to right, run as follows: Channel Two volume, bass, treble, and underneath - input one, two, reverb on/off; Channel One gain, bass, middle, treble, presence, voice, valve sound; under these are input one, effects in, reverb on/off, footswitch socket; on the extreme right are master reverb and master volume, beneath which is the mains on/off switch. And while we're at it, the back panel has four jack sockets on the far right for echo send, echo return, D.I. output and slave output. There is an output for an additional speaker and a mains input "Euroconnector".

All this information is clearly laid out in the User's Handbook which, however, does not tell us what the speakers are. A quick 'phone call established that they are HH speakers. Fine. The amp is rated at 100 watts rms into 4



ohms.

Obviously the first things to try were the features unique to the VS Musician, and I must to confess to have been not overimpressed with the "Voice". To begin with, the volume was considerably greater from "light" to "mid" and from "mid" to "heavy". Because of this it became necessary to up the gain when switching back. And I did wonder just what advantage there could be in having such a control at all. The stated intention is to provide the player with a wider spectrum of tone than ever before, but in practice ordinary tone controls will always give you as much in the way of variation as you are ever likely to want - especially as, on the VS Musician, you already have four equalization controls for channel one.

What I was really interested in was the "Valve Sound". Many manufacturers of the new transistor amps currently around have leapt on this bandwagon, having failed in the first place to convince musicians that valves were obsolete and unnecessary in amplifying electric guitars (I even know of a church organist who claimed to prefer his old valve amplifier to a newer solid state one he was given). Real valve amps sound "clean" at

low volume, and the clipping etfect that produces that nice warm distortion only begins if you wind up the gain in relation to the master volume, or when the amp heats up after a few hours of punishing use. Play a chord and you will hear distortion initially, but as the chord dies away it will cease to clip, and a cleaner sound will emerge. With the HH "valve sound", the distortion is artificially produced and therefore remains constant for the duration of the note or chord. I would have preferred a variable VS, on which you could dial in the amount of distortion you required. The sound itself is actually fairly close to that of a heated-up valve amp, as I found by comparing it with a Hiwatt. And it is certainly an advance on most built-in distortion effects which as often as not succeed only in fuzzing up the sound, and making it rasp quite un-convincingly. The VS is a cleaner distortion, in which you can clearly make out the notes. and the sustain is also good. This would be particularly useful during recording or else playing in small venues, since sustain can be achieved at low volume by simple manipulation of the middle and gain controls.

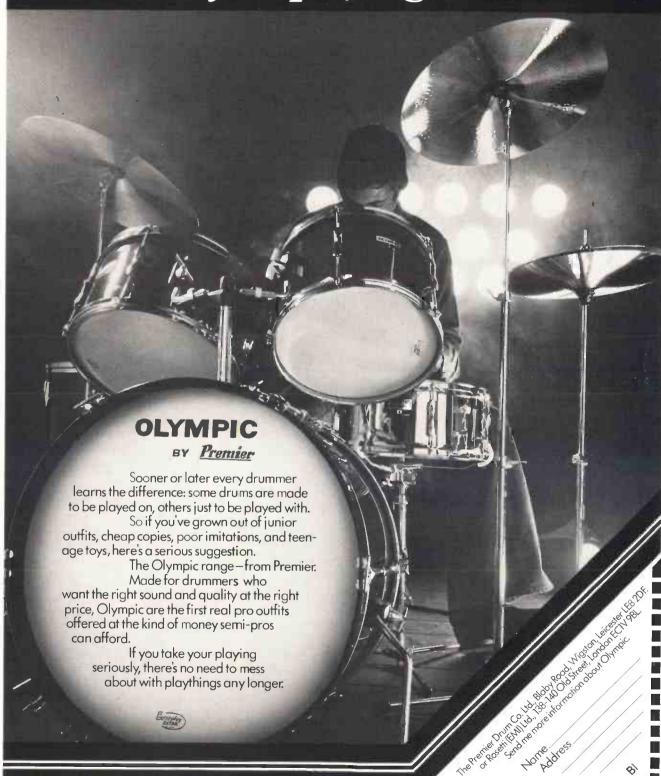
The next stage was to wind

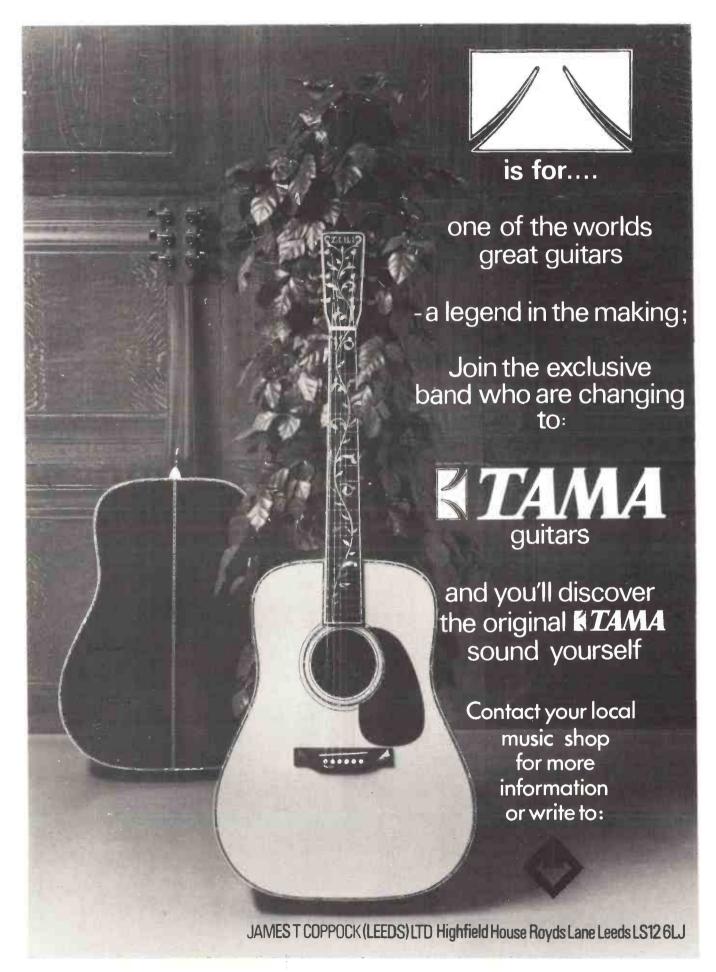
everything up to see how much noise it made. With nothing plugged into it, the amp made a loud hiss when all the controls were on full; this was worse when the VS was switched on, but really surprising was the discovery that there was both treble and bass feedback when no instrument was connected to the inputs. The ear-splitting whistle had me diving for the gain to whisk it back to a less painful level. I discovered that most of the hiss was caused by a combination of the presence and reverb. One further gripe: the cut-out after switching the amp off was very late - the hiss took about ten seconds to disappear.

Otherwise I found the overall sound of the amp quite acceptable; the amp is certainly loud enough for most purposes, and considerable tonal variation is possible. The reverb was really excellent - the best builtin reverb I have come across. with a lot of depth and clarity. The construction of the cabinet seemed fairly rugged, the front being covered by a thickish plastic grille, and the back is well sealed and protected. Another advantage is the lightness of the combo, making it easy to cart around.

Recommended retail price: £242.73 inc. VAT. Tested P.D.

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DAVE GREENSLADE'S "BREATH OF FRESH AIR"

t was back in the rainy season in November that I found myself northbound to the railway terminus of rock - the Roundhouse - to catch a one-off gig by Dave Greenslade and putting across friends material from his then new Choir'. album 'Cactus Staggering across many an extinguished body prostrate in the aisles in fruitless search for a comfortable platform bench I stumbled into the slipstream of Big Jim Sullivan hurrying for the sanity of the back-stage area and smartly nipped in behind him.

Greenslade was good damn good - so I resolved to get a few words with him. Still, you know how it is, resolutions tend to blow away with the advent of the Christmas spirit etc. only to rear their heads in the New Year — but now, at last, we got around to talking. 'Cactus Choir' — in my opinion an exceptionally fine album — is Dave's first solo project following on an illustrious career with Colisseum and Greenslade, so I asked if he views the future as a clean break.

"No, not at all. I've learned, I think. All my

musical education has come through being with credible musicians during the last 12 years, and my education continues by being with people - not necessarily in a permanent outfit — but simply the people I work with — for example, the producers and directors who know what they're doing on programmes and the people who join me for recording and practice. I learn from all these people, and obviously I'm still learning. So I mean it's just a continuing process of musical education. Perhaps it's more stimulating in a way now, because for three years with a static sort of line up you do get to know people rather well, whereas now if I'm in a different environment every day — like the television thing — I'm learning a lot faster all the time. With that static family of people, however nice it may be, you do tend to slow down your own progress."

So-called 'Solo projects' often turn out to be group efforts nowadays, so I asked if this album had been a solo concept in reality.

"Yes — in as much as I had total control over the compositions which I've never had before. Having the permanent democratic band which I've been used to we then had to have permanent democratic discussions: some of them were very pleasant and some were very constructive — but that process wasn't gone through at all with 'Cactus Choir'. I became a selfish man with nobody else around, and I wrote as one person without any restrictions whatsoever.

I did have a sense of freedom about the project. I mean, I'm not putting down what we did in the past, because we had a splendid thing going for us and everybody thought it was a gas and I learnt an awful lot working with people like Jon (Hiseman) and (Heckstall Smith). But this is something new and that's why I've been talking about it. It was a breath of fresh air, in a way — that sort of freedom." Dave is one of the few keyboard players in an age of guitar heroes to have established a name for himself as an ivory man at home on all the different forms of ivory layouts there are. Ironically then, the last track on the album is graced with the full sounds of a real, genuine orchestra. Why?



"Well, I felt I couldn't do the piece justice using string machines so I thought 'why not use the real thing?' It's nice to own up, if you like, right at the very end, that you can't do everything with



these machines. It's really paying homage to the real instruments in a way. This was just one little pointer, you know - "look chaps, we can't do it all by ourselves, not all the time.' And that's how an orchestra really sounds as opposed to the synthesized one." Dave's last band — 'Greenslade' — took the unusual step of featuring two keyboard players (Dave Lawson) - again, at a time when the guitar still held pride of place in the rock idiom. Does he not like guitars?

"Basically I don't really like the guitar. I really like keyboards and therefore I feel I should use them. But the guitar is a beautiful instrument in the right hands — and I do emphasise in the right hands. Magnificent. Mick Abrahams (who plays on 'Cactus Choir') is a tremendous player, for instance. But I've got nothing against the guitar, except that I think it's very hard to find the sort of player that I really enjoy to play with. I feel they get carried away. But I don't consciously avoid writing for the guitar," So how does he write?

"On the piano. I've a electric piano at home and I write more or less everything on that first - to use it as a backing track if you like, with the tunes going round in my head. Then I develop the tunes with synthesizers on top. I've got an Arp Explorer which is the ideal synth for those people who don't know anything about programming — like me. It's got some sort of programmers on the left hand side somewhere - I think I've seen them — and on the right you've got the pre-set tabs which are for people like me
— as I say." He paused for silent chuckling before continuing, "But to be serious for a moment - I'm not really into large synthesizers because I get impatient. Obviously, it's a very delicate process finding the right sounds on those things and I just get pissed off with it. I want to sit there and play it - you know? I'm more interested in the playing than I

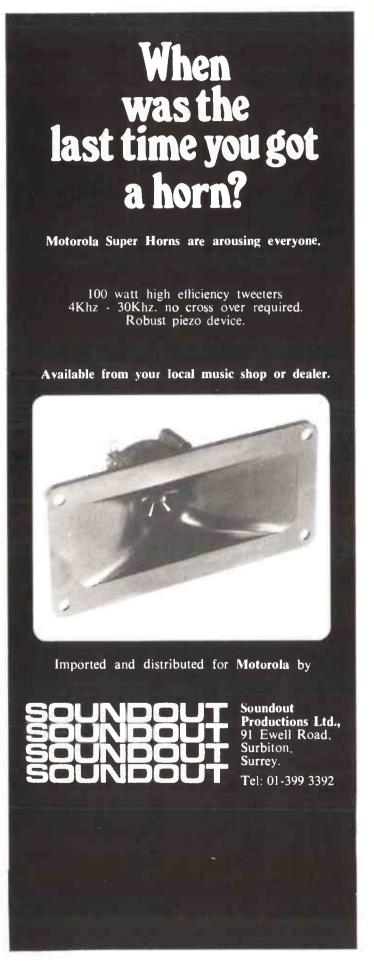


am in the technical wizardry. They're like a telephone exchange — you can get a long way with them but it's not really my style. In fact, I still believe the grand piano is the best instrument in the world — but that's totally subjective."

Amongst the people Dave gathered together for the album is a young drummer who's fast making a name for himself — Simon Phillips. How did they meet?

"I was recommended to him by my producer who used him a lot on sessions—and I'd heard his name being bandied about by various people as being, well, unbelievable. Well, he's magnificent, and very fast at picking things up. No rehearsals, just straight in with the demo tape—and he's only about 19—it's quite frightening really!"

So, I found time had run on all too quickly, and Dave had to be off to Bristol to work on a load of TV music which following the success of the BBC Gangster series he's finding a satisfying challenge. Unfortunately, 'Cactus Choir' has made no inroads on the charts, being caught in the prickly area that determines good musicianship still counts for little when it comes to prising green slips from grimy hands — but if you get a chance to see Greenslade live, grab it. And if you can't, pour a few pounds into a needy musician's pocket for me, won't you. It's worth it.



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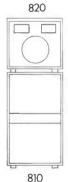
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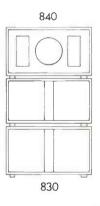


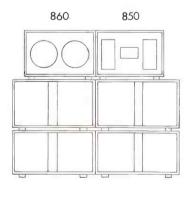
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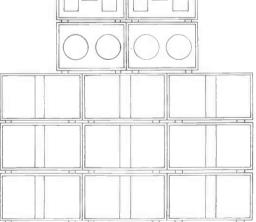
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album reviews



GENTLE GIANT LIVE — PLAYING THE FOOL CHRYSALIS CTY1133

What other band can you think of who have put out ten albums? Chicago, perhaps, and there are probably others. But how can Gentle Giant have put out ten and still be an unknown quantity? The answer lies in that old chestnut — the one about making it big in the States. If it's there they have received their just reward and acclaim, why bother with a country infected, as we are, with a bad case of Radio One?

On to the music. Between them the band play 29 different instruments. That does not take into account their voices, however, which act very often (on "Boys in the Band" or "Proclamation", for example) as a five-part instrument. As for describing what sort of music it is, well, people have tried before now. I would call it futurist medieval. Free use is made of recorders (alto, descant and tenor), cello, violin and percussion instruments such as the tambour; a medieval quality is also produced by the minor-key drama of tracks like "Proclamation", which really drama does give the impression of a 14th century herald noising abroad the King's pronouncements. The futuristic facet appears via Kerry Minnear's synthesizer and Gary Green's guitar, which race around one another on a chromatic scale, more often than not setting up a rhythmic counterpoint. This is especially effective on "Just The Same", which opens side one of this double set.

Another impressive device is the use of the vocal line to offset the complex rhythms established by the other in-

struments: Derek Shulman achieves the rare feat of again — making his voice an extra instrument rather than simply singing over the top of a chord sequence. His handling of difficult rhythm and 12-note scale singing is truly amazing. A good example of this is perience" on side three. Gentle Giant are also not afraid to make use of silences in their music something that few rock musicians have dared to try. In the same way there are extended quiet passages, during which the audience maintains an awed and respectful hush. "The Runaway", from (I think) the "In a Glass House" album, begins with the sound of glass being smashed at random. gradually taking form until it develops into a rhythm which the band take up as the basis for

High points on the album will only begin to emerge after many listenings, but for me "Free Hand" on side four, and "Just the Same" best demonstrate the fully integrated Gentle Giant sound. Their sense of humour too comes out best in live performance — a song entitled "Breakdown in Brussels" turns out to be Ray Shulman playing a violin version of "Sweet Georgia Brown". And for all their cleverness, how many other bands would have the nerve to use a giant neon sign, flashing PRETENTIOUS behind them on neon sign, flashing stage, as they have in the past? But then, to bring it full circle, how many other bands have put out ten albums and remained unrecognized in their own country? Answers on a postcard, please.

KEVIN COYNE IN LIVING BLACK AND WHITE VIRGIN VD 2505

It takes a lot of listening to get onto Kevin Coyne's waveband; this superb live double should at last stir a lot of people into making the effort. Coyne has always been a man alone, reflected by a fragmented musical career, and Virgin's part in revitalising him should not go unmentioned. As so often in the past, they have been prepared to back more unorthodox ar-

tists; Mike Oldfield's enormous success has been insufficient reward for their faith. Anyway,



the man with the real struggle has been Coyne himself, fighting a losing battle against a British public unwilling to succumb to his direct and vital approach. For Coyne, music is the medium through which he can communicate the realities of his mind; In Living Black and White finally pulls together all the previous threads and lays them down with conviction.

The intensity of the songs is further communicated by the lengthy dialogues between them, and by the obvious involvement of the band. You've got to be into it to play such material, and Zoot Money, Andy Summers, Steve Thompson and Peter Woolf obviously are. Zoot Money's fine electric piano playing is particularly appropriate for Coyne's songs, blending in whether just as background chords for the more manic chanting or as the driving force behind the full blooded ballads of frustration and experience. Coyne leads the music through several mood changes without ever losing the feeling of oneness that pervades Black and White.

When the album has at last finished it has not been a performance of a lot of songs, but the cohesive result of one man's all-out attempt at communication on a real level. The album should be treated as nothing else, and fully deserves the total attention normally reserved for traditional classics.

C.S.

DAVID BROMBERG BAND HOW LATE'LL YA PLAY 'TIL? FANTASY FTSP 53

For those who are not already familiar with the works of Mr Bromberg, this double collection should serve as an admirable introduction. Sides one and two were recorded in the studio, sides three and four live at the Great American Music Hall, San Francisco. It's no use trying to find a category for the music, since Bromberg and his

band zip through cowboy tunes ("Whoopee Ti Yi Yo"), Country ("Summer Wages"), bluegrass ("Get Up and Go", "Bluebird"), New Orleans ("Dying Crapshooter's Blues"), rag tunes ("Dallas Rag/Maple Leaf Rag"), idiotic synthetic funk ("Danger Man II") . . . oh yes, and blues. Side Four consists entirely of blues — "Sweet Home Chicago", "Come On In My Kitchen", etc., concluding with Dr John's "Such a Night", treated in a laid-back New Orleans style.

So all in all you have to treat this man as an encyclopaedia of American musical styles. What he has, though, that an encyclopaedia doesn't have too much of is humour. This is showcased on the 16-minute "Bullfrog Blues" that takes up most of Side three. The only other musician I know of who takes that long over "Bullfrog Blues" is good of Rory Gallagher, and, enjoyable though his version is, I'm afraid it ain't a patch on David's, "I tell ya, it's hard," he sings, or rather speaks, "when the woman you're in love with loves your best friend . . . And it's harder still," he continues, "when she moves in with him . . . But it's extra special hard," he concludes, amid the guffaws of the audience, "when your best friend is your room-mate.'



His ability to manipulate the audience places him in the allround-entertainer bracket. Most performers are content to manipulate in one direction, e.g. to make them laugh or perhaps to make them get up and boogie. David, however, can switch from one mood to another and still keep them in the palm of his hand. On "Such a Night" they stay respectfully quiet during most of what is, in any case, a melodic little tune, when the musicians gradually fade out leaving Phil Kearns whistling on his own, they start clapping in time without being asked. OK, big deal, you might say. But audience participation of many kinds is evident throughout the second two sides. Bromberg and his band play with more fire and

urgency here than on the studio tracks, David himself cutting loose with some extremely raucous lead quitar.

High spots on sides one and two are the rags, played with an easy delicacy on solo acoustic guitar, and the cowboy tunes, especially "Whoopee Ti Yi Yo", which is played straight - no hint of tongue-in-cheek, since this would be too easy. I also liked "Kaatskill Serenade", a sad song about Rip Van Winkle waking up after 20 years and finding that all his friends are dead. The fast country pickin' of banjo and guitar with an overlay of scratchy fiddle appears on many tracks, and these are raced throught with characteristic polish and panache.

P.D.

JOHN LODGE NATURAL AVENUE DECCA TXS 120

It's difficult reviewing an album at the same time as it's happily spinning around at the required revs and getting blasted out the old wooden boxes in the corner. It's even more difficult trying to persuade my wife to turn it off for a moment. John Lodge has put together one hell of an album so successfully that I'd rather it was difficult to review than not listen to it at all.

For those of you who didn't read my interview with John last month, 'Natural Avenue' was first conceived in February of last year, shortly after the end of the Blue Jays tour with Justin Hayward. John told me last month that he had dreamed of this project for some time, and it's a pleasure indeed to report that this is a dream come true.



The Moodies were songwriting unit, but with this album it becomes easier to pinpoint some of the characteristic 'Moodies' sounds much more accurately. it also makes possible a closer examination of the Blue Jays. But I'm sure wouldn't find this John retrospective approach to his new work of any relevance and I'm inclined to agree. 'Natural Avenue' will, as its writer intended it to do, have to face examination on its own merits as well as those of its ancestors. Using that criteria, it succeeds astonishingly well. So well, in fact, that its few imperfections are irritatingly prevalent.

However, more of that later. Natural Avenue is the perfect vehicle for an examination of the Moodies in greater detail as it isolates one of its writing members. The remaining sound, therefore, belongs to John Lodge, and it's his own particular version of the Moodies' composite feel that dominates this album. In that, one can pick out three immediately apparent separate factors: a) the lyrical factor that dealt mainly with identifiable love situations; b) the use of orchestra as opposed to synthesized strings; c) the occasional sparseness of harmonies.

The majority of the songs on Natural Avenue are about love, in one form or another, and although the melodies seem to be screaming out for harmonies, John uses them very sparingly. That it annoys me is probably an indication of my sub-conscious indoctrination with the fuller Moodies' sound which I involuntarily associate with all of the different 'solo' projects that have followed their going into 'retirement'.

John got together with some seemingly unlikely partners to get this album together including Chris Spedding, Kenny Jones (ex-Faces drummer), Steve Simpson (ex-Joe Cocker and presently working with Andy Fairweather Lowe,) and Mick Weaver, ex-Head Hands and Feet and now Mealticket keyboards man. String arrangements are by Brian Rodgers who did the same job for the Beatles on 'Let It Be', and there are some superb sax passages from Jim Jewel. The sum of this motley collection is an album which is streets ahead of anything produced so far by any of the Moodies themselves or bands which climbed aboard the wagon of their success.

As I remarked earlier, it's the few imperfections that stand out a mile, but only because the majority is so faultless. The album opens with 'Intro to Children of Rock 'n' Roll' and is followed by the title track 'Natural Avenue' which is strangely the odd-man-out. Built on an old rock 'n' roll rhythm it suffers from a weak melody coupled with slightly off-key Yes-type vocals. But from there on it's a gem. Rather than detail all my criticisms I'll just mention a couple of the things that I feel could have

been looked at before the final mix. During 'Piece of My Heart' there is definitely a bum note in Spedding's otherwise immaculately melodic guitar work, the acoustic guitars occasionally suffer from what appears to be imperfect miking, and crime of crimes, couldn't Justin have sung a harmony on the chorus of 'Say You Love Me'? — now a single.

There are other points, but they're of little consequence when compared with the overall feel. It's a looser album than Blue Javs, not quite so pristinely clean, and it's certainly rockier, if you see what I mean. Many of the songs will remind you of the Moody Blues, but then that's not surprising. What I find a little frightening, though, is the thought that if all five of the original band have progressed as far as John Lodge has from the last point of reference, any work that may one day come from a reformed Moody Blues is going to be so staggering it hardly bears considering now.
What does bear considering now is Natural Avenue. It simply seems a damn good way to go. Buv it! T.V.S.

LITTLE RICHARD/JIMI HENDRIX FRIENDS FROM THE BEGINNING EMBER EMB 3434

The front cover does pull a bit of a fast one; both men were younger (and very different) than the pics imply. Secondly, Friends in the Beginning rather than 'from' would have been a bit nearer the mark. Once that is understood, though, the album becomes a very interesting collector's piece covering several corners. To begin with, Hendrix fans after every little bit of output, then the much smaller band of similar Little Richard fans, and then musical students who are intrigued by such an unlikely musical union.



All the tracks are sufficiently well known to indicate the mood of the record, and the era accurately suggests the simplistic and tinny sound of each instrument. It is, of course, stereo

enhanced but this has never been a particularly impressive helping hand to not so golden oldies. Richard, then, is found as he nearly always was, either just short of or just past his best, hollering away like a madman but only succeeding on the traditionally outrageous numbers (Whole Lotta Shakin, Lawdy Miss Clawdy etc.) Hendrix proves to be the more interesting half of the duo. He is discovered in a role that people began to forget after his rise to stardom as the flower power messiah, as an anonymous and unobtrusive session guitarist, playing just what Ike Turner and all of them were playing at the time. His guitar takes its turn with honking sax, stomping piano and early-Shadows' drums, and would not suggest any distinction but for his name.

My ears strained, duty-bound to unearth an embryonic Purple Haze, but as long as he was with Little Richard the wild man called (or rather screeched) the tune, and Jimi's revolution would have to wait. Anyway, read the sleeve if your eyes can suffer the print, and see how they didn't get on etc. Then, if you can afford the cash to gratify an easily sated curiosity, buy it.

C.S.

GARY WRIGHT THE LIGHT OF SMILES WARNER BROS K56278

If 'The Light of Smiles' had been Gary Wright's first solo album all the critics would have brushed the cobwebs from their eyebrows and stifled the yawn that is their trademark. Unfortunately for ex-Spooky Tooth keyboard man Gary it turns out he set himself such a standard with 'Dream Weaver' that he cooked his own goose. 'Dream Weaver' which went gold in the States and gave birth to two top 5 singles was a promising album, not quite together but showing there was room for improvement that could have turned Gary into as big a star in this country as he is across the Atlantic. But 'The Light of Smiles' just doesn't light the touch paper at all. In fact my copy just managed a faint glow in the darkness, flickering like a dying candle.

It's still a pleasant album. Gary's voice is immaculate, and he delivers the lyrics with an almost too perfect diction and deliberance that have you groping for the washing up bowl. The melodies, however, as nowhere near as powerful or original as Dream Weaver, and the backing harmonies in places sound like a bunch of stoned

album reviews

heavyweight gospel singers celebrating the 65th year of a Southern States' parson's incumbrancy. And if that's a badly constructed description you ought to listen to the particular track that inspired it -'Silent Fury'.

But it's not all like that. Two tracks in particular stand out from the morass of mediocrity 'Water Sign' on which Gary gives the best vocal performance on the record, and the title track 'Light of Smiles.' The remainder of the cuts lie in between these two at one end and the aforementioned 'Silent Fury' at the other. The exception to this is the extraordinary 'I am the sky, mother' (repeat three times for the entire lyrics by Wriaht's spiritual quide Yogananda) Paramahansa which is sung badly and treated even worse by Justin Wright who we must assume to be Gary's young son. I've not heard as dated an interpretation of a song since Hole in My Shoe which started that kind of interpretation!



Perhaps it's Wright's now obvious pre-occupation with self realisation and cosmic consciousness that has gone some of the way to stemming his musical abilities. If his teacher is simplicity, preaching Garv seems to have found himself caught between writing simple songs but still being unable to treat them in a basic manner hence grooves and grooves of weird and unrelated spatial introductions, followed by overgrand productions which tend to swamp the songs themselves.

But maybe the most disappointing aspect of the album is his reluctance to use the new Oberheim synthesizer to its full potential. The one thing that really annoyed me about his earlier album was the repetitive lead sound. Un-Mooa fortunately he tends to use the Oberheim apparently on only one or two different settings and the difference is minimal. This repetitiveness also highlights the fact that he's not a wizard keyboard man - at least, not as a lead player. There are moments throughout the album that I found myself longing for a gutsy quitar to break the synthesized monotony and grab the song by the throat and shake it around.

Well, it must sound like I hate the album. I don't. I just find it disappointing that he should reject all the latent potential so obviously present in Dream Weaver and produce a mediocre album with no apparent musical progression. Had the songs been as good in themselves that wouldn't have mattered so much, but they're not. As Wright said to Beat in January: 'l know I'll never make another Dream Weaver.' Well, Gary, you're going to need one to break over here.

TVS

UTOPIA RA **BEARSVILLE K55514**

"Inspiration showers green and growing gardens of love/Voices rise to the song/One in all, all is one. . . . " If this sounds naggingly familiar, you may well have been listening to Steve Hillage's "L" recently; but although Steve is fond of talking and singing about energy, he hasn't quite as much of it as Todd Rundgren when it comes to injecting a manic, cartwheeling, crazy and yet controlled force into music. Todd's career so far has been the reverse of common practice: most musicians start off in bands of which they are no more than a member, later perhaps making a solo career. He, however, has now opted for comparative anonymity in favour of Utopia's collective identity and astonishingly powerful it is too. The concept was first unveiled to the British Nation at last year's Knebworth, when an outof-phase sound system plus the

antics of two acrobatic pilots combined to make the event even more strange and ethereal than it was meant to be.



Utopia's set at Knebworth began with what is also the first track on this album, and from which I took those opening lines. A trumpet voluntary, played on the synthesizer, heralds "Communion with the Sun", a sort of invocation to Ra; the parallel with Hillage becomes quickly apparent, since his "Lunar Musick Suite"had also begun with an invocation. The guitar sound too is very like Steve's — fast, heavily echoed, phased and bubbly - the fully synthesized "Magic Dragon guitar. Theatre", which follows, has a walking rhythm and a vocal line that is harmonized all the way through by bass-player Kasim Sulton and Todd. The gibberings in the middle prove oddly disquieting, and are meant to, for this is a song that must surely have been inspired by Hesse's Steppenwolf, whose experiences in the novel's Magic Theatre are more than mere drama. Embarrassing though it is to say so, this is surely an LSD song for the dreary, jaded '70s. I wonder if the BBC will ban it. (I wonder also whether they would consider giving airspace to such good music anyway. Ho hum.)

Two more songs on this side 'Jealousy'' and "Sunburst Finish" - are pinned down with a heavy-metal bass line: there is more spacey lead guitar, and more of that chorus of backing voices - quiet, tinny and distorted, not unlike Queen, if you can imagine Queen singing with passion, which I can't. The lyrics on "Sunburst Finish" are particularly good, and it is a shame you can't make them out, thanks to the low mix. (Those who wish to appreciate the lyrics need look no further than the inner sleeve, however.) "Eternal Love" is the only track on side one which Rundgren had no part in writing, and though the words are rather wet, the vocal harmonizing is truly wondrous, reminiscent both of Queen and of the Beach Boys circa 1973, with reverse tapes and heavy phasing. It indicates the great musical strength of Utopia's "other members" — as indeed does the whole of "Ra" which, though produced by Rundgren, is a truly collaborative album.

"Hirosh - imaa!!!" they scream on the first track of side two, "Na - a - a - gasakiii!" This was another of the memorable features of their set at Knebworth, a solemn but anguished, angry piece: "Don't you ever forget, don't you ever fuckin' forget." The rest of the side is taken up with the 18minute "Singring and the Glass Guitar" subtitled "An Electrified Fairy Tale". The real triumph of the album, the story of this piece is simple without being twee, and the music is structured without seeming contrived. The story is narrated by a reedy-sounding pseudo-Scotsman (no kidding) and the form of the tale is such that each of Utopia gets to solo, representing in turn each of the four classical elements - earth, air, fire and water. Drummer John Wilcox is particularly outstanding in this section. The piece ends with a triumphant march of unity - a good way to finish off a remarkably unified album. Todd's production has a different sound to any of his previous efforts; "Ra" is less toppy, less straightforward more profound, you might say, in every sense of the word.

JETHRO TULL SONGS FROM THE WOOD **CHRYSALIS CHR 1132**

With its cover so reminiscent of the This Was/Benefit era, and Anderson there as the rustic woodcutter, Songs from the Wood proclaims its aspirations to rediscover the roots: roots not only in theme but also in Tull's own musical background. There have of course been several hints along the way of Anderson's lingering infatuation with the minstrel-squire image; Minstrel in the Gallery, for instance, now falls into place as an interesting precursor, both in title and (in places) in idealistic mood. Minstrel had a mixed reception, for the goods were there but everyone was still on the lookout for the big Aqualung Mark Two revival album, and that wasn't it. Too Old To Rock made some effort towards achieving a more elementary approach, rocking hard in parts but somewhat slowed up by the well worn leather boy theme.

Songs in the Wood shows that Anderson has still not satisfactorily resolved his stance. If Too Old To Rock was a little contrived towards the one end of the scale, then Songs is definitely in а similar predicament with Anderson's re-donned guise. However, if they are songs from the wood, they are certainly songs from Anderson's wood - Hunting Girl, Velvet Green, Jack-in-the-Green (both smacking more of Lincoln green) and Pibroch (Cap in Hand).



Αll instrumentation arranged to match: the most obvious casualty for my money is Martin Barre's potentially excellent electric guitar, whose musical space comes the second piano and synthesiser of longtime band cohort David Palmer.

The single, Ring Out, Solstice Bells, is unlikely to drum up any extra support for the album, and it will no doubt be down to the current live shows for Anderson to remind us that the grimy rocker's overcoat is not in permanent mothballs. If they live up to expectations, the band may buy yet more time to recapture their peak on record.

C.S.

PAUL BRETT EARTH BIRTH PFC 001

Earth Birth is described as being the first 12 string guitar suite, and it's in that description that part of its failure is hidden. The fact that it's 1977 and someone can still claim a musical first of that kind might just mean the reason it's not been done before is not because it hasn't been considered - but that it has. and rejected because it wouldn't work. If that is the case, then I'm inclined to agree. Paul Brett is an accomplished guitar player, but by no yardstick can he be considered either amazing or one of the greats. The 12 string guitar in itself always works better as a rhythm instrument - no doubt a 'myth' that was in the player's mind when he first conceived an idea. But having listened to the results I would still maintain the 12 string is not suitable for this kind of approach.

Paul Brett has written a collection of acoustic guitar pieces with a classical ambience to them, added some pleasant use of the harmonics, and thrown in a hint of near rag-time picking in one track and called it a suite. I don't feel it works. The playing in places is decidedly dicky, notes only just caught in time; a second error appears to be the decision not to use one of the 12 strings most explorable qualities — sustain.

And thirdly the 'tunes' themselves are not sufficiently memorable to create any impression of importance. An album making a claim like this one should have made me sit up straight and listen - for that must be it's raison d'etre. Nobody would have been interested in the Wright Brothers if the bloody thing hadn't got off the ground. But there you have it. I might have turned up on a windy day, leaving Paul Brett to rocket into stardom unhindered by me. Still, as an idea its great - but somehow it just doesn't work in reality.

T.V.S.



SHORT CUTS

CHARLIE NO SECOND CHANCE POLYDOR SUPER 2383 422

'No Second Chance" is well produced, competently played and attractively packaged. It is quite unbearably tedious. Back in the late sixties there were a lot of small club-type bands around who probably couldn't play their instruments as well as Charlie can - forgotten bands like Hard Meat, Little Free Rock, Junior's Eyes, and so on. What these bands had that Charlie don't have was a sense of adventure, a sense that they had a real identity separate from that of any other band, and they seemed largely indifferent to the wishes of record companies. 'No Second Chance' was recorded at one of the most modern and best-equipped studios in London - 24-track. of course. Charlie have this big

record deal with loads of publicity surrounding its release, whilst real bands making real music (e.g. National Health) can't get the support of anyone but their fans. It's a mean old world, folks.

THE BABYS **CHRYSALIS CHR 1129**

At a time when red herrings like punk rock and super-hype bands are moving in and out of the picture at high speed, it is refreshing to encounter an honest metal riff band that are trying to have a go without the bullshit and are being well supported by Chrysalis. The Babys it is debatable whether the name will create the appropriate image - are John Waite, Walt Stocker, Mike Corby and Tony Brock (Waite handles nearly all lead vocals) and they are produced by Brian Christian and reputable Canadian Bob Ezria. Despite the band all sharing a fairly nondescript background, there is enough evidence here to suggest that one more album or two will turn out a mean outfit. Here we have a lot of stuff often found on such debut albums plenty of echo, a bald sound to the drums and plenty of vocals: once the sound gets stripped down, if they don't tire first, and if they can dig up a few more of their own ideas, they will be going places.

EMMYLOU HARRIS LUXURY LINER WARNER K56334

Worthy, no doubt, of more extensive examination, but most would agree that Emmylou's breakthrough has already taken place, in style to boot. Having already succeeded in bringing essentially country music through to a much wider audience, Luxury Liner emphasises her stance by mixing both the slow and melodic with meatier tracks. Probably her best vet, and it's all down to whether the exposure already afforded her has given you a taste for Dobros, pedal steels, and countrified harmonicas, with lyrics in the Joni Mitchell pastures.

LEON REDBONE DOUBLE TIME WARNER BS 2971

A quick glance at the back cover and I thought it was Groucho revival time, and a quick listen to the start of the first track and I thought one of the Wurzels was sick. Seriously, once you come to terms with the mumbling and the Mickey Mouse big band backing, Mr. Redbone grows on you. Although a lot of the interest in him derives from his permanently low profile, Double Time shows a surprising number of styles through Twenties jazz, Chris Barber style, and seminal blues. After a few more listens one finds that Mr. Redbone has expertly bridged a few musical gaps without getting immersed in any cross bearing. A release which stands out but it may take some listening.

BUCK CLAYTON AND JIMMY WITHERSPOON LIVE IN PARIS **VOGUE VJD 527**

Jazz has always deserved more attention than as a select and snobbish play area, and while Clayton and Witherspoon won't be too well known by rock fans, Live in Paris could pull in a few strings. Protracted soloing is a feature of this double set, though, and this may put off those otherwise prepared to investigate some roots in blowin' iazz.

BIG WHA-KOO ABCL 5208

The surf, desert and cactus on the cover is nothing to do with anything, and the album is thoroughly nondescript. Seven little pics, so presumably seven musicians. Sometimes they sing gently, otherwise there are instrumentals with strings, and just occasionally an electric guitar cuts through. Just to warn off the fringe impulse buvers.

MICHAEL MURPHEY **FLOWING FREE FOREVER**

Can't categorise this one at all it's got me completely beat if you'll pardon the phrase. It's a collection of wellstructured songs that span a gap between pop on the one side and country on the other with fair sized portions of strings rubbing shoulders with gutsy guitars, mandolins (but not gutsy ones), bluesy harmonica, west coast vocals and all sorts of other apparent musical paradoxes. Overall it works like it, but that doesn't mean it'll be sitting on the platter more than three times a year.

OREGON/ELVIN JONES TOGETHER **VANGUARD VSD 79377**

This is an album which manages to avoid the current twin pitfalls the dreary jazz tunelessness of the "avantgarde" and the uniformity of "funk". The understatement and relaxation of the music adds to its drama, rather than detrac-

alloum reviews

ting from it. A typical example is the percussion duet between Jones and Collin Walcott on "Driven Omens", and even on which track follows ("Teeth"), the wild flailings of Paul McCandless's horn and Glen Moore's bass are carefully underpinned by Jones. Also noteworthy is Ralph Towner's 12-string guitar contribution to "Brujo" which, combined with Walcott's tabla, lends it a disticntly exotic air. His piano playing on side one, whilst not greatly original, provides ex-cellent support. All credit, however, to Elvin for continuing to work with younger musicians whilst not selling out to their mainstream fads - and also for pursuing brilliantly those Indo-Jazz fusions which I for one never particularly favoured before now.

HAROLD MELVIN AND THE BLUE NOTES — REACHING FOR THE WORLD ABC L5204

Picture the scene. Tina's been going out with Barry for six weeks now, so it must be serious. He calls round at eight o'clock in the Viva and they drive to The Waggoners, a new pub in the shopping precinct, where they meet their friends, and Tina shows Diane her new shoes. She smiles at Barry, but he doesn't seem to notice. Later they go to the disco, and Barry spends ages talking to a girl Tina doesn't know. In the end she leaves in tears and takes a taxi home. She runs up to her room and puts on Harold Melvin listens to it in the dark. Ah well.

she thinks, wiping her eyes with the back of her hand, I'm sure that Ron fancies me. . .

FOGHAT NIGHT SHIFT BEARSVILLE K55511

There's no doubt about it; Bearsville are an enterprising label as this little known band (here) do something to prove. In the States, where gaining popularity is not the Herculean labour it is here, their last album Fool for the City went platinum, and Night Shift quite deserves to consolidate that position. This time round Dan Hartman produces, and his previous existence as Edgar Winter's sideman suggests that his aspirations are much the same as theirs. Night Shift is good steamin' old fashioned rock but will it break over here. Unfortunately, I doubt it.

OSCAR PETERSON VOCAL STYLING VERVE SPECIAL 2352169

A readily forgettable round-up of tracks featuring OP's not so well known voice, and one bound to crop up sooner or later since his recent popularisation as jazz pianist number one. However, he has never taken his singing too seriously, and the album will only appeal to diehard collectors. Although the sleeve gives no assistance, I am sure his piano plays no part in the nondescript jazz, and it would be a shame if the grandiose title conned any extra purchases outside the mentioned area. No-one is blaming Polydor for putting it out; just watch out and wait for the real thing.

NEXT MONTH

Full review of the new Pink Floyd masterpiece plus Streetwalkers, Fleetwood Mac

BANDIT ARISTA ARTY 148

The exhaustive and well-written biog that came with this album reminds us that James Litherland was an original member of Colosseum, Cliff White in the excellent but unrecognized Home, and Jim Diamond the lead singer in Black Cat Bone, a 60's blues band. An illustrious ancestry does not necessarily produce classy bands, however. What sparks of originality the members of Bandit may once have possessed have been utterly extinguished. The songs are products of the "hard rock" sausage machine, with titles like Dance When You Boogie" and "Rocking My Soul Out". The whole miserable business has been gone through a million times and will be gone through a million times more. Can this really be the same James Litherland who sang and played on "Walking in the Park"? The thought is almost too dreadful to contemplate.

SCROUNGER SNAP ANCHOR ANCL2021

By the time you read this, Scrounger may well have a single riding high in the charts. The two boys, aged 19 and 20, write songs with the object that they will appeal to the singlesbuying market. If ever there was an album that stank of record company boardrooms, this is it — "product", in the grossest sense of the word. Trite tunes, lyrics that were probably written on a crowded tube train somewhere between St. John's Wood and Oxford Circus . . . well, you know the kind of thing. The lads don't always sing in tune, mind you, but then neither does poor old Frank Sinatra, and he's still packing them in.

THE SHADOWS 20 GOLDEN GREATS EMI EMTV3

This group scores high by my reckoning on this, their first outing on wax. They don't have a singer, but boy! with the "singing" guitar of young Hank Marvin, they could really go places. Duane Eddy is still tops in my book, though, even if he doesn't do steps like they do. The numbers here include "Apache", "Man of Mystery", "Foot Tapper" and "Wonderful Land" (come on you boffins at EMI - how about a single?). Seriously though, this really is a splendid L.P. and if you can persuade dad to come up with the 30 bob, pop round to your local record shop and get one. You never know, if it stops you listening to that terrible Lonnie Donegan, mum and dad might actually get to like the Shadows!



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The Birotron

In the early months of 1974 a penniless young American keyboard player called David Biro, needed an instrument which reproduced accurately, a variety of sounds not easily available to the contemporary musician.

He plagued the life out of all the East Coast music stores, but was unable to find anything to suit his exacting requirements, so being both broke and devious he returned home to sleep on it.

Three months later he awoke, shouted 'Eureka' or something similar, and proceeded to build, with gaffa tape, goodwill, and his mother's savings, the first 'BIRO RON'. Although having great faith in the instrument, Dave was anxious to get the opinion of a major keyboard artist, and this opportunity presented itself when Rick Wakeman was scheduled to give a concert in David's home town.

Having been given the elbow by various shortsighted managements in the immediate past, Dave decided to gatecrash the backstage area and set up his 'BIRO RON' where Rick could not fail to fall over it.

Although he was summarily ejected twice by diligent security guards, he finally succeeded in smuggling the instrument in. He then somehow managed to get a message through, and Rick, always interested in new ideas agreed to play the 'BIRO RON'

Rick was so knocked out with the instrument that he suggested that Dave Biro should fly to the U.K. to meet some associates who could fully investigate the possibilities of developing and marketing a commercial version of the 'BIRO RON'.

After considerable research and development the 'BIRO RON' is now available, and is quite —The best of its type in the world.

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- Small Physical Size and comparatively Light Weight, make the instrument easily portable although it is of extremely robust design.
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INSTRUMENTAL

NEW KUSTOM AMPS

An all-new line of amplifiers and PA systems from Kustom received their first airing at the recent Frankfurt Fair. The electronics and appearance of the new Kustom products have been completely re-engineered, according to Charlie Roy, general manager of Kustom's music operations, to offer what they reckon are currently the most popular features in live music amplification.

Four new bass amplifiers, including two self-contained models, range in power from 35 to 300 watts RMS. The piggyback amps are offered with a variety of 15in speaker systems, two of which use Electro-Voice's premium "SRO" speakers. Most Kustom bass amplifiers include a "voicing" circuit which produces a "funky" sound.

Seven lead amplifiers are included in the line and five are self-contained systems. Ranging in power from 35 to 300 watts, these models are available with a variety of 12 and 15in speakers. Several lead systems also utilize the voicing circuitry including a special 130-watt steel guitar amplifier which is available with a premium 15in Altec speaker.

The top-of-the-line Kustom IV bass and IV lead amplifiers are

available with optional 5-band graphic equalizers. The bass EQ boosts or cuts frequencies between 75 and 600 Hz, while the lead amp equalizer operates between 125 and 8,000Hz.

Power units and mixers offered in Kustom's new public address systems are interchangeable with six different speaker columns. Many special PA features are available, including a "briefcase" power unit; a small, un-powered, rackmountable mixer; and a 200watt, bi-amplified, rackmountable power unit.

Electronic modifications in these power units and mixers have reduced background "hum" encountered in many PA systems. Four power units are available in Kustom's new PA line. Their four- and six-channel configurations can be expanded by using the un-powered, Kustom V six-channel mixer for submixing, providing control for up to 12 on-stage microphones.

Design features of Kustom's extensive line of concert reinforcement components include rack-mountable mixers and power amplifiers which enable the engineer to mix and amplify all program material and perform all adjustments from a single station.

HH SERVICE DEPT

H have opened a new department to cater exclusively for the musician in need of immediate service. Service Manager Richard Gleaves will head a service team designed to sort out most equipment problems on the spot. Under this new system all items under guarantee will be repaired at no cost with a nominal amount

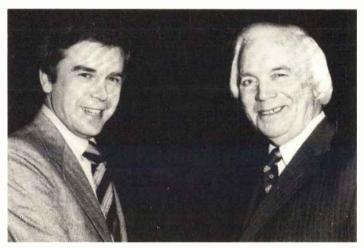
being levied for work outside the guarantee period.

HH would prefer customers to telephone before coming, as advice can often save a journey; they stress however that practical repair assistance is supplemented by an advisory service that should prove helpful to HH users.

NORLIN APPOINTMENTS

Several new appointments have taken place within the Norlin organisation to herald the start of the new year. Ray Dunk, previously Sales and Marketing Manager for Chrysalis, has now achieved the same position with Norlin's keyboard division, spearheading the 'Special Projects' section. Managing Director Ivan Steele has also announced the appointment of Ted Wasdell to the new position

of Sales Development Director.
While Ray Dunk is now to handle the day to day responsibilities for sales and marketing, Ted Wasdell's appointment is regarded as part of a long term growth programme. "He will help to develop specific market opportunities for the benefit of our Lowrey dealers, and with certain markets for the Musical Insturment Division of the Company", said Mr. Steele.



Ted Wasdell (right) being congratulated by Ivan Steele.

GUILD BRING OUT SOLID BASS

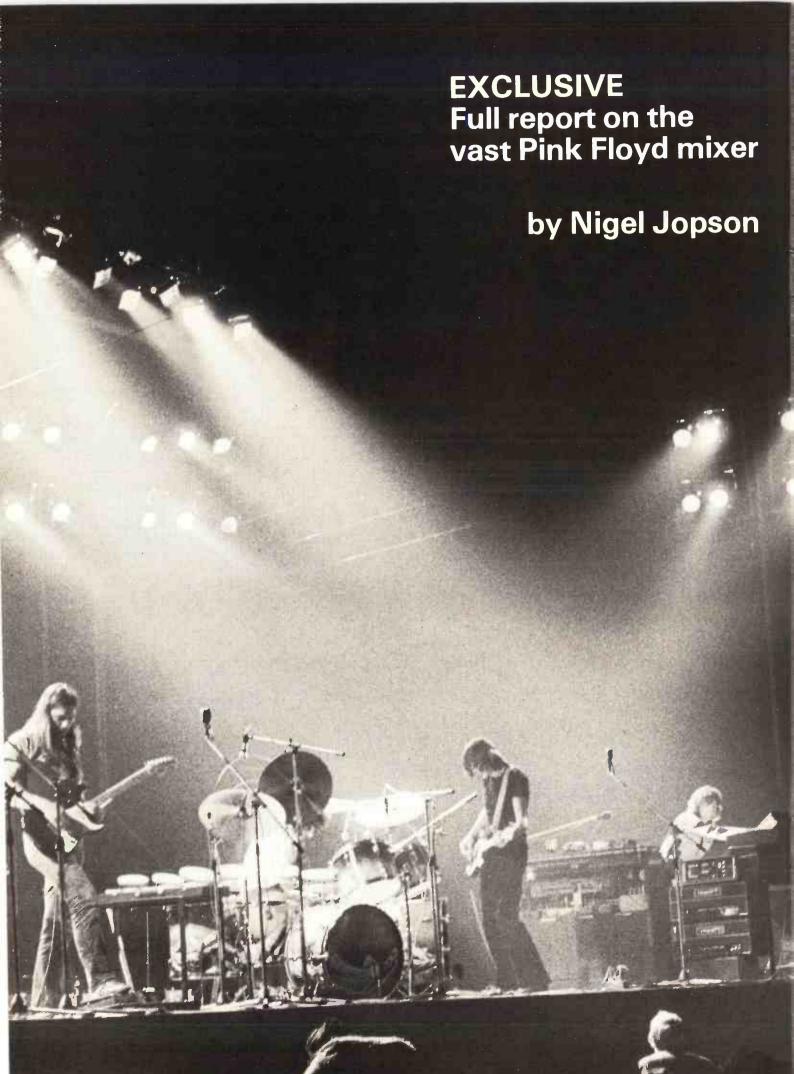
Guild have just introduced the first in a new line of solids, the B-301 bass. Besides a shape never before seen in ghe Guild line-up, the B-301 has the wide frets and curved fingerboard that rock bassists are using. A new pick up for greater sustain and a new bridgetailpiece that allows extensive adjustments are among the features. The B-301 has Schaller M-4 bass machines, and is equipped with a single jet-black Guild bass pick-up having new wiring and coil placement. The instrument has a white-edged black laminated guardplate. Literature is available from Guild Guitars, 225 West Grand Street, Elizabeth, New Jersey 07202.



SUCCESS FOR HENRIT'S DRUMSTORE

Henrit's Drumstore, a new and highly professional percussion centre at 112-114 Wardour Street, reported near-record turnover figures just a few weeks after the initial opening. Managed by John Vernon in partnership with exargent drummer Bob Henrit, the shop aims to model its sales policy along American retail

lines; "we aim to offer a very professional service, but one that is personalised at the same time", John explained. Facilities of Henrit's Drumstore include a full demonstration area and bar downstairs; kits on franchise are Gretsch and Slingerland, while all other major brands are in permanent stock.



Dave Gilmour, Roger Waters, Rick Wright, Nick Mason: individually, and collectively as the Pink Floyd, these gentlemen manage to remain almost totally inaccessible socially, as far as interviews, gossip columns and newsworthiness" are concerned. Despite, but chiefly because of this, they remain amongst the largest of all "name bands" and, moreover, the name of their group has taken on near-mystical proportions, and has become a "name to conjure with". This is a very wordy way of saying that the group have put themselves into a position where they live or die on the sound of their music alone, and the measure of their success is that the words The Floyd" have come to be synonymous with sounds that are very, very good indeed.

An interesting point about the Pink Floyd is that, rather than creating their music in the studio, and then attempting to recreate an album's sound live, most of the initial musical ideas are pioneered on the road, and many pieces are first played in their entirety to live audiences. This means that the group has had to evolve a very complex but tremendously flexible sound system to realize their creative ideas, rather than one designed merely to reproduce them. This means that journalists have had to rationalize their developments in music by reference to the Floyd's "ability to play the mixing board like it was a fifth instrument". Whether or not anyone can actually grasp all the potential inherent in the Pink Floyd's total array of equipment, involving literally thousands of metres of wire and millions of connections, is open to question, but this article is an attempt to describe how the people that work for the group and the people who build their equipment manage to translate the Floyd's requirements for musical development into physical reality.

Mixing consoles can be played like instruments, but the fact remains that, like any other piece of electronic equipment, you only get out what you put in: in other words, for a mixing console to do a specific task, it must have been initially designed with a similar capability in mind. This article centres around the Floyd's mixer and associated electronics, as this is the nerve centre of the whole sound system, and also happens to be the newest piece of equipment that the group have added to their sound system. Earlier mixers hadn't quite had the technological sophistication of construction to match their ambitious formats, which had consequently caused a certain amount of operational hassles say no more!

The Pink Floyd had set up a company known as Britannia Row Leasing (Audio) Ltd., which hires out sections of the group's equipment when they're not using it themselves, and in early 1976 this company had ordered two Monitor mixing consoles from Midas Amplification, which were subsequently used extensively with various groups, including Queen, who used the Floyd P.A. for their Hyde Park gig. Britannia Row were well pleased with these and other Midas consoles, which include a 28 in 8 out main desk and a special 16 channel extension unit: accordingly, the Pink Floyd decided to approach Midas concerning the construction of a larger

mixer for their own use. Midas told me that the Floyd are now their largest single customer, exceeding even the mighty Roy Clair, who runs the large "Clair Brothers" American P.A. hire company.

The basis for the present Pink Floyd mixer was laid when Brian Humphries (the Floyd's engineer in the studio and live) told Robbie (who has general responsibility for the group's equipment) what facilities he wanted on the mixer. Robbie then went to see Geoff Byers, the design "brains" behind all the excellent Midas consoles, and together they worked out a proposed specification for the Floyd's mixer. Midas received a request for a quotation last August, and it took a month for a full specification of the console to be worked out, and for Rick Kilminster to make drawings (two of which are reproduced with this article) of the intended result. The group admired the impressive half-scale drawings (half the size of the actual console), admired the similarly impressive specifications and gave the go ahead to build the desk. Before you read about what the finished item can do for Pink Floyd, try swallowing the following facts about what it actually took to make the mixer.

Design

The design of the console occupied two mechanical designers and two printed circuit board designers for a period in excess of 2,000 man hours, considerably more time being spent on the production of the desk. Three outside sub-contractors were kept busy for two months, building the basic electronic and mechanical parts of this amazing machine, and a full six weeks were spent in testing and interwiring the parts. Geoff kindly spent a good few minutes with his desk calculator, working out a tally of all the controls on the mixer: hopefully this will give you some idea of why such items of equipment are so hard to construct, and why this particular one cost so much money - the electronics behind those front panels obviously contain even more components, and are even more complex to design and build!

For your amazement, the Floyd's mixer contains no less than: 1,182 illuminated push switches, 447 rotary controls, 240 thumbwheel switches, 484 toggle switches, 67 rotary stud switches, 32 L.E.D. (Light Efficient Diode) meter columns comprising 1,200 individual L.E.D. indicators for the separate channels, 54 mono Panny & Giles conductive plastic faders, 11 stereo P & G faders, and 5 Quad P & G faders — that's a total of 70 faders in all. As a final mind-boggler, the desk measures about 12 feet in length when the three separate sections are placed next to each other.

Two of the console's three sections each contain 20 input channels, 4 effects groups, and four stereo sub-groups mixing into a stereo master output. The third unit contains four quadaphonic inputs, six quadraphonic sub-groups, plus quadraphonic and stereo master output groups. We only had room to fit two of these sections on the Beat Instrumental double page, so the left hand channel input



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and central master units are shown alone, the right hand channel input section being a mirror image of the one illustrated.

Robbie explained to me that the console was designed in three sections, not only for ease of transportation, but also with considerations of flexibility and future Brit. Row hiring jobs in mind. Previously, if a group wanted to hire some of the Floyd's P.A., it was often necessary to haul the complete Quad board out, whether or not all its facilities were required. Now it will be possible to operate either of the 20 input consoles independently, the Quadro console being operational only when linked via the 36 way multicore connectors to one or both of the 20 input consoles.

With the three sections all hooked up together, the following input/output facilities are provided: 40 mic/line input channels, with access to 8 effects send/return groups, which may be routed directly, or via 8 stereo sub-groups and/or 6 quadraphonic sub-groups, to either/both stereo and quadraphonic master output groups. In the numerical terminology that seems to have become standard slang in the mixing trade, that would be 40 into 8/6 into 2/4!

Before I proceed any further, a word about those four outputs might not go amiss: as Mick, Robbie's partner, pointed out, "Quadraphonic is the general public's term, not ours." Although it's hard to think



of another word to describe it, the Floyd's sound system does not follow the pattern that, in domestic Hi-Fi systems, is generally understood by "Quadraphonic". In Hi-Fi Quad, there are speakers positioned at left front, right front, right back and left back the rear loudspeakers being mirrorimage in position to the pair which would normally be used for stereo reproduction. In Floydophonic sound, there are speakers at left front and right front (these being the main stereo P.A. components), and smaller loudspeaker arrays in central positions at left and right hand sides, and to the rear. To use a domestic layout for live performance in large auditoriums would involve tremendous physical problems in arranging the rear stacks of equal size and power as the front ones, and would be impossible to mix as per recorded Quad because there could be a time delay of up to half a second between front and rear?

Continued on page 55







Frequency Response: 26 Hz - 20 KHz ± 2 db @ + 8 dBM output Tottal Harmonic Distortion:

0.1% THD 20 Hz - 10 KHz @ + 8 dBM output

Equivalent Input Noise:

120 dBV @ 150 ohms (1mV)

Crosstalk:

-50 dB @ 1KHz

Inputs:

Low impedance unbalanced microphone 600 ohm

(cannon type)

High impedance unbalanced line 50 K ohm

(phone plug)

Input Attenuator:

Continuously variable from 0 dB to -40 dB

operational on either mic or line inputs
Total gain of mixer @ 0 dB attenuator=66 dB

Outputs:

Left and right Main and monitor

Unbalanced 2 Kohm, 3v RMS Balanced 600 ohms +12 dBM, short circuit

protected

Outputs, effects and reverb:

Unbalanced 10 Kohms, 2v RMS

Equalization:

Infinitely variable boost and cut ±15 dB @ 50Hz and 5 KHz each channel, master ±15 dB @ 50

Hz, 800 Hz and 5 KHz Effects:

Separate reverb and effects w/built in reverb

unit Cue System: Stereo output=2v @ 10 Kohms The advanced features found in the 800S make it a completely professional mixer unmatched in value by anything in its price range . . . and that goes for all Peavey products. See the world's hottest range of Combos, Amps, Cabs, PAs, Mixers, Slave Boosters, Bins, Vocal Projectors, Horns, Tweeter Banks, Mikes,

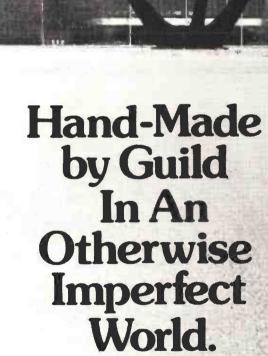
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Floydophonic sound is used mainly during quiet musical passages, for prerecorded tapes and for special effects. When a Quad joystick (pans the sound around four places) is in the upper and forward position, the sound is fed equally to the left and right stereo P.A. stacks; when the joystick is moved over laterally to right or left, the sound goes to right or left "Quad stations"; when the joystick is in the lower and rear position, the sound goes directly to the rear "Quad station". Any movement between these positions will result in a movement of sound between the relevant speaker stacks - the origin of the Floyd's original, but rather confusing, term for a Quad joystick - the "Azimuth Coordinator"!

The Line drawings of the Floyd's Midas mixer are plan views; the two horizontal lines represent changes in vertical plane: the faders on the lower section are flat, and the input modules and routing modules on the two upper sections are angled in two different planes (see photographs). Leaving out the upper banks of routing push-switches for the moment. concentrate on the centre control sections of the input modules. There are 40 of these, and they contain all the controls for the input channels, with the exception of the faders and routing to stereo and quad sub-groups and main outputs. Starting at the top of the module, there's an input sensitivity rotary control, giving maximum gains of 80 dB for microphones or 50 dB for line inputs. Mic or Line ("Line being from an instrument via a Direct Inject box or from a piece of electronic equipment) selection is made by the left hand switch in the bank of three situated directly below the sensitivity control; the middle of these three provides Phantom Power (a 48 volt DC supply down to the two mic cable wires to operate a condenser microphone), and the right hand switch cuts in a resistive network to reduce the gain on that channel input by 20 dB (a coarse reduction in volume to avoid overloading the channel amplifier).

Toggle

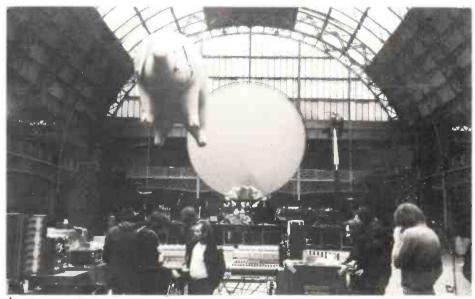
The next section on the module consists of the channel equalisation facilities: treble control offering + or - 16 dB's (boost or cut) at frequencies of 6, 10 or 15k ("k" = times1000) Hz (cycles per second), the frequencies being selected by a miniature toggle switch; middle control offering a similar amount of lift or cut at frequencies of 500, 800Hz, 1.5, 2.5, 3.5 or 5kHz, selected by a rotary stud switch; bass control similar in operation to treble, but with selectable frequencies of 40, 80 or 160Hz. Immediately to the left and below the bass control is another miniature toggle switch; this brings into operation a High-Pass filter (attenuates low frequencies), the initiation of the 16 dB per octave attenuating slope being selectable for either 60Hz, 120Hz, or not at all. These



A Right hand input channel console, in position during Olympia rehearsals.



▲ Central Quadro master console; VU meters are temporary fixtures . . .



Otari 8-track, flight cases, and the droopy ears belong to Pig

hammeld made

Channel and Group schedule rehearsals at Olympia for Pink Floyd as per

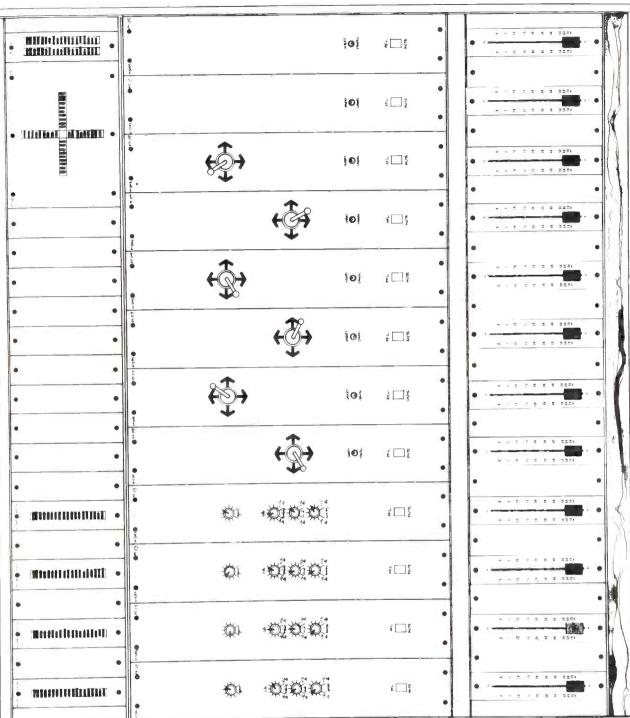
Channel: 1/Bass Drum Stage Left. 2/B. Drum Stg. R. 3/Snare. 4/Hi Hat. 5/Floor Tom. 6/Fir. Tom. 7/Front Tom. 8/Front Tom. 9/Overhead Stg. L. 10/Oh. Stg. R. 11/Spare. 12/Rhythm. Roger. 13/Vox Dave. 18/Sax. 19/Vox Snowy. 20/Spare. Effects Groups: 1/Roland Space Echo. 2/Gelf Phaser. 3/Revox. 4/Spare. Stereo Sub-Groups: 1/Drums. 2/Bass and Rhythm. 3/Sax and Vox. 4/Vox. 15/Vox Rick (at Rhodes), 16/Bass, 17/Vox (vocal) Roger, 14/Vox Rick (at Hammond)

Leslie 28/Keys — Yahama Bot. 29/Rhodes Piano 31/Piano DI. 32/Guitar Snowy. 33/Acoustic Guitar Snowy. 34/Acoustic Guitar Roger. 35/ and 36/Digital Delay Line returns. 37/Spare. 38/Cassette left. 39/Cassette right, 40/Spare.

Effects Groups: 5/Master Room Reverb.
6/D.D.L. 2 return. 7/D.D.L.1 return.
8/Spare. Leslie Direct Inject left. 30/Rhodes - DI right. Inject Yamaha cabinet top Channel: 21/Lead Guitar. 22/Guitar Leslie cabinet top. 23/Guitar — Le Direct bottom. 24/Keyboards Direct 25/Keys — Leslie top. 26/Keys Bot. 27/Keys — Yamaha cabi Direct I31/Piano

6/Dave Guitar. 7/Keys. 8/Acoustic Guitar.





Quadro console containing Quad sub-groups, Quad Aux. inputs, Quad and Stereo master outputs.

Left hand channel input section; the right hand section is a mirror image The allocation of these channels and groups is explained above allocation of these channels and groups is explained above

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◆ 'SYNTEX' synthesizer

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KEYBOARD SURVEY

Only ten years ago keyboard purists sneered at the increasing popularity of a number of technical developments pertaining to the black and white ivories. These same people are now busy acquiring batteries of keyboards to surround themselves with on stage. Keyboards, more than any other individual aspect of rock music, have benefited from technical and mechanical progress, and this month's survey takes a look at the products on offer from some of the key manufacturers and

CBL Musical Instruments is a retailer operating from 163 High Steet, Staines, in Middlesex. Where they differ from the average music shop is in the large number of accordians stocked. Brand names for these include Dallape, Sisme, Excelsior, Hastervox, Fratelli, etc.

Other keyboards instruments at CBL are the Elex electronic pianos: the K2 has a harpsichord and string ensemble facility, whilst the K3 has organ, harpsichord and percussion effects. The Elex dynamic piano looks rather like a small upright model. but incorporates such features harpsichord as Hawaiian guitar, vibrato and volume blend.

The Armon range of organs and pianos is made in Italy and can be found at CBL. All feature comprehensive effects and, in some cases, built-in rhythm.

CBS ARBITER

The Rhodes piano is a basic in the armoury of any keyboard player. The two basic models are the Stage and the Suitcase models'. The Stage stands on 4 detachable legs and has a sustain pedal which operates on a similar fashion to the sustain on an acoustic piano. A stereo pre-amp is available to fit into the Stage piano for use with the two Satellite speakers which give out 100 watts rms each. The stereo effect is produced by reproducing the peak of a note through one speaker and fading it out through the other.

The Suitcase has the same

keyboard as the Stage but has a separate speaker and amp enclosure with a 190 watts peak output via 4×12 " Fender speakers, two of Fender speakers, two of which face forward, and two towards the rear. Thus the stereo sound is bounced from front to rear. Each type is available either with 73 or 88 notes and there is also a piano bass with 32 notes, which is the bottom 2½ octaves of a standard piano. Because the sound is produced mechanically by means of a hammer hitting a tine, tone and volume variations can be produced.

HAMMOND

Hammond are not the most modest of manufacturers, but then no-one would expect them to be, since their keyboards have established a standard by which all others are measured. The X-5 is a portable model with two 44-note manuals and a one-octave pedalboard. As well as a large number of drawbars, it includes percussion, pre-sets, pedal sustain, built-in Hammond reverb vibrato and speed control for the Leslie cabinet which you would probably use with it. Recommended for the X-5 are the 760, 330, 820 and 860 Leslies.

Readers may have come across the term "Auto-vari 64" in con-nection with Hammond, without knowing what it was; in fact, it is a sophisticated rhythm unit which "electronically expands 16 basic rhythm patterns to at least 64 continuously changing variations." The unit changes the character of each selected rhythm at pre-selected intervals, thus making the sound more like that of a real drummer.

Moving up-range we come to the Super Dolphin Premier De-Luxe. Its basic features are similar to the X-5 but there are many extras, the most f which is simulator". interesting of "polyphonic s provides the player with the ability to use realistic cello, brass, violin, accordian and piano sounds, and also to create a synthesizer sound, this being controlled from the "synbeing controlled from the thamute" button. The Dolphin's Leslie speaker is built-in, and can be set at either of two speeds.

The Aurora and the Monarch add further effects to the armoury of the keyboard musician. An peggiator", located between located between the two manuals of the Aurora, introduces automatic arpeggios or

chromatic runs, simply by means of sliding a finger over its surface. "Follow-the-Player" rhythms mean that snare drum and brush effects can be added to the lower keyboard, and bass drum and cymbal to the pedals.

The Rolls Royce, however, is the 2300 Series. Model 2307 has just about everything, including Touch Tempo – a recent development which automatically programmes a rhythm which you can tap out your-

WOODS OF BOLTON

The Welson range of Italian-made organs and other keyboards is handled exclusively in this country by Woods of Bolton, The Condor T portable organ is meant for home use or for small bands. There is a divided keyboard for playing manual bass, together with an automatic rhythm unit that features chord and bass. The keyboard spans 4 octaves. The Syntex synthesizer was covered in Beat's recent synthesizer review: it has three oscillators, pre-set buttons, a filter and a random music button. The noise generator produces both white and "pink" noise.

The President Standard has a larger keyboard than your average organ. The percussion section goes from 16' down to 13/5' and there are six drawbars, each completely variable. Other features are glissando and arpeggio, plus four sustain tabs on the upper manual. Each manual has 4 octaves-worth of keys.

A portable version of this is the Personal Duo organ.

The two Welson string machines are the Symphony Concert Stereo and the Knock Out, whilst the electric pianist is catered for by means of the rather tasty Vedette.

FARFISA

The Farfisa Coronet is a four-channel organ with 2 4-octave manuals and pedalboard. The upper manual has 9 flute registers, 9 percussion buttons, chimes register, Leslie on/off and 6 pre-sets. There are 3 flute footages, vibes, marimba and cancel. There is also a synthesis unit, the "Poli" section having five different registers and the mono having 9. An envelope filter operates wah-wah and sliding attack. There is a coupler between upper and lower manuals in the "Poli" section, between the upper manual and the pedalboard in the mono section and between both manuals in the "Poli" section. The lower manual of the Coronet has 7 registers and an "Easychord" facility

Another keyboard from Farfisa is Syntorchestra. It is both polyphonic and monophonic, the poly section having four pre-set tabs and the mono having 9. Other controls are for brilliance, vibrato, envelope and portamento. There is an expression pedal with 2 photoelectric cells and this simultaneously controls the ployphonic monophonic sections even when they are separated.

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ROSE MORRIS

Rose Morris handle the GEM series of keyboards, as well as the Korg synthesizers, which are also obtainable from Hohner. The GEM Synth-Dakota incorporates a piano synthesizer panel with a fully portable two-manual organ. Eight tabs of various kinds are provided for the upper manual and four for the lower. As well as the usual reverb, vibrato and percussion, the instrument includes as standard a 2-octave pedalboard. The synthesizer section has sliders for frequency, amplitude, response and intensity, plus buttons for on/off repeat, filters, modulators and waveform shapes.

Other GEMs are the Caravan and the Jumbo 61. The Caravan has a 4octave keyboard and tabs are for vibrato, bass, brass, reeds, flute and strings. The Jumbo 61 is a 5-octave electronic organ with its own amplifier and speaker and a somewhat larger array of facilities than the Caravan; prices for these GEM keyboards are remarkably low, the Caravan clocking in at just £160.

The Korg models handled by Rose Morris are the 700, 700S, 800 Korg the Pre-Set, and the Polyphonic.

HOHNER

The best known of the Hohner keyboards is undoubtedly their clavinet D6, which produces that harsh, deep, funky sound so favoured by such musicians as Stevie Wonder. It can be made to sound like a harpsichord, guitar, harp, spinet, etc. The Hohner Pianet is also extremely popular with musicians in every field, with a full 15-octave keyboard. The combo pianet is the add-on version; the Keyboard Bass 2 covers 2 1/2 octaves from the E below middle C to A There are also 3 pianos — the K1, K2 and K4.

The Korg range of Japanese made synthesizers is distributed by Hohner. The 700S has a ringmodulator for sound effects, as well as the expected pre-set tabs for reproducing the sound both of conventional and electronic in-struments. The 800 has double oscillator banks and two sets of tuning controls. Another synthesizer worth mentioning is the Pre-set, which incorporates 15 instrument voices, 9 percussion voices and 5 other sounds. Rose Morris too distribute the Korg range.

KEYNOTE

The Keynote Consort was reviewed in Beat a couple of months ago and seems to be arousing some interest amongst musicians; it is a 2-manual organ with flute footages of 16, 8, 51/3, 21/3 and 2 feet on the upper manual and 8, 4, 23 and 2 feet on the lower. There is also a harmonic filter control which adds further to the harmonic dimensions of the drawbars on each manual. The special effects are percussion, vibrato and reverb, the percussion having a facility for variable decay.

There is an expression pedal and a pedalboard. A big advantage of the Consort is its portability. It is also reasonably priced in terms of the facilities it offers.

A new model called the Cub is now available with a built-in phase

ELKA ORLA

One of the newest models from Elka is their Preludio 22/L, which has an alarmingly wide series of features. To begin with there are two manuals with 44 keys each, and voices of flute, oboe, trumpet, string, horn and cello - at various footages. There is a pedalboard covering one octave. Other features are the slidercontrolled reverb, Leslie, and a 25 watts-per-channel amplifier. The rhythm unit provides a choice of 16 rhythms with memory incorporated.

The X-55 is perhaps better known, and has all the features one might expect to find on a more expensive model. model. The two Elka string-machines are the 610 and the 490, which we covered recently in our survey of synthesizers. Also of interest are the Capriccio 33/0LS and the Notturno 66/0LS - the latter of which is recommended particularly for professional players. It includes a 50 watt amplifier, plus sustain, vibrato, reverb, brilliance and Leslie effects. Lastly, the Fantasy Duo P is a smaller model with two 3-octave keyboards and a total of 12 voices. There are 6 rhythms on the rhythm unit and also а one-octave pedalboard

ALAN HAVEN

Alan is the distributor for the Crumar range of keyboards; his current seller is the Haven 61, a comprehensive 2-manual organ with 5 octaves on the upper and 4 on the lower. Four piano-type effects are featured on both manuals, along with a total of 15 flute harmonics, which are controllable by drawbars, and four footages of independent percussion, featuring the "tone wheel" transient effect. Each function of the organ has an independent volume control drawbar, and the front panel has lighting push-button controls. The 61 comes complete with an 18-note pedalboard operating on 3 footages (16', 8' and 51/31). If required, the organ may also incorporate the Nerve Centre 15 rhythm unit.

Other Crumar models are the Organizer and the Multiman, each of which provides the player with a variety of keyboard and orchestral

effects.

HORNBY SKEWES

A large number of Eko organs chordal, electronic, console and portable - are distributed by Hornby Skewes. They are also responsible for handling two add-on keyboards, the Logan String Melody and the Logan String Orchestra. The Melody has a 4-octave keyboard and provides a comprehensive range of orchestral stringed instrument effects; the Orchestra, in addition to all the facilities on the Melody, includes solo violin and oboe voices The keyboard is divided to allow accompaniment to these with either

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bass or treble strings. Another feature is the "slalom", which creates slide effects on all voices, and this is activated by means of the slider control bar, or else by the touch-sensitive light. Separate attack and sustain controls are provided for the bass and treble sections.

The Crumar Compac electronic piano is of the standard type, but also incorporates switches which give manual walking bass on the lower 1½ octaves, piano, honkytonk and clavichord. An acoustic upright piano ("the Hornby piano") is another part of Hornby Skewes' large range of products.

MELLOTRON

Most people regard the Mellotron as an instrument, and so it is, but it's also a firm. Each key on the Mellotron activates a pre-recorded tape of a single note played on any orchestral instrument. The standard Mellotron 400 provides 3 basic sounds, namely flute, violins and cello, and any one may be selected by means of the track selector control. Additional sounds available are saxophone, choir voices, church organ, vibraphone, tympani, brass and sound effects. The musician may also supply his own recordings on ¼" tape at 15 or 7½ i.p.s. A full list of the Library of Sounds is obtainable from Mellotronics Ltd at 35, Portland Place, London W1.

BIROTRON

Soon to be in full production at the Complex 7 factory, the Birotron is a compact but very flexible tape-operated keyboard, the idea for which originated in the mind of a certain David Biro. The reader is advised to read the advertisement feature on the Birotron this month for details on the new instrument, and look forward to an in-depth review next month.

KENTUCKY

The range of Kentucky organs starts with the 'Petit 4' Fun organ, which can be played 'with two fingers only', the left hand providing a choice of 12 major and 12 minor chords, whilst the right offers eight different voices. Five other models are substantially more sophisticated, however — all of them being dual keyboard types. The Challenger has 49-note keyboards, 11 solo voices

over four footages (16, 8, 4, 2% ft), 4 accompaniment voices and 2 pedal footages; other features are variable reverb, vibrato and percussion. The Challenger is powered by a 30 watts rms amplifier through a 2-speed Rotatone rotary speaker. The Explorer model is similar, but has added percussive features and two amplification channels. The range is topped by the Adventurer, with 17 solo voices over six footages.

Two further models are the Winchester and the Chester, both with similar facilities. All the 2-manual models have a rhythm unit and a pedalboard, and are stylishly finished in natural wood. Kentucky also have a new combo amplifier — the SP36 — which gives "authentic orchestral chorus" and "realistic theatrical tremolo". The power output is a sturdy 36 watts.

FMS

Electronic Music Studios in full, the company specialises in compact synthesizer units which are sold under the SYNTHI trademark. The early-evolved Synthi A portable synthesizer is still popular with some small studios, and various other models are produced for educational use as well as for musical performance.

The Synthi 100 is a massive hybrid synthesizer with a full range of facilities. Several functional units are available as separate modules, such as the eight-octave filter bank, pitch-to-voltage converter and the sequencer, which can all be added to other systems. The Synthi Phase Frequency Shifter gives complex harmonic changes through the addition of a given frequency to a harmonic spectrum, and can be used effectively to provide phasing effects or for the repression of feedback in PA systems.

THOMAS

American-made electronic organs and synthesizers ranging in price from a few hundred quid to the top end of the market. The sleek-looking space-age T2001 and its more homely counterpart, the Californian 284 have two 44-note keyboards (F to C scale), a thorough selection of rhythms, voices and accompaniment presets, and 24 on-finger memory chords.

A keyboard memory and features

memory bring this up to the truly sophisticated end of the home entertainments category, but if you're a stickler for quadrophonic, you may be more inclined to go for the Californian 267, which has similar specifications. For those who can afford it, the Symphony Royale goes one better with two 61-note keyboards and 24 one-finger memory chords and the same basic model can be obtained complete with Moog synthesizer in the Celebrity Royale for a whisker under five and a half grand.

BALDWIN

American-made pianos and organs cover the tull price range, though the less expensive models are very much more orientated towards home entertainment than class performance. The Studio II at the top end of the Baldwin scale, however, is more the serious enthusiast's choice, offering 61-note solo and accompaniment manuals and a 32-note detachable pedalboard. The manual rhythm section can be played alongside the automatic rhythm, and there is a three-channel

solid state amplification system. The variety of finish and looks with both pianos and organs is considerable, and clearly much has gone into styling

The Baldwin Cinema II theatre organ has a lot of "olde worlde" charm about its walnut finish and includes 61-note solo and accompaniment manuals with a 32-note detachable pedalboard. Like other Baldwin models, the Cinema II incorporates the Fantom Fingers feature to enable numerous strums and chords to be played from preset. Theatrical tremolos, vibratos, reteration and reverberation are amongst other special attractions.

BRODR JORGENSEN

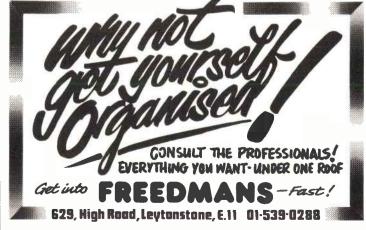
B-J provide a wide range of Japanese string-machines and synthesizers made by Roland. The SH-2000 synthesizer has thirty pre-set sounds — 21 instrumental and 9 special effect sounds; other controls are for filter, slide (portamento), transpose, hold, long sustain and repeat — plus a random note switch

Continued on page 71



The new Preludio 22/L/vony Elka Orla.









Jon Hiseman: (Colosseum II)

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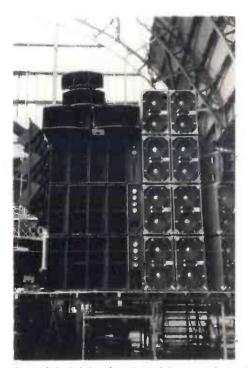
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Continued from page 57

equalisation controls are not as comprehensive as some currently in fashion, but considering the number of input channels they offer ample facilities. As we shall see later, there is provision on the console to "patch in" more comprehensive equalisers to individual channels, to cope with really awkward sounds.

Below the tone controls on the channels there are three echo send controls, with illuminated on/off switches next to them. Below these are three miniature toggle switches, which allow the echo send from each control to be taken pre or post (before or after) the channel fader. In line underneath the three pre/post toggles are three thumbwheel 8 position switches: these allow the three channel echo sends to be assigned (linked to) any of the effects group send/return busses (four on the LH input section, four on the RH input section). Next on our journey down the module are three illuminated pushswitches and two miniature toggles. The top push-switch is for channel mute (switches that channel off completely). middle one is for channel solo (applies that channel's output to the master stereo



Part of the left hand section of the stereo P.A. Cabinets to the left are Kelsey type folded horn bass units, smaller cabinets to the left are special Brit. Row mid-range units, each containing two 15" speakers, specially built for the Floyd by Gauss. The very thin enclosures between the stacks of these two cabinet types are for high frequency, and contain one Vitavox 4kHz horn and four JBL 075 tweeters.



output to the exclusion of all the others, useful whilst setting up mics); the last push-switch is marked P.F.L., which stands for Pre Fade Listen (routes the channel signal to the headphones). The top toggle switch next to the three push buttons switches the equalisation controls in or out of circuit (for before/after comparison of their effect whilst setting up), and the one immediately below it is marked Insert/Cancel. This switch allows an effect device to be inserted into that channel exclusively, via the XI R connectors at the rear of the console; the point of insertion is after the tone controls but before the channel fader (post eq. pre

The next control down is the LeftRight pan control, perhaps the only knob that requires no explanation at all, and below this is an illuminated push switch that disables the panning function on that channel. The three round dots to the right of this control are L.E.D. indicators, which indicate peak signal levels on that channel of —15, 0 and +15 dB's (quiet sound, normal maximum level and overload).

Next in line for consideration are the effects master modules, positioned in between the channel modules and the control module (the latter may be easily identified as there is no fader beneath it). The effects masters sum up the signals sent to them from the channel modules, and then send this combined signal out for treatment by an external device. Starting from the top of these modules, we have a send level control to set the output level from -40dBm to +20dBm, below this control is an insert switch operating on the send section, and below this are illuminated push-switches for solo and 'check echo" (P.F.L.); beneath these are the bass and treble controls for the send signal -both fixed frequency controls, giving + or -16dB's or lift or cut at 50Hz and 15kHz respectively. Next on this module are the controls of the return from the effects device: gain, treble, middle (at 3kHz), bass and spin; "spin" returns a regulated amount of the signal, selected from either the post insert send or the pre eq return by a miniature toggle switch, just below the rotary control. "Spinning" the return from, say, a reverb unit, would give the effect of a soft *echoing* reverberation.

The four push-switches next to the spin toggle are as follows: spin mute, return mute, return solo and P.F.L. the other pan, insert etc. controls on this module perform the same function as those on the ordinary mic/line input channels.

Both Effects master modules and Input modules have routing modules, consisting of 16 illuminated push-buttons, above their control sections. Eight of these switches assign the output of that channel pan pot to the inputs of the 8 stereo sub-groups (four on one input console, four on the other); and another 6 push-buttons assign the post fader channel signal to any of the 6 quadro masters in the central console; these latter buttons can be preset, and then brought into operation by pressing the button marked "Q"; the remaining button, marked "SM", routes the channel(s) on which it is depressed directly to the stereo master output, bypassing the sub-groups.

Each input section console contains, in addition to the 20 input channels and four effects masters, four stereo sub-groups, the stereo output, and a control module. The control module has a socket for a talkback mic, tone controls and controls for internal and external to levels; 6 illuminated push-buttons route the tb to either the stereo or quad master modules, or directly to any of the four individual quad stations. A similar arrangement routes the output of a six frequency oscillator to any of the P.A. stacks (useful for lining up crossover levels); also provided on this module are master controls for solo and headphone levels. An LED meter above this module allows any channel or effects group to be checked out, merely by pressing the relevant PFL button. The stereo sub-groups and master are also provided with these meters. When I saw the Floyd console at Olympia these hadn't been installed, but when they are these devices should be fairly unique in giving both PPM and VU indication at the same time.

The central quadro console contains, apart from the stereo and quad masters and the quad sub-groups with joysticks, four quad auxiliary input modules. These modules each comprise four discreet channels, with master fader and ganged bass, middle and treble controls. Since Rick made the drawing of this console four individual trim pots have been added on each module, replacing the single gain control illustrated. The four auxiliary quad inputs are used up as follows: one is for a soundtrack quadraphonic synchronisation with the 35mm films that the Floyd use, another is for pre-recorded tape tracks - the first four from the Floyd's 8 track Otari recorder, one aux. input is unused at the moment, and the final one is for Rick Wright's use onstage. Rick uses a rebuilt Allen and Heath mixer for his keyboards, and a "floating" quad joystick can be operated in conjunction with this to pan keyboards around the Floydophonic system — as on the Moog intro to "Shine On".

One of the remarkable features of the Floyd's Midas console is the amount of facilities allowing special treatment of individual channels. To give you an idea of why these are necessary it would seem appropriate to give a run down of the complement of 'outboard' Flovd's equipment. In fact, their array of what would normally be termed "accessories" is so comprehensive and sophisticated that many small studios might feel decidedly envious, witness:

16 channels of DBX noise reduction - 6 on the Otari eitht track, 3 on the Master Room Reverb, 4 on the 35mm soundtrack, 1 on the Roland Space Echo anything else that hisses!"

2 Lexicon Digital Delay Lines - mainly used for vocals.

2 Urei Teletronix Levelling Amplifiers LA 3A, and

2 Urei UA1176 limiters, used on sax or vocal channels via insert points.

2 DBX RM160 compressors, one used on the bass guitar mic channel, the other on the bass guitar DI channel.

2 Rebis stereo parametric equalisers, used as four extra channels of eq for problem instruments such as acoustic quitar/snare drum.

3 Gelf Electronic Auto Phasers, one for Roger Water's vocal channel, and two on the stereo master inserts - to phase the whole P.A.!!!!!!!

1 Master Room 'B' studio spring reverberation unit, used mainly for vocals.

1 Orban Parasound 516EC Dynamic Sibilance Controller, used exclusively to tame over "ssshhy" vocals.

1 Roland Space Echo, used on instruments.

1 Allen and Heath A.D.T. (Automatic Double Tracking) unit, used mainly on

10 Allison Research Kepex Program Expanders — very interesting — the Floyd wanted to use these on vocals but found (as the Moody Blues did before them) that they don't really work properly live! 7 Kepex are still used on the kit mics (drums provide a meaty enough signal to operate Kepex even live).

1 Otari 8 track tape recorder; 4 tracks are used for pre-recorded quad pieces, and the rest for click tracks, cues and so on, are fed to the group onstage, via the foldback.

1 Nakamichi stereo cassette recorder for playing incidental music and recording gigs.

Also in evidence were two Revox's and a TEAC 4 track, all of which seemed to be generally kicking their heels! Typical use of the console's effects send facilities with this equipment is as follows (for a vocal channel):

Channel Insert - One channel of Orban Parasound Sibilance Controller.

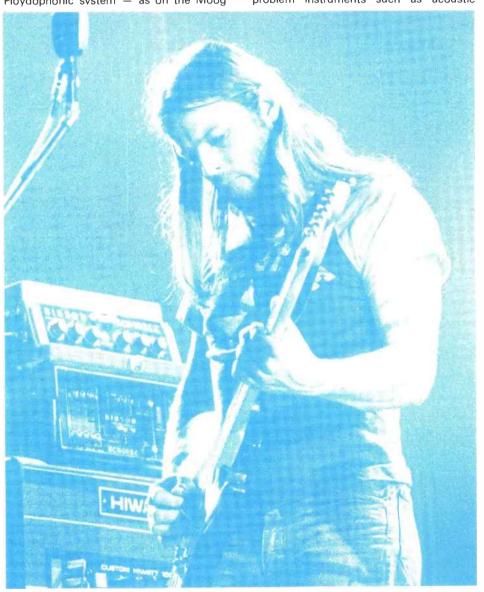
Aux. Send 1 - (Via Effects Group 1) Gelf Auto Phaser.

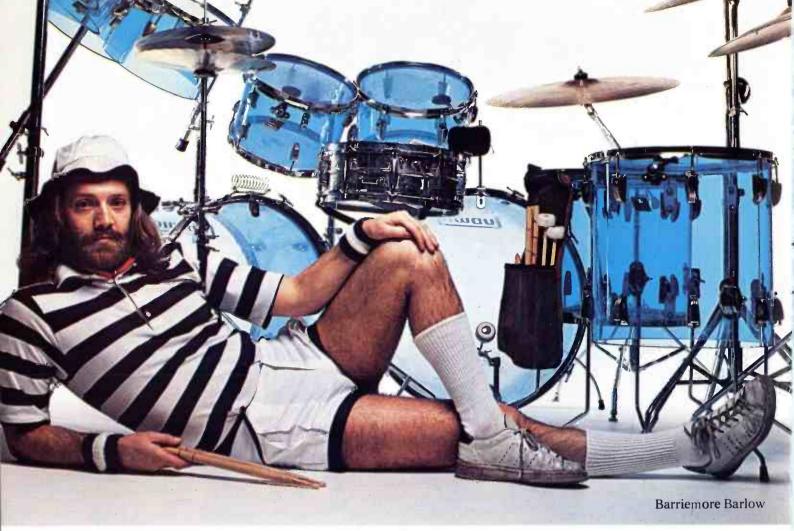
Aux. Send 2 - (Via Effects Group 6) Lexicon D.D.L.

Aux. Send 3 - (Via Effects Group 5) Master Room Reverb.

Typical of the console's live mixing

facilities are the following examples:
"Wish You Were Here" — the point at which a natural sounding acoustic guitar dissolves dramatically into the same sound, but distorted as from a transistor radio. Mixing Operations required — start 8 track Otari. fade out live guitar simultaneously fade up pre-recorded "radio" tape in quad, via aux quad input on Quadro console. "Echoes" - the point at which the dominant, repeating guitar solo suddenly goes into fuzz and increases dramatically in volume, leaping out at you from your Boots Home Lo-Fi speakers! Mixing Operations required -Dave guitar input channel Gilmour's preselected to one of the quad sub-groups on the Quadro console, the joystick on this sub-group is placed in a central position, and the quad fader advanced to a suitably "loud" position. When Dave Gilmour's foot comes down on his fuzz box, Brian Humphries' finger presses the "Q" button on the guitar channel, bringing it into the pre-selected quad position and level setting. As Robbie said: "This time the band decided to get a mixer that would do almost anything". If you want one too it'll cost you £32,000 — but then you're not the Pink Floyd, are you? "The Floyd" are messers Gilmour, Waters, Wright and Mason.





I've discovered oxygen rock.

"When I was a kid I played for Aston Villa schoolboys. So I thought I was going to be the next Stan Matthews.

That was before I met Dee. I was fifteen. I fancied Dee. She fancied Ringo Starr.

There was only one thing to do. Start playing

drums.

I saved up. Bought my first snare drum for twelve quid. Fell in love with music. And Aston Villa

went down to the second division.

Times have changed. And so have I.

But right from the start I wanted a Ludwig kit.

Because Ludwig's the best. You can hear it. Besides, the

hardwear's tough and reliable. And with me, it needs to be.

Drumming's a pretty physical occupation at the

best of times. But with Jethro Tull, it's something else. In fact, since I've been working with them, I've discovered a new type of music. It's called "Oxygen Rock."

When we're on tour in the summer, the temperature on stage gets unbearable. I remember once it touched 120F. That's when drummers get a thing called "asphyxiation blues." And the only answer is to wear shorts. And bring your own oxygen cylinder. So I do. But I still lose a stone on tour.

And if drumming's a physical occupation for me, it's certainly that for my drums. I mean, on tour with Tull we might do four gigs in every five days. (And we're on tour most of the time.) So my drums have to stand up to a hell of a lot of transit. As well as a lot of me. So I use Ludwig.

Another good thing about my kit is that because it's vistalite, it's not only good looking, but light and easy to set up. It's been set up so many times, I think it could set itself up.

I got my first Ludwig kit nearly six years ago. At the time I had an enormous, brand new kit of dubious make. And I swapped it for a small, old and battered Ludwig. It was beautiful. And I haven't used anything but Ludwig since."

Barriemore Barlow is the drummer behind the solid Tull sound. He's played with the Magic Band (Captain Beefhart). The Blades. The John Evan Band. The All Jump Kangaroo Band. And he's also helped John Miles out occasionally.

With Jethro Tull, he's just completed a new album called 'Songs from the Wood.'

And they're about to start a world wide tour which will take up most of 77.

\square Please send me information about Ludwig. \square Please send me details of other Rose	-Morris products.
Name	Rose-M

Address B1377

5151.

Rose-Morris

Rose-Morris & Co. Ltd., 32 Gordon House Road, London NW5 1NE. Tel: 01-267 5151.

for producing random sounds which bear no relation to the pressed key. There are three octaves. elborate and expensive equipment, such as System 700, is made for use in the studio, consisting of a basic keyboard with a main console to which optional blocks can be added for a total of 47 modules.

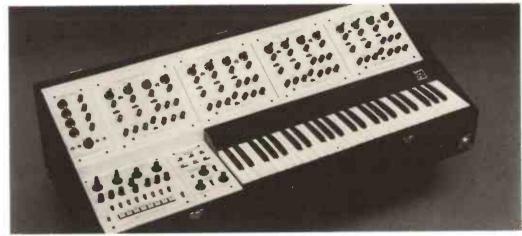
The RS-202 string machine has 61 keys spanning five octaves, and the voicing tabs provide two string selections as well as brass sound. A vibrato delay slide-control is also featured and there is a gate output for connecting up to a synthesizer unit - see this issue's review by our over-enthusiastic Ed. - Ed.

MAGNUS

Manufacturers of both push-button and electronic organs aimed mainly at the youngster developing an interest in keyboards and generally. Although models really fall the junior fall into sophisticated toy bracket, the 3051 and 3057 manual electronic models have a compact range of instrumental presets and automatic rhythms, and could appeal to the beginner who doesn't wish to part with all of his readies in one go.

NORLIN MUSIC

Norlin now controls three formerly independent companies: Lowrey organs, Moog synthesizers and Selmer keyboards. Three models of Selmer portable combo organs are available, and the 61AR with 61 keys and 14 rhythm control units is boosted by a built-in 20-Watt amplifier. Moog synthesizers have



▲ The Oberheim 4-voice polyphonic.

established a good name for themselves over the years, and the Sonic Six is an impressive member of the breed. Featuring a four-octave keyboard with its own monitoring amplifier/speaker system, the Sonic Six also has two independent tone oscillators providing sawtooth, triangular and rectangular waveforms.

Lowrey organs cover a wide scope of the market, and at the upper end of their price range, the Symphonic Holiday has much to offer. With a choice of fifteen different rhythms, the two 44-note keyboards can be set for numerous string, woodwind, percussion and organ sounds. Continuously variable slidecontrols are a practical advantage in controlling the exact length of Sustain and the exact speed of Repeat, and the four 30-Watt amplifiers ensure a good solid output of sound. One of the most exciting developments to emerge from Norlin recently is the Polymoog. This revolutionary piece of equipment is programmable like other synthesizers, but is fully polyphonic, which means that all 71 keys can be played simultaneously or in clusters as selected. Besides this, its 90 decibel signal-to-noise ratio is ideal for recording purposes.

LIVINGSTON ORGANS

Already established in the organ market with their Abbey Chapel, and Chorister

Livingston are at present making plans to double the size of their Production and Electronics Divisions. This is likely to lead to a wider range of musical equipment becoming available in due course. Custom-built organs are also manufactured with three generator units, but for those working on a tighter budget, the new Trickett touch-sensitive electronic piano is a product well worth considering

CHAPPELL

Chappell are primarily known for their wide range of pianos which, it is said, originally created a favourable impression with a then Richard Strauss. vouthful continued on page 72

Music Man—A new experience

210-65

Model 210-65 is a two channel amplifier. Channel one has two inputs, volume, treble and bass controls. Channel two features two inputs, bright switch, volume, treble, mid-range, bass, reverb, tremolo intensity and tremolo speed controls. A deep switch, master gain control and power reduction switch operate on both channels. A dual foot switch is supplied for remote control of the reverb and tremolo functions. The amplifier also has an impedance switch for selection of either four or eight OHM loads.

The model 210-65 employs two heavy-duty 10' speakers with 2" aluminium voice coils and 18 oz. alnico magnets. So great is the magnetic efficiency of these speakers that the 210-65 can be shown to perform with many competitive amplifiers of larger and more cumbersome size.



combined with an extremely compact design has made the 210-65 one of our most popular models.

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Write enclosing large S.A.E. for colour catalogue to: MUSIC MAN DIVISION, STRINGS & THINGS LTD., 20 CHARTWELL ROAD, CHURCHILL INDUSTRIAL ESTATE, LANCING, W. SUSSEX BN15 8TU.

Europa, for instance, has changed its styling from the traditional in order to produce a less bulky instrument which will be particularly suitable for the home. It is available in two styles; with a small toe or with cabriole legs. Both models are supplied with domes rather than castors. The Chappell C, and its more compact counterpart the Chaplette, also continue to enjoy great popularity in the home; the range, then, is of quality pianos, and few musicians are likely to be unaware of their presence and capabilities.

YAMAHA

Several important innovations from Yamaha have formed an integral part of their Frankfurt stand this year amongst them a new portable grand piano. It is described as acoustic-electric, and has very short strings, making its appearance (according to a certain gentleman at Kemble) like that of a "pregnant Rhodes". It will cost around £2000 when generally available, and has already been favoured by the deft digits of Herbie Hancock, Additionally there is a new electronic piano, with the action of a grand, at about £800. A new range of polyphonic synthesizers, derived from the gargantuan GX1, will also soon hit the market, taking their place alongside the already popular (which is, of course, monophonic).

Yamaha-watchers will already be familiar with their series of combo (i.e. with a built-in amplifier) organs. The top of the range is dominated by the YC-45D, with two 61-key manuals and an optional 13-note pedalboard. A large number of tone levers and effects ensure the continuing flexibility of this instrument, including such delights as "slide trombone, squawk, birds" and "astro". The amplifier provides 30 watts of power. Smaller models are the YC-30, YC-20 and YC-10, with proportionately smaller power out-

J. T. COPPOCK

The new Elgam organs from J T Coppock will no doubt have created a favourable impression at the Frankfurt Trade Show, and reports so far confirm that the models have reached the intended market. The first of these, the Melody, has two 37 note keyboards, and is available either with or without internal amplification. It should be noted by those keyboard players within a group that a lower range of sales tax exists on instruments without amplification.

The Melody's partner is the Symphony, and this features two 49 note keyboards. The Symphony with amplifier has a 20 watt RMS amplifier through two 8" loudspeakers; the rhythm unit has twelve rhythms and is linked to the automatic bass and chords and has a chord decay control. Future arrivals of new Elgam models include the Broadway, a prototype of which was on display at the London Trade Show, and a programmable rhythm unit called the Carousel which incorporates memory chords and arpeggios plus a two octave keyboard for programming the chords. Four footswitches control

the chords for minor, seventh and diminished.

OBERHEIM

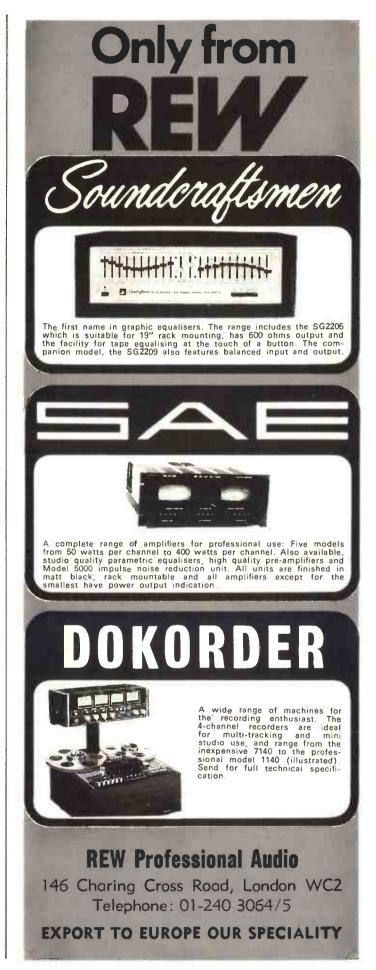
This name will probably be unfamiliar to most readers. Oberheim are a synthesizer manufacturer in California, and Gary Wright amongst those who play their instruments. Perhaps their most important contribution to developments in electronic music comes in the form of their Four-Voice Polyphonic synthesizer; this enables notes to be simultaneously, and whilst it is thus not fully polyphonic, it includes also a memory device which stores patches of the player's own choice and recalls them at the push of a button. The advantages of this should be evident to those who have discovered the limitations of pre-set voices and the burden imposed by having to transport several key-boards. This instrument is actually four complete synthesizers linked together and operated by a single keyboard. It is thus fully modular, each expander including two VCO's configured with a four-mode VCF. two envelope generators, a low frequency oscillator and a VCA. There are no less than 49 notes on the keyboard.

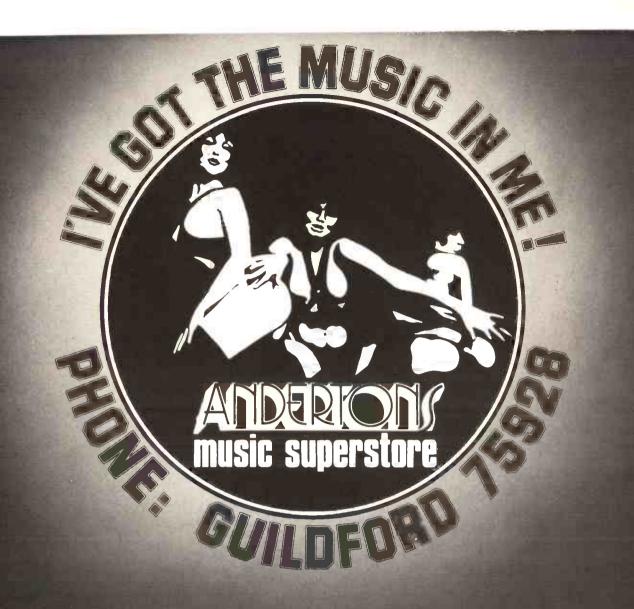
The other main instrument by Oberheim is the Two-Voice Polyphonic, based on the same principle, but having just two expander modules along with an eight-position two-voice Mini-sequencer with sample/hold, and 37 keys. We await further developments with interest

BOOSEY AND HAWKES

Responsible for the distribution of synthesizers, Boosey and Hawkes also handle Diamond organs. Featured amongst the latter are a variety of instruments for different applications. We begin with the Model 70, with a 49-note manual and four voices: melodia, trumpet, violin and bass. There is vibrato on/off, and the first 17 keys are bass/treble convertible. There is an overall volume and a bass volume control. The amplifier gives out 7 watts rms, into a 4 ohm speaker. This model also comes in a more expensive version, featuring a built-in rhythm machine. There are 3 other models before we get to the 742, with its two 49-key manuals, rhythm unit and automatic accompaniment. The latter includes the two pre-set voices of piano and guitar, plus automatic bass. It comes with an optional 13-note pedalboard. Needless to say, the range in between covers a variety of styles and price brackets. A string unit and an electronic piano complete Diamond line.

ARP synthesizers are well respected, and were covered recently in Beat's Synthesizer Survey. The most accessible to the less-thanwealthy is the AXXE, with a noise generator for thunder, lightning and storm effects, portamento, pitch bending and other basics, such as a VCF, VCO, LFO and envelope generator. The keyboard has just 37 notes, but by judicious operation of the transpose switch, its pitch may be raised or lowered 2 octaves.





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REVOX A77 HIGH SPEED
REVOX A77 DOLBY
REVOX A700
TEAC 2300 SX
TEAC 2300 SX
TEAC 2300 SX
TEAC 3300 SX
TEAC 3300 SX
TEAC 6300
TEAC 6100
TEAC 7300
TEAC 7300
TEAC 7300 RX
FERROGRAPH
(ALL MODELS)
TANDBERG 3500 X
TANDBERG 9100 X
TANDBERG 9100 X
TANDBERG 10 XD
OTARI MX 5050/2/4 STEREO

4 CHANNEL TEAC 2340 SX



TEAC 3340 S OTARI MX 5050 QXHD 8 CHANNEL BRENELL STANDARD 8 BRENELL MINI 8 OTARI MX 5050 8SD TASCAM 80-8

CASSETTE RECORDERS



HARMAN KARDON HK 2000 YAMAHA TC 511S YAMAHA TC 800 GL NAKAMICHI 550 NAKAMICHI 600 NAKAMICHI 700 NAKAMICHI 1000

MIXERS



ALLEN & HEATH NON MIX
ALLEN & HEATH MINIMIXER
ALLEN & HEATH QUASI MIXER
ALLEN & HEATH PRODUCTION MIXER
ALLEN & HEATH POP MIXER
ALLEN & HEATH MODULAR
TASCAM MODEL 2 TASCAM MODEL 3
TASCAM MODEL 5 LAMB 422 ALICE AD 62
M.M. (FULL RANGE)

POWER AMPS



H/H 5.500D T.P.A. 25 ,, 50

AMCRON DC 300A AMCRON M 600 YAMAHA B1 MCRON IC 150 YAMAHA B1
100 YAMAHA B2
AMCRON IC 150 PHASE LINEAR 400
AMCRON D 60 PHASE LINEAR 700B
AMCRON D 150A RFVOX A740
HARMAN/KARDON CITATION 12
HARMAN/KARDON CITATION 16
STEREO AMPS
REVOX A78 YAMAHA CA 410 YAMAHA CA 610
YAMAHA CA 800 YAMAHA CA 1000

STUDIO MONITORS



TANNOY EATON
TANNOY DEVON
TANNOY CHEVIOT
TANNOY BERKELEY
TANNOY ARDEN
YAMAHA NS 1000 JBL 136
JBL 1100 JBL 165 JBL 1200B
ACOUSTIC RESEARCH (FULL RANGE)

CHASSIS SPEAKERS



TANNOY HPD 295
TANNOY HPD 315
TANNOY HPD 385
GAUSS (ALL MODELS)
ATC (ALL MODELS)
JBL (ALL MODELS)

HEADPHONES

YAMAHA HP 1 YAMAHA HP 2 REVOX RH 15 AKG K140 AKG K160 AKG K240

NOISE REDUCTION UNITS

DBX 117, DBX 119, DBX 122, DBX 124, DBX 154, DBX 157, DBX DX8 TEAC AN 80, TEAC AN 180, TEAC AN 300

ACCESSORIES

REMOTE CONTROL UNITS, BULK ERASERS DEMAGNETIZERS, ADT UNITS TEAC MIX DOWN PANELS, GAFFA TAPE, POWER SUPPLY UNITS, DIRECT INJECTION BOXES, XLR, CANNON, JACK PLUGS

TAPE

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CASSETTE COPYING

MICROPHONES

AKG D160. D200, D707, D12, D190, D1200, D202, D224 SHURE (FULL RANGE) BEYER (FULL RANGE)

Immediate mail order or H.P. service. Phone or write for information. Demonstrations by appointment.

STUDIO EQUIPMENT SUPPLIERS SURVEY

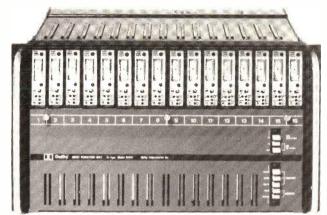
Hopefully most of the companies we've chosen to examine in this survey of studio equipment suppliers will be in part familiar to most Beat readers from our monthly studio spotlights. Here we have listed a selection of the most important companies involved in the studio supply market, the backbone of the recording industry — from tape machines to mixing consoles, and digital delay lines to power amps.

ELECTRO-VOICE

Speakers and microphones from Electro-Voice are making inroads into the established reputations of the more usual in-studio equipment manufacturers. Although the mics could be accused of being expensive it's a case of you pays your money and takes your choice. Made in America and distributed in this country by Gulton, the mic range includes the RE20 which has built in shock mounting and an electrical shield. Uniform frequency response from 45 to 18,000Hz and a bass roll off switch make this particular mic

particularly suitable for many aspects of studio work.

On the speaker side is the excellent Sentry III which is already used by a great many studios for monitoring. A direct descendent of the famous Sentry II it features the same high frequency components with a new low frequency section which allows a reduction of 30% in overall size while extending the low-frequency performance to 10Hz relative to the Sentry IV A. Provided with a tweeter protection device which allows performance without maximum 50 damage, the watt



▲ Dolby noise reduction unit.

specification for the Sentry III is based on filtered random noise which is fed to the speaker for a period not less than 15 hours before sale. The Sentry III has made successful pushes at establishment monitoring thinking and proves that it's not just reputation that gains a place in the studio monitoring room.

AKG

Microphones are the most well-known facet of AKG's wide-ranging contribution to sound equipment, and we have recently covered this in Beat. AKG also, however, manufacture high-quality headphones, for both the home listener and for the requirements of the studio. The K240, for example, are lightweight dynamic stereo headphones with a unique construction and 14 diaphragms, and recommended for the high quality reproduction of sound in a studio environment.

Other studio equipment supplied by the firm includes a series of reverberation units, built into sturdy yet portable cabinets. They are insensitive to exterior sound or vibrations and have 2 channels. The BX15, for example, has variable delay times between 1.5 and 3.5 seconds, in steps of 0.5 sec. There is a separate bass and treble control, and reverb-intensity per channel.

AGK also manufacture a digital audio time delay unit with a maximum of four outputs from one input. The maximum delay is 400 milliseconds, and the steps are variable.

BOSE

The Bose 800 speaker has multiple drivers in an air-sealed enclosure plus an active equalizer, whilst the size of the speaker cabinet is kept small by the use of small cones in conjunction with large magnets. The 800 is the main commercial speaker produced by Bose, but recent developments in speaker designs mean that they are also well suited for use in studio monitoring. Their 901 Series III drivers utilize aluminium helical voice coils, and the brief in this range has always been to maximise efficiency. Previous speakers have often lost magnetic flux from leakage through the steel construction, 'Dead space' has been reduced by the use of a special injection-moulded thermal plastic. The high ratio of magnet to cone wieght also contributes to greater efficiency.
It should also be mentioned that

It should also be mentioned that the Bose 1800 power amp with its rugged construction and LED indicators is a good complement to the speakers.

ALLEN & HEATH

Allen & Heath manufacture studio recording aids of various kinds but with an emphasis on sound mixers. Their modular series mixing console is a moderately priced piece of equipment which can handle up to sixteen-track recording and mixdown, and which can also be easily adapted or extended to incorporate additional systems. Up to 16 input channels are available, each with its own monitor mix and overdub func-

tion, and there is a three-range equalization unit with parametric mid-frequency. Amongst other ancilliary products, the A&H automatic double tracker is worthy of mention. A two-channel analog delay unit operating on Bucket Brigade delay lines, each path is capable of up to 24 milliseconds delay, switchable in six-millisecond steps. A dual button between the paths delivers a 48-millisecond delay between input 1 and output 2, and although designed for vocal and instrumental doubling, the ADT will also be useful in creating special effects or synthesizing quad from stereo, having a noise distortion of less than 0.5%.

Allen & Heath also produce the first infinite compression ratio limiter which makes it impossible for any signal, transient or otherwise, to pass through the recording unit above the specifically set threshhold level. With live performances this means a great saving in destroyed speakers through overloading, and in the studio can make life a lot easier, especially when dealing with obstinate signals like piano, synthesizer or vocals. With a frequency response (20 cycles to 20 Kc) of +0 to -3dB, the limiter threshhold may be varied from -10 to +10 on the input control, and from -20 to +20on the output level control.

BEYER

Our microphone survey a couple of months back covered the best of the Beyer range. It should, however, be mentioned that the most suited models for the studio are the M160, M360, M500, M88 and M101.

Beyer's headphones include the DT100, with a frequency response between 30 and 20,000Hz, and this model is characterised by the particular brilliancy of the sound. The DT100V has a high-fidelity induction receiver built in, in order to obviate the need for cables. The DT480 ("Sound Juwel") has a frequency response of 20-20,000Hz and is a dynamic stereo headphone, whilst the 204 picks up quad sound signals, which are also stereo compatible. DT48 Finally, their ("long recognised as a first rate acoustical testing and measuring instrument") is perhaps the most widely used model in professional sound recording, and even scientific research.

R.E.W. Professional Sound Equipment

R.E.W. are neither manufacturers nor professional consultants in this field, but have been included in this survey because they offer a phenomenal range of equipment to the serious studio musician discount prices. special everything from mixers and graphic equalizers to PA speakers readily available they are one of the very few retailers in a position to give you exactly what you're looking for over the counter. Better to go into this shop and select just what you want rather than send off, wait for two

months and then receive the microphone stand that someone else ordered last Christmas! You'll find them at: 146 Charing Cross Road, London WC2 (01-240 3064/5).

D.E.S. TECHNICAL

DES are wholesalers for Scientific Audio Electronics, Soundcraftsmenand Dokorder. Besides all the conventional luxuries of pause button, cue switch, auto shut-off and remote control, the Dokorder 1140 tape deck has a four-channel erase system of ferrite in addition to the four-channel record and playback molybdenum heads. This facilitates all the source/monitor versatility of a three-head deck plus the added convenience of 4-track bi-direction stereo. The peak-level recording indicator is incorporated to warn when incoming signals exceed the ideal recording level by +8dB, and the two four-digit tape counters, one for forward and one for reverse, serve either as ordinary indexers or, with the memory program in operation, can be set to function for aids such as infinite play-stop-rewind-repeat-Handles the studio standardised 101/2 inch reels and offers two alternative tape running speeds: 15 ips or 71/2 ips. First-rate value for money this one.

SAÉ covers amplifiers, amplifiers and sound equalizers, and one of the more interesting additions to the range recently has been the SAE 5000 graphic sound equalizer. The 5000 goes a long way to over-

coming the recording artist's old enemy: impulse noise. Impulse noise, known professionally by such terms as "clicks" and "pops", is generated by static, vinyl kinks and accumulated dirt. Upon detection of the presence and duration of the offending impulse, the 5000 is able to isolate and delete only the damaged segment from the recording. Because the duration of this impulse is usually so minute - often far less than a thousandth of a second - it is possible to extrapolate forward a tiny segment from the music information immediately preceding the gap, thus eliminating the danger of destroying sound continuity. But there is also a system defeat button which enables the impulse noise reduction circuit to be electrically bypassed, and for those who need to know such things, the circuit can also be reversed, so that only the noise eliminated from the recording can be heard. Total harmonic distortion is less than 0.1%, termodulation distortion less than 0.1%, and the signal to noise ratio is greater than 90dB below the rated output. Certainly a useful piece of equipment to have about the recording studio - especially when reworking old or inferior-quality tapes.

Soundcraftsmen American-made sound equalizers come at a reasonable price and offer an accurate level of performance. Of these the SG2205-600 has harmonic distortion of less than 0.1% and a signal to noise ratio better than 106dB at maximum output. With rack-mounted 19" black-anodized it looks functional



▲ Studer B-62.

unassuming, and a 600-Ohm output makes it suitable for serious studio

F.W.O. BAUCH

Bauch are one of the leading wholesalers of equipment specifically to the serious studio musician. handling exclusively recording hardware made by manufacturers from Neumann microphones through Lexicon delay units to ARP synthesizers. Two new products available from Bauch in the Studer range are the new portable audio mixer and studio tape recorder. The new tape model — Studer A80/RC - is an advance on the A81 series used by the German Broadcasting Corporation, and features a new tape transport control and standard LED electronic timer.

Further news from Bauch is the

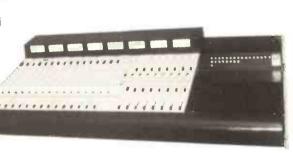
new Lexicon Varispeech II, which enables standard audio cassettes to be played at any speed from one half recorded speed to 21/2 times, whilst preserving the originally recorded quality. Pitch tracking is better than 0.1% of nominal over the entire play-back range, and a further feature is the digital splicing technical which virtually eliminates the noise interference emanating from spliced sections of tape.

HAYDEN LABORATORIES

Hayden Laboratories may not immediately trigger bells in most minds, but if we were to say Sennheiser ? Sennheiser microphones and headphones are pretty well standard issue in most studios we visit, and so they should be. Sennheiser really care about their equipment and the

As used by PINK FLOYD

The Allen & Heath Modular series console offers full studio facilities which include up to 24 inputs, 8 outputs and 16 track monitoring parametric equalisation. 3 auxiliaries





stream monitoring, separate sel-sync amplifier, modular electronics and remote control facilities etc.



BRENELL
Pembroke House, Campsbourne Road, Hornsey, London N8 01-340 3291

etc.

technical developments in their field of the industry and publish an excellent micro-revue which contains not only information on their products but explanations regarding their manufacturing philosophy.

The Studio Cardiod Microphone MD421 is one of their really outstanding items, offering a very wide frequency response with an intentional increase of sensitivity in the upper range. Models 421N and 421-U-4 incorporate a bass control which is adjustable in five steps. External magnetic stray fields are eliminated by a compensation coil.

Sennheiser also produce a range of first class headphones, many of which are chosen by some of the best engineers in the world, as well as a series of monitoring mixer units and equipment testing hardware. We recommend studios, and those of you with semi-professional interests to contact Hayden Labs at Churchfield Road, Chalfont St. Peter, Bucks. for full details of the comprehensive Sennheiser products.

ROLAND

Roland are one of those companies who tend to come up with the goods but don't shout about how good they are — which is quite refreshing. Best known probably for their amps. and superb range of synthesizers and string machines (all of which should be found in studios anyway!)

they also manufacture a number of items which could prove useful in smaller studio situations. The RE-301 Chorus Echo lies at the top of the RE series of echo chambers, and produces effects ranging from the large auditorium or cave-like echoes to long delay echoes similar to the genuine article — stand on top of the Matterhorn and let rip with a good yodel. The 301 also employs a BBD generated chorus effect to make solos sound like duets, and 6 string guitars like 12s.

Roland also make the Boss GE10 Graphic Equaliser which although primarily designed for stage use, has applications in the semi-professional studio as well. It has a very comprehensive specification and could well be worth a look if you're thinking of setting up a small recording unit.

MM ELECTRONICS

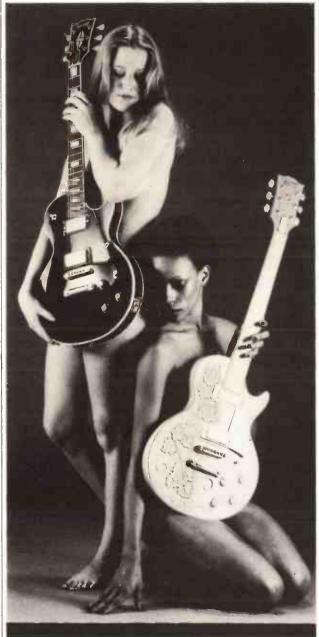
MM produce a formidable range of high quality mixing consoles designed for high performance in recording and PA applications. The original member of the family is the MP175 which is still selling like hotcakes simply because the basic design is so effective, and the price is still right. The MP 175 features 12 input channels mixing down to 2 with facilities for echo and foldback

Continued on page 78



KASUGA

Ecstasy at your fingertips



Kasuga guitars are available through all good retail musical instrument shops. The range consists of nineteen popular models. Illustrated is the black single cut-a-way model LG380B at £155 including de-luxe carrying case, together with the blonde model LG2000V at £299 also including de-luxe carrying case. Please ask for further details through your local dealer or write, with stamped addressed envelope, to:

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The 16 into 8 has double routing switches enabling any input to be routed to any pair of output channels, and all MM desks have established an enviable reputation for ruggedness and reliability due to their extensive and exhausting checking and testing system which makes it virtually impossible for a duff number to pass out the production end of the factory.

HAMPSTEAD HI-FI

Hampstead Hi-Fi are one of a number of microphone manufacturers who are busy making a name for themselves in markets which have traditionally been dominated by the few so-called accepted giants of the field. Hempstead Hi-Fi manufacture a range of microphones with applications ranging from aircraft ground control, through outside broadcast, to studio and live P.A. use. The 4105 is a lightweight cardoid moving coil model with a well documented capacity for reducing that headache of all mic. work feedback. The 4038 is used for recording musician groups in studios and is a high sensitivity bi-directional ribbon mic with low distortion.

GELF

Gelf are one of a number of companies in the business who operate from the new Milton Keynes city, from where they produce a selection of studio mixers, cross over units, and auto phase units. Gelf desks are particularly pleasing both aesthetically and electronically, and they produce a number of mixers developed purely for monitoring. The 16/6 gives the availability of 16 inputs to any one or more of the 6 outputs thus providing 6 independent mixers.

The Electronic Crossover GX 24 is a 4 way stereo unit with floating balanced 600 ohm inputs and outputs and VU metering and level control on all outputs. Crossover frequencies are 450Hz, 1300Hz and 8600Hz. The Auto Phasing Unit GP14 has a phase shift of 2160 degrees, a variable delay between 0.03 and 3 seconds, and features phasing indicators located above the envelope section which show the control voltage acting on the filter, maximum brilliance occurring when the filter is at the end of its range.

HH

Although better know for their VS Musician range of amplifiers, HH also manufacture a number of items with studio applications. The Multi-Echo Unit is a compact and portable echo delay system, made to studio standards — which can also be used live on stage — giving a wide range of different echo, reverb and special repeat effects. Four separate replay

heads are used with a fixed delay of 80mS and buttons select which head or combination of head are operating. Four independent repeat push buttons select the replay head to be fed with repeat signals — offering a total of 240 different synthesized sounds.

HH also manufacture the IPA series amplifiers which are used extensively in broadcasting and sound recording studios. The TPA 100D is a silicon transistor amp giving extremely low total harmonic distortion at full rated power and at low levels over the whole frequency range. DC coupled throughout the amp is rated at 170 watts rms into 7.5 ohms and features a unique dissipation limiting circuit which protects it from load mis-match and short circuit conditions. Recovery from short circuit to normal operation is virtually instantaneous with no thermal cutouts to reset or fuse replacement requirement.

FELDON AUDIO

The pride of Feldon Audio's gear is the Eventide Clock Works Harmonizer which has already found its way into many good studios. The Harmonizer employs digital circuitry and RAM (Random Access Memories) which transpose input signals by up to a full octave, either up or down. The Harmonizer is also a versatile digital delay line variable in 7.5ms steps up to 112.5ms, and a second input is an optional extra

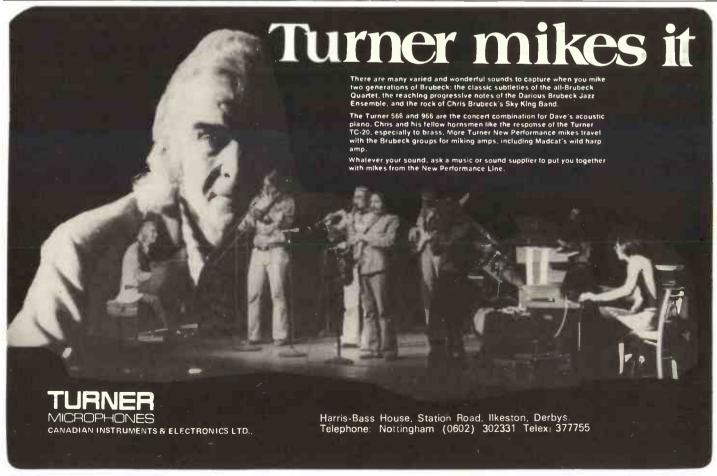
that varies up to 82.5ms.

The Harmonizer also decreases energy build-up feedback by moving successive repetitions of the same signal away from the original frequency, and can also be employed to increase and decrease tape speeds without affecting the pitch. As you may gather from this we like it, and want one!

DOL BY

Nearly eleven years have passed since the Decca Record Co. took delivery of the first live A301 units. Since then Dolby have achieved the distinction of becoming a household name from an industry about which most households know very little. Dolby noise reduction equipment is now the industry standard, with more than 25,000 professional channels in use by well over a thousand studios in more than fifty countries — to say nothing of the system built-in to home hi-fi hardware.

To go into detail about the operation of the Dolby system would take many pages of space, but in principle Dolby first examined how every stage of the recording process adds noise to the signal, and then researched into methods of reducing this noise. The Dolby system acquires information about the signal characteristics prior to recording, modifies levels in a frequency-dependent way during non-masking passages to raise them





▲ Triad desk awaiting delivery.

above the noise, and restores original levels during playback, reducing noise at the same time.

TRAD 149b St. Alban's Road is where Trad have opened their new showrooms. Started back in '74 Trad are the specialists in second hand equipment, offering a virtually unique service. If you've got an 8 channel mixer and are looking for a 16—look no further. Trad will find you one, and take your 8 in part exchange. Can't be bad, eh?

Trad also handle new equipment too, so there are all sorts of possible deals you could get together. Names that Trad are particularly well-conversant with include Studer, Ampex, MCI, Revox and Teac tape machines, and Neve, Trident, Helios, MCI, API and Audio Developments mixers. Also handled by Trad are all the outboard gear — equalisers, mics, cans etc.

CALREC

Calrec Audio, operating from Hebden Bridge in Yorkshire, are better known for their studio and broadcast mixing desks than they are for their excellent range of capacitor and dynamic microphones. The mixers are used extensively in the broadcasting field for both television and radio work, as well as being found in some of the better music recording studios.

For those who still believe broadcasting studios to be filled with prewar hardware, Calrec's equipment would come as a surprise! Recently installed in the BBC's Glasgow department is a 44 channel desk into 8 main plus eight sub-groups — and Calrec also produce sophisticated outside broadcast facilities. Some of the lessons learned in this field have paid off in the music field — Calrec specialise in custom shapes — and in many studios today where space is limited Calrec have been doing the electronic plumbing.

SCENIC SOUNDS

Scenic Sounds distribute dbx noise reducing systems as well as being main agents for Harrison recording consoles. Harrison desks are available with formats ranging from 16 in and 16 out through to 40 in and 32 out. Additionally Scenic handle the Allison Research 'Memories Little Helper Automated Mixdown System Mkll' and all input levels, group master and quad master on the console can be controlled simply by connecting the Allison programmer

In the noise reduction field dbx are making substantial advances — and their four channel unit, the Model 154 is ideal for use with the semi-professional recording equipment produced by manufacturers such as TEAC and Dokorder. The dbx system reduces noise levels by 30db and can increase the overload margin of the recorder by 10db. Excellent equipment at a very reasonable price.

ITA

Amongst the products of this company is the ITAM 805 8-channel master recorder. The 805 uses 1/2" tape and its mechanics are based around the classic 3-motor design, controlled by relay solenoid logic. To give the deck as much stability as possible, it is encased in 1" thick material. Wow and flutter is kept to a minimum with the Servo controlled capstan, and variable capstan speed adds to its creative possibilities. The electronics are the same as those fitted to the 16- and 24-track models. Each channel has its own synthesized 100kHz bias oscillator, which allows the tape operator to drop in and out of re-



Continued on page 80

cording. The 805 is amply suited to track bouncing.

A 10/4 mixer with three-way eq, limiters, echo, foldback, panning and monitoring is also offered by ITAM. The modular construction of this desk makes for ease of servicing.

The firm also distribute TEAC, Otem, Dokorder and Revox tape machines.

SHURE

Show us a studio without a Shure microphone somewhere on the premises and we'll show you . . . well, you must know what we mean. Shure mics. have been accepted as industry standards (an ubiquitous phrase but perfectly honest) for a long time now — both for live work and studio use. The recently introduced PE52 close-talking mic cuts out all noise originating further away than 1" from the mic ensuring total cut-out of surrounding instruments. Filters excluding wind, breath and pop are also provided.

Another recent model is the E-Qualidyne which has four body switches activating attentuation filters in areas of the audio spectrum that are susceptible to feedback. They also allow the user to change the mic characteristics from bright to mellow and can also dispense with annoying boom or sibilance. Obviously Shure have many, many other models which find studio use as well as stage use — all of which are manufactured to the same high standards.

CADAC

Recently chosen by Jethro Tull to supply them with a 32-channel transportable console with sub-grouping (see last December's Beat) Cadac are manufacturers of high quality mixers, ranging from the largest in multi-track and quad to compact and portable units designed to offer equally high standards on the road as in the studio. The "E" series of boards is basically designed for 16 in, 8 out, with monitor channels and variations ranging from 8-2-2 to 32-



2600 Super High Power Amplifier from SAE.

32-32, depending on requirements. Facilities include mic and line inputs, five band eq, stereo panning and two auxiliary groups which can be used for echo or for foldback.

The larger quad boards by Cadac are based around 'Q' modules. Their features include monitoring channels with monitor group outputs, comprehensive routing, phantom echo send, sync to foldback and monitors in fact the list of facilities is virtually endless. But we should mention the Quadrapots—two independent controls which pan left to right and front to back.

MARTIN AUDIO

Dave Martin is more renowned for supplying live PA than for his work in supplying recording studios. His excellent monitors have, however, found favour with a number of studios, and amongst them is Relight Studios in Hölland, which Beat found so impressive last July. Dave is also agent for the professional HH S500D stereo power amp which has a maximum output of 450 watts per channel.

MUSIC LAB

Up until now the Music Lab has supplied recording studios solely, but are now pleased to announce that thev are ready to supply professional audio equipment to bands and musicians in general. They can supply from stock a full range of 4- and 8-track recorders by Brennel, Tascam, Otari, Teac, and the full range of Revox recorders. Also in stock is a full range of Tannoy and JBL monitors and chassis units. All mixers by Allen and Heath, Tascam, Alice and Lamb, and Nurse reduction units, echo units and special effects can be had, as well as a large number of microphones. Yet still the list goes on: power amps by Amcrom, Revox and Harmon Kardon, and a whole host of accessories - jack plugs, switches, etc.

Instant service and repair is offered on Revox and Teac recorders. A tape copying service on both cassette and open reel, plus a mail order operation throughout Europe completes the long and surprising list of Music Lab's concerns.

MACINNES

It's rare that one company is associated so successfully in two sides of the studio business, but Macinnes, as manufacturers of mixing consoles themselves, and as distributors of the Amcron range of power amplifiers, deserve that distinction. We can hardly believe that there is anyone left who doesn't know of Amcron's reputation in the studio world — a simple glance at a few past issues of Beat around the Studio Spotlight pages should explain — but briefly Amcron are just about the studio amps.

The DC300A can be seen stacked in studios everywhere — and is so reliable and rugged that few of the major bands in the world — and by major we mean The Stones, Floyd, Jethro etc — don't use them either. They're just that kind of amp. Macinnes' involvement in studio desks is more recent, however, and they manufacture a 16/2 and a 16/4 desk for both small studio and PA work. The consoles feature two echo sends, two foldback and all the other facilities you'd expect from a high quality desk. Good stuff, this!

ROGER SQUIRE

The name of Roger Squire may be better known for excellent disco equipment (yes, Beat did say ex-

Continued on page 82

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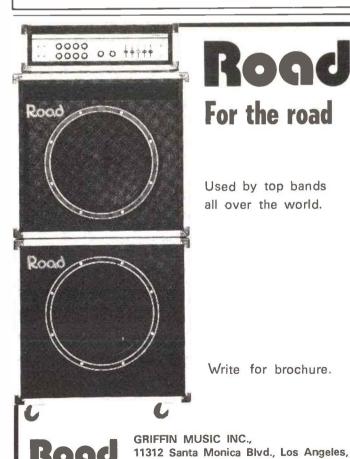
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modular P.C. board construction throughout, for easy servicing heavy duty steel chassis with industrial black finish and white/pale green silk screening

POWER SPECIFICATIONS: Tested at 500Hz

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8	225	210
16	120	110

Distortion — typically less than .05% at all power levels

Bandwidth — 5Hz - 30KHz

Sensitivity -1.25 V RMS for 200 watts into 8 ohm Weight -45lbs.

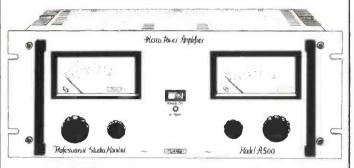
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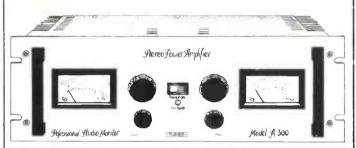
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- TURNER-

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Model A300—the studio standard—provides 100 watts per channel into 8 ohms (150 watts per channel into 4 ohms). As supplied to leading recording studios.



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Technical literature available:

A300 specifications A500 reviewed A300 reviewed

Turner Electronic Ind. Ltd.

175 Uxbridge Road, London W7 3TH 01-567 8472 cellent disco equipment) but Roger also runs a Studio Division from St. John's Wood. About two years ago he started selling inexpensive mixers, studio mics., cartridge machines for spot effects and various other accsssories, and in the intervening years has built up this side of the business quite extensively.

Squire markets the famous Allen & Heath Minimixer (see elsewhere in this survey), but one of the more interesting products is the new \$5000 Cartridge player which provides the convenience of cartridges with virtually the same fidelity as a good semi-pro recorder. The cartridge player also features varispeed control. Squires also exclusively stocks the famous Anglepoise microphone arm.

Midas consoles are as well equipped as any in the business, offering all the accepted facilities with regard to echo sends, foldback, e.q., monitoring etc. One of Midas' more famed installations in Relight Studios in Holland is a 32 in 24 track desk with channel routing via 24 independent illuminated push buttons, and eight auxiliary echo/fold-back sends parametric agustications.

available in a choice of 6 modules of

standard input, with variable main

arrangements from 4 into 2 through

configurations

12-4, 16-8, 24-16 and 32-16.

consoles

to

input/output

studio/broadcast

frame

commodate

back sends, parametric equalisation, 4 independent output groups for quad panning, and a preprogrammable automuting system. All in all, a fierce one this desk!

VITAVOX

Vitavox are manufacturers of a wide range of horns. drivers and crossover units for an even wider range of applications - from war-ships' intercom systems to huge domestic speakers, and from underground tube stations to ultrapowerful PA enclosures. We know for sure that there are some studios around with custom built monitors in the control room who have used the excellent 15" AK 156 for its rich bass tones, and the S3 driver which gives exceptional sensitivity and high power

MIDAS

If we had to pick out a star in this month's survey Midas would probably take the honours — we urge you to read Nigel Jopson's article 'Floydophonic' in which he examines the working of the new Floyd road desk supplied by Midas. Of course, this desk is for PA work, but we think you'll agree it's specification ranks amongst the best in the studio world! Midas

NEVE

Without doubt Rupert Neve & Co. are members of the top echelon of studio equipment suppliers, their desks being found in many of the best respected and extensively equipped control rooms all around the world. Always in the forefront of technical developments, Neve have recently installed the first automated NECAM console in Air Studios (see last month's Beat). Neve manufacture all kinds of desks with all kinds of applications including a number of small portable consoles — 10 channel jobs — which we have seen installed in a few 'home studios'.

But undoubtedly Neve's reputation has been greatly enhanced by the computer assisted mixing system which will store and recall as many mixes as the engineer requires, allowing combinations of different sections from each of 24 tracks with different mixes, without touching the master tape or losing the original memorised information. A real winner of a system about which we will no doubt hear a great deal more.

Continued on page 84

Control panel of Citronic's new SMP 506 mixer which offers studio quality performance and facilities at a competitive price.



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MCI

MCI are manufacturers and suppliers of the real heavy stuff - the 24 track studio recording machines and the big mixing desks. They have recently supplied CBS with a monster of a desk - 42 inputs and 32 output groups, already wired for computer-assistance, and featuring a unique metering bank. The bar graph metering is switchable instantly to PPM, VU or to two 21 band spectrum analysers, or can be switched to read the DC levels on the VCA and each channel has a VCA for the level control function which uses a linear four inch conductive plastic fader. Another mind blower is the EQ sections four basic adjustment areas which can produce over 140 million different combinations!

The MCI 24 track is becoming something of a thorn in the side of 'more established' makes as it appears to score quite heavily in the simplicity stakes while still offering similar facilities. And simplicity at this level doesn't mean your mother could get a minute steak together on it — it means that there are fewer mechanical complications which leads to increased reliability over long service periods.

SOUNDCRAFT

Soundcraft have been in the mixer market for some time now and are particular friends of those looking to set up a high quality studio outfit at lower costs. Soundcraft's range of Series 2 mixers, originally conceived as a middle-budget way to 4 track studio mixing, has been improved and developed and is now a recommended way to start off on the long road to multi channel facilities. With Soundcraft, though, this is not the awesome task it may appear. The mixer is divided into a number of panel sections which can be assembled in a number of combinations with any number of input channels (in multiples of four) with either 4 or 8 output groups routable to 8 or 16 track.

If we're making it sound a little simple, listen to the spec: each channel features Panny & Giles conductive plastic fader, push button routing to pair output groups via pan control, LED overload indicator, four cue sends in pairs, pre/post switching, line input and 20db pad buttons and gain control, and push button for direct routing to left and right re-mix busses.

TURNER

Turner Electronic Industries produce a range of equipment that covers power amps., modular and non-modular mixing consoles, P.A. speaker cabinets and electronic crossovers. Their power amps can hardly need any introduction from us, enjoying, as they do, one of the highest reputations in the business, and having been supplied to such bastions of the recording world as



Lansdowne, Air, and Wessex. They range from 100 to 500 watts and obviously have uses outside the strict confines of the acoustic walls.

The fully modular mixer is available with an unlimited number of input, output and effect send

modules with the main frames being constructed for each individual board.

The non-modular range of mixers, although designed for live mixing, can be equally at home in a mobile studio — the TPS 16/2 has 16 chan-

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346 Clapham Road London SW9 Telephone 01-720 1111 Telex 919109 Cable Dolbylabs London nels, stereo sub-group, stereo master, stereo 3 band crossover, auxiliary stereo outlet, 2 foldbackecho systems, audio and visual monitoring, and is packed into a rugged flightcase.

CETEC (GAUSS)

Gauss speakers are amongst the very best in the world, and are thus in considerable demand in studio monitoring, where high fidelity is more important than power handling. Cetec do not actually supply cabinets for their speakers, however, and this means that the purchaser is free to make whatever use of the speakers he sees fit. Gauss speakers have a unique double spider system for precision centring of the voice coil. This guarantees voice coil alignment in the gap during high power applications at all frequencies. Other features are the 18 1/2 lb magnetic assembly and 41/2 lb alnico magnet, all of which help its high efficiency.

ZOOT HORN

A recent addition to the Zoot Horn range is a brand new four way full frequency enclosure which has done its field work in Germany. Aimed at the general public address, disco and monitoring markets the FF1 uses four passive crossovers and includes 2×12" ATC bass drivers, 1×12" lower midrange driver, 2×5" high mid range drivers and an Electrovoice tweeter.

With a frequency response extending from 40 to 20K the speaker has a startlingly clear reproduction which could start nibbling at the more usual names in the monitoring field before too long.

CANADIAN INSTRUMENTS

Canadian Instruments and Electronics of Nottingham, appointed

sole concessioniare for the Turner Division of the Conrac Corporation produce a number of mics which have been making their presence felt in several studios up and down the country. Versions of the 750 desk mic have been adopted by many major sound companies while their entertainment mics (the TC series) is gaining wide respect in the live field. Mics for all applications and budgets are available and further info from 35 Waverly Street, Nottingham.

CANARY

Canary equipment hardly needs any introduction in a survey of this kind, their desks having been installed in many of the country's best respected professional studios for many years. Perhaps it would be more informative then to concentrate on one of the smaller desks which could have more applications in the smaller studios that are continually springing up around the country.

The Canary 10/4 is aimed primarily for home use in coniunction with a four track tape machine — which, after all, is the basic requirement of a studio — and has been designed to give maximum flexibility provides one foldback for studio monitoring and overdubs, one echo send and two monitor sends for the balance engineer to listen to pre-fade listen, foldback echo return or the four lines mixed through another small four channel monitor pan mix. The master section has four master foldback outputs echo send and echo return slider.

Surprisingly the 10/4 is commonly used successfully as an on stage monitor mixer giving six individually adjustable outputs. Canary also produce a 12/2, 12/2, 15/2 and 18/2 mixers as well as 400 watt amps and crossovers.

Next month Beat looks at the floorspace on stage — and in particular the large number of effects pedals on offer from around the world. We'll also be putting the amplification industry under the microscope, and detailing the more important products available.







KEITH CHRISTMAS-

Songwriting for the Human Zoo

month's songor this writer interview chose a writer who has been around for a good many years without really achieving major success in any particular market. That said, however, his is the sort of name that never fails to 'ring bells' whenever it crops up in a music conversation. Keith Christmas had established himself as a singersongwriter long before the phrase became fashionable and with that experience in mind Beat dropped in on him to ask perhaps the two most basic questions: how and why do you write songs? We started with how?

"Great question." Keith replied, "try me with a couple of others while I think that one over." Well, Beat went straight in with the second: "Why?"

"Writing is just like creating — it's not something that everybody has. I think it has to be genetic, so I think that you're born with it. You're born with creativity — everyone has it to a small degree, some more than others. I like to see children dance, for example. If children come from a family that listen to music a lot they tend to dance very naturally; but others have it repressed out of them. Creativity is much the same as that.

"You have your golden periods — it's not a constant thing through your life; and that leads you into 'how' do you write. You search, sometimes, for idyllic places to write in, and find that in some of the worst places you were ever in your life you wrote your best material or the worst situations you were ever in."

Just as Beat was about to repeat the first question Keith continued rhetorically: "How do you write a song! . . . Well, at first I thought it was pure inspiration, that you could do what you liked all day and then wait for it to strike. But that's not quite true, as there's another side to it as well: you have to sit down and work at it. There's got to be an element of discipline in it, as you have to sit and trigger something off in your head. You can sit and work at it all day and night and just when you think it's a waste of

time something begins to happen. But through the actual structure of the song you have to use a lot of discipline in how you're going to phrase the song — verse, chorus, verse, chorus, middle eight, verse chorus is fairly usual.

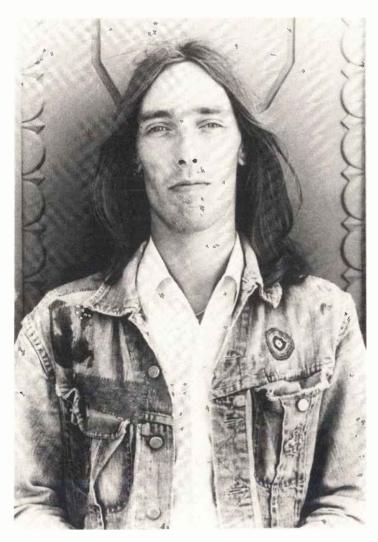
"But there are all kinds of songs - some you think of the words first and they go on paper and you find a melody to fit; some you think of the melody first, and you have it buzzing through your head for a long time before you fit words to it; some, you get a piece of a song which hangs around for anything up to a year - and that's a piece of advice for songwriters: 'don't throw away any of your bits' because the bits may appear rubbish but there could be a golden nugget in there somewhere." On this point Beat asked has he changed his own opinion of earlier material?

"I get no satisfaction from listening to early songs — it may just be because no-one does, or because I've not yet written my 'great song' — because when you're writing you're always looking for that one, great song. And a great song is one that everyone loves — it doesn't matter whether you think it's crap, it's the people out there.

"Still, I suppose you can cut down the songwriter's job into two distinct sections. There's the hard work, the polishing, recording, you know, all that side of it, and then there's the inspiration — and nothing, nothing can quantify the inspiration: there's no way you can put that into a few words.

"To me, it's that moment when I look at two lines and I know I've got a song, and when that happens I feel a complete rush of excitement like nothing I can describe, about on a par with the best orgasm, a mental hit — and that's the sort of hit I get which can keep me buzzing for a couple of days; after that it's gone, but the actual hit when you first know you've got a song, whether it's a good or a bad one, is quite extraordinary."

One of the dangers here, of course, is the ugly threat of plagiarism, because that moment when you know you've got a song can all too easily be



that moment when you don't know you've got someone else's! How wary of influences is Keith?

"You always have a decision, as a writer, when you're plagiarising something, and when you're not. Sometimes it's a very thin line. I mean, I think George Harrison was very unlucky to get done for that especially as a lot of people have done a lot worse. You have a line in your head which you think is totally original and play it to somebody who will tell you you've cribbed it completely that's when you're influenced by somebody else. But at that point I have to drop it, if only because I can't live with a line ostensibly written by someone

else. But you do cut things close sometimes, but as long as there are a couple of notes different I'll usually let it go through.

"Sometimes it works to go up three semi-tones, and sometimes it doesn't. Sometimes it works to go from a major to a minor on one line, and again, sometimes it doesn't, but that's what makes it a craft as well as an inspiration. You learn certain rules as you go along."

The 'going along' in fact physically meant staggering back from a public house in Shepherds Market and falling into Keith's publicity office to recline on the floor and seriously

Continued on page 89



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KEITH CHRISTMAS

wonder at the wisdom of continuing. Keith came to the rescue. Looking Beat straight in the eye he asked if we'd get back to the office and wish we had asked any further questions. "What about collaboration" he volunteered.

"What about it?"

"Well, most of the stuff you tend to write on your own, but there come these golden times when you find you can work with someone else; and if you can work with someone else you can more than double your output, I'm sure of it. When you've found the right person they'll just sit back and let you spin your dreams for half an hour and they'll just put in that one piece you needed. But, if you look at the bands, all of them prove that the output is far in excess of the sum total of the individual units. All these solo albums from band members — they don't make it on the same scale.

But a writing collaboration is a wonderful thing — so if it's got less of you in it, it's got more of what the public want in it — then that's absolutely all that's necessary. I mean you don't

count as a writer. As an arbiter of public taste, as a writer, you do not count. It's not your opinion." We asked finally what aspect of his life as a performing artist was the most difficult.

"If I had to say what the hardest thing is, I'd have to say it was writing. It's the only thing in my musical career, in my whole musical spectrum, that I equate hard work. Rehearsals probably come a close second ... musicianship is fairly important, but not vital. The vital thing always is emotion . . . you see, you're talking about two things when you're talking about writing: you're talking about the way that a writer writes a song, and then the way the singer interprets it. So the singer who sings it has put his own amount of passion, his own amount of feeling into the lyrics and he has created something beautiful — so it's the Singer as well as the Song." . . . to coin a phrase.

Well, we had to move on — try and listen to Keith's most recent album, 'Stories from the Human Zoo' — it's well worth a spin and, from a songwriter's point of view, in some of the songs you can almost imagine the point at which Keith, as he puts it, experiences that 'best orgasm'.





PAUL GURVITZ'S GUITAR-

Shaping up with a Butterfly Bass

ustom built guitars in weird and wonderful weird shapes are nothing new. Pop bands like Mud and Sweet have been using heart shaped and star shaped ones for years. But it's rare to find a design that's attractive, tasteful and built as an instrument to be played, not just flashed around on stage. It's even rarer when the guitar is a bass, where the problem of weight is so much more acute. It was the health problems that Paul Gurvitz's Fender was causing him that forced him into drawing up plans for a new instrument.

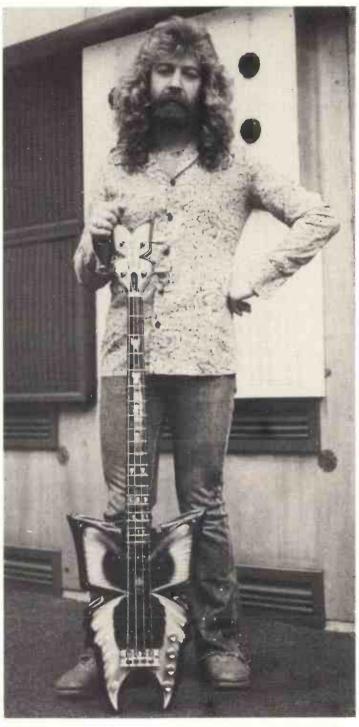
"My Fender was a maple guitar with a gold-plated metal scratch plate, and it weighed a ton. I was always getting bad necks and in the end the doctor advised me to get a lighter instrument. I wanted one that would not only sound good but look good, too. Whatever it was, I planned to copy the neck from another Fender I got in the States, which had a particularly slim neck. I need a narrow neck as I've got small fingers.

Adapt

"I didn't plan to have a guitar shaped like a butterfly. It all started with a crazy idea I got one evening when I was looking through a book of butterfly pictures at home. I mentioned it to Joe Petagno" — the artist who designed the last Baker-Gurvitz album sleeve, and many others for Paul's previous bands "and we picked a butterfly from the book. He knew nothing about guitars or how the neck should be angled or anything, and he just drew out a cardboard rough, cut it out and held it up against me to get the right size. We found the shape we'd picked was all wrong for a guitar and we had to adapt it, making the lower pair of wings longer and narrower.

"As I'd been working with fretless basses for a while, I thought at first of having this one fretless, but I changed my mind. It was difficult to get the number of frets I wanted without a cutaway neck, but we managed to design the guitar to overcome that problem.

"It was built by a guy called Robbie Gladwell, who works for Gibson in Braintree and services all our Gibson guitars for us. I'd always been a Fender man, but



Robbie decided to incorporate features from both Gibson and Fender as an experiment. The neck is copied from the slimnecked Fender I mentioned earlier, and the bridge is from the Gibson EB3. All the knobs, etc., are Gibson. The guitar was constructed in two pieces with a rosewood neck and mahogany

body. Robbie cut it all out himself by hand, using different sizes of saws to get the basic shape.

"The next problem was over the balance. We fixed the strap holders in the normal position, I hung it round my neck and the head promptly fell towards the floor. We hung drums and roller skated on it in an attempt to find out where the right balancing point was. In the end it was my old lady who solved the problem by suggesting that we hung the strap on the middle, which turned out to be the right place for it.

"I had to plan the position of the pick-ups very carefully. I've got a Fender jazz pick-up right under the bridge, so I can make the sound trebly and cutting if I want to. I tried ordinary guitar jack sockets at first, Canons changed to arranged the wiring so that there's one lead for the Precision pick-ups with regular wiring, then separate leads for recording purposes, which go into two D.I. channels. I only need mono on stage so I've got just one switch to convert from mono to stereo.

Originally I was going to carry the butterfly idea right through by having the neck looking like the whole thing coming out of its shell — the back is painted to look like a cocoon. However, it was all taking much too long, so we hit on the idea of putting the eighteen little gold-plated butterflies down the neck instead.

"My fingers were having difficulty getting used to frets again, so we used very low profile fret wire so that I can't feel it. The strings are Rotosound. We've paid really great attention to every detail, even going so far as to have the back plate fastening with Velcro. All in all, it's taken a year to make, and we're still making minor adjustments.

"Joe used water-based paint. He covered the whole thing over in white first, so he could see what he was doing, then airbrushed in the design and lacquered it. I think the colours, the shades of green, are really subtle. I particularly like the way they are faded into the natural black of the wood at the edges, which makes the whole thing look much smaller from a distance.

"It's already my favourite for playing and I've used it on a couple of tracks on the new Baker-Gurvitz album, which will be released some time early in the spring. We've taken out a patent on the guitar design and we hope to market Butterfly guitars some time in the future, though we haven't got the marketing plans organised yet."

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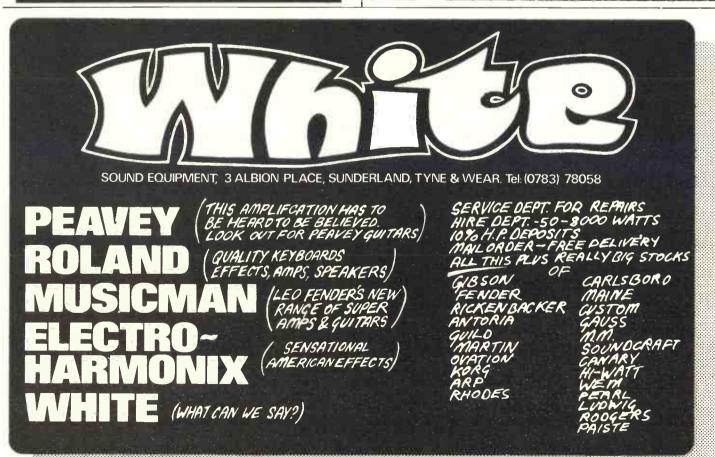
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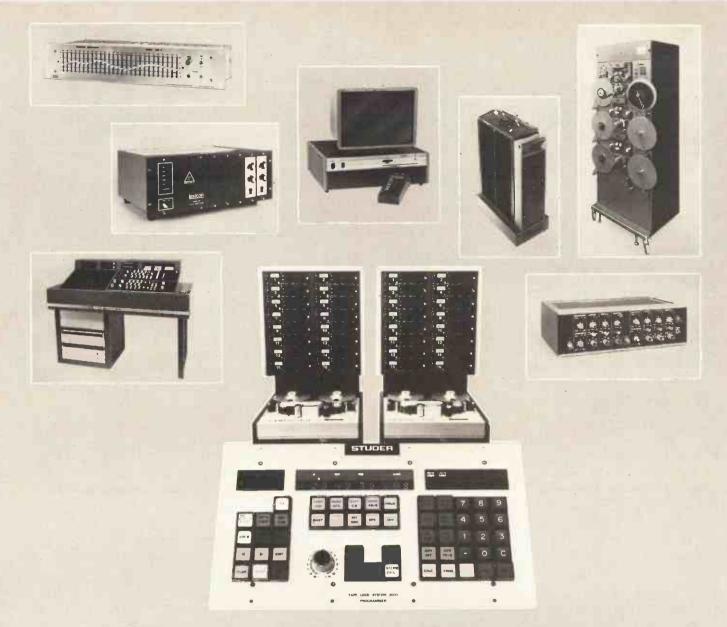
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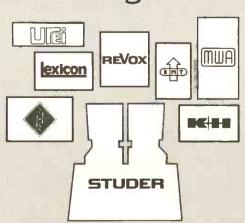
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SOUND PAD

t must have something to do with the time of year, but it seems that every time Beat dons its travelling gear to head northwards to visit a Top Shop the heavens open, the motorways flood, the rail system suf-

fers an incurable case of frozen points, and England manage to extracate themselves from a precarious position at the end of the first innings. There just might be a case for a spotlight on Bahama Strings in down-

town Nassau!

This month Beat set out for Sound Pad in Leicester's London Road, arriving to find a string of reps downing coffee and burning up the Embassy packets while waiting for Graham Pell, partner in the firm, to sort out the problems of a Gibson acoustic which had somehow found its way under the feet of a passing nymph. It's that sort of shop though — even Beat had to take its turn as Graham made personally certain the customer came first. Eventually it turned out that there were so many customers that Graham's wife Eve was detailed to take Beat up the road for lunch and an initial chat.

Sound Pad first started trading back in 1972 off the back of a successful band from the area, and two of its members are still connected with the company. Graham and his wife Eve were there at the beginning operating from a smallish shop in what is now one of the seamier parts of the city.

"There was no passing trade at all. All our business had to come via word of mouth or a little bit of advertising we were into at the time. And our facilities weren't particularly amazing."Eve told us. "But we did find that we were filling a gaping hole in the Leicester market because, despite the fact that the city was and is well

catered for by music instrument shops, there just didn't seem to be anybody interested in the band equipment scene." A quick tour around the city bore this out — there is quite a variety of shops selling brass, woodwind and pianos and organs with the odd guitar or amp stacked amongst shelves or tenor recorders and tambourines, but there didn't appear to be another specialist shop of the calibre of Sound Pad.

"The time came though in mid '75 when we simply had to move. It was impossible to get into the shop itself and we were using the living space above as stock rooms, drum rooms everything." Sound Pad was fortunate then to pick up the lease on some premises in a prime position in London Road. one of the main arteries leading in and out of the city, and situated only a long stone's throw from the thriving and expanding University where a healthy proportion of the present business originates.

Atmosphere

Although it's not the biggest shop in the world, Graham has maximised the space available and completed a really great decoration job. The shop is divided into separate areas by brightly painted scaffolding shelving giving a busy feel and about the custom more later while maintaining a sense of privacy as you browse around. atmosphere is simply superb and Beat found it very easy to understand why so many of you out there have recommended this shop for our investigation.

"When we moved we were very worried we might lose the atmosphere we had built up" Graham explained. "There was a coffee machine in the old shop and the local musicians would just drop in for the morning for a chat and to keep up with what was going on around and about — and we were aware that moving that sort of intangible feeling would be difficult. Fortunately for us the atmosphere and regulars moved with us" — although the coffee machine

stayed behind!

The shop is very well stocked indeed and while we were there shipments from HH and CBS poured in through the door to be swallowed up by Graham's extremely agile and accomplished staff.

Sound Pad hold sole agencies for a whole list of formidable



The shopfront with not only the instruments but price offers too.

manufacturers - Ampeg, Amcrom, Altec, Citronic, Yamaha, Orange, Custom Sound, Pearl, Martin, Ludwig and Music Man. (Pause for breath!) In addition they are main agents for Fender, Rhodes, Rogers, Gibson, Carlsbro, Guild, Crumar. Peavey, Hiwatt, Rickenbacker, Wem, SAL Simm's Watts (pause for second breath), AKG, Shure, Coloursound, Hayman, Beverly, CSL, Antoria, Ibanez, Vox, Arbiter, Premier, Roland, HH and Main.

Checking

"It may seen like a hell of a lot to have taken on" Graham "but it only needs a careful ordering and checking system to cope with it and we find it presents few problems in additionally, that area; provides anv potential customers with a choice they'd be hard pushed to find wandering the length of Shaftsbury Avenue, all under one roof." As can be seen from our pictures the choice of stock is indeed as large as is suggested by the list above including a comprehensive selection of drums which, despite the absence of an acoustic room, appear to sell well and quickly.

"Most of the people we get in here know what they're going for anyway — and it's the sort of shop where you can let rip for a couple of heavy splashes withour annoying anyone all that much" Ev says — and Beat agrees. While we were there we heard some pretty gruesome sounds — not, we hasten to add, due to faulty amps but more to faulty players!

Attitude

It's very easy to come across with the line 'the customer appears to come first at Sound Pad' but we can't stress the point strongly enough. As we explained in the opening paragraphs even the aweinspiring Beat representative was requested to 'hang on' a moment while a customer's problem was attended to - an attitude which we quite honestly applaud. Around the shop are several amusing management repeating this notices philosophy plus a couple of others which really do put over the feeling of the establishment: how about 'Prices can be raised to avoid embarrassment to the wealthy!'?

Amongst this vast stock there are a couple of lines we would like to pick out for special mentions - it's refreshing to see such a comprehensive selection of Martin acoustic guitars, for example. As someone who was brought up in the provinces I know what it's like to have the nearest Martin guitar one hundred miles away at the other end of the motorway - so Sound Pad have definitely made a good move not only to snaffle the Martin agency but to actually go to the bother of stocking them in numbers. "Surprisingly they go very quickly" Graham savs. there's no doubt they really are fine quitars and having the stock we're able to give a choice and time to let the customer get the feel of them."

There's also a good stock of Roland keyboards as well as a healthy turnover of second hand equipment which at the time of our visit include a couple of ARP synths.

How about service? "We've got our own service department downstairs" (we tripped down there past a pretty comprehensive selection of disco equipment which ranged from basic decks to the full blown systems inclusive of light, projectors amps and speakers) to find the service department where they undertake many inhouse repairs.

Demonstrate

Both Graham and Ev seem to have their fingers close to the button when it comes to discercustomers' their requirements, and both have a good knowledge of the sort of market that surrounds them. Their staff are knowledgeable and competent, and all, without exception, musicians able not only to sell but more than adequately demonstrate equipment. Fenders, Gibsons, Rickenbackers seem to take up the majority of the electric space, but pride of position goes couple of Yamaha SG2000's of which one of the staff whispered to me "I'd swap any Gibson for that with cash any day".

So, the time had come to pack and attempt the south-bound carriageway again, but we left knowing we'd visited one of the best music shops around — in stock, atmosphere and staff. Give them a visit — you could just make a couple of friends, or maybe a guitar. Either way, it's enjoyable.



▲ A customer looks ready to become a 'proud owner'.



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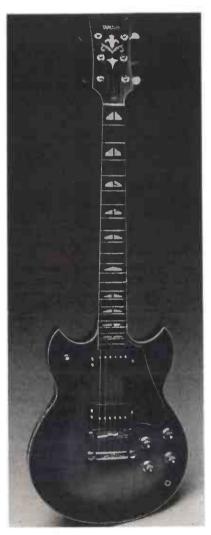
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SOUNDOUT LABS-

A look at some up and coming disco gear, but the opportunity's also there for live bands . . .

ike it or not, discos have become an integral part of the live music scene. More often than not the resting space between two heavy sets down at the local Working men's Club is now filled by a disco in preference to the traditional stand-up comic so we thought we'd take a closer look at one of the most successful manufacturers of high-quality disco equipment Soundout Laboratories. Another factor that influenced our choice is the fact that we've been coming across several of their speaker cabinets in a few bands' PA systems and have even spotted their slave amps powering monitors in a couple of studios. Additionally, while it can be argued that the initial spread of discos was responsible for the loss of a large number of potential live venues, many discos can now support a live performance and the continual expansion forecast by Soundout and other manufacturers promises provide further such venues.

So, how did Soundout start up? We visited their premises near Surbiton to talk to Dave Street, one half of the partnership. "We set off in business in early 1974 — Todd Wells (the other half) is an electronics engineer turned audio engineer, so he was able to turn his mind to the designs, and I have a long history as a salesman — it's the ideal partnership. He builds them, I sell them."

Gamble

Soundout originally inhabited some pretty cramped premises in Kingston, Surrey, from where they managed to build a successful business eventually supplying retail shops, major breweries and club interior contractors.

But Dave wasn't content. "I knew we could expand the business further — so we took the gamble of exhibiting at Frankfurt." Luckily — or predictably, the gamble paid off, resulting in substantial orders from America, Africa, Austria and West Germany.

From the beginning it was decided to build a better class of sound equipment with an electronic content geared to the rigours of club work. Other

manufacturers at the time — and many still — were incorporating standard hi-fi amplification which was never designed to operate at full power for long periods. Testing the new equipment included a marathon run by disc jockey Tony Santos at London's Gullivers Club where he ran a Soundout III continuously for 208 hours at full blast. Later, after a few adjustments, Santos repeated the experiment, this time running continuously for 720 hours without electronic or mechanical failure.

Space

Soundout exhibited again at Frankfurt in '75 and met with the same success, until early in '76 Dave and Todd found they just couldn't cope with the problems of space. Fortunately they found new, larger premises only two miles away in Surbiton — and they achieved the move without loss of production! Currently 50% of production goes abroard and it is estimated that 1977 will see a turnover increase in excess of 100%. So, they're obviously on the way — how did they achieve it?

"Well, it's down to reliability in the first instance I suppose. Although we have to buy in a lot of the components — for example the decks themselves, amp parts, speakers cabinets etc., we test them all and make certain modifications. We have four cabinet suppliers which protects us from delivery problems, and from quality hassles as well. We inspect all the decks, removing the

automatic return devices and making a couple of other adjustments to ensure reliability. All our amplifiers are supplied with overload protection circuits, and are tested to 4 times their rated output. All this is aimed at maintaining the already high standards of ruggedness and reliability."

The results of this care and attention are obvious. Soundout has found a big new market in America where it is still assumed that disco equipment contains hi-fi amps. Soundout have been able to produce 175 watt amps which are comparable with the most expensive hi-fi which are capable of producing equal noise figures when running flat out — and that's some achievement.

At Frankfurt this year Soundout exhibited their new 'Bionic Disco' for the first time. The disco is housed in a new fibreglass box incorporating two decks, and two 170 watt amps — available in white or signal red. This idea was originally aimed at a one-off production for special order, but even accomplished salesman Dave wasn't prepared for the redhot(!) potatoes he found he had.

Identity

"Orders have been amazing. Especially from Africa where we've managed to achieve the same sort of product identity that Hoover have with vacuum cleaners, or Biro with ball points. In West Africa people actually ask for a 'Soundout' when they require disco equipment!"

Soundout produce a four

channel microphone mixer amp, the M174. It has four low impedance inputs each with a 28db overload capacity eliminating all noticeable distortion, and incorporates their successful and established 170 watt amp — later this year Soundout will be launching a new 200 watt version also including the 28db overload facility.

Cleaner

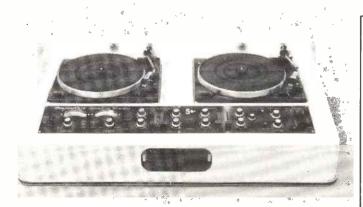
On the speaker side, Soundout have been lucky enough to be appointed the sole UK distributor for the Motorola range of Piezo Electric Tweeter speakers which has 5 superefficient models. Piezo horns are more efficient and lighter than conventional equivalents using Solid State devices requiring no crossover networks or attenuators. Having no moving parts or coils the transient response is greatly improved, producing a noticeably cleaner sound with very low distortion.

These are now incorporated into some of the cabinets also produced by Soundout — some of which we heard while visiting the factory. To say they're good and loud is to do them a real disservice — they're really good, clean and distortion-free — and powered by 170 watts (which simply has to be an under-estimate) they could knock a few heads off at three hundred yards!

Suitable

We came away knowing why some brands have started using these speakers and amps for PA use, and although Soundout don't really aim their equipment at this market, the fact remains it's eminently suitable.

So next time a disco opens in your area — don't feel put out of work. The chances are that the disco will want live bands as well, and it could be you could persuade the man in charge to let you use his equipment. You might sound a lot better!



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STUDIO MUD

K, so I know what I would do with a healthy cheque for advance publishing royalties, and I bet a few thoughts have crossed the minds of most punters with an eye on the road of fame and fortune. Couple of flash quitars, decent PA, sexy cars and low slung women. Right? Right, have a guess at the way Rob Davies and Ray Styles, lead and bass guitarists respectively with Mud, have disposed of their loot. Three hundred pairs of platform boots? Ten thousand metres of gold lamé material? A three legged racehorse? All wrong - by a mile. Rob and Ray invested money advanced by their music publishers Chappell in a small, private recording

Since the days of Chinnywhen Mud were Chap producing a string of manufactured hits destined for Radio One and TOTP - "what would you do if you'd been working the road for seven years and a guy comes along and promises to make you into stars?" - they have been trying to recapture some of the musical ideas they had as struggling musicians while maintaining the hit-making formula. For Rob and Ray, the band's two writers, success, in spite of many of the hassles of the earlier days has left a sweet taste. They moved from London's southern suburbs a little further south into the country into two detached houses with adjoining garages. The garages were then converted by a gang of friends and relations into a

small 8 track studio where they are able to work at whatever time of day or night they want without interruption, additional expense, and, most important, hassle.

Ray explains. "Before we moved here we had to plan our studio time - and that always meant travelling across south London to the place we regularly used, always having to make sure we were both free at the time - and whether the studio had the capacity to fit us in or not. And, of course, it got expensive. Our own studio seemed like the ideal solution and I know that we're very lucky to be in a situation like this: it's something all working bands would give a lot to have - we can hardly believe it's happened to us even now."

The garages have been split sideways on — so the wall between them divides the control room from the studio itself. Both rooms are very small — about 13' by 9' in the control room, and 15' by 9' in the studio, but the space has been specially well used, and, after all, it has been designed basically for Rob and Ray alone.

Both the desk and the main recorder are ITAM. The desk is very simple — 10 into 2 with one echo send per channel, and the tape is a professional 8 track. There's also a Revox which Rob and Ray use to mix down to stereo, or to hold for the basic rhythm tracks. For example, they'll record drums, bass, guitar etc. onto the eight track, mix it down to two, and start the

process again, thereby greatly increasing the small desk's capacity. Admittedly this practice wouldn't be found in professional recording studios, but Rob and Ray only use their studio for demos and developing ideas, and for that function it is admirably suitable. Why did they choose ITAM?

"Well, we've come across their gear many times in our career, and we've always been impressed by their simplicity and reliability. The desk (as can be seen from the picture) is not the most comprehensively equipped or the most cosmetically appealing, but as a combination of price, reliability and simplicity to use it's really fine. You must remember, after all, neither of us is a trained engineer, and we desperately wanted a desk which we could handle ourselves. The moment we started considering more complex equipment we realised it would destroy the availability of the studio in one stroke. It would have meant needing an engineer on call 24 hours a day.

"The reason we chose the tape machine was simply that we felt that a manufacturer who tackles both the mixer and the recorder must believe that ideally his products work best together — if you can't afford the best in separate hi-fi, for example, nine times out of ten you're better off going for an integral system from one manufacturer who has designed the components to mate with one another in the first place."

Monitoring is via a pair of JBL monitor's slung from the ceiling

powered by a Crown amp. Although a little close together for perfect stereo reproduction, they sound damn impressive in such a small room.

They looked at various professional patch boards before they decided the expense wasn't really justified, so they asked one of the band's roadies to come up with a usable board, and with some help from Rob's father-in-law a neat patchboard was installed for a fraction of the possible cost.

And cost, in a home-based operation like this - is of prime importance, as Rob explains. "The way we saw it was that we could spend thousands and thousands and end up with a professional studio for which we would have little justification. So we said we must spend the money available in direct relationship with the effectiveness of the end product and this is going to be very effective. For example, the next item is the DBX - "Now, DBX isn't as good as Dolby but for what we want, why should we pay out that amount of money when the DBX system is going to have the level of effect we require from this equipment?"

One of the most useful items available in the studio is a VSC drum box - a machine which plays 8 track tape cartridges of various drum rhythms. tracks are separable so portions of the rhythm can be lifted out and dropped in again at will, and in time. This machine has an astonishing range of beats, and sounds incredibly accurate. An. additional advantage is saving of space for a drum kit in the studio itself, and the cost of saving for miking the kit up. Again, the studio scores heavily on points of practicality.

The instrument side of things is reasonably well catered for -Ray is a guitar fanatic and has quite a selection of acoustic and electric six strings, as well as owning one of the most beautiful guitars I have ever seen or played. Pictured on the inner sleeve of the band's latest album 'It's better than working!' it's a hand-built, 12 string classical — a real collector's piece. Rob has a selection of basses but prefers his old faithful Fender Precision, although he has a John Birch 8 string bass, and I noticed in the sitting room of his home the Guild acoustic bass Beat tested in the December issue. So that's how to spend your hard-earned money intelligently and wisely. If you guessed wrong at the beginning you can wipe the Mud off your face now!!



Ray Styles (left) and Rob Davies show off their desk.



PYE STUDIOS

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BULLINAMINGVASE

cluttered bookings ledger at EMI's Abbey Road studios is nothing new, and so the flurry of activity there over the last month or so simply means business as usual. A Danish group by the name of Flair have been in, producing their own album with the help of a certain Mr Hank Marvin: a certain Mr Bruce Welch was also in, producing Stephanie de Sykes' latest offering, and no nostalgia of this sort is complete without Cliff himself, who dutifully turned up to record a gospel LP.

Roy Harper's album "Bullinamingvase" was finished at Abbey Road and his single with Peter Jenner was also laid down there. The band Gryphon completed the recording of their new album and remixed it, whilst Marmalade also remixed their forthcoming single.

Wings man Denny Laine was in recording his single, produced by Paul McCartney, and Macca has reaffirmed his faith in the EMI facilities by booking them over a period of four months for the next Wings chart-buster.

KUDDLES AND HANDEL

Craighall Studios in Edinburgh, after their extensive re-fit, have come back with a bang. Their 16-track recording facilities have been used by a number of Scottish artists, most of whom have yet to make their mark south o' the border. Elaine Simmonds, a former cabaret singer, has cut her first single for Polydor, whilst Stuart Anderson a 16-year-old accordianist who came third in the awards of the Independent Radio Club was in Craighall recording his second album of Scottish traditional music, mingled with his own compositions.

An all-girl pop group, composed of five nymphets aged between 17 and 20, have been laying down demo tracks in the hope that some record company may decide to "snap them up". For those interested, the group is called Kuddles. Lastly, the Craighall mobile has been up at Dunblane Cathedral, using its 8-track facilities to record some Handel organ concertos with choir and strings.



ROMANY ROCK AT LANSDOWNE

The schedule book at Lansdowne Studios has been full of interesting names in recent months. Mike Batt cropped up (as he always seems to) working on various projects, and Johnny Pearson — he of TOTP fame — was in putting down a solo piano album with the aid of Adrian Kerridge, who engineered. The Pennyfarthing label was represented by the

band Hunter (formerly known as Chopper) with Dave Baker engineering and Larry Page lending a hand. Singles man John Christie was also around, produced by Dave Clark.

A band of gypsies arrived not long ago to record an album of Hungarian traditional folk songs. The line-up was apparently two violins, viola string bass, two unidentified wood-

winds and something called a zimbolon. The producer was Peter Sander and the engineer Bob Butterworth. At the opposite end of the spectrum, Guys and Dolls came in to do some vocals, whilst Ben Cady recorded a single for MAM with Bob once more at the controls.

Finally, to bring us up to date, it should be mentioned that the S*x P*stols recorded their anarchic single at Lansdowne.

GLEN HUGHES INTO ISLAND

Glen Hughes, he of heavy metal fame, has been taking some time in Island Studios to finish off an album of his own for Purple Records with Brad Davies producing; exTraffickers Jim Capaldi and Steve Winwood have also been in recently — Jim to do his own album with Frank Owen engineering and Peter Sullivan producing, and Steve producing his with Phil Brown twiddling various knobs.

Fairport (the truncated version of Fairport Convention)

have laid down a new album with Howard Kilgour engineering, Nasty Pop have been in with Phil Ault, and Crawler — the sadly truncated version of Back Street Crawler — have done their album with Guy Bidmead on the controls.

Other visitors have been Phil Manzanera, Rough Diamond and Strapps. The Island Mobile was out at the Farmyard, Gerrands Cross, to record the next Camel LP (engineer: Rhett Davies) and they will be coming in later to mix it.



Billy Cobham cooks on 2





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STUDIO SPOTLICHT

PYE STUDIOS

ne of the more interesting features of studio delelopment over the past ten or fifteen years has been the syndrome of the rise and the fall of various operations. With the possible exception of EMI's redoubtable Abbey Road outfit, no one studio has, to my recollection, managed to be at the top throughout that timespan.

Why this sould be so is often a question of studio politics and the vagaries of music business fashion; one year XYZ studios is the place to be, the next nobody will touch it with a bargepole. Needless to say XYZ Studios has stayed much the same—it's just personal opinion that makes it a good or bad place to record or perhaps, being cynical, personal bias.

Ten years ago, Pye Studios, set in ATV House, Bryanston St. near Marble Arch, was one of those studios. Everyone who didn't record at Abbey Rd. (it seemed) used Pye. But times changed and Pye became less and less known for its work in the Rock and pop field, becoming, by a strange trick of fate, the 'Middle of the Road' operation. Most of those albums your mum loves and you hate are recorded at Pye.

But, down at Bryanston St., things are about to change once again because Studio Manager Howard Barrow and his lively team are about to unleash what promises to be a monster of a Rock studio on the World.

Howard takes up the Pye story. "Pye has always had a name for middle of the road. Up until three years ago nothing was being done to the studios, but we're changing all that — you used to walk in here and it was a joke — I'd be the first to admit that."

Pye's new number two studio is the beast that will change their reputation in the Rock game. It's a staggering development along the lines of the handful of modern British studios collaborated on by Tom Hindley of the Eastlake (formerly Westlake) company.

The new studio is every inch the way a modern Rock-orientated outfit should look. Deep pile brown carpet, subdued luxurious lighting (perfect when you're lumbered with an all-night mixing session) and a host of equipment chosen with particular care.

Highspot of the new operation is the desk, a CADAC with computer assistance (automated mixing to the vulgar). The reasons for the choice of the CADAC were simple, explained Howard.

"In the days of four track and eight track it was simple, the engineer only had to play with a limited number of variables. Now he has so many controls to handle that he has had to stop listening to the music during a difficult mix. He's only thinking about the purely physical aspects of handling the operation and he hardly hears the music until playback.

"As well as that factor there was the economic one. Record companies are no longer handing out £30,000 advances and there's no reason why you should have to wait half an hour for an engineer to plug something through. With the CADAC everything is possible by the flicking of a couple of switches."

Howard and his team are, in fact, obsessed with problems. Or perhaps we should say the removing of them. The whole operation has a religious attitude of getting it technically right first time.

"Our machines are set up at half past nine in the morning every day. One of our guys will start his rounds and everything will be set properly. If you apply that sort of regular maintenance then, when you put the test tape on, you know that everything will be as near perfect as it can be got."

Technical Manager Noel Jesuadian echoes Howard's point of view.

"You can't sell a studio by just saying what equipment it's got. You have to think about the people, the atmosphere and,

very importantly, the technical back-up. If the equipment all works and the tapes that leave the studio are technically good, then people will come back."

That attitude to technical excellence is not, needless to say, carried through to every studio in the world. Some are so proud of being 'laid back' that the technical reliability and performance parameters are ignored. At over £40 per hour you can no longer afford to ignore factors like that.

In some ways Pye have a distinct advantage over many other studios in that they are a very important centre for master disc cutting - a function for which their Chief Cutting Engineer Malcolm Davis is world famous. The whole subject of mastering is far too complex to go into in a short look at a studio but suffice it to say that Malcolm has the best equipment and some would say, the best pair of ears in the business to help him.

Where the disc cutting helps the recording side is that it enables an idea of what other studios turn out to be formed. It also gives a standard of reference by which their own new operation can be judged.

Malcolm, who was largely responsible for Apple's phenomenal success, is responsible for cutting many of the best albums and singles that your hear — regardless of the label they are on, or the studio they were recorded at. Cutting is vital, as he pointed out.

"You can destroy all the good work that's been done in the cutting stage and it's our job to make sure that the cut is as good as it can be got."

Evidence of his success can be found in fact that Pye are now frequently asked not just to make masters for Britain, but for overseas outlets as well

On the development side, we asked Howard to explain the differences between studio one (the MOR studio) and the new operation, and to what extent they have designed studio two to handle rock. How did the two approaches differ?

"Normally, with middle of the road, you'd record, say, six

songs in three hours, it's that fast. It's not that standards are lower, though, just that there is an accepted standard that is different in approach from Rock music. Recording middle of the road is like recording a big symphony orchestra, in that you record it to sound like a live situation, perhaps a cabaret where the singer is sitting in front of the orchestra.

"The Rock approach is where the two speakers are giving a sound which could only come off a piece of black plastic.

"Where the new studio differs is that we wanted to make a studio that wasn't too big. With electronic music you don't need a massive studio area. We also wanted an isolated area so that the sounds aren't all blended together.

"What we've done is make the desk so complicated that it can turn somersaults, which is what you need."

The facilities of the desk are quite phenomenal. It offers 44 channels in and 32 channels out and more facilities than one could possible go into in a general article.

Other equipment in Studio two comprises a Studer 24 track tape machine with other twin track and four track machines.

Studio One, is quite differently equipped. It has a Neve desk offering 26 inputs and 16 plus eight out with the ubiquitous Studer tape machines and the usual run of flangers, parametric equalisers, compressors, limiters — again, just about all you would ever need.

Monitors in studio one are four Tannoy/Lockwoods driven by Amcrons. Amcrons also drive the Eastlake designed monitors in Studio Two which contain J.B.L. units.

At the time of writing Studio Two had yet to be opened. In fact, work was still going on for the final stages of construction. To say that Studio Two is impressive in terms of appearance would be an understatement of the greatest kind. If it sounds half as good as it looks and the facilities suggest that it should be, then Pye have a winner on their hands.

MUSIC MART

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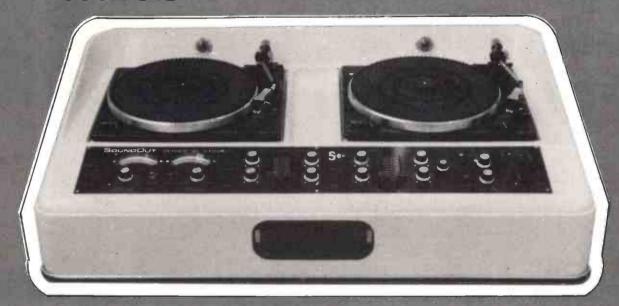
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PYE RECORDING STUDIOS, ATV House, Great Cumberland Place, London W1. 01-402 8114/7. RIVERSIDE RECORDING STUDIOS, 78 Church Path, (Fletcher Road), Chiswick, London W4. 01-994 3142

SPACEWARD SOUND SYSTEMS, 19 Victoria Street, Cambridge, CB1 1JP', 0223-64263 (Between 10 am and 2 pm)

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T.W. MUSIC, 211 Fulham Palace Road, London W6, 01-385 4630.

GOOSEBERRY STUDIOS, 19 Gerrard Street, London W1. 01-437 6255 01-734 2257

8 TRACK

BIRD SOUND STUDIOS, Kings Lane, Nr. Stratford-Upon-Avon, Warwicks. (0789) 85705 & (0789) 3081

COUNTDOWN SOUND STUDIO, 10 High Street, Manchester M4 1HQ. (061) 832 3339

DE WOLFE STUDIO, 84 Wardour Street, London W1V 3LF. 01-439 8481

FREE RANGE SOUND STUDIOS, 22 Tavistock Street, London WC2. 01-836 7608

IMPULSE ORGANISATION. 71 High Street East, Wallsend NE28 7RJ, Northumberland. Newcastle (0632) 624999

K.P.M. STUDIOS LTD., 21 Denmark Street, London WC2H 8NE. 01-836 6699

LEADER SOUND, 209 Rochdale Road, Greetland, Halifax, West Yorks. (04227) 6161

MILNER SOUND LIMITED, Studio 117c Fulham Road, London SW3. 01-589 6477

PLUTO STUDIOS, 3 Waterloo Road, Stockport, Cheshire SK1 3BD. (061) 477 0434

SUN RECORDING SERVICES LTD., 34-36 Crown Street, Reading, Berks. 0734 595647

4 TRACK

D.T.S. RECORDING, 16 The Broadway, Maidstone, Kent. (Maidstone) 670 326 & (Medway) 401 467

GATEWAY STUDIOS, 162a Balham High Road, London SW12, 01-673 7316

P.S.L. STUDIOS, 1a Salcott Road, London SW11. 01-223 2544 & 01-998 6088

SAMMA STUDIOS, 90 Lots Road, London SW10. 01-352 4136

SEPTEMBER SOUND STUDIOS, 38 Knowl Road, Golcar, Huddersfield. Tel: 0484 58895/6

MOBILE

JET MOBILE, 8 Bell Meadow, Sutton Road, Maidstone, Kent. Maidstone 57967

ISLAND MOBILE, 8-10 Basing Street, London W11. 01-229 1229 Telex: 12421

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IMPULSE ORGANISATION, 71 High Street East, Wallsend NE28 7RJ, Northumberland. Newcastle (0632) 624999

LOOK RECORDS LTD., 209 Denyvale Road, Wakefield, Yorks. 0924 79589

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DEMOS FOR SONGWRITERS (8 TRACK)

CARREA MUSIC, 46 Farndish Road, Irchester, Wellingborough, Northants. NN9 7EE. Rushden (09334) 56520

REHEARSAL STUDIOS

FARMYARD REHEARSAL STUDIOS White Line Road, Little Chalfont, Bucks. 02404 2912

MAURICE PLACQUET LTD., London Studio : 01-749 3232. Pinewood Studio : 0753 654571

RIDGE FARM STUDIOS, Capel. Nr. Dorking, Surrey. (0306) 711571/711202

SOUTH LONDON STUDIOS, Basement 5, Bridge Parade, Waddon Road, Croydon, Surrey. 01-668 3337 01-688 1056

TRACKS REHEARSAL STUDIO, 110 Churchfield Road, Acton, London W3. 01-993 0751 & 01-992 9061

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FENDER

FENDER SOUND HOUSE, 57/87 Hampstead Road, London NW1 01-388 7971/2.

SOUND PAD MUSIC CENTRE, 64 London Road, Leicester. (0533) 20760

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JOHNSON'S MUSIC (SOUNDAROUND LTD., 227 London Road, Sheffield. S24 NF (0742) 53127

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FLASHLIGHT & SOUND GmbH, Bussestrasse 11, 2000 Hamburg 60, West Germany. 010 494 05115527/68 Telex: 12421

RAINBOW PRODUCTIONS, 7/9 Wood Close, London E2, 01-739 7543

CONCERT SECURITY

STURICO, 17 London Mews, Paddington, London W2. Tel: 01-262 5478/9/0

WHOLESALERS

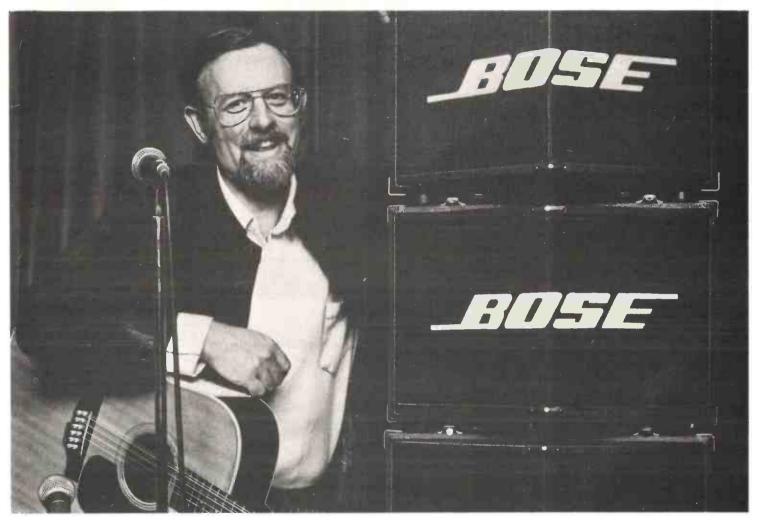
CLEARTONE MUSICAL INSTRUMENT LTD., 27 Legge Lane, Birmingham 1. (021) 236 6100

CBS/ARBITER, 57/87 Hampstead Road, London NW1. 01-388 7971/2

WOODS (PIANOS & ORGANS) LTD., 15/17 Manchester Road, Bolton BL2 1EH. (0204) 27171

To have your company listed, contact Howard Rosen, 01-242 1961

Roger Whittaker has the best backing group in the business.



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It gives him the kind of sound you'd

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Personal Ads

Would you like to buy or sell any musical instruments? Join, or find a member for, a group? Find a songwriting partner? If so, send your request to Personal Ads, Beat Instrumental Songwriting & Recording, 23 Ridgmount Street, London, WC1 and we'll do our best to include it as soon as possible. Remember, Personal Ads are completely FREE OF CHARGE!

BASS GUITARIST and drummer need guitarists and singer to form band of 1977. Rickenbacker, Orange and Premier gear, age 18-21. Personal tastes — Trapeze, UFO, Wishbone, Free. Must live in S. Yorks area. Large rehearsal room and storage available. No timewasters or pro's. Contact Steve on Barnsley 86161 ext. 370, office hours.

FOR SALE, Davoli 50-75 watts combo with new valves plus 12" Goodmans speaker, wheels. Very good condition. Controls include treble boost, variable tremolo. 2 inputs. V. good for vocals —v. clean, v. loud. Orig. cost £157. Apply J. Thyer, 4 Underwood Rd., Glastonbury, Somerset.

WANTED: Pink Floyd material, i.e. newspaper cuttings, features, reviews, photos, etc. Also required — Floyd LP's "In Celebration of the Comet", "Wembley '74" or other rarities in good condition. If you can help in any way please contact Jon Woodward, Church Green Cottage, High St., Stock, Essex.

LYRICIST would like to work with composer, preferably living in Berkshire area. Contact Elizabeth Smith, 103, Kennedy Drive, Pangbourne, Nr. Reading, Berks.

LEAD/RHYTHM GUITARIST with good equipment wants to join or form semi pro pop/rock/heavy group. Please contact Mick Woodward at 9 St. Paul's Street West, Burtonon-Trent, Staffordshire.

KILT NEED YOU! Interesting girls wanted, willing to learn bass or rhythm guitars. Please write to Jan and Kim, 107 Devereaux Cres., Ebley, Stroud, Glos. GL5 4PR. Kilt are aiming to appear on Opportunity Knocks so you must not be camera shv.

GUITARIST wants to join/form group, Deep Purple style if possible. Ring A. Jones, Cambridge 311859.

BEATLES LOOK OUT. I am an 18 year old amateur guitarist looking for males or females to form group. Interested? — contact me, Alan Seales, Flat 3, 11 East Dulwich Road, London SE22. What have you got to lose?

WANTED URGENTLY — pianist male or female aged between 16/20. Must be able to write music and must live in Birmingham area to team up as partner to write new style of music, songs etc. Please write to Steve Copeland, 147 Vardon Way, Kings Norton, Birmingham 38.

SONGWRITER/GUITARIST seeks same to form songwriting partnership. Must be serious writer. Write or call in, Rick, 45 Salmond Ave., Beaconside, Stafford, Staffs ST16 3QY or phone Stafford 3161 ext. 478 daytime.

ACOUSTIC GUITARIST/singer/songwriter wanted to form pro duo partnership. Enthusiasm and go necessary. Write to Andy Thomas, 1 Balcombe House, Streatharn Hill, London SW2 4AP.

RHYTHM/LEAD GUITARIST (16-17) seeks working band around Southampton area. Own gear Tele copy and Vox. Into Naz, Quo, early Bowie, Budgie — all medium rockers (no pops or soul). Ph. Romsey 513566 or home add: Mart. Othen, 48 Alma Road, Romsey SO5 8ED.

FOR SALE:— Carlsbro Stingray 130w amp top + Acoustic 301 type 1 × 18." folded horn bin f180. Carlsbro 200/7 channel PA amp £120, 2 × Simms Watts H100 RCF PA cabs £240 pair all in mint nick. Phone Steve on Barnsley 86161 ex, 370 office hours.

21 YEAR OLD girl singer wants to get into band, or to be a backing vocal. Into mostly pop/rock, can read music. Must live in Cornwall. All letters answered. Miss J. Thomas, 37 Murdoch Close, Redruth, Cornwall.

LYRIC WRITER who has 4 songs waiting to be set to music, and already has one of my songs in the hands of a publisher, is looking for a composer to form a songwriting partnership. Write to L. Elliot, 84 Bankes Road, Small Heath, Birmingham B10 9PS.

YOUNG GIRL LEARNER GUITARIST seeks teacher to help her learn to play guitar. Must be good teacher but mustn't charge high prices. Must live in Fareham/Hampshire area. Ring Wickham (Hants) 832871. Ask for Merit.

COMPOSER required to collaborate with lyricist. Margaret Bedi, 69 Burford Gardens, Palmers Green, London N13 4LR. AMATEUR DRUMMER would like to hear from others in Leeds area interested in forming group. Ring Andy, Leeds 664376 (no time wasters).

LEAD GUITARIST into wierd and original sounds and classic 'feel' rock, seeks others interested in forming band, or who might want me to join them. Offers to Adrian, 30 Berners Rd., Felixstowe, Suffolk or phone 5269.

BASIC LYRICS with corresponding tunes; anybody interested? Inspired by Bowie, Reed, Iggy Pop music.

ANYONE AGED 16-18 who can play organ or piano and can sing, to form up a duo with female vocalist aged 15. No pros please. I can also play rhythm guitar. Write Miss Y. Harwood, 12 Woodley Ave., Accrington, Lancs. Tel. no.

HAVE YOU GOT any items on Queen — live recordings, demos, autographs, imported records, bootleg albums etc. Please state prices. I also have a few concert souvenirs for sale on T Rex, Queen (programmes etc.). Please send SAE for list — Alan Dunn, 23 Borthwick Street, Ruchazie, Glasgow, G33 3UU, Scotland.

FOR SALE FAL Phase 50 amplifier and two speaker cabinets. First £50. No offers. Ring Kirbymoorside 31214 and leave phone number and message for lan Hodgson.



BEAT INSTRUMENTAL'S EQUIPMENT PRICE GUIDE

Please note that all recommended selling prices include the appropriate rate of VAT unless marked **EX VAT** alongside the manufacturer's name.

Whilst every effort is made to ensure that all prices listed are correct at the time of going to press, they may vary according to the sales policy of each individual retailer. We do advise you therefore to check with your local dealers before making any final decisions.

GUITARS

BALDWIN	Telecaster d/I	Blue Hill 12 62-17 SM8 Solid 80-13	2407 Twin Gemini 6/4	60SS	KENT N133 Classic
GRETSCH	Telecaster Custom 263-50 Telecaster Custom L/H 294-50	SM9 Solid	2376 Dixie Fireball bs 156-00 2386 Memphis ctm	Dobro Mandolin 200-00 HAWAIIAN 2390 Guitar only 38-50	N134 Jumbo
Fk, s/burst	Telecaster Custom m/neck 288-30	355 Bass	d/l	2391 Outfit 117-00	N137 Hummingbird . 30-23 N138 12-st
Sunvalley, s/burst 163-66 Sunvalley, natural 174-30	Telecaster Custom L/H m/neck 317-75	C.M.I.	2385 Clipper Ash bs . 171-00 2370 Semi-Ac Id 139-00	DAVOLI	SHELTONE
Rancher	Telecaster Std 240-25 Telecaster Std L/H 260-40	CMI Custom VI 109-96 SMI Custom IV 122-76	2371 Semi-Ac bs 141·00 2374 Semi-Ac Id 154·00		N5010 Folk banjo 50-88 N5015 Folk banjo
Supreme	Telecaster Std m/ neck 263-50	CMI Salisbury 109-96 SG2S 45-66	2395 Semi-Ac nat 132.00 2409B bs	Folk: MI600	w/cs
Clipper, s/burst 158-35 Double Anniversary,	Telecaster Std L/H m/neck 285-20	SG10B	2409BW bs	Jazz: M26034·00	N1124 Mandolin 15·14 N5017 Tenor banjo. 48·85
s/burst	Bronco	HASHIMOTO G100 38-73	2387CU Vulcan bs 210:00 2348 Phoenix 207:00	Western and Jumbo: M500	SATELLITE 65/T Solid 2 p/u 31·07 66/W Bass 2 p/u 33·33
Streamliner, cherry . 331-56 Country Club, s/ burst	Mustang L/H 178-25	G130	2617S Artist nat 231.00 2459 Venturer 222.00	M600. 51.00 M700. 60.00	66/W Bass 2 p/u 33·33
Country Club, nat 331-32 Viking, s/burst 441-74	Mustang m/neck 201-50 Mustang L/H m/neck 215-45	G200	2469 Vulcan II	M800NSF 47.00	G.M.S.
Viking, natural 457.71 White Falcon 613.39	Semi-acoustics: Telecaster Thinline 314-65		ANTORIA WESTERN	12-String: M1200	PICATO STRINGS (sets)
White Falcon, stereo 693-22 Roc Jet, porsche	Telecaster Thinline	J. T. COPPOCK	698E Gt. Western elec 104-50	M1250 (ac/elec) 58-00 M1300 57-00	ES77 elec
pumpkin	Starcaster+case 461.90 Basses:	*	684E Super Electric 121-00 698 Gt. Western jbo . 120-00	M1400NSF 58-00 Electric:	77 lt. gauge, elec 2.00 P750 med. gauge,
Roc Jet, red 250-17 Roc Jet, walnut 325-08	Jazz	ANTORIA 2355 Big Jack S.Ac.	698M Gt. Western maple	M6000	elec
Bass, mahogany 250-17 Tennessean, cherry. 347-76	Precision narrow	Sunburst	Black	M6600 Bass 105.00	735M Bass, round 5.43
Nashville, red 365-04 Country Gentleman,	neck	2357 Mt. Strad Violin Bs	d/l	FLETCHER,	wnd
walnut	Musicmaster	2350 Memphis Custom	684/12 Super Jumbo . 104·00 684BLK Black 97·00 683 Super Jumbo 85·00	COPPOCK &	736M Bass, nylon wnd
Super Chet, walnut 471 02 Super Chet, walnut. 534.88 Super Chet, red 534.88	Acoustics F.C. 10 ³ / ₄	2350 Memphis std 132.00 2350L Memphis std	684/6L Left-Hand 97-00 628/12 Californian	NEWMAN	738L Bass, flat wnd 5-43 738M Bass, flat wnd 4-90
SHO BRO	F.C. 10. 40·30 F.C. 20. 50·38 F.C. 30. 60·45	1/h	jumbo	KIMBARA ACOUSTIC N105 Classical 36-07	727 'Gold', Folk 2-23 P727 'Gold', C&W 3-22 P12 'Gold', 12-str 3-67
Hawaiian, 6-str 250·17 Hawaiian, 7-str 267·44 Spanish	F.C. 40	2351DX Memphis d/l 148 00 2351 Memphis Ori-	62 Bronco fk	N106 Classical 39-78 N169 Classical 43-99	76 'Gold', Classic 1.78
SHO-BUD	F 25 51·15 F 35 57·35	ginal	627L Left-Hand 72:00 642 Folk 144:00	N175 Classical 50-23 N29 Classical 57-18	CIUID
Steel guitars: 6138	F 45 58-90 F 55 12-string 71-30	2341 Memphis ctm d/l	670 12 str	N 108 Classical 78·24 N76 Classical w/cs 127·33	GUILD
6140	F 65 72.85 F 75 89.90	2337DX Memphis jun d/l	697 Tennesse 6 125·00 695 Nashville 6 92·00 758 Gt. Western	N30 Folk	AA Artist Award 1070·94 X-500 S-Ac 2 p/u 749·64 X-175 S-Ac 2 p/u 517·61
6153 783.00	F 85	2350 Memphis white. 144-00 2405 Custom 74 208-00	Artiste jumbo 100-00	N73 Jumbo 71·77 N107 12st 74·04	CE-100D S-Ac 2 p/u . 446·21 SF-6 Starfire Six 671·12
BOOSEY &	F 80	2451 Memphis Oldie. 190.00 2350B Memphis bs 143.00	952 Antoria Vintage	KIMBARA ELECTRICS N116 solid sun 135-11	SF-4 Starfire Four 410-52 SFB-2 Starfire Two Bs 374-85
HAWKES	CHAPPELL	2660 Memphis Vine 150.00 2458 Memphis Spcl 157.00 2351CH Memphis	684/6 Super Nash- ville 94.00	N117 solid nat	\$300 Solid 2 p/u 310-57 \$100-\$ Standard
DI GIORGIO (BRAZIL) No 16 Signorina 47-40	Classical:	Cherry		N121 solid nat 148-40 N124 Bass nat 150-67	Solid 2 p/u
No 28 Classico 56:90 No 36 Bel Som 87:00	C.100	2354 Woodstock 133.00 2354S Woodstock std 127.00	1904\$ Sunburst 2pu 82:00 1908 Bass 2pu 85:00	KIMBARA MAESTRO N141 Classical 94.45	S-90 Sclid Double p/u
No 30 Amazon 66·50 TAKEHARU	C.102 45.00 Steelstrung:	2345SL Left-Hand 135.00 2377 Woodstock pro 141.00	1940 Sunburst 3pu 91-00 1940W White 3pu 91-00	N143 Folk	M-75CS Solid 2 p/u 1 c/away 392.66
GT30A small 64·10 GT30B small 64·10	C.200	2383 Woodstock ctm 151 00 2338 Woodstock std. 106 00	1940 Ash 3pu 96-00 1941 Cherry Jun Ipu. 75-00	N145 Jumbo	M75GS Gold hard- ware
GT85 full size 42.35 GT120 full size 48.20	2.	2347 Woodstock jun. 128·00 2394 Woodstock nat. 142·00 2345 Woodstock	1942 Walnut 2pu 75·00 1944 Walnut 2pu 82·00	N147 12-string 115-75 RESONATA	M-80CS Solid 2 p/u 2 c/way 399.81
GT180 full size 63-95 WT100 jumbo 47-55 WT200 jumbo 66-45	CLEARTONE	white	1949 Stereo bs 2pu 159·00 1950 White 113·00 1951 Cherry 112·00	N87 Classical 24-95 N89 Classical 30-10	B302 Long scale 314-15 B301 As above 1 p/u . 257-04
WT100-12 jumbo 49-40 VITTORO	MELODY 1200 12/s Folk 34-86	2354LB Woodstock long bs 140.00	1952 Bass 109-00	VICTOR GARCIA N188 Spanish 32-78	JSB2C Carved 342-71
570 small	1250 12/s Folk Elec 43·72 500 Folk	2352 Clipper 92:00 2352M Clipper d/l 108:00	ANTORIA CLASSICAL 285558-00	N189 Spanish	Acoustic: D55-NT TV Rose-
ANGELICA 2651 full size 19-25	325 Folk	2352 Custom 121 00 2353LDX Clipper	2840	LORENZO N98 Student 16-21	wood Dread- nought 546·58 D50-NT Bluegrass
	450	long bs black 106.00 2368 Clipper Fireball 122.00 2365B Dixie bs 138.00	TAMA GUITARS	N111 Classic 18-98 N99 Classic 23-10	D50-NT Bluegrass Special Rose Dreadnought 449-47
CBS/ARBITER (EX VAT)	600	2365BL Dixie bs I/h. 145·00 2366B Marksman. 132·00	3300 237 00	NI 10 Folk	D44MBL Bluegrass Jubilee Maple
FENDER	MIAM1 FTI Elec 25-36	2366FLB Fretless bs 132-00 2375 Rocketman	3560S. 225·00 3558S. 218·00 3561S. 212·00	N102 Folk	Dreadnought 417-09 G-41NT Jumbo 17"
Electrics: Jazzmaster 348-75	FT2 Elec	Maple fb	3566	N151 Jumbo 40·37 N152 12 Str 44·40	Body D/nuoght 413-51 G875NT ³ / ₄ Size 15"
Stratocaster w trem . 300-78 Stratocaster L/H w.	TANTARRA 4195 Classic 18-28	White	35555 157-00	N153 Jumbo 46-25	Body D/nought 377-56 G-37BL Arched Back
Stratocaster m/neck	GUYATONE HG91 Steel 20-66	2375 N Rocketman Natural	3560/12	COLUMBUS N197 Jumbo sun 53-94 N36 Semi Ac 6 st 63-56	Maple D/nought 348-78 D-40NT Bluegrass Jubilee Mahog.
w. trem	HG306 Steel	2375 Ash	3551 Classical 230.00	N85 solid blk 68-00 N85/S solid sun 68-00	Jubilee Mahog, D/nought 348.78 D-35NT Bluegrass
Stratocaster	KLIRA Westbury Jumbo 64-79	2655ZB Rocketman Zebra	DOBRO GUITARS 1000 800-00	N54 solid mahog 63.07 N66 solid bass 65.56	D/nought Nat 302-05 D55SB Spruce 546-58
Stratocaster m/neck. 294-50 Stratocaster m/neck	310 Electric 64-79 360 Bass 68-20	2656ZB Zebra bs 188.00 2375W Twin Gemini	36	N77 solid bass 71.07 N82 solid 3 pu 72.84	D44MNT Nat 417-09 D40SB Spruce 348-78
L/H 333-25	Blue Hill 6 37·16	6/12250-00	33HS 250·00	N122 12 str 55-51	D40CNT Cutaway 399-16

Cutaway 399·16 D-25M Bluegrass	MD 30			Les Paul ctm tobacco brown s/b,	644.00	OBANOF
Mahogany D/	CONCERTER	To avaid was accessed	titions	SG Custom, White SG Custom, Walnut.	613.00	ORANGE
nought	SK612N	To avoid unnecessary		SG Std., Cherry SG Custom, wine red	402-00	Orange custom guitarTo order
F-50RNT Navarre Rosewcod 17" 683·16	SK 614N Concert 23:70 GK 200 Concert 32:80	tain abbreviations are	frequently used	SG Custom w Bigsby, walnut		Case,To order
F-50SB Navarre Maple 17" Jbo,	WK599SH Jbo 47.80 WK 599 Jbo 44.45 WK 588 31.65	in our listings: electric	-elec; custom-	SG Custom w Bigsby, white	625.00	B. L. PAGE
S/burst 546-58 F-40BL Bluegrass	FK288 31-05	ctm; semi-acoustic-s/	ac; organ-org;	SG Custom w Bigsby, wine red	597.00	MICRO-FRETS
16" Folk 395-50 F-30NT Aragon 154	WK0030	professional - pro;	standard – std;	SG Standard, s/b SG Standard, white		Calibra 1,
Folk Nat		acoustic - ac; folk -	fk; bass - bs;	S-I nat. satin SG Std., Walnut		Signature
Folk, S/burst 266:09 F30 RNT Smaller 485:43	HORNBY-SKEWES	string-str; de luxe-d		SG Std. Bigsby, Cherry	412-00	Swinger
F-20NT Troubadour 13½ Folk, Nat, 212-16	PALMA ACOUSTICS 500 12.95	piano-pno; left hand-		SG Std. Bigsby, Walnut,	412-00	Swinger Customised. 244-20 Spacetone 277-20
F50BL Blonde 546.58 F40NT Spruce Mahog 395.50	300N. 15-95 400F. 17-50			SG Std. Bigsby, Sun- burst L6-S Custom, Black.,	439.00	Huntington
F30RNT Small 485-43 B50NT Acoustic bs 539-35	580	case - cs; banjo - bjo;	; monitor – mt.	L6-S Custom, Nat	425.00	Signature Bass 184-80 Husky 211-20
Twelve-String: F-512NT Custom	FG105. 27·50 900N. 29·50			L6-S De Luxe, Wine . L6-S De Luxe, Nat.		Thundermaster 264.00
Rosewood 17" Jbo. 715-56 F-41BL Custom	WF5			Satin Marauder, Nat. Satin	293.00	ROSE-MORRIS
Flamed Maple 17" Jbc	FW301-12	JB.24 60-00 SBL5	5 Bass	Marauder, Wine Left-hand:	335.00	-
F-212XLNT Extra Large Mah g 17"	KASUGA ACOUSTICS G100L49.00	175DC in case 90.00 SBL7	75 Bass Long	SG Std. Bigsby, Cherry	399.00	SHAFTESBURY
Jbo	G200 65·00 F140 63·00		ale217·00		505.00	3413
F-212NT Mahogany 16" Folk 402-71	D200 70·00	DC.101 25:00 ("Ja	zz''): 2248·00	SG Spec., Cherry	389·00 339·00	As above w/cs 91.35 Stereo 2 P/U Bs 149.50
F-112NT Standard 15½ Folk	D350 99-00	DC.107	8 323.00	Les Paul Custom, Cherry	648-00	OVATION Breadwinner 345-00
G-312NT Rosewood 16" D/nought 485·43	TERADA ACOUSTICS TG30654-50	DC.112 42·50	D KNELLER	Cherry	529-00	Deacon 411.00 Hardshell Cases. 55.05
G-212NT Mahogany 16" D/nought 402-71	TG307	DC.125 88·50	D KNELLER	Bass Range Ripper (L9-S), Nat	394-00	Electric Artist 430-00 Electric Country
Acoustic Bass: B50NT539-35	TG310	C132S 60.00 Bron	ci Strings (sets) nze wound ac. all	Ripper (L9-S), Ebony Ripper Fretless,	394-00	Artist
Classic: MK5 Rosewood 593-28	FW615	C136S 90-00 ga	uges	Ripper Fretless, s/b	421.00	Electric Legend 496.00 Electric Pacemaker 514.00
MK4Padouk 355-99	TG315	B.55 275.00 12-st	tring bronze 3-35 silv. wound 2-13	Grabber 3 (G-3), Nat Satin		Electric Classic 505-00 Electric Patriot on appl.
MK3 Mahogany 269.67 MK2 Mahogany 212.16	FW620	8.30 150.00 Folk	bronze wound. 1.92 round wound	Grabber 3 (G-3), Ebony Grabber 3 (G-3), s/b.		TOP TWENTY
HOHNER	KASUGA ELECTRICS SG360159-00	B.20 100.00 all	gauges, 2.25 . flat wound all	Grabber, Nat Satin	277-00	1971 bs
-	LG380B	B.50-12	uges	Grabber, Ebony Grabber, Wine Red .	319.00	3440 West One on app
AT 2T Solid 40-80	LG770V. 239-00 SG1800V. 255-00	Class	sic wound basses, 2:30 sic ball ends 2:04	EB-3, Cherry EB-3, Walnut	394.00	3403A
FB I W Bass	EB750S235.00	JOHN BIRCH Banje	o strings 1-29	Jumbo Range	422.00	3404A
JB 2 Bass	ZENTA ELECTRICS EG50134-00	SCSL Elec	RLIN	J-200 Artist, S/b J-200 Artist, Nat Dove Custom.	102 00	3405A
LB 200 Bass	EG502	Twin-neck,		Dove Custom, Cherry Dove Custom, Nat	600.00	3407A
LS 200 C Solid 61-60	HEG5006	How	SON yard Roberts 845-00	Gospel, Nat Top Heritage Custom,	509-00	TRAVIS BEAN 3441 Std + case 765.00
LS 200 US Solid 61.45 ME 20 TS Solid 44.55 SA 200 Semi-ac 61.30	HET5001	frm 259·20 L5CE	Iland	Nat Top/Rose		3442 Bass + case 650.00
SE 2B Bass					529.00	3443 Artist + case 850:00
	HEP500265·00	Custom gtrs to order 2 c	nny Smith DN p/u, Nat	Hummingbird		3443 Artist + case 850.00 ACOUSTICS
SE 2T Solid		Custom gtrs to order All standard custom models: 6 str. from £280.00+VAT John	p/u, Nat	Hummingbird Custom, Cherry Hummingbird	471-00	3443 Artist+case 850.00 ACOUSTICS OVATION Balladeer 6-str 287.00
SE 2T Solid. 35·55 SG 2S Solid. 53·60 SG 22 Solid. 42·10 SG 10B Bass. 64·85	IVOR MAIRANTS	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT Twin necks fr. £450·00+VAT John	p/u, Nat	Hummingbird Custom, Cherry Hummingbird Custom, Nat J-50, Nat Top	471-00 485-00 371-00	3443 Artist + case 850·00 ACOUSTICS OVATION Balladeer 6-str 287·00 Classic Balladeer 287·00 Custom Balladeer 305·00
SE 2T Solid	IVOR MAIRANTS MARTIN D.18	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT Twin necks fr. £450·00+VAT John Supe Supe	p/u, Nat	Hummingbird Custom, Cherry Hummingbird Custom, Nat J-50, Nat Top J-55, Nat Top J-55, Nat Top	471.00 485.00 371.00 349.00 425.00	3443 Artist + case 850·00 ACOUSTICS OVATION Balladeer 6-str 287·00 Classic Balladeer 287·00 Custom Balladeer 305·00 Glen Campbell 12-str 441·00
SE 2T Solid. 35-55 SG 2S Solid. 53-60 SG 22 Solid. 42-10 SG 10B Bass 64-85 SG 2200 Solid. 60-75 SG 2000 Custom Solid. 67-50 SP I Solid 28-95	IVOR MAIRANTS MARTIN D.18	Custom gtrs to order All standard custom models: 6 str. from £280.00+VAT Twin necks fr. £450.00+VAT John Supe Supe Byrd L-5C	p/u, Nat	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat. J-50, Nat Top. J-45, S/b J-55, Nat Top. J-60 Custom s/b B-45-12N d/l 12 str	471-00 485-00 371-00 349-00 425-00 477-00 445-00	3443 Arrist + case 850·00 ACOUSTICS OVATION Balladeer 6-str 287·00 Classic Balladeer 305·00 Glen Campbell 6-str 359·00 Glen Campbell 12-str 441·00 Pacemaker 12-str 375·00 Folklore 333·00
SE 2T Solid. 35-55 SG 2S Solid. 53-60 SG 22 Solid. 42-10 SG 10B Bass 64-85 SG 220V Solid 60-75 SG 2000 Custom Solid. 67-50 SP I Solid 28-95 ST 30 Solid. 58-25 ST 300 Solid 73-35	IVOR MAIRANTS MARTIN D.18	Custom gtrs to order All standard custom models: 6 str. from £280.00+VAT Twin necks fr. £450.00+VAT John Supe Supe YAMAHA Classics: G555. 46-50 Supe Supe Supe Supe Supe Supe Supe Supe	p/u, Nat	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat J-50, Nat Top J-45, S/b J-55, Nat Top J-55, Nat Top J-60 Custom s/b B-45-12N d/l 12 str J-40 Nat Top. SAXON	471-00 485-00 371-00 349-00 425-00 477-00 445-00 334-00	3443 Artist + case 850·00 ACOUSTICS OVATION Balladeer 6-str
SE 2T Solid. 35-55 SG 2S Solid. 53-60 SG 22 Solid. 42-10 SG 10B Bass 64-85 SG 220V Solid 60-75 SG 2000 Custom Solid. 67-50 SP I Solid 28-95 ST 30 Solid 58-25 ST 300 Solid 73-35 TF 200N Solid 58-85 MORIDAIRA	IVOR MAIRANTS MARTIN D.18	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT Twin necks fr. £450·00+VAT KEMBLE YAMAHA Classics: G55. 46·50 G65. 49·50 G90. 55·00 County from models: 2 James from £280·00+VAT	p/u, Nat	Hummingbird Custom, Cherry Hummingbird Custom, Nat J-50, Nat Top J-55, Nat Top J-55, Nat Top J160E Custom s/b B-45-12N d/l 12 str J-40 Nat Top SAXON Class Range 813	471-00 485-00 371-00 349-00 425-00 477-00 445-00 334-00	3443 Artist + case. 850·00 ACOUSTICS OVATION Balladeer 6-str. 287·00 Classic Balladeer. 305·00 Glen Campbell 6-str. 359·00 Glen Campbell 12-str 441·00 Pacemaker 12-str. 395·00 Folklore. 323·00 Classic. 386·00 Concert Classic. 305·00 Legend. 372·00 Artist. 307·00
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass 64:85 SG 220V Solid 60:75 SG 2000 Custom Solid. 67:50 SP 1 Solid 28:95 ST 30 Solid 73:35 TF 200N Solid 58:25 ST 300 Solid 58:85 MORIDAIRA 842 Classic. 57:95 845 Classic. 70:45	IVOR MAIRANTS MARTIN D.18	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT Twin necks fr. £450·00+VAT KEMBLE YAMAHA Classics: G55. 46·50 G65. 49·50 G90. 55·00 G120. 62·50 G150. 66·00 ES-1 ES-1 ES-1 ES-1 ES-1 ES-1 ES-1 ES-1	n/u, Nat	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat J-50, Nat Top J-55, Nat Top J-55, Nat Top J-60 Custom s/b J-40 Nat Top SAXON Class Range 813 814 815	471-00 485-00 371-00 349-00 425-00 477-00 445-00 334-00 39-00 46-00 59-00	3443 Artist + case 850·00 ACOUSTICS OVATION Balladeer 6-str 287·00 Classic Balladeer 305·00 Glen Campbell 6-str 395·00 Glen Campbell 12-str 395·00 Folklore 323·00 Classic 386·00 Concert Classic 305·00 Legend 372·00 Artist 307·00 Country Artist 307·00 Patriot on appl.
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass 64:85 SG 220V Solid 60:75 SG 2000 Custom Solid. 67:50 ST 30 Solid. 58:25 ST 300 Solid. 73:35 TF 200N Solid 58:85 MORIDAIRA 842 Classic. 57:95 845 Classic. 70:45 843 Classic. 83:05	IVOR MAIRANTS MARTIN D.18	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT Twin necks fr. £450·00+VAT KEMBLE YAMAHA Classics: G55. 46·50 G55. 49·50 G90. 55·00 G120. 62·50 G120. 66·00 G220. 86·00 G230. 108·00 G230. 108·00 G230. 108·00 G230. 108·00	p/u, Nat	Hummingbird Custom, Cherry Hummingbird Custom, Nat J-50, Nat Top J-55, Nat Top J-55, Nat Top J-60, Nat Top J-60, Nat Top J-60, Nat Top J-40 Nat Top SAXON Class Range 813 814	471-00 485-00 371-00 349-00 425-00 477-00 445-00 334-00 39-00 46-00 59-00	3443 Arrist + case 850·00 ACOUSTICS OVATION Balladeer 6-str 287·00 Classic Balladeer 305·00 Glen Campbell 12-str Pacemaker 12-str 395·00 Folklore 323·00 Classic 386·00 Concert Classic 366·00 Legend 372·00 Arrist 307·00 Country Artist 307·00
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass 64:85 SG 220V Solid 60:75 SG 2000 Custom Solid. 67:50 SP 1 Solid 28:95 ST 30 Solid 73:35 TF 200N Solid 58:25 T 300 Solid 73:35 TF 200N Solid 58:85 MORIDAIRA 842 Classic. 57:95 845 Classic. 70:45 843 Classic. 59:85 846 Classic. 83:05 847 Jumbo 77:25 848 Jumbo 98:70	No. 2	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT Twin necks fr. £450·00+VAT KEMBLE YAMAHA Classics: G55. 46·50 G55. 49·50 G65. 49·50 G120. 62·50 G120. 62·50 G150. 66·00 G280. 108·00 G280. 108·00 GC3 Handmade. 230·00 GC6 Handmade. 230·00 E5-3: GC6 Handmade. 230·00 E5-3: E5-3: GC6 Handmade. 230·00 E5-3: E5-3: GC6 Handmade. 230·00 E5-3: E5-3	n/u, Nat	H u m min g bird Custom, Cherry H u m min g bir d Custom, Nat J-50, Nat Top J-55, Nat Top J-55, Nat Top J-60 E Custom s/b B-45-12N d/l 12 str J-40 Nat Top SAXON Class Range 813 814 815 816	471-00 485-00 371-00 349-00 425-00 477-00 445-00 334-00 39-00 46-00 59-00 65-00 46-00 55-50	3443 Artist + case 850·00 ACOUSTICS OVATION Balladeer 6-str 287·00 Classic Balladeer 305·00 Glen Campbell 12-str 359·00 Folklore 335·00 Classic 335·00 Classic 336·00 Classic 336·00 Classic 366·00 Concert Classic 305·00 Artist 307·00 Artist 307·00 Patriot 9n appl. SHAFTESBURY WESTERNS 3190 lbo w/cs 92·00 3191 lbo w/cs 99·00
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass 64:85 SG 220V Solid 60:75 SG 2000 Custom Solid. 67:50 SP 1 Solid 28:95 ST 30 Solid 73:35 TF 200N Solid 58:25 MORIDAIRA 842 Classic. 57:95 845 Classic. 70-45 843 Classic. 59:98 846 Classic. 83:05 847 Jumbo 77:25 848 Jumbo 98:70 855 (F301 Folk. 72:65)	IVOR MAIRANTS	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT Twin necks fr. £450·00+VAT KEMBLE YAMAHA Classics: G55. 46·50 G55. 49·50 G90. 55·00 G120. 62·50 G120. 62·50 G120. 66·00 G220. 86·00 G220. 86·00 G220. 86·00 G220. 86·00 G280. 108·00 G280. 108·00 GC6 Handmade. 230·00 GC6 Handmade. 230·00 GC6 Handmade. 295·00 Folk:	p/u, Nat	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat J-50, Nat Top J-55, Nat Top J-55, Nat Top J-60, Nat Top J-60, Nat Top J-60, Nat Top SAXON Class Range 813 814 815 816 Folk Range 817 818 Jumbo Range	471-00 485-00 371-00 349-00 425-00 477-00 334-00 39-00 46-00 59-00 65-00	3443 Artist + case
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass 64:85 SG 220V Solid. 60:75 SG 2000 Custom Solid. 67:50 SP 1 Solid. 28:95 ST 30 Solid. 58:25 ST 300 Solid. 73:35 TF 200N Solid. 58:85 MORID AIRA 842 Classic. 57:95 845 Classic. 70:45 843 Classic. 59:85 846 Classic. 87:95 847 Jumbo 77:25 848 Jumbo 98:70 SSO Western. 121:10 855/F301 Folk. 72:65 856/F303 Folk. 82:10	IVOR MAIRANTS MARTIN	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT Twin necks fr. £450·00+VAT KEMBLE YAMAHA Classics: G55. 46·50 G65. 49·50 G90. 55·00 G120. 62·50 G120. 62·50 G120. 62·50 G220. 86·00 G220. 86·00 G220. 86·00 G220. 108·00 G230 108·00 G240 175·00 G250 108·00 G26 Handmade 230·00 GC6 Handmade 230·00 GC6 Handmade 235·00 Folk: FG110N. 60·00 FG75N. 55·00 Les	n/u, Nat	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat. J-50, Nat Top. J-45, S/b. J-55, Nat Top. J-55, Nat Top. J-55, Nat Top. J-60E Custom s/b. B-45-12N d/l 12 str. J-40 Nat Top SAXON Class Range 813. 814. 815. 816. Folk Range 817. 818. Jumbo Range 819. 820.	471-00 485-00 371-00 349-00 425-00 477-00 445-00 334-00 46-00 59-00 65-00 46-00 55-50 55-50	3443 Artist + case 850·00 ACOUSTICS OVATION Balladeer 6-str
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass. 64:85 SG 220V Solid. 60:75 SG 2000 Custom Solid. 67:50 SP 1 Solid. 28:95 ST 300 Solid. 58:25 ST 300 Solid. 73:35 TF 200N Solid. 58:85 MORIDAIRA 842 Classic. 57:95 845 Classic. 70:45 843 Classic. 70:45 843 Classic. 83:05 846 Classic. 83:05 846 Classic. 83:05 847 Jumbo. 77:25 848 Jumbo. 98:70 850 Western. 121:10 855/F301 Folk. 72:65 856/F303 Folk. 82:10 851/W613 Western. 000:00 852/WE1030 Jumbo with pick-up. 104:85	IVOR MAIRANTS MARTIN D.18	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT Twin necks fr. £450·00+VAT KEMBLE YAMAHA Classics: G55. 46·50 G65. 49·50 G90. 55·00 G120. 62·50 G120. 62·50 G220. 86·00 G220. 86·00 G220. 86·00 G220. 86·00 G230. 108·00 G230. 108·00 G23 Handmade. 25·50 G616 Handmade. 25·50 G610 Handmade. 25·50 F6110N. 60·00 FG75N. 55·00 Les FG160 Jumbo. 72·50 FG160 Jumbo. 72·50 FG170. 75·00 FS	n/u, Nat	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat J-50, Nat Top J-55, Nat Top J-55, Nat Top J-60 Custom s/b B-45-12N d/l 12 str J-40 Nat Top SAXON Class Range 813 814 815 816 Folk Range 817 818 Jumbo Range 819 820 821 822 12 str	471-00 485-00 371-00 349-00 425-00 4477-00 445-00 334-00 39-00 46-00 59-00 65-00 46-00 55-50 60-00 57-00 62-00	3443 Artist + case 850·00 ACOUSTICS OVATION Balladeer 6-str 287·00 Classic Balladeer 305·00 Glen Campbell 6-str 359·00 Glen Campbell 10-str 441·00 Pacemaker 12-str 395·00 Folklore 323·00 Classic 306·00 Concert Classic 307·00 Artist 307·00 Artist 307·00 Patriot 90.00 Artist 307·00 SUBAFTESBURY WESTERNS 3190 Jbo w/cs 108·00 3192 Jbo w/cs 108·00 3193 Jbo w/cs 120·00 3194 Jbo w/cs 120·00 3194 Jbo w/cs 149·00 3168 12-str Jbo 31·00 SIGMA ACOUSTICS
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass 64:85 SG 220V Solid. 60:75 SG 2000 Custom Solid. 67:50 SP 1 Solid 28:95 ST 30 Solid. 58:25 ST 300 Solid. 73:35 TF 200N Solid. 58:85 MORIDAIRA 842 Classic. 57:95 845 Classic. 70:45 843 Classic. 59:85 846 Classic. 83:05 847 Jumbo. 77:25 848 Jumbo. 98:70 855/F301 Folk. 72:65 856/F303 Folk. 82:10 851/W613 Western. 000:00 852/WE1030 Jumbo with pick-up. 104:85 B704 12:str. 127:40 B704 12:str. 127:40 B704 12:str. 127:40 B704 12:str. 127:40	IVOR MAIRANTS	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT Iwin necks fr. £450·00+VAT Iw	p/u, Nat	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat. J-50, Nat Top. J-45, S/b. J-55, Nat Top. J160E Custom s/b. B-45-12N d/l 12 str. J-40 Nat Top SAXON Class Range 813. 814. 815. 816. Folk Range 817. 818. Jumbo Range 819. 820. 821. 822 12 str. 823.	471-00 485-00 371-00 349-00 425-00 477-00 445-00 334-00 39-00 46-00 55-50 60-00 57-00 57-00 77-00	3443 Artist + case
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass 64:85 SG 220V Solid 60:75 SG 2000 Custom Solid. 67:50 SP 1 Solid. 58:25 ST 300 Solid. 73:35 TF 200N Solid. 58:85 MORIDAIRA 842 Classic. 57:95 845 Classic. 70:45 843 Classic. 59:85 846 Classic. 83:05 847 Jumbo. 77:25 848 Jumbo. 98:70 850 Western. 121:10 851/W613 Western. 000:00 851/W613 Western. 000:00 851/W6130 Jumbo with pick-up. 104:85 B704 12 str. 127:40 B702 12 str. 95:50 BW650 9 str. 192:00 W6215. 245:95	IVOR MAIRANTS MARTIN D.18	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT John Supe Supe G55. 46·50 G55. 46·50 G65. 49·50 G65. 49·50 G120. 62·50 G120. 62·50 G220. 86·00 G280 108·00 GC10 Handmade. 230·00 GC10 Handmade. 230	p/u, Nat	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat J-50, Nat Top J-55, Nat Top J-55, Nat Top J-60, Nat Top J-60, Nat Top J-60 Custom s/b J-40 Nat Top SAXON Class Range 813 814 815 816 Folk Range 817 818 Jumbo Range 819 820 821 822 L2 str 823 824 825 Solid Range	471-00 485-00 371-00 349-00 425-00 477-00 445-00 334-00 39-00 46-00 55-50 60-00 57-00 62-00 57-00 94-00	3443 Artist + case
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass 64:85 SG 220V Solid. 60:75 SG 2000 Custom Solid. 58:25 ST 30 Solid. 73:35 TF 200N Solid. 58:85 MORIDAIRA 842 Classic. 57:95 845 Classic. 70:45 843 Classic. 59:85 846 Classic. 83:05 847 Jumbo. 77:25 848 Jumbo. 98:70 850 Western. 121:10 855 [730] Folik. 82:10 855 [730] Folik. 72:65 856 [730] Folik.	IVOR MAIRANTS MARTIN D.18	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT Iwin necks fr. £450·00+VAT Iw	n/u, Nat	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat J-50, Nat Top J-55, Nat Top J-55, Nat Top J-60 Customs/b J-40 Nat Top J-40 Nat Top J-40 Nat Top SAXON Class Range 813 814 815 816 Folk Range 817 818 Jumbo Range 819 820 821 822 12 str 823 824 825 Solid Range Saxon 830 Sld. Electric.	471-00 485-00 371-00 349-00 425-00 477-00 445-00 334-00 33-00 46-00 55-50 60-00 65-00 62-00 57-00 62-00 77-00 94-00	3443 Arrist + case 850·00 ACOUSTICS OVATION Balladeer 6-str
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass 64:85 SG 220V Solid. 60:75 SG 2000 Custom Solid. 67:50 SP 1 Solid. 28:95 ST 30 Solid. 73:35 TF 200N Solid. 73:35 TF 200N Solid. 58:25 ST 300 Solid. 73:35 TF 200N Solid. 58:85 MORID AIRA 842 Classic. 57:95 845 Classic. 70:45 843 Classic. 83:05 846 Classic. 83:05 847 Jumbo. 77:25 848 Jumbo. 98:70 850 Western. 121:10 855/F301 Folk. 72:65 856/F303 Folk. 72:65 856/F309 Folk. 121:00 851/W613 Western. 00:00 852/W6103 Jumbo with pick-up. 104:85 8704 12:str. 127:40 8702 12:str. 95:50 8705 9 str. 192:00 W621S. 245:95 W611. 312:30 W610. 199:75 W620. 179:05	IVOR MAIRANTS	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT Iwin necks fr. £450·00+VAT Iw	Description 1453-00	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat J-50, Nat Top J-55, Nat Top J-55, Nat Top J-60 Customs/b B-45-12N d/l 12 str J-40 Nat Top. SAXON Class Range 813 814 815 816 Folk Range 817 818 Jumbo Range 819 820 821 822 823 824 825 Solid Range Soxon 830 Sld. Electric Soxon 831 Sld. Electric	471-00 485-00 371-00 371-00 349-00 425-00 477-00 445-00 59-00 65-00 46-00 55-50 55-50 60-00 57-00 57-00 77-00 94-00 98-00	3443 Artist + case
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass 64:85 SG 220V Solid. 60:75 SG 2000 Custom Solid. 67:50 SP 1 Solid 28:95 ST 300 Solid. 58:25 ST 300 Solid. 73:35 TF 200N Solid. 58:85 MORIDAIRA 842 Classic. 57:95 845 Classic. 70:45 843 Classic. 70:45 843 Classic. 83:05 846 Classic. 82:10 851/W613 Western 121:10 855/F301 Folk. 72:65 856/F303 Folk. 82:10 851/W613 Western 000:00 851/W613 Western 000:00 852/WE1030 Jumbo with pick-up. 104:85 8704 12:str. 95:50 BW650 9:str. 127:40 BW650 9:str. 192:00 W621S. 245:95 W611. 312:30 W610. 199:75 W620. 179:05 G214. 131:15 MUSIMA	IVOR MAIRANTS MARTIN D.18	Custom gtrs to order All standard custom models: 6 str. from £280-00+VAT KEMBLE	10, Nat. 1453-00	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat J-50, Nat Top J-55, Nat Top J-55, Nat Top J-60, Nat Top SAXON Class Range 813 814 815 816 Folk Range 817 818 Jumbo Range 819 820 821 822 823 824 825 Solid Range Saxon 830 Sld. Electric SAXON 831 Sld. Electric BANJOS & MANJOLINS	471-00 485-00 371-00 349-00 425-00 477-00 445-00 334-00 39-00 46-00 55-50 60-00 57-00 62-00 57-00 94-00 117-00 98-00	3443 Artist + case
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass 64:85 SG 220V Solid. 60:75 SG 2000 Custom Solid. 67:50 SP 1 Solid 28:95 ST 30 Solid. 58:25 ST 300 Solid. 73:35 TF 200N Solid. 58:85 TF 200N Solid. 58:85 TF 200N Solid. 58:85 ST 300 Solid. 73:35 TF 200N Solid. 73:3	IVOR MAIRANTS	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT Win necks fr. £450·00+VAT KEMBLE	Discrimination 1453-00	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat J-50, Nat Top J-55, Nat Top J-55, Nat Top J-60 Custom s/b. B-45-12N d/l 12 str J-40 Nat Top SAXON Class Range 813 814 815 816 Folk Range 817 818 Jumbo Range 819 820 821 822 12 str 823 824 825 Solid Range Saxon 830 Sld. Electric. Saxon 831 Sld. Electric. Saxon 831 Sld. Electric. Saxon 831 Sld. Electric. SANDOLINS AA Tenor 3 AA S String 3	471-00 485-00 371-00 371-00 349-00 425-00 477-00 445-00 334-00 39-00 65-00 46-00 55-50 60-00 57-00 62-00 57-70 94-00 117-00 98-00 816-00 816-00	3443 Artist + case
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass 64:85 SG 220V Solid. 60:75 SG 2000 Custom Solid. 67:50 SP 1 Solid 28:95 ST 30 Solid 58:25 ST 300 Solid 73:35 TF 200N Solid 58:25 ST 300 Solid 73:35 TF 201 Solid 58:25 ST 300 Solid 73:35 TF 201 Solid 73:35 TF 20	IVOR MAIRANTS	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT Twin necks fr. £450·00+VAT KEMBLE	Discrimination 1453-00	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat	471-00 485-00 371-00 371-00 349-00 425-00 477-00 445-00 334-00 334-00 39-00 46-00 55-50 66-00 57-00 62-00 57-00 94-00 117-00 98-00 816-00 816-00 816-00 816-00 816-00	3443 Artist + case
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass 64:85 SG 220V Solid. 60:75 SG 2000 Custom Solid. 67:50 SP 1 Solid. 28:95 ST 30 Solid. 73:35 TF 200N Solid. 73:35 TF 200N Solid. 58:25 ST 300 Solid. 73:35 TF 200N Solid. 58:85 MORIDAIRA 842 Classic. 57:95 845 Classic. 70:45 843 Classic. 83:05 847 Jumbo. 77:25 848 Jumbo. 98:70 850 Western. 121:10 855 [7301 Folk. 72:65 856 [7303 Folk. 72:65 856 [7304] [73:65 82:70 [73:65] [73:65 82:70 [73:65] [73:65] 82:70 [73:65] [73:65] 83:73 [73:65] [73:65] 83:73 [73:65] [73:75 83:73 [73:65] [73:55] 83:73 [73:65] [73:55] 83:73 [73:65] [73:55] 83:73 [73:65] [73:55] 83:73 [73:65] [73:55] 83:73 [73:65] [73:55] 83:73 [73:65] [73:55] 83:73 [73:65] [73:55] 83:73 [73:65] [73:55] 83:73 [73:65] [73:55] 83:73 [73:65] [73:55] 83:73 [73:65] [73:55] 83:73 [73:65] [73:55] 83:73 [73:65] [73:55] 83:73 [73:65] [73:55] 83:73 [73:65] [73:55] 83:73 [73:65] [73:55] 83:73 [73:65] [73:55]	IVOR MAIRANTS MARTIN D.18	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT Twin necks fr. £450·00+VAT KEMBLE YAMAHA Classics: G55. 46·50 G65. 49·50 G90. 55·00 G120. 62·50 G150. 66·00 G220. 86·00 G220. 86·00 G220. 86·00 G230. 109·00 G230 109·00 GC3 Handmade. 175·00 GC6 Handmade. 295·00 GC10 Handmade. 295·00 FG160 Jumbo 125·00 FG160 Jumbo 125·00 FG180/I Jumbo 192·00 FG280 Jumbo 105·00 FG280 Jumbo 105·00 FG280 Jumbo 137·50 FG380 Jumbo 137·50 FG390	Discription 1453-00	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat J-50, Nat Top J-51, S/b J-55, Nat Top J-55, Nat Top J-60 Custom s/b. B-45-12N d/ I 12 str J-40 Nat Top SAXON Class Range 813. 814. 816. Folk Range 817. 818. Jumbo Range 819. 820. 821. 822 12 str. 823. 824. 825. Solid Range Saxon 830 Sld. Electric. Saxon 831 Sld. Electric. Saxon 831 Sld. Electric. Saxon 831 Sld. Electric. Saxon 831 Sld. Electric. Saxon 835 Sld. Electric. Saxon 837 Sld. Electric. Saxon 837 Sld. Electric. Saxon 838 Sld. Electric. Saxon 838 Sld. Electric. Saxon 837 Sld. Electric. Saxon 838 Sld. Electric.	471-00 485-00 371-00 371-00 349-00 425-00 477-00 445-00 334-00 39-00 46-00 55-50 60-00 57-00 62-00 57-00 94-00 117-00 98-00 816-00 816-00 816-00 816-00 428-00 428-00 428-00 816-00	3443 Artist + case
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass 64:85 SG 220V Solid. 60:75 SG 2000 Custom Solid. 67:50 SP 1 Solid. 28:95 ST 30 Solid. 73:35 TF 200N Solid. 73:35 TF 200N Solid. 58:25 ST 300 Solid. 73:35 TF 200N Solid. 58:85 MORIDAIRA 842 Classic. 57:95 845 Classic. 70:45 843 Classic. 83:05 846 Classic. 83:05 847 Jumbo. 77:25 848 Jumbo. 98:70 850 Western. 121:10 855 [7301 Folk. 72:65 856 [7303 Folk. 72:65 856 [7304] [73:65 82:70 [73:65] [73:65 82:70 [73:65] [73:65] [73:65] 86 [73:65] [73:65] [73:65] [73:65] 873 Classic. 12:59 873 Classic. 12:59 873 Classic. 12:57 873 Classic. 13:55 873 Classic. 78:50 738 Classic. 78:50	IVOR MAIRANTS	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT Twin necks fr. £450·00+VAT KEMBLE YAMAHA Classics: G55. 46·50 G65. 49·50 G790. 55·00 G120. 62·50 G150. 66·00 G220. 86·00 G220. 86·00 G220. 86·00 G230 108·00 GC3 Handmade. 175·00 GC6 Handmade. 295·00 GC10 Handmade. 295·00 FG160 Jumbo 25·50 FG110N. 60·00 FG75N. 55·00 FG160 Jumbo 125·50 FG160 Jumbo 125·50 FG160 Jumbo 137·50 FG260 Jumbo 137·50 FG260 Jumbo 137·50 FG360 Jumbo 150·00 FG1600 Handmade 219·00 FG1600 Handmade 329·00 FG1900 Handmade 339·00 FG1900 Handmade 339·00 FG1000 Handmade 339·00 FG1500 Handmade 339·00 FG1500 Handmade 339·00 FG16100 Handmade 339·00 FG1600 Handmad	Discription 1453-00	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat J-50, Nat Top J-55, Nat Top J-55, Nat Top J-60 Custom s/b B-45-12N d/i 2 str J-40 Nat Top SAXON Class Range 813 814 815 816 Folk Range 817 818 Jumbo Range 819 820 821 822 823 824 825 Solid Range 821 824 825 Solid Range 821 824 825 Solid Range 826 827 828 829 821 824 825 826 827 827 828 828 829 829 821 821 822 2 str 823 824 825 826 827 828 829 821 824 825 826 827 827 828 829 829 821 821 822 2 str 823 824 825 826 827 827 828 830 Sld Electric 84 NANDOLINS 84 A Tenor 85 String 87 Tenor 87 Tenor 87 Tenor 87 Tenor 88 Tenor 81 Tenor 83 Tenor 83 Tenor 84 Tenor 85 String 86 Tenor 87 Tenor 87 Tenor 88 Tenor 88 Tenor 89 Tenor 80 Tenor 81 Tenor 81 Tenor 82 Tenor 83 Tenor 84 Tenor 85 Tenor 86 Tenor 87 Tenor 88 Tenor 88 Tenor 88 Tenor 88 Tenor 89 Tenor 80 Tenor 80 Tenor 80 Tenor 81 Tenor 81 Tenor 81 Tenor 82 Tenor 83 Tenor 84 Tenor 85 Tenor 86 Tenor 87 Tenor 88 Tenor 89 Tenor 80 Tenor 80 Tenor 80 Tenor 80 Tenor 81 Tenor 81 Tenor 82 Tenor 83 Tenor 84 Tenor 85 Tenor 86 Tenor 87 Tenor 88 Tenor 88 Tenor 88 Tenor 89 Tenor 80 Tenor 81 Tenor 81 Tenor	471-00 485-00 371-00 371-00 349-00 425-00 477-00 445-00 59-00 65-00 46-00 55-50 55-50 60-00 57-00 77-00 94-00 816-00	3443 Artist + case
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass 64:85 SG 220V Solid. 60:75 SG 2000 Custom Solid. 67:50 SP 1 Solid. 28:95 ST 300 Solid. 58:25 ST 300 Solid. 73:35 TF 200N Solid. 58:25 ST 300 Solid. 73:35 TF 200N Solid. 58:85 MORIDAIRA 842 Classic. 57:95 845 Classic. 70:45 843 Classic. 59:85 846 Classic. 83:05 847 Jumbo. 77:25 848 Jumbo. 98:70 851/W613 Western. 121:10 855/F301 Folk. 72:65 856/F303 Folk. 82:10 851/W613 Western. 127:40 BT 12:51 BT 12:51 BT 12:51 BT 13:51 BT 13:	IVOR MAIRANTS	Custom gtrs to order All standard custom models: 6 str. from £280·00+VAT John Supe Supe Supe Supe Supe Supe Supe Supe	Description 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1407-00	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat J-50, Nat Top J-51, S/b J-55, Nat Top J-60, Nat Top SAXON Class Range 813 814 815 816 Folk Range 817 818 Jumbo Range 819 820 821 821 822 823 824 825 Solid Range 821 824 825 Solid Range 821 824 825 Solid Range 830 Electric Saxon 830 Sld Electric SAXON 831 Sld Electric BANJOS & MANJOS LINS AA Tenor 3 AA 5 String 3 Tenor 4 Tenor 5 Tenor 5 Tenor 5 Tenor	471-00 485-00 371-00 371-00 349-00 425-00 447-00 445-00 59-00 65-00 46-00 55-50 55-50 60-00 57-00 77-00 94-00 117-00 98-00 816-00 816-00 816-00 816-00 817-00 818-00	3443 Artist + case
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass. 64:85 SG 220V Solid. 60:75 SG 2000 Custom Solid. 67:50 SP 1 Solid. 28:95 ST 30 Solid. 58:25 ST 300 Solid. 73:35 TF 200N Solid. 58:85 MORIDAIRA 842 Classic. 57:95 845 Classic. 70:45 843 Classic. 59:85 846 Classic. 70:45 843 Classic. 83:05 846 Classic. 82:10 85:17 Morio Millor	IVOR MAIRANTS	Custom gtrs to order All standard custom models: 6 str. from £280-00+VAT Twin necks fr. £450-00+VAT Tw		H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat J-50, Nat Top J-51, Nat Top J-55, Nat Top J-60, Nat Top SAXON Class Range 813 814 815 816 Folk Range 817 818 Jumbo Range 819 820 821 822 823 824 825 Solid Range Saxon 830 Sld Electric Saxon 831 Sld Electric BANJOS & MANJOLINS AA Tenor 3 AA 5 String 3 Tenor 3	471-00 485-00 371-00 371-00 349-00 425-00 447-00 445-00 59-00 65-00 46-00 55-50 55-50 60-00 57-00 77-00 94-00 117-00 98-00 816-00 816-00 816-00 816-00 816-00 816-00 817-00 818-00	3443 Artist + case
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass 64:85 SG 220V Solid. 60:75 SG 2000 Custom Solid. 67:50 SP 1 Solid 28:95 ST 30 Solid. 58:25 ST 300 Solid. 73:35 TF 200N Solid. 73:35 TF 200N Solid. 58:85 ST 300 Solid. 73:35 TF 200N Solid. 73:35 TF 201 Solid. 73:35 SH6 Classic. 70:45 SH7 Jumbo. 77:25 SH8 Jumbo. 98:70 SH7 Jumbo. 71:25 SH8 Jumbo. 98:70 SH7 Jumbo. 10:48	IVOR MAIRANTS	Custom gtrs to order All standard custom models: 6 str. from £280-00+VAT Twin necks fr. £450-00+VAT Tw	Discription 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1407-00	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat	471-00 485-00 371-00 349-00 425-00 477-00 445-00 334-00 39-00 65-00 46-00 55-50 55-50 60-00 57-00 62-00 57-70 94-00 117-00 98-00 816-00 816-00 816-00 816-00 816-00 816-00 489-00 489-00 489-00 813-00 489-00 813-00 613-00 813-00 646-00 813-00 8	3443 Artist+case 850·00 ACOUSTICS OVATION Balladeer 6-str 287·00 Classic Balladeer 287·00 Classic Balladeer 305·00 Glen Campbell 6-str 359·00 Folklore 335·00 Folklore 335·00 Classic 386·00 Concert Classic 305·00 Legend 372·00 Artist 307·00 Patriot 307·00 Patriot 307·00 Patriot 307·00 Patriot 90.00 Artist 307·00 Patriot 90.00 Artist 307·00 Patriot 90.00 Artist 307·00 Patriot 91.00 SHAFTESBURY WESTERNS 3190 Ibo w/cs 99·00 3191 Ibo w/cs 198·00 3191 Ibo w/cs 198·00 3193 Ibo w/cs 198·00 3193 Ibo w/cs 198·00 3193 Ibo w/cs 199·00 3168 12-str Jbo 31·00 SIGMA ACOUSTICS 3170 Jumbo 6. 72·15 3171 GC Folk 59·95 3172 GC Folk 85·75 3174 Dreadnought 12. 79·65 3042 Classic 79·65 3042 Classic 79·65 3042 Classic 79·65 3132 Rio Bravo 6. 78·80 3132 Rio Bravo 12. 83·99 1790 Ranger 12. 64·95 3140 Navajo 6. 47·30 3151 Sombrero 12. 78·65 3153 Eldorado 16. 105·90 3154 Eldorado 12. 15·95 143 El Paso 92·20 3141 Navajo 12. 78·65 3153 Eldorado 6. 105·90 3142 El Guacho 128·50 3137 Studio L 25·95 Left Hand to or der 15 % Extra. All Models.
SE 2T Solid. 35:55 SG 2S Solid. 53:60 SG 22 Solid. 53:60 SG 22 Solid. 42:10 SG 10B Bass. 64:85 SG 220V Solid. 60:75 SG 2000 Custom Solid. 67:50 SP 1 Solid. 28:95 ST 30 Solid. 73:35 TF 200N Solid. 58:25 ST 300 Solid. 73:35 TF 200N Solid. 58:85 MORIDAIRA 842 Classic. 57:95 845 Classic. 57:95 845 Classic. 70:45 843 Classic. 83:05 846 Classic. 83:05 847 Jumbo. 77:25 848 Jumbo. 98:70 850 Western. 121:10 855/F301 Folk. 72:65 856/F303 Folk. 82:10 851/W613 Western 000:00 852/WE1030 Jumbo with pick-up. 104:85 B704 12:str. 127:40 B702 12:str. 95:50 BW6509 str. 192:00 W621S. 245:95 W611. 312:30 W610. 199:75 W620. 179:05 W6212. 103:60 G214. 131:15 MUSIMA 1612N Acoustic. 19:95 730 Classic. 22:95 731 Classic. 27:75 732 Classic. 32:50 736 Classic. 78:50 737 Classic. 78:50 738 Classic. 78:50 737 Classic. 78:50 738 Classic. 78:50 746 Syring. 60:95 FB 1R 4-String. 60:95 FB 2R 5-String. 60:95 FB 2R 5-String. 60:95 FB 2R 5-String. 60:95	IVOR MAIRANTS	Custom gtrs to order All standard custom models: 6 str. from £280-00+VAT Winn necks fr. £450-00+VAT KEMBLE	Discription 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1453-00 1407-00	H u m min g bir d Custom, Cherry H u m min g bir d Custom, Nat J-50, Nat Top J-51, Nat Top J-55, Nat Top J-60, Nat Top SAXON Class Range 813 814 815 816 Folk Range 817 818 Jumbo Range 819 820 821 822 823 824 825 Solid Range Saxon 830 Sld Electric Saxon 831 Sld Electric BANJOS & MANJOLINS AA Tenor 3 AA 5 String 3 Tenor 3	471-00 485-00 371-00 349-00 425-00 477-00 445-00 334-00 334-00 39-00 65-00 46-00 55-50 60-00 57-00 62-00 57-00 94-00 117-00 98-00 816-00 817-00 817-00 818-00	3443 Artist + case

1405 G Banjo	STRINGS & THINGS RIENCKBACKER olids: 430 2 p/u, nat mahog. 450 10 riginal zhyu	2858	521. 235-00 512. 240-00 513. 98-50 516. 61-00 511. 50-75 512. 58-50 512. 58-50 512. 22-75 80. 45-00 100. 59-75 EM.I. 42-50 *Prices include Hard Shell case W.M.I. GI01 Std, Flk. 10-95 K200 Folk. 16-95 K200 Folk. 16-95 K200 Folk. 16-95 K200 Folk. 16-95 K320 Concert Folk. 20-95 KD28 Jbo Western. 33-50 KD28-12 12st Jbo. 39-50 KD28-12 12st Jbo. 39-50 KJ28-12 12st Jbo. 39-50 KJ28-12 12st Jbo. 39-50 KJ75 J.L. Seaguil. 23-95 KDG.70 D/I Jbo. 39-50 KJ75 J.L. Seaguil. 23-95 KC.265 Student. 18-75 KC.333 Concert 19-75 KC.235 Classic: 15-50 KOG50 D/I Classic. 26-95 Electric: KC.26 Student. 18-75 KC.325 Classic: 15-50 KOG50 D/I Classic. 26-95 Electric: KIB. 130 Bs long scale E. 120 Single p'u. 23-95 KZT. S.G. 2 p/u. 27-95 Banjo: KB.52 Deluxe. 39-50 WOODS G 400 Standard. 10-04 G I S0A Classic. 18-23 G 152 Folk. 25-68 G 180 Classic. 30-78 G 140 Jumbo. 31-19 WELSON: CLASSIC GUITARS Cordoba. 53-29 Valencia. 56-05 Navarra 59-13 Granada 67-87 Castilla. 97-36 Sevilla. 97-36 Sevilla. 97-36 FT/ISU-ger Luxe. 76-95 WESTERN GUITARS FOLK GUITARS FILOR CUITARS	SOLID BODY ELECTRIC GUITARS Dyno II
ANPLIF	M810N 39 011 M57 Omni 26 75 M57V Omni w, amp 34 84 M101C Omn 64 65 BOOSEY& HAWKES AMPEG GUITAR COMBOS VT40 60W valve 386 00 VT22 100W valve 453 00 G212 120W s state 467 00 G410 120W s state 534 00 AMPEG BASS COMBOS B115 120W s state 534 00 AMPEG BASS COMBOS B115 120W s state 420 00 B410 120W s state 420 00 B410 120W s state 420 00 B15N 30W valve 487 00 B15N 30W valve 487 00 BMPEG AMPS HDSVT 300W valve 416 66 AMPEG AMPS B15Y 300W valve 560 00	SYSTEMS	EAKER CA CANARY (EX. VAT) 'B' Series Mixers 12/1.	159-00

2 x 12" horn PA	1038, 100W L&B 138-70				
240W	1039, 2 x 5 cab., 120W, Id 122-21	To avoid unnecess	sary repetitions, cer-	ELECTROSOUND	G.M.S.
ACCESSORIES Mantis	1040, 2 x 15 cab., 120W, bass 118-62		are frequently used	Custom-built, prices on application	P&N microphone stands: CT 102S, floor 15.64
Twin Deck	1050, 2 x 12 cab., 50W, ld		ctric - elec; custom -		GM167, floor
Fuzz Unit	100W, bass , 98.81 1063, 4 x 12 cab.,			ELECTRO-VOICE (EX. VAT)	GM139, boom stand . 16·18 GM115, boom 7·83 GM120, boom 9·41
Wah Fuzz Pedal 21:00 Phazer 27:25	100W, d 129.00 1064, 4 x 12 cab.,		c - s/ac; organ - org;	FC100 horn 72-39	GM121, boom 10-42 GM137, boom 6-86
Super Phazer	100W, bass 129-00 1047, 2 x 10 cols.,	professional - pro;	standard - sfd;	1823, 110W driver 62-23 1829, 60W driver 65-41	GMI09, table top 8.06 GMIII, table top 9.27
413N Mike 48:00 Sennheiser MD-	60W pr	acoustic - ac; fo	lk - fk; bass - bs;	848A CDP speaker 111-13 Eliminator 698-50	GM148, low level 9-43 GM149, low level 10-61
416N Mike 64:00 Microphone Lead 9:00	120W, pr	string - str; de lu	uxe - d/l; jumbo -	Eliminator II	
Microphone Stand 11.50 Boom Arm 7.50 Amplifier Stand 30.00	100W, pr	jbo; piano - pno; le	ft hand - I/h; scale -	EVM12L speaker 123:83 EVM15B speaker 128:91 EVM15L speaker 126:39	G.P. ELECTRONICS
Amplifier Stand 30-00 Disco Stand 19-12	300W. pr	sc: case - cs: banio	o - bjo; monitor - mt.	EVM18B speaker 142-88 SP8B, 8 coaxial 57-15	I.C. 130
C.B.S. ARBITER	1069, 8-change mixer, 257-41 Solid State amps:		5,0,0,0	12TRXB. 117-48 T25A driver. 76-20	PAR 130
(EX, VAT)	1071 50W, L & bs 118-84 1072 100W L & bs 127-57 1073 50W PA 118-84			T350, VHF driver, 85-73 8HD horn 28-58	30 + 60 COMBO 143-63
FENDER Dual Showman, 2 x D 130F JBL	1073 50W PA	Rotary cabs:	MF-12 12 Cabinet 525-37 MF-10 12 Horn 620-89	51.1/4 0.014	FM ACOUSTICS
Dual Showman, 2 x D 140F JBL	1060, sound/light control. 43-47	LP65. 339.00 LP200. 800.00	XII SRS Bi-Amp Slave 525-37 II BC 6 Ch Mixer 505-03		SSH E-1 df pedal 72-00 5SH Vdf super pedal . 89-00
Dual Showman, top.: 424-70 Dual Showman,	1061, lighting cabs., set 3	Microphones: K695 Dynamic card-	III BC 8 Ch Mixer 926-36 20 SRM 12 Ch Mixer . 4261-82	50	SSH Phaser-filter 57-00 SSH Distort, booster 41-00
Reverb Enclosure 2 x D130F speakers 348-75	1949, fuzz sound 10-36 1041, minireverb	ioid	20 SRM 16 Ch Mixer . 5002-77 20 SRM 20 Ch Mixer . 5741-43 20 SRM 24 Ch Mixer . 6486-81	6102 Universal Amp. 100	FM C5EST horn 23:00 FM C7EST horn 48:00
Quad Reverb, 4 x 12-inch speakers 539:00	mixer, 6 chan, 66·50 1041F, footswitch 2·88	ioid	X Slave Stereo 370.68 XX Slave Stereo 741.34	200	FM C8 H.F. horn 31:00 FM C35 15 cell horn . 304:00
Quad Reverb, 4 x D 120F speakers 768-50 Super Six, 6 x 10-	Celestion spkrs: 1051, G12M, 25W 15-33	D. B. WHOLESALE	Passive Crossover 95-53		D2 Multicell driver 57.00 D4 Driver 57.00 D5 Driver 62.00
inch speakers 517.70 Vibrosonic Reverb	1052, G12H, 30W 18-28 1053, G15M, 50W 22-98	KUSTOM	Suggested Sound Reinforcement Groups Group No. 1 2627-27	EPICENTRUM	E2-E4 Network 3- way
1 x D130F JBL 488-25 Twin Reverb, 2 x 12-	1055, G18C, 100W 41-23 1056, S10, 15W 5-49	Lead Amplifiers V L Self-Contained 175.00	Group No. 1	(EX. VAT)	E2-E4 Network in housing 60.00
inch speakers 457-25 Twin Reverb, 2 x D	J. T. COPPOCK	I L Self-Contained 268:66 II L Self-Contained 429:83	Group No. 4, 5588·00	Inst. Reflex	Dest double entry 11.00
120F JBL. 586-80 Bandmaster, 2 x 12		III L Piggyback	Graphic Equalizer Graphic Equalizer 191-05	Acoustic lens — hf hns 350-00 3-way bin	HAMMOND
inch	ELGEN Details and prices on applica- tion.	III L Amplifier only 342-67		2-way bin	LESLIE, TONE
H20F JBL	don.	only	DISCOSOUND	Lower mid horn 240-00 Upper mid – hf hn 255-00	CABINETS 110
sure	CUSTOM SOUND	IV L Speaker Cabinet only	AMPLIFIERS Discosound 70 91.80	Acoustic lens 325.00 Bass inst. reflex 185.00	130. 365·00 145. 440·00 147. 470·00
10-inch	Amplifiers:	IV L Two Speaker Cabinets 685-35	PROFESSIONAL 85-32	Empty module 135.00	147RV. 565-00 122. 470-00
D	CS 700 BM 137-95 CS 700 CV	Bass Amplifiers V B 5elf-Contained 155:00	SERIES AMPLIFIERS T.K. Pro 200 Slave 150-12	E.S. ELECTRONICS	122RV
12-inch	C5 700 DB	IB Self-Contained 251-80 II B Piggyback 385-35	T.K. Pro 200 P.A 182-52 T.K. Pro 250 Stereo. 150-12	1006 S/L 150 126·90	700
De Luxe Reverb, 1 x 12-inch	CS 700A 176-70 CS 700B 147-25	III B Piggyback	DISCOTHEQUES	1007 PA200/R 220-86 1010 PA100T/C 143-64	770 565·00 18 290·00
Princeton Reverb,	C5 700C. 100-75 CS 700D. 201-50 CS 700DX. 238-70	II B Amplifier only 256-96 II B Speaker Cabinet	MONO Disco Midas	1011 PA100S, 120W . 143-64 1012 PA67TC 92-07 1013 PA605 92-07	60 415·00 825 400·00 760 565·00
Princeton, 1 x 10-	Mixer: CS 700MXR 12 ch 396·80	only	Disco Magister 253-80	1015 B200 142-78	910
Champ, I x 8-inch 75-95 Bassman 100, 4 x	Monitoring:	III B Speaker Cabinet only	DISCOTHEQUES STEREO	1017 HF100	9370 Combo pre-amp 84.00
12-inch	CS 7WM. 49.60 C5 7WM5 58.90	IV B Amplifier only 685-37 IV B Speaker Cabinet	Disco Dart,	1019 FH400	9875 Combo pre-amp 51:00
closure	Enclosures: CS 7212	only	Disco Roadstar Ster. 594-00 SPEAKER SYSTEMS	1021 PA60M	HH ELECTRONIC
inch	CS 7212H	Chassis Speakers	Venus single 12" 50W	1023 SID disco cab 279-72 1024 Unit 63 disco 180-36 1002 N/S 211-68	(EX.VAT)
Musicmaster bass, I ×	CS 7115	12" 5RO Electro- voice Speaker, 106·16 15" SRO Electro-	Jupiter bin-horn 194-40 Jupiter Super bin-	1003 PA100/R 180-36 1004 AP150 165-78	AMPLIFIERS VS Musician 100W
12-inch	C5 7DH	voice Speaker 111-63	horn	1005 AP200 202-50	VS Musician 100W 130.97 VS Bass amp 100W 124.23
PA100 column	C5 7412	P.A. Equipment	Autopulse Mk I 32-40 Autopulse Mk II 74-52	FAL	VS Musician combo 100W
PA160 4 x SC3-10 905-20 PA160 Amp Top 547-15	C5 7112DHTBA CS 7215B192-20 CS 7015FH114-70	II P.A. Column 94.00 II A-P.A. Complete 611.32	ACCESSORIES Disco Stand 21-06	Minstrel 2 19-60	VS Musician rvb com- bo 100W 196-85
PA160 SC3-10 colmn. 108-50	CS 7015FHS	II P.A. Energizer 372-06 II A-P.A. Column 127-28	Spot Bank	Super Minstrel 24-30 Maestro 43-74	INSTRUMENT LOUDSPEAKERS
CERWIN VEGA	DARBURN	III P.A. Complete 993-41 III P.A. Energizer 350-93	Record Case	Phase 50	412 BL 4 x 12 200W. 158-87 215 BL 2 x 15 200W. 172-25
Vocal Reinforcement systems	Reverb 69·00	III P.A. Column 215:40 III A-P.A. Complete 1223.54	Colour Bulbs (E.S. fitting)	Phase 100, 2 amp 73.98 Super 100 amp 82.94 P100 slave 41.90	PA AMPS MA100 5 ch 100W 149-17
V.30A 150W	Darburn 30	III P.A. Energizer 587-46 III A-P.A. Column 323-10 VI P.A. Complete 1662-04	Colodi Changer 23 70	P100 slave	MA 100\$ 5 ch 100W 138:41 \$130 slave 100W 89:90
V.34 300 W 365 · 00 VH.36 400 W 540 · 00	Twin 12/60	VI P.A. Energizer 881-19 FLH-15 Cabinet 251-53	D. J. ELECTRONICS	100, 2 x 12 cab 56-92 Dug 100, 2 x 12 cab 97-74	PA LOUDSPEAKERS 212 DC 2 x 12 100W . 99-14
Musical Inst. systems G.32 200W 265:00	Session 80	M-15 Horn 166-45 VI A-P.A. Complete . 2044-13	(EX. VAT)	Major, 4 x 12 cab 87-97 Disco 87-97	412 DC 4 x 12 160W . 150-24 Mini horn 50W 62-77
B.36 300W. 315·00 B.48 300W. 415·00	RV\$-100 239·75	VI A-P.A. Energizer. 881-49 FLH-15 SRO Cabinet 362-28	D.J. 100 Mk. II	Disco pre-amp 18:50 Power Disco 129:60	Radial horn 100W 110-67
B.36MF 300W 395.00 B.48MF 400W 475.00	DAVOLI	MT-15 Horn	D.J. Disco Mixer Mk. V	PA 200 cols (pr) 146-88	100W 107·99 Mon combo 137·17 Mon ext
Sound Reinforcement	Mixers: Compact 8/100 295-00	PRO 15T SRO Cab 268-60 Monitors and Accessories	D.J. Stereo Mixer Mk. II	FARFISA	ECHO UNITS
L.48CF 500W 425-00 L.48CFD (L.48CF w.	Echo 6/100 392.00 Reverb 12/100 696.00	315P Monitor Spkr 166-86 If Monitor Speaker 94-00	D.J. Powermaster 100 79.00	R5C 350 Rotating	Single-head echo 134:85 Multi-head echo 145:70
hrn ext op) 545.00 L,48DD 2000W 1255.00	Multimodular Stereo 18, 999-00	III Montior Speaker. 321-04 III Monitor Amplifier 316-22	D.J. Powermaster 150	sound cabinet, 160-watt amp 588-60	HIWATT (EX. VAT)
HRM.1 100W 325-00 HF.6 100W 149-00	Studiograph Stereo 770-00 Monitor:	Snake	D.J. Stereo Power- master 200 120.00	RSC 180 Ditto, with 80-watt amp 340-20 OR 200, 106-watt	DR504 50W 115:00
CLEARTONE	Spia 100W	Mixers and Slaves VIII SRM 8 Ch Mixer 1050-72 FLH-15 SRO Cabinet 362-28	D.J. Stered Power- master 300	amplifier and two speaker cabinets 513-00	DR103 100W 149-00 DR201 200W 189-00
CMI	Speaker cabs: DK90 i x 15 + twtr 214-00 DKI 0 x 15 +	MT-15 Hn Tweeter 244-79 VII SRS Slave	D.J. Disclite Mk. II 60.00 D.J. 150 Amplifier, 94.00	TR 70, portable, 60W two chan	DR112 PA 100W 158-00 DR203 PA 200W 214-00
1037, 50W L&B 119-23	tweeters	XII SRM 12 Ch Mixer 1719-37		CL30 Amp. (Cab 237-60	STA100 slave 100W 118:00
112					

STA200 slave 200W 174-00 SE4121 50W cab 4 x	Bass Combos: 136 125W x 15"	STAK S.L	MALIBICE	L 125 405-95 LM 30, 138-65	610S
12" 123.00	2 chn	STAK 5, ,,	MAURICE	LM 40, 168-65	1155168-00
SE4123 100W cab 4 x 12"	Amplifiers:	RAK S.L	PLACQUET	M 62 370-80 M 82 446-10	115M
SE4122 150W cab 4 x	150 125W 2 chn. rev. 254-23 270 375W Graphic	RAK Cab,,	AMPEG	M83S, 520-80	215M 246-00
12" 152-00 SE4129 200W cab 4 x	rev	Slave Pwr Amp 100 ,, Disco Mixer Type	Ampeg V4 stack TBA Ampeg V4 B System TBA	M1235	215SH
12"	470 170W Graphic 2 chn rev 451-41	145,	Ampeg B I5N porta-	M 122 , 569·15	118M 318·00
SE4124 50W col 4 x 12" 118:00	Bass Amplifiers:	Disco Mixed Type	bass TBA Ampeg V2 system, TBA	M 162	118MH
SE4125 i00VV col	140 125W 2 chn 223·16 370 375W Graphic 389·26	Disco Unit	ACOUSTIC	M 1645 1126-60	4105 156-00
4 x 12" 141-00 SE4126 150W col	450 170W Graphic 353·10	Disco Unit w 100W	371 system TBA 271 system TBA	Echo/reverb units	410M 348-00
4 x 12" 158.00	Cabinets: 1046 x 10" 211.30	Disco Unit Deluxe	271 373 Celli,	ER 300	CONTROL AUDIO-
SE2123 30W mon 71.00 SE2124 75W mon 90.00	105 4 x 12" 211·30	(Double T) ,, Mixer 800/M ,,	MM ELECTRONICS	ER 800 242-90	CONTROLLER OPTIONS
SE2125 100W mon 116-00	201 Altec 2 x 15"- hn	Mixer 800/MP ,	EX. (VAT)	Line source mixers X 41R	Model 40 1257:00
SE2120 100W mini bn 143·00 SE320 200W horn bn 189·00	404 6 x 12" 281.92	Lighting Units		X 61R 242-90	Model 41
SE2150 ISOW bass bn 155-00	405 4 x 12"hn 338-42 PA Mixers:	Discotron MKII I-	Mixing consoles: MP 175 12 chn 250.00	LS 50 161-90 LS 75 246-80	Model 60 1407-00
Type B stereo mixer 16/41200-00	890 16 chn — multi-	Discotron MII 2-2000 "	MP175 8 chn 204-00	LS 100 311-40	Model 61
NCA108 200W solid	core	Strobe Super (self- contained),	MP175 16 chn 310·00 MP185 Super16 490·00		Model 80 1557-00
state amp	Slave amplifiers:	Strobe Super 6,	MP175 8/4 350.00	ORANGE	Model 81
SA212R I00W combo	300 275W mono 310·17		MP175 12/4 390·00 MP275 12 chn in	NAME OF TAXABLE PARTY.	
w.reverb/vibrato, 217.00 DRD001 Sound Desk 253.00	400 375W pr chn. stereo 593-22	A A A CININIE C	flight case 390-00	CABS 1 5 Bass 60W, I x	
	Bass cabinets:	MACINNES (EX. VAT)	MP285 Super 16 in flight case 630.00	15" inv. horn 159-51	PEAVEY
HOHNER	106 2 x 15"	(EX. TAT)	Amplifiers:	114,110 Bass, 100W, 1 x 15" inv. horn 253-28	exc VAT
	301 Vega I x 18" bn., 429-37	CROWN INT/AMCRON	PA150 Slave 90-00	113 Reflex Bass, 2 x	Combination Amplifiers
Schaller Solo Uni 94-25 Orgaphon 60 Amp 434-80	PA Amplifiers: 870 170W 6 chn.	IC150 Stereo Pre- Amp 285-00	WA600 Mixer/Amp. 187-00 AP360 100W, 180-00	15" 20W 235-62 13/200 Reflex Bass,	PII2 Pacer 4SW 1 x 12" w. reverb 170-50
Orgaphon 130 Amp. 416 75	Graphic rev 564.40	D60 Power Amp 197-00 D150A	19" Rack Mounting	2 x 15" 200 W 313.99	TNT Tn t 45W I x
OTS 130 Speaker 316.70 Orgaphon Box 80	850 275 W 8 chn. rev. —	DC300A, 520-00	Equipment: EPI22 2-way elec.	109, 4 x 12" 120W 171-39 107, 2 x 12" Monitor,	15" bs unit
Spk185·55	PA Enclosures: 804 2 x 12", 3 x 8",	M600	cross	60W	2 x 12" w, reverb
Dynamite	2 x sib. proj 183-62	M2000	EP123 3-way elec. cross	114/4H, 1 x 15" inc. horn, 4 horns and	Automix 248-00 CL410 Classic 50W
	807 Full range	Crossover Unit 245.00	EP127 7-way graphic	cross	4 x 10" w, reverb
HUBNIDA CAEMICO	2 x sib. proj 480·23 809 Horn enc 253·67	OCI50 Output Con- Cent 280.00	EQ	106, 4 x 12" anti- feedback col 171-39	Automix
HORNBY-SKEWES	810 4 x 12" Bass enc 366.66	Walnut End for D60	EPI4I st. comp.	HORNS	2 x 12" w, reverb
MILES PLATTING	811 Horn enc	Walnut Enc for	EP161 sub-mixer 93:00	108 Horn unit, 100W 189-70	Automix 333-25 A112 Artist 120W
V50	Keyboard mixers:	DI50A or ICI50 Amp.,		[2] A 2 horńs	l x 12 w. reverb .
V.100152.00	500 4 chn	Walnut Enc for	MUSIC MAN	MIXER AMPS	Automix 333-25 M212 Mace 160W
C,50		DC300A Amp 44:00 IC150 Acc Packs 4:00		104B, 6 chann, 120W PA	2 x 12" w. reverb
PA.50.S PA spkr 149.00	KNELLER	ES212 75W two Unit	Combo Amps 112-65	102, 120W, graphic	Automix 441-75 M4(2 Mace 160W
PA 100	WASHBURN	Sys 598-00 IMA Intermod Dist	115-65	PA	4 x 2" w. reverb
ZENTA	PA 475 P.A. Amp 139-32	Analyser 555-00	210-65	PA 181-62	Automix 527-00 SN212 Session 200W
Z3	GT 275 Guitar Amp . 116-64 GT 275R Guitar Amp		410-65 518-36	103T, 200W, Siave 255-87 111, 120W, graphic	2 x i2" w. reverb 410.75
37 30	with Reverb 163-48	Maria de la Companya	210HD-130 504-18 212HD-130 592-51	Slave 175-00	SN12EV Session 200W 2 x 12"
JOHN BIRCH	CB 275 Guitar Comb 220-32 CB 275B Bass Combo 194-40	MARLBORO	41OHD+130 596-79	III 80, 80W, graphic Slave	Electro-Voice spkrs 519-25
OOTH DINCH		the state of the s	Heads	112, 120, 120W 184·92	SN115 Session 200W
	Banjax 6 ch mixer 149-04	GA2 Amp 59-95			1 x 15" JBL or
Penetrator:	P.A.M. 10 10 Ch	GA2 Amp 59-95 GA3 Amp 67-60	65	112.80 80W graphic . 175.00 115, 80W combo 256.83	Black Widow. 503-75
Penetrator: 15in, Crescendo 151-20 15in, Gauss 183-60	Banjax 6 ch mixer 149-04 P.A.M. 10 10 Ch Mixer	GA3 Amp	65	112.80 80W graphic . 175.00 115,80W combo 256.83 115 R 80W, combo	
15in, Crescendo 151-20 15in, Gauss	P.A.M. 10 10 Ch Mixer	GA3 Amp. 67-60 G20R Amp. 127-55 G40R Amp. 161-40 G60R Amp. 195-15	65	112.80 80W graphic . 175.00 115, 80W combo 256.83 115 R 80W, combo with Hammond	Black Widow. 503-75 LTD115 LTD 200W
15in. Crescendo 151-20 15in. Gauss 183-60	P.A.M. 10 10 Ch Mixer	GA3 Amp. 67-60 G20R Amp. 177-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 15RH65. 252-80		Black Widow. 503-75 LTDI15 LTD 200W x 15" JBL or Black Widow 503-75
15in, Crescendo 151-20 15in, Gauss 183-60 12in, Crescendo 102-60 12in, Gauss 129-60	P.A.M. 10 10 Ch Mixer	GA3 Amp. 67-60 G20R Amp. 127-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-92	65. 288-32 65REV. 349-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures I15RH65. 252-80 212RH130. 310-57	112.80 80W graphic . 175.00 115,80W combo 256.83 115 R 80W, combo with Hammond reverb	Black Widow. 503·75 LTD115 LTD 200W I x 15" JBL or Black Widow 503·75 Instrument Amplifier Heads
15in, Crescendo 151-20 15in, Gauss	P.A.M. 10 10 Ch Mixer. [68-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH 106-92 W15MBH. 152-28	GA3 Amp. 67-60 G20R Amp. 177-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 15RH65. 252-80	112.80 80W graphic	Black Widow. 503·75 LTDI15 LTD 200W I x 15" JBL or Black Widow 503·75 Instrument Amplifier Heads CY Century 100W all purpose 166·62
15in, Crescendo	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W212G. 113-40 W215B. 143-37	GA3 Amp. 67-60 G20R Amp. 127-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab. 137-95	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59		Black Widow. 503-75 LTD115 LTD 200W I x 15" JBL or Black Widow 503-75 Instrument Amplifier Heads CY Century 100W all purpose 166-62 SAP Standard 130W
15in, Crescendo	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH 152-28 W212G 113-40 W215B 143-37 W18B. 197-64	GA3 Amp. 67-60 G20R Amp. 127-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS158 cab. 104-30	65. 288-32 65REV. 349-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures I15RH65. 252-80 212RH130. 310-57	112.80 80W graphic 175.00 115,80W combo 256.83 115 R 80W, combo with Hammond reverb	Black Widow. 503-75 LTD15 LTD 200W I x 15" JBL or Black Widow 503-75 Instrument Amplifier Heads CY Century 100W all purpose 166-62 SAP Standard 130W all purpose-reverb-Automix 224-75
15in. Crescendo. 15i-20 15in. Gauss. 183-60 12in. Crescendo. 102-60 12in. Gauss. 129-60 KEMBLE YAMAHA P.A. and Ensemble: PM2008. 292-00 P575B pr. 493-00	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W212G. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46	GA3 Amp. 67-60 G20R Amp. 127-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab. 137-95	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 15RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50	112.80 80W graphic 175.00 155.80W combo 256.83 15 R 80W, combo with Hammond reverb	Black Widow. 503-75 LTD115 LTD 200W I x 15" JBL or Black Widow 503-75 Instrument Amplifier Heads CY Century 100W all purpose 166-62 SAP Standard 130W all purpose-reverb – Automix 224-75 B Bass 200W w.
151-20 1	P.A.M. 10 10 Ch Mixer. [68-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W212G 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass. 458-46	GA3 Amp. 67-60 G20R Amp. 127-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab. 137-95	65. 288-32 65REV. 348-59 HD130 360 15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50	112.80 80W graphic	Black Widow. 503-75 LTD115 LTD 200W I x 15" JBL or Black Widow 503-75 Instrument Amplifier Heads CY Century 100W all purpose 166-62 SAP Standard 130W all purpose-reverb- Automix 224-75 B Bass 200W w. Eq. Automix 286-75 M usician 200W w.
151-20	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH 106-92 W15MBH 152-28 W212G 113-40 W215B 143-37 W18B 197-64 ROAD 440 Lead 458-46 440 Bass 458-46 220 Lead 364-50 220 Bass 364-50	GA3 Amp. 67-60 G20R Amp. 177-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab. 137-95 SC40 column. 128-20	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan Session Master straight 50. 138-00	112.80 80W graphic 175.00 155.80W combo 256.83 15 R 80W, combo with Hammond reverb 308.28 155. 120. 120W, combo 326.97	Black Widow. 503-75 LTD115 LTD 200W I x 15" JBL or Black Widow 503-75 Instrument Amplifier Heads CY Century 100W all purpose 166-62 SAP Standard 130W all purpose-reverbe-Automix 224-75 B Bass 200W w. Eq - Automix 286-75 M Musician 200W w. Eq - effects - Automix 313-88
15in. Crescendo. 15i-20 15in. Gauss. 183-60 12in. Crescendo. 102-60 12in. Crescendo. 102-60 12in. Gauss. 129-60 1	P.A.M. 10 10 Ch Mixer. [68-48 150S Slave. 99-65 SPEAKERS W21ZPA 72-90 W12PDC 65-61 IPRO12PH 106-92 W15MBH 152-28 W212G. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 220 Lead. 364-50 220 Bass 364-50 212 Lead combo. 498-96	GA3 Amp. 67-60 G20R Amp. 177-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab. 137-95 SC40 column. 128-20 MAINE AMPLIFIERS	65. 288-32 65REV. 348-59 HD130 360 15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan Session Master straight 50. 138-00 As above—tremolo. 145-00	112.80 80W graphic 175.00 15,80W combo 256.83 15 R 80W, combo with Hammond reverb 308.28 15, 120. 120W, combo 326.97	Black Widow. 503-75 LTD115 LTD 200W I x 15" JBL or Black Widow 503-75 Instrument Amplifier Heads CY Century 100W all purpose 166-62 SAP Standard 130W all purpose-reverb-Automix 224-75 B Bass 200W w. Eq.—Automix 286-75 M Musician 200W w. Eq.—effects:—Automix 313-88 MA Mace 160W w.
151-20	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W212G. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 220 Lead. 364-50 220 Bass 364-50 212 Lead combo. 498-96 118 Bass combo. 498-96 Speakers	GA3 Amp. 67-60 G20R Amp. 177-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 15-25 P200W slave 161-90 SM600 mixer 154-95 SC15B cab. 104-30 LS20LH cab. 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 15RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan Session Master straight 50. 138-00 As above—tremolo. 145-00 As above—reverb. 171-00 Nolan Session Master	112.80 80W graphic 175-00 115, 80W combo 256-83 115 R 80W, combo with Hammond reverb. 308-28 115, 120, 120W, combo 326-97	Black Widow. 503-75 LTD115 LTD 200W I x 15" JBL or Black Widow 503-75 Instrument Amplifier Heads CY Century 100W all purpose 166-62 SAP Standard 130W all purpose-revelbe-Automix 224-75 B Bass 200W w. Eq.—Automix 286-75 M Musician 200W w. Eq.—effects - Automix. M Macc 160W w. reverb-Automix. 313-88 SN Session 200W w.
151-20 1	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W21ZG. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 440 Bass 458-46 20 Lead. 364-50 212 Lead combo. 498-96 I18 Bass combo. 498-96 Speakers 412. 298-08	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100B. 97-09	65. 288-32 65REV. 348-59 HD130 360 15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan Session Master straight 50. 138-00 As above—tremolo. 145-00 As above—reverb. 171-00 Nolan Session Master straight 100. 198 00	112.80 80W graphic 175.00 115,80W combo 256.83 115 R 80W, combo with Hammond reverb. 308.28 115, 120, 120W, combo 326.97	Black Widow 503-75 Introduction 503-75 Instrument Amplifier Heads CY Century 100 W all purpose 166-62 SAP Standard 130 W all purpose 224-75 B Bass 200 W w Eq - Automix 286-75 M Musician 200 W w Eq - Effects - Automix 313-88 M Ance 160 W w reverb - Automix 313-88 SN Session 200 W w reverb - Automix 313-88 SN Session 200 W w reverb - Automix 313-89 Charles Charles Charles W Charles Charles Charles W Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Charles Cha
151-20	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W212G. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 220 Lead. 364-50 220 Bass 364-50 212 Lead combo. 498-96 118 Bass combo. 498-96 Speakers	GA3 Amp. 67-60 G20R Amp. 127-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 15-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100B 97-09 Musician 100W combo. 259-47	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan Session Master straight 50. 138-00 As above—tremolo. 145-00 As above—reverb. 171-00 Nolan Session Master straight 100. 198-00 As above—tremolo. 205-01 As above—tremolo. 205-01 As above—tremolo. 205-01 As above—tremolo. 205-01	112.80 80W graphic	Black Widow. 503-75 LTD115 LTD 200W x 15" JBL or Black Widow 503-75 Instrument Amplifier Heads CY Century 100W all purpose 166-62 SAP Standard 130W all purpose-reverb Automix 224-75 B Bass 200W w. Eq.—Automix 286-75 M Musician 200W w. Eq.—effects.—Automix 313-88 MA Mace 160W w. reverb.—Automix. 313-88 SN Session 200W w. FSOGG Festival Series 400W w. reverb,
151-20 1	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W212G. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 420 Lead. 364-50 220 Bass 364-50 212 Lead combo 498-96 I18 Bass combo 498-96 Speakers 412. 298-08	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab. 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Arcist 100A 162-37 Standard 100S 133-92 Booster 100B 97-09 Musician 100W combo. 259-47 Musician Super 100W	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan 50 amp. 138-00 As above—tremolo. 145-00 As above—tremolo. 145-00 Nolan Session Master straight 100. 198-00 As above—tremolo. 198-00 As above—tremolo. 205-01 As above—tremolo. 231-00 Nolan 4 x 12 Celes-	112.80 80W graphic 175.00 115,80 W combo 256.83 115 R 80W, combo with Hammond reverb. 308.28 115, 120, 120W, combo 326.97	Black Widow. Black Widow. 1 x 15" JBL or Black Widow 503-75 Instrument Amplifier Heads CY Century 100W all purpose 166-62 SAP Standard 130W all purpose-reverbe-Automix 224-75 B Bass 200W w. Eq.—Automix 286-75 M Musician 200W w. Eq.—Automix 313-88 MA Mace 160W w. reverbe-Automix. 313-88 SN Session 200W w. rbb
151-20 1	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W212G. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 420 Lead. 364-50 220 Bass 364-50 212 Lead combo 498-96 I18 Bass combo 498-96 Speakers 412. 298-08	GA3 Amp. 67-60 G20R Amp. 127-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100B 97-09 Musician 100W combo. 259-47 Musician Super 100W combo. 492-15 LOUDSPEAKER	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan 50 session Master straight 50. 138-00 As above—tremolo. 145-00 Nolan Session Master straight 100. 198-00 Nolan Session Master straight 100. 198-00 As above—reverb. 171-00 Nolan Session Master straight 100. 198-00 As above—tremolo. 205-01 As above—tremolo. 231-00 Nolan 4 x 12 Celestion cab. 123-75 Nolan 2 x 12 dual	112.80 80W graphic	Black Widow. 503-75 LTD115 LTD 200W x 15" JBL or Black Widow 503-75 Instrument Amplifier Heads CY Century 100W all purpose 166-62 SAP Standard 130W all purpose-reverb Automix 224-75 B Bass 200W w. Eq.—Automix 286-75 M Musician 200W w. Eq.—effects.—Automix 313-88 MA Mace 160W w. reverb.—Automix. 313-88 SN Session 200W w. FSOGG Festival Series 400W w. reverb,
151-20 1	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH 106-92 W15MBH. 152-28 W212G 113-40 W215B 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 220 Lead. 364-50 220 Bass 364-50 212 Lead combo. 498-96 I18 Bass combo. 498-96 Speakers 412. 298-08 118. 298-08 215. 298-08	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100B 97-09 Musician 100W combo. 259-47 Musician Super 100W combo 492-15 LOUDSPEAKER CABINETS	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 500 amp. 82-50 Nolan Session Master straight 50. 138-00 As above—tremolo. 145-00 As above—tremolo. 145-00 As above—tremolo. 171-00 Nolan Session Master straight 100. 198-00 As above—tremolo. 205-01 As above—tremolo. 205-01 As above—tremolo. 231-00 Nolan 4 x 12 Celestion cab. 123-75 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 dual cone cols, pair 123-00	112.80 80W graphic	Black Widow. Black Widow. S03-75 LTD115 LTD 200W I x 15" JBL or Black Widow
151-20 1	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W21ZG. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 200 Lead. 364-50 220 Bass 364-50 212 Lead combo. 498-96 Bass 458-46 18 Bass combo. 498-96 Speakers 412. 298-08 118. 298-08 215. 298-08 LANEY Amplifiers: A500 Lead/Bass. 128-52	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 1005 133-92 Booster 1008 97-09 Musician 100V combo. 259-47 Musician Super 100W combo. 259-47 Musician Super 100W combo. 259-47 LOUDSPEAKER CABINETS 212 2 × 12 spkrs. 97-09 412 4 × 12 spkrs. 97-09 412 4 × 12 spkrs. 97-09	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan Session Master straight 50. 138-00 As above—tremolo. 145-00 As above—reverb. 171-00 Nolan Session Master straight 100. 198 00 As above—tremolo. 205-01	112.80 80W graphic 175-00 115.80 W combo 256-83 115 R 80W, combo with Hammond reverb. 308-28 115, 120, 120W, combo 326-97	Black Widow. Black Widow. 1 x 15" JBL or Black Widow
151-20	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH 152-28 W212G. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass. 458-46 220 Lead. 364-50 212 Lead combo. 498-96 ISB 8as scombo. 498-96 ISB 8as scombo. 498-96 ISB 8as scombo. 498-96 ISB 8as combo. 498-96 ISB 8as combo. 498-96 LANEY Amplifiers: A500 Lead/Bass. 128-52 A510R Lead/Bass rvb 151-20	GA3 Amp. 67-60 G20R Amp. 177-55 G40R Amp. 161-40 G60R Amp. 195-15 G80 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A. 162-37 Standard 100S. 133-92 Booster 100B. 97-09 Musician 100W combo. 259-47 Musician Super 100W combo. 492-15 LOUDSPEAKER CABINETS 212 2 x 12 spkrs. 97-09 412 4 x 12 spkrs. 159-03 115C bass bin. 189-00	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 500 amp. 82-50 Nolan Session Master straight 50. 138-00 As above—tremolo. 145-00 As above—tremolo. 145-00 As above—tremolo. 171-00 Nolan Session Master straight 100. 198-00 As above—tremolo. 205-01 As above—tremolo. 205-01 As above—tremolo. 231-00 Nolan 4 x 12 Celestion cab. 123-75 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 dual cone cols, pair 123-00	112.80 80W graphic 175.00 115,80W combo 256.83 115 R 80W, combo with Hammond reverb. 308.28 115, 120, 120W, combo 326.97	Black Widow. Black Widow. TD115 LTD 200W I x 15" JBL or Black Widow
151-20 1	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W212G. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 220 Lead. 364-50 220 Bass 364-50 212 Lead combo. 498-96 I18 Bass combo. 498-96 Speakers 412. 298-08 118. 298-08 215. 298-08 LANEY Amplifiers: A500 Lead/Bass rvb A540PA Public add. 5 chn. 132-58	GA3 Amp. 67-60 G20R Amp. 127-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 SC15B cab. 104-30 L520LH cab. 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A. 162-37 Standard 100S. 133-92 Booster 100B. 97-09 Musician 100W combo. 259-47 Musician Super 100W combo. 492-15 LO UDSPEAKER CABINETS CABINETS CABINETS 112 × 125 pkrs. 159-03 115C bass bin. 189-00 115A bass bin. 189-00	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 500 amp. 82-50 Nolan Session Master straight 50. 138-00 As above—tremolo. 145-00 As above—tremolo. 145-00 As above—tremolo. 171-00 Nolan Session Master straight 100. 198-00 As above—tremolo. 205-01 As above—tremolo. 205-01 As above—tremolo. 231-00 Nolan 4 x 12 Celestion cab. 123-75 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 dual cone cols, pair 123-00	112.80 80W graphic 175-00 115, 80W combo 256-83 115 R 80W, combo with Hammond reverb. 308-28 115, 120, 120W, combo 326-97	Black Widow. 503-75 Instrument Amplifier Heads CY Century 100W all purpose 166-62 SAP Standard 130W all purpose 166-62 SAP Standard 130W all purpose 224-75 B Bass 200W 286-75 M Musician 200W 286-75 M Musician 200W 286-75 M Musician 200W 279-00 F800G Festival Series 400W 279-00 F800G Festival Series 400W 80-50 F800B F80B F80B F80B F80B F80B F80B F80
151-20	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W21ZG. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass. 458-46 220 Lead. 364-50 220 Bass 364-50 220 Bass 364-50 212 Lead combo. 498-96 Speakers 412. 298-08 215. 298-08 215. 298-08 LANEY Amplifiers: A500 Lead/Bass. 128-52 A510R Lead/Bass rvb A540PA Public add. 5 chn. 132-58 A570 Slave. 105-46	GA3 Amp. 67-60 G20R Amp. 177-55 G40R Amp. 161-40 G60R Amp. 195-15 G80 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE MAINE AMPLIFIERS Artist 100A. 162-37 Standard 100S. 133-92 Booster 100B. 97-09 Musician 100W combo. 259-47 Musician Super 100W combo. 492-15 LOUDSPEAKER CABINETS 212 2 x 12 spkrs. 97-09 412 4 x 12 spkrs. 159-03 115C bass bin. 189-00 115A bass bin. 318-06 P.A. EQUIPMENT PA170 mixer amp. 225-99	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan Session Master straight 50. 188-00 As above—tremolo. 145-00 As above—tremolo. 171-00 Nolan Session Master straight 100. 198 00 As above—tremolo. 205-01 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 plus horn cols pair. 162-00	112.80 80W graphic	Black Widow. 503-75 Intrument Amplifier Heads 13" BL or Instrument Amplifier Heads 130W all purpose. 166-62 SAP Standard 130W all purpose -revered 130W all purpose 224-75 B Bass 200W w. Eq. Automix 224-75 B Bass 200W w. Eq. Automix 24-75 B Bass 200W w. Eq. Automix 24-75 B Bass 200W w. Eq. Automix 24-75 B Bass 200W w. Eq. Automix 23-75 M Musician 200W w. reverb Automix 313-88 SN Session 200W w. reverb Automix 313-88 SN Session 200W w. reverb Automix 313-88 SN Session 200W 279-00 F800G Festival Series 400W w. reverb, effects and Eq. 480-50 F800B Festival Series 400W Bs unt w. Eq. Minimum 400W 41-75 Instrument Speaker Enclosures 151 x 15" 127-87 212 z x 12" 14-725 412 4 x 12" 5 tackabe 209-25 412 4 x 12" 228-86 228-86 209-25 412 4 x 12" 228-86 209-25 209-2
151-20 1	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W21ZG. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 20 Lead. 364-50 220 Bass 364-50 212 Lead combo. 498-96 Speakers 412. 298-08 118. 298-08 215. 298-08 LANEY Amplifiers: A500 Lead/Bass w1 A500	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100B. 97-09 Musician 100W combo. 259-47 Musician Super 100W combo. 259-47 Musician Super 100W combo. 199-03 HUSCOMBO 1150 April 199	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan Session Master straight 50. 138-00 As above—tremolo. 145-00 As above—tremolo. 145-00 As above—tremolo. 198-00 As above—tremolo. 198-00 Nolan 4 x 12 Celestion cab. 123-75 Nolan 2 x 12 dual cone cols, pair 120-00 Nolan 2 x 12 plus horn cols pair. 123-00 NOVANEX Combos Aut 3. 51-30	112.80 80W graphic 175-00 115, 80W combo 256-83 115 R 80W, combo with Hammond reverb. 308-28 115, 120, 120W, combo 326-97	Black Widow. 503-75 Intrument Amplifier Heads 13" BL or Instrument Amplifier Heads 130W all purpose. 166-62 SAP Standard 130W all purpose -revered 130W all purpose 224-75 B Bass 200W w. Eq. Automix 224-75 B Bass 200W w. Eq. Automix 24-75 B Bass 200W w. Eq. Automix 24-75 B Bass 200W w. Eq. Automix 24-75 B Bass 200W w. Eq. Automix 23-75 M Musician 200W w. reverb Automix 313-88 SN Session 200W w. reverb Automix 313-88 SN Session 200W w. reverb Automix 313-88 SN Session 200W 279-00 F800G Festival Series 400W w. reverb, effects and Eq. 480-50 F800B Festival Series 400W Bs unt w. Eq. Minimum 400W 41-75 Instrument Speaker Enclosures 151 x 15" 127-87 212 z x 12" 14-725 412 4 x 12" 5 tackabe 209-25 412 4 x 12" 228-86 228-86 209-25 412 4 x 12" 228-86 209-25 209-2
151-20	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W21ZG. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 20 Lead. 364-50 220 Bass 364-50 220 Bass 364-50 212 Lead combo. 498-96 Speakers 412. 298-08 118. 298-08 215. 298-08 LANEY Amplifiers: A500 Lead/Bass - W1 A540PA Public add. 5 chn. 132-58 A570 Slave. 105-46 A100 Valve. 142-29 Combination Amps: K20. 54-05	GA3 Amp. 67-60 G20R Amp. 177-55 G40R Amp. 161-40 G60R Amp. 195-15 G80 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE MAINE AMPLIFIERS Artist 100A. 162-37 Standard 100S. 133-92 Booster 100B. 97-09 Musician 100W combo. 259-47 Musician Super 100W combo. 492-15 LOUDSPEAKER CABINETS 212 2 x 12 spkrs. 97-09 412 4 x 12 spkrs. 159-03 115C bass bin. 189-00 115A bass bin. 318-06 P.A. EQUIPMENT PA170 mixer amp. 225-99	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan Session Master straight 50. 138-00 As above—tremolo. 145-00 As above—tremolo. 145-00 As above—tremolo. 171-00 Nolan Session Master straight 100. 198-00 As above—tremolo. 205-01 As above—tremolo. 205-01 As above—tremolo. 2131-00 Nolan 4 x 12 Celestion cab. 123-75 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 dual cone cols pair 123-00 Nolan 2 x 12 dual cone cols pair 123-00 NOVANEX Combos Aut 3. 51-30 Aut 6. 63-70	112.80 80W graphic 175.00 115.80 W combo 256.83 115 R 80W, combo with Hammond reverb. 308.28 115. 120. 120W, combo 326.97	Black Widow 503-75 Intrument Amplifier Heads CY Century 100W All purpose 166-62 SAP Standard 130W all purpose 166-62 SAP Standard 130W all purpose 224-75 B Bass 200W 24-75 B Bass 200W 24-75 Musician 200W 28-75 Musician 200W 28-75 Musician 200W 28-75 Mace 160W 29-75 Mace 160W 27-90 Fastor 27-90 27-90 F800B Festival Series 400W 27-90 F800B Festival Series 400W 85 410-75 Instrument Speaker 151 15 127-87 122 12 12 147-25 125 4 2 12 12 126 4 2 228-86 127 2 157 197-61 151 27 79-76 151 27 228-86 215 2 15 197-61 151 215 197-61 197-61 151 215 197-61 197-61 151 215 197-61 197-61 152 4 215 197-61 153 155 197-61 154 157 197-61 154 157 197-61 155 157 197-61 157 157 197-61 158 157 197-61 158 157 197-61 158 157 197-61 158 157 197-61 158 157 197-61 158 157 197-61 158 157 197-61 158 157 197-61 158 157 197-61 158 157 197-61 158 157 197-61 158 157 197-61 158 157 197-61 158 157 197-61 158 158 158 197-61 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158 158
151-20	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH 106-92 W15MBH. 152-28 W212G 113-40 W215B 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 220 Lead 364-50 220 Bass 364-50 221 Lead combo. 498-96 I18 Bass combo. 498-96 Speakers 412. 298-08 118. 298-08 LANEY Amplifiers: A500 Lead/Bass rb A540PA Public add. 5 chn. 132-58 A570 Slave 105-46 A100 Valve. 142-29 Combination Amps: K20. 54-74 K401 Lead. 129-74	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100B. 97-09 Musician 100W combo. 259-47 Musician Super 100W combo. 259-47 Musician Super 100W combo. 199-03 HUSCOMBO 1150 April 199	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan Session Master straight 50. 138-00 As above—tremolo. 145-00 As above—tremolo. 171-00 Nolan 50 sign master straight 100. 198 00 As above—tremolo. 205-01 As above—treveb. 231-00 Nolan 4 x 12 Celestion cab. 123-75 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 dual cone cols, pair 162-00 NOVANEX Combos Aut 3. 51-30 Aut 6. 63-70 Aut 10. 76-76 P15. 100-85	112.80 80W graphic	Black Widow. 503-75 LTD 15 LTD 200W 1 x 15" BL or Black Widow. 503-75 Instrument Amplifier Heads CY Century 100W all purpose 166-62 SAP Standard 130W all purpose 224-75 B Bass 200W 24-75 B Bass 200W 24-75 M Musician 200W 26-75 M Musician 200W 26-75 M Musician 200W 27-90 M Mace 160W 27-90 F800G Festival Series 400W 27-90 F800G Festival Series 400W 8-10 F800G Festival Series 400W 8-10 F800G Festival Series 400W 8-10 F800G Festival Series 410-75 F800G Festival Series
151-20	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W21ZG. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 20 Lead. 364-50 210 Bass 364-50 212 Lead combo. 498-96 Speakers 412. 298-08 118. 298-08 215. 298-08 LANEY Amplifiers: A500 Lead/Bass wb 154-20 A510R Lead/Bass rb 154-20 A510R Lead/Bass rb 154-20 A540PA Public add. 5 chn. 132-58 A570 Slave. 105-46 A100 Valve. 142-29 Combination Amps: K20. 54-05 K40L Lead. 129-74 K40B Bass. 129-74	GA3 Amp. 67-60 G20R Amp. 127-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S. 133-92 Boosser 100B. 97-09 Musician 100W combo. 259-47 Musician Super 100W combo 492-15 LO UDSPEAKER CABINETS 212 x L25 pkrs. 159-03 115C bass bin. 189-00 115A bass bin. 189-00 115A bass bin. 189-00 115A bass bin. 189-00 P.A. EQ UIPMENT PAI70 mixer amp. 225-99 212PA cab. 128-89 Tripod for cab. 33-48	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan 50 amp. 82-50 Nolan 50 amp. 138-00 As above—tremolo. 145-00 As above—reverb. 171-00 Nolan Session Master straight 100. 198-00 As above—tremolo. 205-01 As above—reverb. 171-00 Nolan 4x 12 Celestion cab. 198-00 Nolan 4x 12 Celestion cab. 123-75 Nolan 2 x 12 dual cone cols, pair 123-70 Nolan 2 x 12 plus horn cols pair 162-00 NOVANEX Combos Aut 3. 51-30 Aut 6. 63-70 Aut 10. 76-76 P15. 100-85 P25. 126-80	112.80 80W graphit. 175.00 115.80 Wy combo 256.83 115 R 80W, combo with Hammond reverb. 308.28 115. 120. 120W, combo. 326.97 326	Black Widow. 503-75 Intrument Amplifier Heads CY Century 100W Image: Same 166-62 SAP Standard 130W Image: Same 166-62 B Bass 200W w. Eq. — Automix 224-75 B Bass 200W w. Eq. — 4utomix 248-75 Musician 200W w. Eq. — 4utomix 248-50 SAME American 279-00 Family 131-88 SAME 131-88 279-00 Family 131-88 SAME 131-88 279-00 Family 131-88
151-20	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH 152-28 W21ZG 113-40 W215B 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass. 458-46 420 Lead. 364-50 220 Bass 364-50 212 Lead combo. 498-96 I18 Bass combo. 498-96 Speakers 412. 298-08 118. 298-08 215. 298-08 LANEY Amplifiers: AS00 Lead/Bass rvb A540PA Public add. 5chn. 132-58 A570 Slave. 105-46 A100 Valve. 142-29 Combination Amps: K20. 54-05 K40L Lead. 129-74 K70 Twin reverb	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100B. 97-09 Musician 100W combo. 259-47 Musician Super 100W combo. 492-15 LOUDSPEAKER CABINETS 212 2 × 12 spkrs. 97-09 412 4 × 12 spkrs. 159-03 115C bass bin. 189-00 115A bass bin. 318-06 P.A. EQUIPMENT PAI70 mixer amp. 225-99 212PA cab. 128-89 Tripod for cab. 33-48	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan 50 amp. 138-00 As above—tremolo. 145-00 As above—tremolo. 145-00 As above—tremolo. 171-00 Nolan Session Master straight 100. 198-00 As above—tremolo. 205-01 As above—tremolo. 205-01 As above—tremolo. 213-100 Nolan 2 x 12 dual cone cols, pair 213-75 Nolan 2 x 12	112.80 80W graphic	Black Widow. 503-75 LTD 15
151-20	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH 106-92 W15MBH. 152-28 W212G 113-40 W215B 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 220 Lead 364-50 220 Bass 364-50 212 Lead combo. 498-96 I18 Bass combo. 498-96 Speakers 412. 298-08 118. 298-08 LANEY Amplifiers: A500 Lead/Bass rvb A540PA Public add. 5-chn. 128-52 A510R Lead/Bass rvb A540PA Public add. 5-chn. 132-58 A570 Slave 105-46 A100 Valve. 142-29 Combination Amps: K20. 54-6. K40L Lead. 129-74 K40B Bass. 129-74 K40B Bass. 129-74 K40B Bass. 129-74 K70 Twin reverb IBL. 297-00	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100S 97-09 Musician 100W combo. 259-47 Musician Super 100W combo. 259-47 Musician Super 100W combo. 198-20 LOUDSPEAKER CABINETS 212 2 x 12 spkrs. 97-09 412 4 x 12 spkrs. 159-03 115C bass bin. 189-00 115A bass bin. 189-00 115A bass bin. 189-00 115A bass bin. 189-00 P.A. EQUIPMENT PAI70 mixer amp. 225-99 212PA cab. 128-89 Tripod for cab. 33-48 MATAMP (EX. VAT) AMPLIFIERS 120W. 145-80	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan 50 amp. 138-00 As above - tremolo. 145-00 As above - reverb. 171-00 Nolan Session Master straight 100. 198-00 As above - tremolo. 205-01 As above - tremolo. 213-00 Nolan 4 x 12 Celestion cab. 123-75 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 dual cone cols, pair 123-00 NOVANEX Combos Aut 10. 76-76 NOVANEX Combos Aut 10. 76-76 P15. 100-85 P25. 126-80 U 300. 209-40 U 500. 260-40 U 700. 302-90	112.80 80W graphic	Black Widow. 503-75 Instrument Amplifier Heads CY Century 100W all purpose
151-20	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH 106-92 W15MBH. 152-28 W212G 113-40 W215B 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 220 Lead 364-50 220 Bass 364-50 212 Lead combo. 498-96 I18 Bass combo. 498-96 Speakers 412. 298-08 118. 298-08 LANEY Amplifiers: A500 Lead/Bass rvb A540PA Public add. 5-chn. 128-52 A510R Lead/Bass rvb A540PA Public add. 5-chn. 132-58 A570 Slave 105-46 A100 Valve. 142-29 Combination Amps: K20. 54-6. K40L Lead. 129-74 K40B Bass. 129-74 K40B Bass. 129-74 K40B Bass. 129-74 K70 Twin reverb IBL. 297-00	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100B 97-09 Musician 100W combo. 259-47 Musician Super 100W combo. 492-15 LO UDSPEAKER CABINETS 21/2 2 x 12 spkrs. 97-09 41/2 4 x 12 spkrs. 159-03 115C bass bin. 189-00 115A bass bin. 318-06 P.A. EQUIPMENT PA170 mixer amp. 225-99 212PA cab. 128-89 Tripod for cab. 33-48 MATAMP (EX. VAT) AMPLIFIERS 120W. 145-80 120W slave. 141-75	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan 50 amp. 138-00 As above - tremolo. 145-00 As above - reverb. 171-00 Nolan Session Master straight 100. 198-00 As above - reverb. 171-00 Nolan Session Master straight 100. 198-00 As above - reverb. 171-00 Nolan Session Master straight 200. 198-00 Nolan 4 x 12 Celestion cab. 123-75 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 dual cone cols, pair 162-00 NOVANEX Combos Aut 3. 51-30 Aut 6. 63-70 Aut 10 76-76 P 15. 100-85 P 25. 126-80 U 30. 209-40 U 70. 302-90 U 80. 336-30 U 100W, 435-95	112.80 80W graphic	Black Widow. 503-75 Intrument Amplifier Heads CY Century 100W Image: Standard 130W Image: Standard 13
151-20	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W21ZG. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass. 458-46 220 Lead. 364-50 220 Bass 364-50 220 Bass 364-50 2212 Lead combo. 498-96 Speakers 412. 298-08 215. 298-08 215. 298-08 LANEY Amplifiers: A500 Lead/Bass rvb A540PA Public add. 5 chn. 132-58 A510 R Lead/Bass rvb A540PA Public add. 5 chn. 132-58 A570 Slave. 105-46 A100 Valve. 142-29 Combination Amps: K20. 54-05 K40L Lead. 129-74 K40B Bass. 129-74 K70 Twin reverb. 180-79 K120 Twin reverb IBL. 297-00	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100S 97-09 Musician 100W combo. 259-47 Musician Super 100W combo. 259-47 Musician Super 100W combo. 198-20 LOUDSPEAKER CABINETS 212 2 x 12 spkrs. 97-09 412 4 x 12 spkrs. 159-03 115C bass bin. 189-00 115A bass bin. 189-00 115A bass bin. 189-00 115A bass bin. 189-00 P.A. EQUIPMENT PAI70 mixer amp. 225-99 212PA cab. 128-89 Tripod for cab. 33-48 MATAMP (EX. VAT) AMPLIFIERS 120W. 145-80	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan Session Master straight 50. 138-00 As above—tremolo. 145-00 As above—tremolo. 145-00 As above—treverb. 171-00 Nolan 628-50 Nolan 2 2 12 dual cone cols, pair 123-75 Nolan 2 x 12 dual cone cols, pair 123-75 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 plus horn cols pair. 123-00 NOVANEX Combos Aut 3 51-30 Aut 6 63-70 Aut 10 76-76 Aut 10 76-76 P15 100-85 P25 126-80 U 30. 209-40 U 50. 260-40 U 70. 302-90 U 100W. 435-95 RG 30. 215-25	112.80 80W graphic	Black Widow. 503-75 Intrument Amplifier Heads CY Century 100W All purpose. 166-62 SAP Standard 130W all purpose 166-62 SAP Standard 130W all purpose 224-75 Blass 200W 286-75 Musician 200W 286-75 Musician 200W 286-75 Musician 200W 286-75 Mac 160W 279-00 SN Session 200W 279-00 F800B Festival Series 400W 279-00 F800B Festival Series 400W 80 107-5 Instrument Speaker 127-87 Instrument Speaker 128-8 128-8 Instrument 128-8 Instr
151-20	P.A.M. 10 10 Ch Mixer. 168-48 1505 Slave. 99-65 SPEAKERS W212PA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W212G. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass. 458-46 220 Lead. 364-50 220 Bass 364-50 220 Bass 364-50 2212 Lead combo. 498-96 Speakers 412. 298-08 215. 298-08 215. 298-08 LANEY Amplifiers: A500 Lead/Bass. 128-52 A510R Lead/Bass rvb A540PA Public add. 5 chn. 132-58 A570 Slave. 105-46 A100 Valve. 142-29 Combination Amps: K20. 54-05 K40L Lead. 129-74 K70 Twin reverb. 180-79 K120 Twin reverb. 154-01 C400 100W 4 x 12". 155-59 C420 120W 4 x 12". 155-51 C400 100W 2 x 15". 154-01	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100B 97-09 Musician 100W combo. 259-47 Musician Super 100W combo 492-15 LOUDSPEAKER CABINETS 212 x L25 pkrs. 159-03 115C bass bin. 189-00 115A bass bin. 189-00 115A bass bin. 189-00 P.A. EQUIPMENT PAITO mixer amp. 225-99 212PA cab. 128-89 Tripod for cab 33-48 MATAMP (EX. VAT) AMPLIFIERS 120W. 145-80 120W 147-55 Mk 1 PA amp. 172-50 Mk 2 PA amp. 202-50 100W slave. 142-55 Mk 1 PA amp. 202-50 100W slave. 142-55 Mk 2 PA amp. 202-50 100W slave. 142-55 Mk 2 PA amp. 202-50 100W slave. 142-55	65. 288-32 65REV. 348-59 HD130 360 15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan 50 amp. 138-00 As above - tremolo. 145-00 As above - reverb. 171-00 Nolan Session Master straight 100. 198 00 As above - tremolo. 205-01 As above - tremolo. 205	112.80 80W graphic	Black Widow. S03-75 LTD LTD 200W I x 15" BL or Black Widow. S03-75 Instrument Amplifier Heads CY Century 100W all purpose. 166-62 SAP Standard 130W all purpose 166-62 SAP Standard 130W all purpose 224-75 B Bass 200W w. Eq - Automix. 224-75 Musician 200W w. Eq - Automix. 286-75 Musician 200W w. Eq - Automix. 286-75 Musician 200W w. Eq - Automix. 286-75 Musician 200W w. Eq - Efects Automix. 279-00 F800G Festival Series 400W w. reverb Automix. 279-00 F800G Festival Series 400W w. Ferendam 480-50 F800G Festival Series 400W Bs 410-75 Hostrument Speaker Enclosures 151 x 5" 127-87 1212 x 12" 228-86 127-4 x 12" 228-86 125 x x 12" Stackable. 209-25 215 H 2 x 15" Hyperbolic Hn 248-00 610 6 x 10" 248-00 610 6 x 10" 348-75 185 1 x 18" Stackable. 248-75 186 H x 18" Folded Hn 36-60 Public Address Amplifiers 400-40 Amplied Address Amplifiers 400-40 Amplied Address Amplifiers 400-40 Amplied Address Amplifiers 400-40 Amplied Address 400-40 Amplied Address 400-40 Amplied Amplifiers 400-40 Amplied 400
151-20 1	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W212G. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass. 458-46 220 Lead. 364-50 220 Bass 364-50 212 Lead combo. 498-96 I18 Bass combo. 498-96 Speakers 412. 298-08 118. 298-08 215. 298-08 LANEY Amplifiers: A500 Lead/Bass rvb A540PA Public add. Schn. 132-58 A570 Slave. 105-46 A100 Valve. 142-29 Combination Amps: K20. 54-05 K40L Lead. 129-74 K70 Twin reverb J8L. 297-00 Cabinets: C400 100W 4 x 12" 135-59 C420 120W 4 x 12" 154-01 Columns: C460PA 100W 2 x 15" C54-07 Columns: C460PA 100W 2 x 12" pair. 142-47	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100B. 97-09 Musician 100W combo. 259-47 Musician Super 100W combo. 492-15 LOUDSPEAKER CABINETS 212 2 × 12 spkrs. 97-09 412 4 × 12 spkrs. 159-03 115C bass bin. 189-00 115A bass bin. 318-06 P.A. EQUIPMENT PAI70 mixer amp. 225-99 212PA cab. 128-89 Tripod for cab. 33-48 MATAMP (EX. VAT) AMPLIFIERS 120W. 145-80 120W slave. 141-75 Mk 1 PA amp. 172-50	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan 50 amp. 82-50 Nolan Session Master straight 50. 138-00 As above - reverb. 171-00 Nolan Session Master straight 100. 198-00 As above - reverb. 171-00 Nolan Session Master straight 100. 198-00 As above - reverb. 171-00 Nolan Ax 12 Celestion cab. 123-75 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 plus horn cols pair. 123-00 NOVANEX Combos Aut 10. 76-76 P15. 100-85 P25. 126-80 U 30. 209-40 U 50. 260-40 U 70. 302-90 U 80. 336-30 U 100W. 435-95 RG 30. 215-25 RG 50. 266-10 RG 80. 343-10 RG 100W. 441-00 B 535. 209-40	112.80 80W graphic	Black Widow. 503-75 LTD 15 LTD 200W x 15" JBL or Black Widow. 503-75 Instrument Amplifier Heads CY Century 100W all purpose 166-62 SAP Standard 130W all purpose 224-75 B Bass 200W 24-75 B Bass 200W 24-75 Musician 200W 28-75 Musician 200W 28-75 Musician 200W 28-75 Musician 200W 28-75 Mac 160W 27-90 For instrument 27-90 F800B Festival Series 400W 8-10 F800B Festival F800B 400W 400W F800B Festival F800B 400W 400W F800B Festival F800B 400W F800B F800W 400W F800B F800W 400W F800B F800B
151-20 1	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W21ZG. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 20 Lead. 364-50 220 Bass 364-50 212 Lead combo. 498-96 Il8 Bass combo. 498-96 Il8 Bass combo. 498-96 Speakers 412. 298-08 118. 298-08 215. 298-08 LANEY Amplifiers: A500 Lead/Bass. 128-52 A510R Lead/Bass rub A540PA Public add. 5 chn. 132-58 A540PA Public add. 5 chn. 132-58 A540PA Public add. 5 chn. 132-58 K40L Lead/Bass rub K40B Bass. 128-52 A510R Lead/Bass rub K40B Bass. 128-52 A510R Lead/Bass rub K40B Lead/Bass rub K40B Lead/Bass rub K40B Lead/Bass rub K50N Lead/Bass rub K50N Lead/Bass rub K40B Lead/Bass rub K50N	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100B 97-09 Musician 100W combo. 97-09 Musician Super 100W combo. 492-15 LOUDSPEAKER CABINETS 212 x 12 zpkrs. 159-03 115C bass bin. 189-00 115A bass bi	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan 50 session Master straight 50. 138-00 As above—tremolo. 145-00 Nolan Session Master straight 100. 198-00 Nolan 2 x 12 dual cone cols, pair 123-75 Nolan 2 x 12 plus horn cols pair 162-00 NOVANEX Combos Aut 3 51-30 Aut 6 63-70 Aut 10 76-76 P15. 100-85 P25. 126-80 U 30. 209-40 U 70. 302-90 U 80. 336-30 U 100W. 435-95 RG 30. 215-25 RG 50. 266-10 RG 80. 343-10 RG 100W 441-00 B 70. 289-90	112.80 80W graphic	Black Widow 503-75 LTD 15 LTD 200W x 15" JBL or Black Widow 503-75 Instrument Amplifier Heads CY Century 100W all purpose 166-62 SAP Standard 130W all purpose 224-75 B Bass 200W 24-75 B Bass 200W 28-75 Musician 200W 27-900 Fastous 50-900 27-9
151-20	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W212G. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass. 458-46 220 Lead. 364-50 220 Bass 364-50 212 Lead combo. 498-96 I18 Bass combo. 498-96 Speakers 412. 298-08 118. 298-08 215. 298-08 LANEY Amplifiers: A500 Lead/Bass rvb A540PA Public add. Schn. 132-58 A570 Slave. 105-46 A100 Valve. 142-29 Combination Amps: K20. 54-05 K40L Lead. 129-74 K70 Twin reverb J8L. 297-00 Cabinets: C400 100W 4 x 12" 135-59 C420 120W 4 x 12" 154-01 Columns: C460PA 100W 2 x 15" C54-07 Columns: C460PA 100W 2 x 12" pair. 142-47	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100S 97-09 Musician 100W combo. 259-47 Musician Super 100W combo. 492-15 LOUDSPEAKER CABINETS 212 2 x 12 spkrs. 97-09 412 4 x 12 spkrs. 159-03 115C bass bin. 189-00 115A bass bin. 189-00 MISO ba	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan 50 amp. 82-50 Nolan Session Master straight 50. 138-00 As above - reverb. 171-00 Nolan Session Master straight 100. 198-00 As above - reverb. 171-00 Nolan Session Master straight 100. 198-00 As above - reverb. 171-00 Nolan Ax 12 Celestion cab. 123-75 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 plus horn cols pair. 123-00 NOVANEX Combos Aut 10. 76-76 P15. 100-85 P25. 126-80 U 30. 209-40 U 50. 260-40 U 70. 302-90 U 80. 336-30 U 100W. 435-95 RG 30. 215-25 RG 50. 266-10 RG 80. 343-10 RG 100W. 441-00 B 535. 209-40	112.80 80W graphic	Black Widow. S03-75 LTD LTD 200W x 15" BL or Black Widow. S03-75 Instrument Amplifier Heads CY Century 100W all purpose
151-20	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W21ZG. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 20 Lead. 364-50 210 Bass 364-50 212 Lead combo. 498-96 IR Bass combo. 498-96 IR Bass combo. 498-96 Speakers 412. 298-08 215. 298-08 215. 298-08 LANEY Amplifiers: A500 Lead/Bass wb 151-20 A510R Lead/Bass rb 151-20 A540PA Public add. 5-chn. 32-58 A570 Slave. 105-46 A100 Valve. 129-74 K40B Bass. 129-74 K40B Wasser 180-79 K120 Twin reverb JBL 297-70 Cabinets: C400 100W 4 x 12" 154-01 C400 100W 4 x 12" 154-01 C400 100W 4 x 12" 154-01 C400 100W 2 x 15" 154-01 C400 100W 2 x 15" 154-01 C470PA 200W 4 x 12" pair. 142-47 C470PA 200W 4 x 12" pair. 142-47	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100B. 97-09 Musician 100V combo. 259-47 Musician Super 100W combo. 259-47 Musician Super 100W combo. 198-20 LOUDSPEAKER CABINETS 212 2 x 12 spkrs. 197-03 115C bass bin. 189-00 115A bass bin. 18	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan 50 amp. 82-50 Nolan 50 session Master straight 50. 184-50 As above - tremolo. 145-00 As above - reverb. 171-00 Nolan Session Master straight 100. 198-00 As above - reverb. 231-00 Nolan Session Master straight 100. 198-00 As above - tremolo. 205-01 As above - reverb. 171-00 Nolan 2 st 12 dual cone cols, pair 123-70 Nolan 2 x 12 plus horn cols pair 162-00 NOVANEX Combos Aut 3 51-30 Aut 6 63-70 Aut 10 76-76 P15. 100-85 P25. 126-80 U 30. 209-40 U 70. 302-90 U 80. 336-30 U 100W. 435-95 RG 30. 215-25 RG 50. 266-10 RG 100W. 441-00 B 70. 289-90 B 100W. 117-80 FOVENEY 117-80 FOVENEY 117-80 FOVENEY 118-80 FOVENEY 118	112.80 80W graphic	Black Widow 503-75 LTD 15 LTD 200W x 15" Bla or Black Widow 503-75 Instrument Amplifier Heads CY Century 100W all purpose 166-62 SAP Standard 130W all purpose 224-75 B Bass 200W w Eq - Automix 286-75 Musician 200W w Eq - Automix 313-88 MA Mace 60W w reverb Automix 313-88 SN Session 200W w reverb Automix 313-88 SN Session 200W w reverb Automix 313-88 SN Session 200W w reverb Automix 279-00 F800B Festival Series 400W x v F800B Festival Series 400W w reverb 410-75 F800B Festival Series 400W sunt x Eq 410-75 Instrument Speaker Enclosures 151 x 15" 127-87 122 x 12" 147-25 412 x 12" 228-86 152 x 15" 197-61 228-86 152 x 15" 197-62 228-86 152 x 15" 197-61 248-00 106 x 10" 248-00 610-6 x 10" 317-75 118S x 18" Stackable 348-75 118F
151-20	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W21ZG. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 20 Lead. 364-50 220 Bass 364-50 212 Lead combo. 498-96 Il8 Bass combo. 498-96 Il8 Bass combo. 498-96 Speakers 412. 298-08 118. 298-08 215. 298-08 LANEY Amplifiers: A500 Lead/Bass. 128-52 A510R Lead/Bass rub A540PA Public add. 5 chn. 132-58 A540PA Public add. 5 chn. 132-58 A540PA Public add. 5 chn. 132-58 K40L Lead/Bass rub K40B Bass. 128-52 A510R Lead/Bass rub K40B Bass. 128-52 A510R Lead/Bass rub K40B Lead/Bass rub K40B Lead/Bass rub K40B Lead/Bass rub K50N Lead/Bass rub K50N Lead/Bass rub K40B Lead/Bass rub K50N	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100W combo. 259-47 Musician Super 100W combo. 259-47 Musician Super 100W combo. 181-25 LOUDSPEAKER CABINETS 21/2 × 12 spkrs. 97-09 41/2 × 12 spkrs. 97-09 41/2 × 12 spkrs. 159-03 115C bass bin. 189-00 115A bass bin. 189-00 115A bass bin. 189-00 115A bass bin. 318-06 P.A. EQUIPMENT PAI70 mixer amp. 225-99 212PA cab. 128-89 Tripod for cab 33-48 MATAMP (EX. VAT) AMPLIFIERS 120W slave. 141-75 Mk 1 PA amp. 172-50 Mk 2 PA amp. 172-50 Mk 2 PA amp. 172-50 Disco unit. 232-50 Disco unit. 232-50 Disco unit. 232-50 Microphone kit. 62-50 LOUDSPEAKERS MA 112 107-25 MA 115 D60. 113-25 MA 115 D60. 113-25	65. 288-32 65REV. 348-59 HD130 360 15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan 50 amp. 82-50 Nolan Session Master straight 50. 138-00 As above - tremolo. 145-00 As above - reverb. 171-00 Nolan Session Master straight 100. 198 00 As above - reverb. 171-00 Nolan Session Master straight 20. 198 00 Nolan 4 x 12 Celestion cab. 123-75 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 dual cone cols, pair 123-00 Nolan 2 x 12 plus horn cols pair. 162-00 NOVANEX Combos Aut 3. 51-30 Aut 6. 63-70 Aut 10. 76-76 P15. 100-85 P25. 126-80 U 30. 209-40 U 70. 302-90 U 80. 336-30 U 100W. 435-95 RG 30. 215-25 RG 50. 266-10 RG 80. 343-10 RG 100W. 441-00 B 35. 209-40 B 100W. 417-80 B 100W. 417-80 FUZ2/WA/5100 34-00 Power generators, mixers 149-80	112.80 80W graphic	Black Widow. S03-75 LTD LTD 200W x 15" BL or Black Widow. S03-75 Instrument Amplifier Heads CY Century 100W all purpose
151-20	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W21ZG. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 20 Lead. 364-50 210 Bass 364-50 212 Lead combo. 498-96 IR Bass combo. 498-96 IR Bass combo. 498-96 Speakers 412. 298-08 215. 298-08 215. 298-08 215. 298-08 215. 298-08 CANDER COMMITTEE COMMIT	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100S 97-09 Musician 100V combo. 492-15 LOUDSPEAKER CABINETS 212 2 x 12 spkrs. 97-09 412 4 x 12 spkrs. 159-03 115C bass bin. 189-00 115A bass bin. 189-00 115A bass bin. 189-00 115A bass bin. 189-00 Tripod for cab 33-48 MATAMP (EX. VAT) AMPLIFIERS 20W 14-78 Mix 19-80 Mix 29-80	65. 288-32 65REV. 348-59 HD130 360-15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan 50 amp. 82-50 Nolan 50 session Master straight 50. 138-00 As above - tremolo. 145-00 As above - reverb. 171-00 Nolan Session Master straight 100. 198-00 As above - reverb. 171-00 Nolan Session Master straight 100. 198-00 Nolan Session Master straight 100. 198-00 Nolan 2 x 12 dual cone cols, pair 123-75 Nolan 2 x 12 plus horn cols pair. 162-00 NOVANEX Combos Aut 3. 51-30 Aut 6. 63-70 Aut 10. 76-76 P15. 100-85 P25. 126-80 U 30. 209-40 U 70. 302-90 U 80. 336-30 U 100W. 435-95 RG 30. 215-25 RG 50. 266-10 RG 80. 343-10 RG 100W. 441-00 B 35. 209-40 B 100W. 431-90 B 100W. 441-00 B 100W. 441-00 B 35. 209-40 B 100W. 441-00 B 35. 209-40 B 100W. 441-00 B 36-00 203-80 EV2/WA/5100 34-00 Power generators, mixers	112.80 80W graphic	Black Widow. S03-75 LTD LTD 200W x 15" BL or Black Widow. S03-75 Instrument Amplifier Heads CY Century 100W all purpose
151-20	P.A.M. 10 10 Ch Mixer. 168-48 150S Slave. 99-65 SPEAKERS W21ZPA. 72-90 W12PDC 65-61 IPRO12PH. 106-92 W15MBH. 152-28 W21ZG. 113-40 W215B. 143-37 W18B. 197-64 ROAD 440 Lead. 458-46 440 Bass 458-46 200 Lead. 364-50 212 Lead combo. 498-96 Ill Bass combo. 122-298-08 Ill 298-08 Ill 298-0	GA3 Amp. 67-60 G20R Amp. 17-55 G40R Amp. 161-40 G60R Amp. 195-15 GBO 15 B Amp. 130-15 1500 B Amp. 115-25 P200W slave. 161-90 SM600 mixer. 154-95 LS15B cab. 104-30 LS20LH cab 137-95 SC40 column. 128-20 MAINE AMPLIFIERS Artist 100A 162-37 Standard 100S 133-92 Booster 100S 97-09 Musician 100V combo. 492-15 LOUDSPEAKER CABINETS 212 2 x 12 spkrs. 97-09 412 4 x 12 spkrs. 159-03 115C bass bin. 189-00 115A bass bin. 189-00 115A bass bin. 189-00 115A bass bin. 189-00 Tripod for cab 33-48 MATAMP (EX. VAT) AMPLIFIERS 20W 14-78 Mix 19-80 Mix 29-80	65. 288-32 65REV. 348-59 HD130 360 15 HD10REV 422-60 Speaker Enclosures 115RH65. 252-80 212RH130. 310-57 412GS. 341-59 NOLAN (EX. VAT) Nolan 100 amp. 112-50 Nolan 50 amp. 82-50 Nolan 50 amp. 138-00 As above—tremolo. 145-00 As above—tremolo. 145-00 As above—tremolo. 205-01 As above—tremolo. 145-00 Nolan 52-02 No	112.80 80W graphic. 175.00	Black Widow. 503-75 LTD 15 LTD 200W x 15" JBL or Black Widow. 503-75 Instrument Amplifier Heads CY Century 100W all purpose 166-62 SAP Standard 130W all purpose 224-75 B Bass 200W w. Eq - Automix 286-75 Musician 200W w. Eq - Automix 313-88 MA Mace 160W w. reverb - Automix 313-88 MA Mace 160W w. reverb - Automix 313-88 SN Session 200W w. reverb - Automix 313-88 All Mace 160W 480-50 F800B Festival Series 400W 85 ent 410-75 Instrument Speaker Enclosures 410-75 Instrument Speaker 410-75 Instrument 410-75 I

260S 260 Stereo Booster 120W/ch	V 100 Bass Top 159-03 V 150 Bass Top 211-68			SIMON KING	12067 AP 50W amp 129-00 12052 Slave 100W 120-00
stereo slave 259-62 400B 400 Booster	Std. Lead Cab 237-70 D/L Lead Cab (w.	To avoid unnecess	ary repetitions, cer-	MUSIC	20005 Pro Combo 334-95 15002 50W Combo 185-00 15001 30W Combo 129-00
200W slave	horn)	tain abbreviations	are frequently used	2 x 12 lnst. cab. 75 W 77.00 2 x 12 PA cols pr.	20006 PA 30W amp. 95.00 20007 Slave 30W 75.00
CS800 Commercial Power Amp stereo	I x 18 Gauss Bass Cab 264-60	in our listings: elec	ctrič - elec; custom -	100W	(pr) 229.00
400W/ch	20007	ctm; semi-acoustic	- s/ac; organ - org;	prs 200W	12037 H100 cabs (pr). 390.00 20022 Long John cols (pr)
600 Mixer 6 ch mono 259-62 600S 600 Stereo	ROOST	professional - pro	; standard - std;	150W 135·00	12028 Add on hns (pr) 59.00 20021 4 x 12 lead cab. 159.00
Mixer 6 ch stereo facilities	AMPLIFICATION (Valve) 50W 2 Chann —	acoustic - ac; fo	lk = fk; bass - bs;	SISGO	12057 Tri-Tone cab 189 00 12055 2 x 12 cab 105 00
Mixer 8 ch stereo facilities	overdrive fac 99.45 50W 2 chann ±	string - str; de lu	uxe - d/l; jumbo -	120 100W PA 529·00 126 200W PA 723·31	12063 x 12 hn 165.00 12085 x 8 pcrted (pr)
900 Mixer 9 ch mono 333-25 1200 Mixer 12 ch	integral reverb 128-65 110W 2 ch	jbo; piano - pno; le	ft hand - I/h; scale -	Revolving organ cabinets: SM/30 70W Leslie 377-00	(50.00
mono	110W 2 ch w. rvb 142-25 150W 2 chan + overdrive fac 132-58		- bjo; monitor - mt	SM/100 70 W	THEATRE
facilities	150W 2 chan - integral reverb 162-04	30, 0000 00, 5011,0	bjo, montor me.	SM/3000 200 W 1163-00	PROJECTS (EX. VAT)
24 ch full prof unit 3487.50 Public Address Speakers	indivecho controls 175-37			SOUNDCRAFT	VOICE OF THE
Enclosures 210 2 x 10" Col. each 73 63	150W Slave	2051 250W Slave 217-15		16/2 mixer 1000-00 12/4 mixer 1500-00	THEATRE COLUMNS AND CABS 812 100W x 12", 155:00
410 4 x 10" Col. each 116-25 1210TS 1 x 12"+1 x	Session Master as above w reverb 199-31	2125 8 ch rvb mixer amp		16/4 mixer 1800-00 Soundcraft/Court Acoustic	816 150W 1 x 15" ld. 180-00 812TU Port H/F for
10"+3 x Tweeters Col	\$M100 100W combo. 202·29 \$M100R w. rvb 229·29	PA Cabs & Bins 2097 pr 8 x 8 125 W 194-00	900 pro	PA's prices on application. Options arranged SPII 50W hn	812
1210T 2 x 12"-2 x 10"+3 x Tweeters	SM104 100W combo. 267:24 SM104R w. rvb 294:22 8 chan mixer 150:66	2043 pr 2 x 10 2 x 12 200V	2200 pro	SPIV 100W hn 51.00	816
Col. each	2 x 12" 100W 85·79 2 x 12" 120W 102·53	100W	2000 pro	SPERRIN	1217A 75W Col 317-00 1215 150W Port L/H
1510T 2 x 15"+2 x 10"+3 x Tweeters	4 x 12" 200 W	Bin	5000 GT 475-73 5000 GT combo 475-73	ELECTRONICS	horn
Cab, each	stage monitors pr. 98-77	Horns 200W 323-40 2121 100W Slave	2300. 473·49 3000. 543·37	Disco MK VI 204-12 Light Unit, 4000L 59-00	STUDIO MONITORS
Hyperbolic Hn— 2 x Tweeters Vocal Proj each 217:00	hn bass bin	Monitor 201-55 2122 30W Slave		Amplifiers: 100W 4V	604-89 15" 65W
215HT 2 x 15"+2 x Hyperbolic Hns+	1 x 15 100W + hn 228-43 1 x 15 as above w. 50W hn driver 181-56	Monitor. 144·35 212 350W Monitor. 75·55 2126 Bass bins 119·50	SHURE	100W 2-chn	9846-8A 100W 530-00 9849A 60W 400-00
2 x Tweeters Vocal Proj each	Radial Flare add on hn. 50W		VA302 E6 Vcl Master 804-60 Separate Units:	Disco Mk VI mixer 81-00 Cabs:	AMPLIFIERS 9440A 2 x 225W 830-00
SPI Spider Bin I x I5"+Radial Hn Theatre Type encl.	As above but 100W . 142-29 Prices ex covers	S.A.I. (EX. VAT)	VA302 E6-C Control Console	PA 200 2 x 12" cols 77·76 PA 100 1 x 12" cols 42·12 PA 2 x 12" empty 38·88	1214-AX 100W Mixer amp
each		Disco Units Maverick disco 144-00	VA300-S Speaker Col 170-64 VA301-S Monitor	FAZX12 empty 30-00	amp
T12 Radial Bank of 12 Tweeters each. 166.62	ROSE-MORRIS	Disco IVS	Speaker	STRAMP	MUSIC SPEAKERS AND
Ancilliary Public Address	MARSHALL	Stereo disco 270-00		2100-A, 100W amp	COMPONENTS
Equipment	Instrument Amp Tops	Amps	Amp	top	417-8H 12" 100W 98-50 418-8H 15" 150W 108-00
MO Monitor Amp 130W186-00	1959 100W Lead 198-50 2203 100W M/Vol 198-50	Amps 50W twin ch		top	418-8H 15" 150W 108-00 421-8H 15" 150W 126-00 511B Sectoral hn 75-00
MO Monitor Amp 130W	1959 100W Lead 198-50 2203 100W M/Vol 198-50 2068 100W Artist 210-00 2098 100W Trans	50W twin ch 85-00	DAVE SIMMS MUSIC PRODUCTS	top. 213-60 2120-A, 120W amp top. 199-30 3120-A, 120W, 4-chn amp, top. 192-30	418-8H 15" 150W, 108-00 421-8H 15" 150W, 126-00 511B Sectoral hn 75-00 811B Sectoral hn 64-00 808-8A 30W H/F
MO Monitor Amp 130W. 186-00 112TS Monitor Wedge Cab x 12"+2 Tweeters each. 135-62 22 Spider 22 High Efficiency Hn Driver 73-63	1985 100 W Lead 19850 2203 100 W M/Vol 19850 2068 100 W Artist 21000 2098 100 W Trans Lead 16900 1992 100 W Bass 19850 2099 100 W Trans	50W twin ch	DAVE SIMMS MUSIC PRODUCTS (EX.VAT)	top. 213·60 2120-A, 120W amp top. 199·30 3120-A, 120W, 4-chn amp, top. 192·30 SL100, 120W slave amp. 127-90 SL200, 240W slave	418-8H 15" 150W. 126-00 421-8H 15" 150W. 126-00 511B Sectoral hn. 75-00 811B Sectoral hn. 64-00 808-8A 30W H/F driver. 108-00 802 HF driver 40W. 92-50
MO Monitor Amp 130W. 186-00 112TS Monitor Wedge Cab x 12"-2 Tweeters each 135-62 22 Spider 22 High Efficiency Hn Driver 73-63 Al Adaptor for above 7-75 A2 ditto 11-63 1-63	1959 100W Lead 198-50 2003 100W M/Vol 198-50 2068 100W Trans Lead 169-00 1992 100W Bass 169-00 1985 169-00 1986 50W Bass 169-00 1986 5	\$500 twin ch	DAVE SIMMS MUSIC PRODUCTS (EX. VAT) August Amplification PA 100 4 ch	top. 213·60 2120-A, 120W amp top. 199·30 3120-A, 120W, 4-chn amp, top. 192·30 SL100, 120W slave amp. 127·90 SL200, 240W slave amp. 177·90 MP10, 10-chan mixer 577·15	418-8H 15" 150W, 108-00 421-8H 15" 150W, 126-00 511B Sectoral hn 75-00 811B Sectoral hn 64-00 808-8A 30W H/F
MO Monitor Amp 130W	1959 100W Lead 198-50 2003 100W M/Vol 198-50 2068 100W Trans Lead 169-00 1992 100W Bass 169-00 1986 100W Trans 169-00 1986 100W Trans 169-00 1986 100W Trans 169-00 1986 100W Bass 169-00 1986 154-95 1987 154-95 1987 154-95 154	50\(\frac{1}{2}\) twin ch 85.00 50\(\text{V slave}\) 81.00 FC 150 slave 96.00 Cabinets Eliminator w. horn. 168.00 Mini Elim. w. horn. 144.00 Mini Elim. w. horns. 144.00 15"	DAVE SIMMS MUSIC PRODUCTS (EX. VAT.) August Amplification PA 1004 ch	top. 213·60 2120-A, 120W amp top. 199·30 3120-A, 120W, 4-chn amp, top. 192·30 SL100, 120W slave amp. 127·90 SL200, 240W slave amp. 177·90 MP10, 10-chan mixer 577·15 MP-16, 16-chan mix. 1427·90 EX-2 Cross-over. 113·60	418-8H 15" 150W. 126-00 421-8H 15" 150W. 126-00 511B Sectoral hn. 75-00 811B Sectoral hn. 64-00 808-8A 30W H/F driver. 108-00 802 HF driver 40W. 92-50
MO Monitor Amp 130	1959 100W Lead 198 50 203 100W M / Vol 198 50 2068 100W M / Vol 210 100 2098 100W Trans Lead 1992 100W Bass 198 50 2099 100W Trans 154 95 154 95 154 95 204 50W M / Vol 154 95 95 95 95 95 95 95	50½ twin ch 85-00 50½ slave	DAVE SIMMS MUSIC PRODUCTS (EX. VAT) August Amplification PA 100 4 ch	top. 213·60 2120-A, 120W amp top. 199·30 3120-A, 120W, 4-chn amp, top. 192·30 SL100, 120W slave amp. 127·90 SL200, 240W slave amp. 177·90 MP10, 10-chan mixer 577·15 MP-16, 16-chan mix. 1427·90 EX-2 Cross-over 113·60 K-85 Power Baby combo. 265·45 K-95 Bass Baby	418-8H 15" 150W. 108-00 421-8H 15" 150W. 126-00 511B Sectoral hn. 75-00 81B Sectoral hn. 64-00 808-8A 30W H/F driver. 108-00 802 HF driver 40W. 92-50 809 Xover 100W. 65-00 TYAS Minimix 4 mono 58-32
MO Monitor Amp 130W	1959 100W Lead 198-50 2020 100W M/Vol 198-50 2068 100W Artist 210-00 2098 100W Trans Lead 169-00 1992 100W Trans 169-00 1986-50 1986-50 1986-50 1986-50 1986-50 1986-50 154-95 1987-50 154-95 1987-50 154-95 2045-50 154-95 2045-50 154-95 2045-50 154-95 2045-50 154-95 2045-50 154-95 137-15 1854-50 137-15 1854-50 137-15 1854-50 137-15 1982-82B 120W 4 × 170-95 170-95 1982-82B 120W 4 × 170-95 170-95 1985-50	50\times twin ch	DAVE SIMMS MUSIC PRODUCTS (EX. VAT) August Amplification PA 100 4 ch	top. 213·60 2120-A, 120W amp top. 199·30 3120-A, 120W, 4-chn amp, top. 192·30 SL100, 120W slave amp. 127·90 SL200, 240W slave amp. 177·90 MP10, 10-chan mixer 577·15 MP-16, 16-chan mix. 1427·90 EX-2 Cross-over 113·60 K-85 Power Baby combo. 265·45 K-95 Bass Baby combo. 285·00 2050-BB, 100W cab. 163·60	418-8H 15" 150W. 108-00 421-8H 15" 150W. 126-00 511B Sectoral hn. 64-00 811B Sectoral hn. 64-00 808-8A 30W H/F driver. 108-00 802 HF driver 40V. 92-50 809 Xover 100W. 65-00 TYAS Minimix 4 mono
MÖ Monitor Amp 130W	1959 100W Lead 198-50 2020 100W M/Vol 198-50 2068 100W Mrtist 210-00 2098 100W Trans Lead 169-00 1992 100W Bass 198-50 2099 100W Trans 169-00 1986-50W Bass 154-95 1987-50W Lead 154-95 2204 50W M/Vol 154-95 2048-50W Artist 161-50 2025 100W Slave 137-15 1987-90W Artist 161-50 1982-82B 120W 4 x 12 170-95 1960-60B 100W 4 x 12 156-50 195-50 195-50 195-50 195-50 195-50 195-50 195-50 195-50 195-50 195-50 195-50 195-50 195-50 198-50 19	50½ twin ch 85-00 50¼ slave. 81-00 FC 150 slave. 96-00 Cabinets Eliminator w. horn. 168-00 Mini Elim. w. horns. 144-00 15″. 188-00 2 x 12 + 2H. 237-00 2 x 12 + 1H. 144-00 Tweeter box. 39-00 18″ hn. 252-00 Mini bass cab. 102-00 Super lead cab. 96-00	DAVE SIMMS MUSIC PRODUCTS (EX. VAT) August Amplification PA 100 4 ch	top. 213·60 2120-A, 120W amp top. 199·30 3120-A, 120W, 4-chn amp, top. 192·30 SL100, 120W slave amp. 127·90 SL200, 240W slave amp. 177·90 MP10, 10-chan mixer 577·15 MP-16, 16-chan mix. 1427·90 EX-2 Cross-over 113·60 K-85 Power Baby combo. 285·04 C95-B Bass Baby combo. 285·06 2100-GB, 200W cab. 206·60 2100-BB, 100W bs cab. 213·60	418-8H 15" 50W 108-00 421-8H 15" 150W 126-00 511B Sectoral hn 75-00 811B Sectoral hn 64-00 808-8A 30W H/F driver 108-00 802 HF driver 40W 92-50 809 Xover 100W 65-00 TYAS Minimix 4 mono 58-32 Minimix 4 stereo 81-00 PS 70 84-24 PS 125 129-60 PS 250 194-40 PS 125 205-20
MO Monitor Amp 130W	1959 100W Lead 198-50 20203 100W M/Vol 198-50 2068 100W Mrtist 210-00 2098 100W Trans 169-00 1992 100W Bass 198-50 2099 100W Trans 154-95 204 50W M/Vol 154-95 2204 50W M/Vol 154-95 2204 50W M/Vol 154-95 208 50W Artist 161-50 205 100W Slave 137-15 100	\$5.00 fwin ch. 85.00 for 150 slave	DAVE SIMMS MUSIC PRODUCTS (EX. VAT) August Amplification PA 100 4 ch	top. 213·60 2120-A, 120W amp top. 199·30 3120-A, 120W, 4-chn amp, top. 192·30 SL100, 120W slave amp. 127·90 SL200, 240W slave amp. 177·90 MP10, 10-chan mixer 577·15 MP-16, 16-chan mix. 1427·90 EX-2 Cross-over 113·60 K-85 Power Baby combo. 265·45 K-95 Bass Baby combo. 285·00 200-GB, 200W cab. 163·60 2100-GB, 200W cab. 206·60 2100-BB, 100W bs cab. 213·60 370-B 70W horn p.a. cab. 142·15	418-8H 15" 50W 108-00 421-8H 15" 150W 126-00 511B Sectoral hn 75-00 811B Sectoral hn 64-00 808-8A 30W H/F driver 108-00 802 HF driver 40W 92-50 809 Xover 100W 65-00 TYAS Minimix 4 mono 58-32 Minimix 4 stereo 81-00 PS 70 84-24 PS 125 129-60 PS 250 194-40 PS 125/125 205-20 Modular mixer POA CABS
MÖ Monitor Amp 130W	1959 100W Lead 198-50 2020 100W M/Vol 198-50 2068 100W M/Vol 198-50 2098 100W Trans 169-00 1992 100W Bass 198-50 2099 100W Trans 169-00 1986-50 1986-50 154-95 1987-50 154-95 204-50 154-95 204-50 154-95 204-50 154-95 161-50	\$5.00 f.win ch. 85.00 f.w. slave. 81.00 f.w. slave. 81.00 f.w. slave. 96.00 f.w. sla	DAVE SIMMS MUSIC PRODUCTS (EX. VAT) August Amplification PA 100 4 ch	top. 213·60 2120-A, 120W amp top. 199·30 3120-A, 120W, 4-chn amp, top. 192·30 SL100, 120W slave amp. 127·90 SL200, 240W slave amp. 177·90 MP10, 10-chan mixer 577·15 MP-16, 16-chan mix. 1427·90 EX-2 Cross-over 113·60 K-85 Power Baby combo. 265·45 K-95 Bass Baby combo. 285·64 SK-95 Bass Baby combo. 285·64 2100-BB, 100W cab. 163·60 2100-BB, 100W cab. 200·60 2100-BB, 100W bs cab. 213·60 370-B 70W horn p.a. cab. 1142·15 3140-BH, 140W hn p.a. cab. 186·45	418-8H 15" 150W. 108-00 421-8H 15" 150W. 126-00 511B Sectoral hn. 64-00 811B Sectoral hn. 64-00 808-8A 30W H/F driver. 108-00 802 HF driver 40W 92:50 809 Xover 100W. 65-00 TYAS Minimix 4 mono 58-32 Minimix 4 stereo. 81-00 PS 70. 84-24 PS 125. 129-60 PS 250. 194-40 PS 125. 129-60 PS 250. 194-40 PS 125. 205-20 Modular mixer POA CABS 112S. 37-80 212S. 64-80 HS2. 45-36
MO Monitor Amp 130W	1959 100W Lead 198-50 20203 100W M/Vol 198-50 2068 100W M/Vol 198-50 210-00 210-	50½ twin ch. 85-00 50½ slave. 96-00 FC 150 slave. 96-00 Cabinets Eliminator w. horn. 168-00 Mini Elim. w. horns. 144-00 15″. 188-00 2 x 12 + 2H. 237-00 2 x 12 std. 144-00 1 x 12 + 1H. 144-00 Tweeter box. 39-00 18″ hn. 252-00 Mini Bass cab. 102-00 Super lead cab. 96-00 SELMER SOLID STATE 7980 15 SS Combc. 46-00 7981 Super Reverb 30 Combo. 139-00 7982 Lead 100. 129-00	DAVE SIMMS MUSIC PRODUCTS (EX. VAT) August Amplification PA 100 4 ch	top. 213·60 2120-A, 120W amp top. 199·30 3120-A, 120W, 4-chn amp, top. 192·30 SL100, 120W slave amp. 127·90 SL200, 240W slave amp. 17-90 MP10, 10-chan mixer 577·15 MP-16, 16-chan mix. 1427·90 EX-2 Cross-over 113·60 K-85 Power Baby combo. 265·45 K-95 Bass Baby combo. 285·00 200-GB, 200W cab. 206·60 2100-GB, 200W cab. 206·60 2100-BB, 100W bs cab. 213·60 370-B 70W horn p.a. cab. 142·15 3140-B H, 140W hn p.a. cab. 186·45 3140-B H40W p.a. cab. 156·45	418-8H 15" 50W 108-00 421-8H 15" 150W 126-00 511B Sectoral hn 75-00 811B Sectoral hn 64-00 808-8A 30W H/F driver 108-00 802 HF driver 40W 92-50 809 Xover 100W 65-00 TYAS Minimix 4 mono 58-32 81-00 PS 70 84-24 81-25 129-60 PS 250 194-40 92-50 194-40 PS 125 129-60 Modular mixer POA CABS 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 37
MÖ Monitor Amp 130W	1959 100W Lead 198-50 2020 100W M/Vol 198-50 2068 100W M/Vol 198-50 2098 100W Trans 169-00 1992 100W Bass 198-50 2099 100W Trans 169-00 1986-50 1986-50 1987-50 100W Trans 169-00 1986-50 154-95 204-50 154-95 204-50 154-95 204-50 154-95 204-50 154-95 204-50 154-95 204-50 154-95 204-50 154-95 204-50 137-15 18strument Cabinets 1982-82B 120W 4 x 12	50½ twin ch. 85-00 50½ slave	DAVE SIMMS MUSIC PRODUCTS (EX. VAT) August Amplification PA 100 4 ch	top. 213·60 2120-A, 120W amp top. 199·30 3120-A, 120W, 4-chn amp, top. 192·30 SL100, 120W slave amp. 177·90 MP10, 10-chan mixer 577·15 MP-16, 16-chan mix. 1427·90 EX-2 Cross-over 113·60 K-85 Power Baby combo. 265·45 K-95 Bass Baby combo. 265·45 K-95 Bass Baby combo. 265·45 X-95 Bass Baby combo. 2100-BB, 100W cab. 163·60 2100-GB, 200W cab. 206·60 2100-GB, 100W cab. 1210-68 370-B 70W horn p.a. cab. 1142·15 3140-BH, 140W hp.a. cab. 140-BH, 140W hp.a. cab. 156·45 3200-B, 120W bass horn cab. 156·45	418-8H 15" 150W. 108-00 421-8H 15" 150W. 126-00 511B Sectoral hn. 75-00 811B Sectoral hn. 64-00 808-8A 30W H/F driver. 108-00 802 HF driver 40W. 92-50 809 Xover 100W. 65-00 TYAS Minimix 4 mono 58-32 Minimix 4 stereo 81-00 PS 70. 84-24 PS 125. 129-60 PS 125. 129-60 PS 125 125 205-20 Modular mixer POA CABS 112S. 37-80 212S. 64-80 HS2. 45-36 SF/15. 129-60
MÖ Monitor Amp 130W	1959 100W Lead 198-50 20203 100W M/Vol 198-50 2068 100W M/Vol 198-50 2098 100W Trans 169-00 1992 100W Bass 198-50 2099 100W Trans 159-95 15987 50W Lead 154-95 2204 50W M/Vol 154-95 2204 50W M/Vol 154-95 2048 50W Artist 161-50 2205 100W Slave 137-15 18strument Cabinets 1982-82B 120W 4 × 12 170-95 1960-60B 100W 4 × 12 156-50 1979-79B 200W 4 × 12 156-50 156	50½ twin ch. 85-00 50¼ slave. 81-00 FC 150 slave. 96-00 Cabinets Eliminator w. horn. 168-00 Mini Elim. w. horns. 144-00 15". 188-00 2 x 12 + 2H. 237-00 2 x 12 + 2H. 144-00 I x 12 + 1H. 144-00 I weeter box 39-00 Is" home box 102-00 Super lead cab. 96-00 SELMER SOLID STATE 7980 15 SS Combc. 7981 Super Reverb 30 Combo. 129-00 7983 Lead 100. 129-00 7983 Bass 100. 109-00	DAVE SIMMS MUSIC PRODUCTS (EX. VAT) August Amplification PA 100 4 ch	top. 213-60 2120-A, 120W amp top. 199-30 3120-A, 120W, 4-chn amp, top. 192-30 SL100, 120W slave amp. 177-90 MP10, 10-chan mixer MP-16, 16-chan mix. 1427-90 EX-2 Cross-over 113-60 K-85 Power Baby combo. 265-45 K-95 Bass Baby combo. 285-00 2050-BB, 100W cab. 163-60 2100-GB, 200W cab. 213-60 3100-GB, 200W cab. 213-60 370-B 70W horn p.a. cab. 13140-B 140W hn p.a. cab. 13140-B 140W p.a. cab. 13140-B 140W p.a. cab. 156-45 3200-B, 120W bass horn cab. 227-90	418-8H 15" 50W 108-00 421-8H 15" 150W 126-00 511B Sectoral hn 75-00 811B Sectoral hn 64-00 808-8A 30W H/F driver 108-00 802 HF driver 40W 92-50 809 Xover 100W 65-00 TYAS Minimix 4 mono 58-32 81-00 PS 70 84-24 81-25 129-60 PS 250 194-40 92-50 194-40 PS 125 129-60 Modular mixer POA CABS 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 1125 37-80 37
MO Monitor Amp 130W	1959 100W Lead 198-50 20203 100W M / Vol. 198-50 2068 100W M / Vol. 198-50 2098 100W Trans 169-00 1992 100W Bass 169-00 1986 50W Bass 154-95 2045 50W M / Vol. 154-95 2045 50W M / Vol. 154-95 2045 50W M / Vol. 154-95 2016 50W M / Vol. 161-50 1935-358 100W 4 x 12 170-95 1935-358 100W 4 x 12 156-50 1935-358 100W 4 x 12 156-50 1935-558 100W 2 x 12 156-50 178-90 2065-658 125W 178-90 2065-658 125W 178-90 2045 60W X x 10 156-50 2049 60W X r 151 203-206 120W X r 156-50 2049 60W X r 151 203-206 200W X r 156-50 2069 20W X r 156-50 200-50	50½ twin ch. 85-00 50½ slave	DAVE SIMMS MUSIC PRODUCTS (EX. VAT) August Amplification PA 100 4 ch	top. 213:60 2120-A, 120W amp top. 199:30 3120-A, 120W, 4-chn amp, top. 192:30 SL100, 120W slave amp. 177:90 MP10, 10-chan mixer MP-16, 16-chan mix. 1427:90 EX-2 Cross-over 113:60 K-85 Power Baby combo. 265:45 K-95 Bass Baby combo. 265:45 K-95 Bass Baby combo. 163:60 2100-BB, 100W cab. 163:60 2100-BB, 100W cab. 206:60 2100-BB, 100W cab. 3140-BH, 140W hn p.a. cab. 1142:15 3140-BH, 140W hn p.a. cab. 186:45 3140-BH, 140W hn p.a. cab. 186:45 3200-B, 120W bass horn cab. 427:90 H-50, 70W tweeter horn. 156:45	418-8H 15" 50W 108-00 421-8H 15" 150W 126-00 511B Sectoral hn 75-00 811B Sectoral hn 64-00 808-8A 30W HF driver 108-00 802 HF driver 40W 92-50 809 Xover 100W 65-00 TYAS Minimix 4 mono 58-32 Minimix 4 stereo 81-00 PS 70 84-24 PS 125 129-60 PS 250 194-40 PS 125 129-60 PS 125 37-80 121S 37-80 122S 64-80 HS2 45-36 SF/15 129-60 HF1 113-40 TURNER (EX. VAT) Lx 15 Bs Hn 180-00
MÖ Monitor Amp 130W	1959 100W Lead 198-50 2020 100W M/Vol 198-50 2068 100W M/Vol 198-50 2098 100W Trans 169-00 1992 100W Bass 198-50 2099 100W Trans 169-00 1986-50W Bass 154-95 1987-50W Lead 154-95 2004 50W M/Vol 154-95 2004 50W M/Vol 154-95 2004 50W M/Vol 164-95 2016 50W Slave 137-15 18strument Cabinets 1982-82B 120W 4 x 12 170-95 1950-608 100W 4 x 12 156-50 1979-79B 200W 4 x 15 156-50 1979-79B 200W 4 x 15 156-50 1979-79B 200W 4 x 15 156-50 156-50 156-50 15990 100W 8 x 10 156-50 15990 100W 8 x 10 156-50 2069 120W Artist 132-30 2069 120W Artist 132-30 2069 120W Artist 161-10 2052 125W Powercel 214-00 2056 250W Powercel 214-00 2056 250W Powercel 214-00 2057-35 210W Bin w/	SOV twin ch	DAVE SIMMS MUSIC PRODUCTS (EX. VAT) August Amplification PA 100 4 ch	top. 213·60 2120-A, 120W amp top. 199·30 3120-A, 120W, 4-chn amp, top. 192·30 SL100, 120W slave amp. 127·90 SL200, 240W slave amp. 177·90 MP10, 10-chan mixer 577·15 MP-16, 16-chan mix. 1427·90 EX-2 Cross-over 113·60 K-85 Power Baby combo. 285·00 2050-BB, 100W cab. 285·00 2100-GB, 200W cab. 206·60 2100-GB, 200W cab. 213·60 370-B 70W horn p.a. cab. 142·15 3140-BH, 140W hn p.a. cab. 142·15 3140-BH, 140W p.a. cab. 156·45 3200-B, 120W bss horn cab. 156·45 H-50, 70W tweeter horn. 156·45 STRINGS & THINGS	418-8H 15" 50W 108-00 421-8H 15" 150W 126-00 511B Sectoral hn 75-00 811B Sectoral hn 64-00 808-8A 30W H/F driver 108-00 802 HF driver 40W 92-50 809 Xover 100W 65-00 TYAS Minimix 4 mono 58-32 Minimix 4 stereo 81-00 PS 70 84-24 PS 125 129-60 PS 250 194-40 PS 125 129-60 PS 250 194-40 PS 125 129-60 HS 215 129-60 HS 215 129-60 HS 215 129-60 HF 1 113-40 TURNER (EX. VAT) I x 15 Bs Hn 180-00 2 x 15 Bs Hn 340-00 I 12 Mid Ring, Hn 160-00 2 x 12 Mid Ring, Hn 160-00 2 x 12 Mid Ring, Hn 280-00
MÖ Monitor Amp 130W	1959 100W Lead 198-50 20203 100W M / Vol. 198-50 2068 100W M / Vol. 198-50 2068 100W M / Vol. 198-50 2099 100W Bass 169-00 1992 100W Bass 154-95 1987-50 156-90 1986-50 154-95 2045-50 161-70 161-70	50½ twin ch. 85-00 50¼ slave. 81-00 FC 150 slave. 96-00 Cabinets Eliminator w. horn. 168-00 Mini Elim. w. horns. 144-00 15". 188-00 2 x 12 + 2H. 237-00 2 x 12 + 2H. 144-00 1 x 12 + 1H. 144-00 1 x 12 + 1H. 144-00 Super lead cab. 96-00 SELMER SOLID STATE 7980 15 SS Combc. 46-00 7981 Super Reverb 30 Combo. 139-00 7982 Lead 100. 129-00 7983 Bass 100. 109-00 7984 Slave 100. 85-00 7985 PA 100. 175-00 VALVE 7404 Treble "N" Bass 50 SV. 129-00 7403 Treble "N" Bass 50 SV. 129-00	DAVE SIMMS MUSIC PRODUCTS (EX. VAT) August Amplification PA 100 4 ch	top. 213·60 2120-A, 120W amp top. 199·30 3120-A, 120W, 4-chn amp, top. 192·30 SL100, 120W slave amp. 127·90 SL200, 240W slave amp. 177·90 MP10, 10-chan mixer 577·15 MP-16, 16-chan mix. 1427·90 EX-2 Cross-over. 113·60 K-85 Power Baby combo. 265·45 K-95 Bass Baby combo. 250·45 Combo. 2100-GB, 200W cab. 206·60 2100-GB, 200W cab. 213·60 370-B 70W horn p.a. cab. 140-BH, 140W hn p.a. cab. 142·15 3140-B H, 140W p.a. cab. 156·45 H-100 120W tweeter horn. 156·45 H-100 120W tweeter horn. 227·15	418-8H 15" SOW. 108-00 421-8H 15" TSOW. 126-00 511B Sectoral hn. 75-00 811B Sectoral hn. 64-00 808-8A 30W H/F driver. 108-00 809-8A 30W H/F driver 108-00 809 TYAS Minimix 4 mono 58-32 Minimix 4 stereo 81-00 PS 70. 84-24 PS 125. 129-60 PS 250. 194-40 PS 125. 129-60 PS 250. 194-40 PS 125. 129-60 HS2. 45-36 SF/15. 129-60 HF1. 113-40 TURNER (EX. VAT) X 15 Bs Hn. 180-00 2 x 15 Bs Hn. 340-00 1 12 Mid Ring. Hn. 150-00 2 x 12 Mid Ring. Hn. 150-00 1 x 10 Mid Ring. Hn. 150-00
MÖ Monitor Amp 130W	1959 100W Lead 198-50 20203 100W M / Vol. 198-50 2068 100W M / Vol. 198-50 2068 100W M / Vol. 198-50 2098 100W Trans 169-00 1992 100W Trans 169-00 1992 100W Trans 169-50 1986 50W Bass 154-95 158-95 158-95 158-95 158-95 158-95 158-95 158-95 158-95 161-50 158-95 161-50 158-95 158-9	SOV twin ch	DAVE SIMMS MUSIC PRODUCTS (EX.VAT) August Amplification PA 100 4 ch	top. 213-60 2120-A, 120W amp top. 199-30 3120-A, 120W, 4-chn amp, top. 192-30 \$L100, 120W slave amp. 127-90 \$L200, 240W slave amp. 177-90 MP10, 10-chan mixer 577-15 MP-16, 16-chan mix. 1427-90 EX-2 Cross-over 113-60 K-85 Power Baby combo. 265-45 K-95 Bass Baby combo. 265-45 K-95 Bass Baby combo. 2100-GB, 100W cab. 163-60 2100-BB, 100W cab. 163-60 2100-BB, 100W bs cab. 213-60 370-B 70W horn p.a. cab. 142-15 3140-BH, 140W hn p.a. cab. 156-45 3140-BH, 140W hn p.a. cab. 227-15	418-8H 15" SOW. 108-00 421-8H 15" ISOW. 126-00 511B Sectoral hn. 64-00 808-8A 30W H/F driver. 108-00 802 HF driver 40W. 92-50 809 Xover 100W. 65-00 TYAS Minimix 4 mono 58-32 Minimix 4 stereo 81-00 PS 70 84-24 PS 125-125 129-60 PS 250 194-40 PS 125-125 205-20 Modular mixer POA CABS 112S 37-80 212S 64-80 FS 12S 45-36 FS 129-60 HF1 113-40 TURNER (EX. VAT) TURNER (EX. VAT) x 15 Bs Hn 180-00 2x 15 Bs Hn 180-00 2x 12 Mid Ring, Hn 160-00 2x 12 Mid Ring, Hn 160-00 1x 10 Mid Ring, Hn 160-00 1x 10 Mid Ring, Hn 160-00 Rad, Hn VHF Tweets 300-00 Wedge 12" ATC 420-00 Wedge 12" ATC 420-00 Vedge 12" ATC 420-00 Vedge 12" ATC 420-00 Vedge 12" ATC 420-00
MÖ Monitor Amp 130W	1959 100W Lead 198-50 2020 100W M/Vol 198-50 2068 100W M/Vol 198-50 2068 100W M/Vol 198-50 2099 100W Trans 169-00 1992 100W Bass 198-50 2099 100W Trans 169-00 1986-50W Bass 154-95 204-50W M/Vol 164-95 204-50W M/Vol 156-50 204-50W M/Vol 161-70 205-20W M/Vol 161-70 205-20W M/Vol 161-70 205-20W M/Vol 200-50 200W M/Vol 200-50 200W M/Vol 200W	50½ twin ch. 85-00 50½ slave. 81-00 FC 150 slave. 96-00 Cabinets Eliminator w. horn. 168-00 Mini Elim. w. horns. 144-00 15″. 188-00 2 x 12 + 2H. 237-00 2 x 12 + 2H. 144-00 1 x 12 + 1H. 144-00 Tweeter box. 39-00 18″ hn. 252-00 Mini bass cab. 102-00 SELMER SOLID STATE 7980 15 SS Combc. 96-00 SELMER SOLID STATE 7980 15 SS Combc. 139-00 7981 Super Reverb 30 Combo. 139-00 7982 Lead 100. 199-00 7983 Bass 100. 109-00 7984 Slave 100 85-00 7985 PA 100. 175-00 VALVE 7404 Treble "N" Bass 50 SV. 129-00 7403 Treble "N" Bass 50 SV Rev. 149-00 7408 PA100 15 SO SV Rev. 189-00	DAVE SIMMS MUSIC PRODUCTS (EX. VAT) August Amplification PA 100 4 ch	top. 213-60 2120-A, 120W amp top. 199-30 3120-A, 120W, 4-chn amp, top. 192-30 \$L100, 120W slave amp. 127-90 \$L200, 240W slave amp. 177-90 MP10, 10-chan mixer 577-15 MP-16, 16-chan mix. 1427-90 EX-2 Cross-over. 113-60 K-85 Power Baby combo. 265-45 K-95 Bass Baby combo. 285-00 2100-GB, 200W cab. 265-05 2100-GB, 100W cab. 163-60 2100-GB, 200W cab. 213-60 370-B 70W horn p.a. cab. 142-15 3140-B H40W hn p.a. cab. 186-45 3140-B H40W hn p.a. cab. 156-45 3140-B H40W p.a. cab. 156-45 H-100 120W tweeter horn. 156-45 H-100 120W tweeter horn. 227-15 STRINGS & THINGS BARCUS BERRY AMPS 1500 Pre-amp contr. unit. 242-73 1510 Pre-amp contr. unit. 368-28	418-8H 15" SOW. 108-00 421-8H 15" SOW. 126-00 511B Sectoral hn. 64-00 811B Sectoral hn. 64-00 808-8A 30W H/F driver. 108-00 802 HF driver 40W 92:50 809 Xover 100W. 65-00 TYAS Minimix 4 mono 58-32 Minimix 4 stereo. 81-00 PS 70. 84-24 PS 125. 129-60 PS 250. 194-40 PS 125. 129-60 PS 250. 194-40 PS 125. 129-60 PS 125. 129-60 HS 250. 194-40 PS 125. 129-60 HS 113-40 TURNER (EX. VAT) I x 15 Bs Hn. 180-00 2 x 15 Bs Hn. 160-00 2 x 15 Bs Hn. 160-00 2 x 12 Mid Ring, Hn. 150-00 Rad. Hn. VHF Tweets. 300-00 Wedge 12" ATC Hn. 220-00 Wedge 12" ATC 20-00
MÖ Monitor Amp 130W	1959 100W Lead 198-50 20203 100W M / Vol. 198-50 2068 100W M / Vol. 198-50 2068 100W M / Vol. 198-50 2098 100W Trans 169-00 1992 100W Bass 169-00 1986 50W Bass 154-95 2045 50W Artist 161-50 205 100W Slave 137-15 161-50 120	50½ twin ch. 85-00 50½ slave. 96-00 FC 150 slave. 96-00 Cabinets Eliminator w. horn. 168-00 Mini Elim. w. horn. 144-00 15″ 188-00 2 x 12 x 12 + 2H. 237-00 2 x 12 std. 144-00 1 x 12 + 1H. 144-00 1 x 12 + 1H. 144-00 1 x 12 + 1H. 144-00 Super lead cab. 96-00 SELMER SOLID STATE 7980 1 5 SS Combc. 46-00 7981 Super Reverb 30 Combo. 139-00 7982 Lead 100. 109-00 7983 Bass 100. 109-00 7984 Slave 100. 85-00 7984 Slave 100. 85-00 7985 PA 100. 175-00 VALVE 7404 Treble "N" Bass 50 SV. 129-00 7403 Treble "N" Bass 50 SV. 129-00 7407 PA100/4 SV. 159-00 7990 S412 3 x 12″. 169-00 7991 S212H 2 x 12″ 7991 5212H 2 x 12″	DAVE SIMMS MUSIC PRODUCTS (EX. VAT) August Amplification PA 100 4 ch	top. 213-60 2120-A, 120W amp top. 199-30 3120-A, 120W, 4-chn amp, top. 192-30 \$L100, 120W slave amp. 127-90 \$L200, 240W slave amp. 177-90 MP10, 10-chan mixer MP-16, 16-chan mix. 1427-90 EX-2 Cross-over 113-60 K-85 Power Baby combo. 265-45 K-95 Bass Baby combo. 265-45 K-95 Bass Baby combo. 2100-GB, 200W cab. 206-60 2100-GB, 100W cab. 213-60 370-B 70W horn p.a. cab. 140-BH, 140W hn p.a. cab. 186-45 3140-BH, 140W hn p.a. cab. 156-45 3140-BH, 140W hn p.a. cab. 242-79 3150-BH, 150-BH, 1	418-8H 15" SOW. 108-00 421-8H 15" TSOW. 126-00 511B Sectoral hn. 75-00 811B Sectoral hn. 64-00 808-8A 30W H/F driver. 108-00 802 HF driver 40W. 92-50 809 Xover 100W. 65-00 TYAS Minimix 4 mono 58-32 Minimix 4 stereo 81-00 PS 70. 84-24 PS 125. 129-60 PS 250. 194-40 PS 125. 129-60 PS 125. 129-60 HS 125 125 129-60 HS 13-40 TURNER (EX. VAT) X 15 Bs Hn. 180-00 2x 15 Bs Hn. 340-00 1x 10 Mid Ring, Hn. 160-00 2x 12 Mid Ring, Hn. 160-00 2x 12 Mid Ring, Hn. 180-00 1x 10 Mid Ring, Hn. 150-00 Rad. Hn. VHF Tweets 300-00 Wedge 12" ATC + Hn. 220-00 Wedge 12" ATC + Diff Hn. 400-00
MO Monitor Amp 186-00 1375 Monitor Wedge Cab X 12"-2 Tweeters each 135-62 22 Spider 22 High Efficiency Hn Driver 73-63 A1 Adaptor for above 7-75 A2 ditto 11-63 A3 ditto 13-95 PMH Peavey Microphone High Microphone High Microphone High Microphone High Microphone Low Imp. 56-58 MH Peavey Ball Microphone Low Imp. 56-58 Microphone S6-58 Microphone S6-58 Microphone Microphon	1959 100W Lead 198-50 20203 100W M / Vol. 198-50 2068 100W M / Vol. 198-50 2068 100W M / Vol. 198-50 2099 100W Trans 169-00 1992 100W Trans 198-50 2099 100W Trans 1598-50 1	50\times win ch. 85-00 50\times save	DAVE SIMMS MUSIC PRODUCTS (EX. VAT) August Amplification PA 100 4 ch. 119-99 2 x 12 PA Cols prs. 154-40 2 x 12 PA Hn Cols prs. 154-40 2 x 12 PA Cols prs. 19-25 2 x 12 Inst. Cab. 82-25 "Y'' 4 x 12 Inst. Cab. 140-00 I x 15 Folded Hn Bin. 145-00 Add on Hn per pr. 64-80 Full-mix PA 100. 149-99 Power slave 125 amp. 145-80 I x 15 Super bin w hn 167-00 I x 15 Mini bin. 124-30 I x	top. 213-60 2120-A, 120W amp top. 199-30 3120-A, 120W, 4-chn amp, top. 192-30 \$L100, 120W slave amp. 177-90 \$L200, 240W slave amp. 177-90 \$L200, 240W slave amp. 177-90 \$L200, 10-chan mixer MP10, 10-chan mixer MP16, 16-chan mix. 1427-90 EX-2 Cross-over. 113-60 K-85 Power Baby combo. 265-45 K-95 Bass Baby combo. 163-60 2100-BB, 100W cab. 163-60 2100-BB, 100W cab. 225-00 2100-BB, 100W cab. 123-60 370-B 70W horn p.a. cab. 1210-BH, 140W hp.a. cab. 140-BH, 140W hp.a. cab. 156-45 3140-BH, 140W hp.a. cab. 156-45 3200-B, 120W bass horn cab. 156-45 H-100 120W tweeter horn. 156-45 H-100 120W tweeter horn. 227-15 STRINGS & THINGS BARCUS BERRY AMPS 1500 Pre-amp contr. unit. 326-43 1520 Pre-amp contr. unit. 326-43 1602 Pwrd 12" spkr unit. 351-54	418-8H 15" SOW. 108-00 421-8H 15" SOW. 126-00 511B Sectoral hn. 64-00 808-8A 30W H/F driver. 108-00 802 HF driver 40W. 92-50 809 Xover 100W. 65-00 TYAS Minimix 4 mono 58-32 Minimix 4 stereo 81-00 PS 70 84-24 PS 125- 129-60 PS 250 194-40 PS 125/125 205-20 Modular mixer POA CABS 1125. 37-80 2125. 64-80 HS2. 45-36 SF/15. 129-60 HF1. 113-40 TURNER (EX. VAT)
MO Monitor Amp 130W 186-00 12TS Monitor Wedge Cab x 12" - 2 Tweeters each 135-62 22 Spider 22 High Efficiency Hn Driver 73-63 Al Adaptor for above	1959 100W Lead 198-50 20203 100W M / Vol. 198-50 2068 100W M / Vol. 198-50 2068 100W M / Vol. 198-50 2098 100W Trans 169-00 1992 100W Bass 169-00 1986 50W Bass 154-95 2045 50W Artist 161-50 205 100W Slave 137-15 185 161-50 120	50½ twin ch. 85-00 50½ slave. 81-00 FC 150 slave. 96-00 Cabinets Eliminator w. horn. 168-00 Mini Elim. w. horns. 144-00 15″ 188-00 2 x 12 x 12 + 2H. 237-00 2 x 12 x 52 + 144-00 1 x 12 + 1H. 144-00 Tweeter box. 39-00 18″ hn. 252-00 Mini Bass cab. 102-00 Super lead cab. 96-00 SELMER SOLID STATE 7980 15 SS Combc. 46-00 7981 Super Reverb 30 Combo. 139-00 7982 Lead 100. 199-00 7984 Slave 100. 85-00 7983 Pass 100. 109-00 7984 Slave 100. 85-00 7984 Slave 100. 175-00 VALVE 7404 Treble "N" Bass 50 SV Rev 149-00 7402 Treble "N" Bass 50 SV Rev 149-00 7408 PA100/6 SV Rev 149-00 7408 PA100/6 SV Rev 189-00 7991 S212H 2 x 12″ hn. 129-00 7992 S115 1 x 15″ 159-00 7992 S115 1 x 15″ 159-00 7993 S2H Add on dbh hn. 181-00 7994 S115 A 1 x 15″ 129-00 7993 S2H Add on dbh hn. 181-00 7994 S115 A 1 x 15″ 129-00 7993 S2H Add on dbh hn. 181-00 55-00	DAVE SIMMS MUSIC PRODUCTS (EX.VAT) August Amplification PA 100 4 ch. 119-99 2 x 12 PA Cols prs 154-40 2 x 12 PA Hn Cols prs 172-50 1 x 12 PA Cols prs 199-99 1 x 12 PA Cols prs 119-25 2 x 12 Inst. Cab 82-25 "V" 4 x 12 Inst. Cab 140-00 1 x 15 Folded Hn Bin. 145-00 Add on Hn per pr. 64-80 Full-mix PA 100. 149-99 Power slave 125 amp. 94-50 1 x 15 Super bin w hn 167-00 1 x 15 Mini bin. 124-30 1 x 15 Super bin w hn 167-00 2 x 15 Super bin w hn 167-00 3 x 15 Super bin w hn 167-00	top. 213-60 2120-A, 120W amp top. 199-30 3120-A, 120W, 4-chn amp, top. 122-30 \$\$L100, 120W slave amp. 177-90 \$\$MP10, 10-chan mixer 577-15 \$\$MP-16, 16-chan mix. 1427-90 \$\$EX-2 Cross-over 113-60 \$\$K-95 Bass Baby combo. 265-45 \$\$K-95 Bass Baby combo. 285-00 2050-BB, 100W cab. 163-60 2100-BB, 100W cab. 163-60 2100-BB, 100W bs cab. 213-60 370-B 70W horn p.a. cab. 142-15 3140-B 140W p.a. cab. 156-45 \$\$Morn cab. 156-45 \$\$H-100 120W tweeter horn. 156-45 \$\$H-100 120W tweeter horn. 227-15 \$\$TRINGS & THINGS \$\$BARCUS BERRY AMPS\$ 1500 Pre-amp contr. unit. 242-73 1510 Pre-amp contr. unit. 368-28 1601 Pwrd 12" spkr unit. 368-28	418-8H 15" SOW. 108-00 421-8H 15" SOW. 126-00 511B Sectoral hn. 64-00 811B Sectoral hn. 64-00 808-8A 30W H/F driver. 108-00 802 HF driver 40W 92: 50 809 Xover 100W. 65-00 TYAS Minimix 4 mono 58-32 Minimix 4 stereo. 81-00 PS 70. 84-24 PS 125. 129-60 PS 250. 194-40 PS 125. 129-60 PS 250. 194-40 PS 125. 129-60 PS 125. 129-60 PS 125. 129-60 PS 125. 129-60 HF1. 113-40 TURNER (EX. VAT) I x 15 Bs Hn. 180-00 2 x 12 Mid Ring, Hn. 160-00 2 x 12 Mid Ring, Hn. 160-00 1 x 10 Mid Ring, Hn. 180-00 1 x 10 Mid Ring, Hn. 280-00 1 x 10 Mid Ring, Hn. 280-00 1 x 10 Mid Ring, Hn. 280-00 1 x 10 Mid Ring, Hn. 300-00 Wedge 12" ATC + Diff Hn. 400-00 Hexagonal Mt. 230-00 A200 Ster. power amp 260-00 B300 Pro. Power amp 260-00 B300 Pro. Power amp 350-00
Monitor Amp 186-00 130	1959 100W Lead 198-50 20203 100W M/Vol. 198-50 2068 100W M/Vol. 198-50 2068 100W M/Vol. 198-50 2099 100W Trans 169-00 198-50 2099 100W Trans 198-50 2099 100W 174-95 204-50W M/Vol. 154-95 204-50W M/Vol. 154-95 204-50W M/Vol. 154-95 204-50W M/Vol. 164-95 204-50W M/Vol. 164-95 204-50W M/Vol. 170-95 1982-82B 120W 4 x 12	50\times twin ch. 85-00 50\times twin ch. 85-00 FC 150 slave	DAVE SIMMS MUSIC PRODUCTS (EX.VAT) August Amplification PA 100 4 ch	top. 213-60 2120-A, 120W amp top. 199-30 3120-A, 120W, 4-chn amp, top. 192-30 \$L100, 120W slave amp. 127-90 \$L200, 240W slave amp. 17-90 MP10, 10-chan mixer 577-15 MP-16, 16-chan mix. 1427-90 EX-2 Cross-over. 113-60 K-85 Power Baby combo. 265-45 K-95 Bass Baby combo. 265-45 C-95 Bass Baby combo. 2100-GB, 200W cab. 266-60 2100-GB, 200W cab. 213-60 370-B 70W horn p.a. cab. 140-BH, 140W hn p.a. cab. 142-15 3140-B 140W p.a. cab. 156-45 3100-B, 120W bass horn cab. 156-45 H-100 120W tweeter horn. 227-15 STRINGS & THINGS BARCUS BERRY AMPS 1500 Pre-amp contr. unit. 224-73 1510 Pre-amp contr. unit. 326-43 1520 Pre-amp contr. unit. 368-28 1601 Pwrd 12" spkr unit. 368-28 1603 Pwrd 2 x 12 spkr unit. 351-54	418-8H 15" 150W. 108-00 421-8H 15" 150W. 126-00 511B Sectoral hn. 64-00 808-8A 30W H/F driver. 108-00 809-8A 30W H/F driver 108-00 802 HF driver 40W. 92-50 809 Xover 100W. 65-00 TYAS Minimix 4 mono 58-32 Minimix 4 stereo 81-00 PS 70 84-24 PS 125 129-60 PS 250 194-40 PS 125 129-60 PS 250 194-40 PS 125 129-60 PS 125 129-60 HS 215/125 205-20 Modular mixer POA CABS 112S 45-36 SF/15 129-60 HF1 113-40 TURNER (EX. VAT) x 15 Bs Hn 180-00 2 x 15 Bs Hn 340-00 1 x 10 Mid Ring, Hn 160-00 2 x 12 Mid Ring, Hn 150-00 Rad Hn VHF Tweets 300-00 Wedge 12" ATC 100-00 Wedge 12" ATC 100-00 Wedge 12" ATC 200-00 Wedge 12" Gauss 200-00 Mexagonal Mt 230-00 A200 Ster power amp 350-00 A500 Pro. Power amp 480-00 TPS 12/2 mixer 1740-00
MO Monitor Amp 130W 186-00 112TS Monitor Wedge Cab x 2" - 2" Tweeters each 135-62 22 Spider 22 High Efficiency Hn Driver Al Adaptor for above Al Adap	1985 100W Lead 198 50 203 100W Artist 210 100 2098 100W Artist 210 2099 100W Bass 169 00 199 50 2099 100W Bass 154 95 2004 50W Artist 161 50 2005 100W Slave 137 15 156 50 2005 100W Artist 12 12 156 50 2005 100W Artist 12 156 50 2005 100W Artist 150 2005 150 2005 150 2005 200	50\times twin ch. 85-00 50\times twin ch. 85-00 FC 150 slave. 81-00 FC 150 slave. 96-00 Cabinets Eliminator w. horn. 168-00 Mini Elim. w. horns. 144-00 15"	DAVE SIMMS MUSIC PRODUCTS (EX.VAT) August Amplification PA 100 4 ch. 119-99 2×12 PA Cols prs. 154-40 1×12 PA Cols prs. 154-50 1×12 PA Cols prs. 19-95 2×12 Inst. Cab. 82-25 "V" 4×12 Inst. Cab. 140-00 1×15 Folded Hn Bin. 145-00 Add on Hn per pr. 64-60 Humix PA 100. 149-99 Power slave 125 amp. 94-50 1×15 Super bin wh hn 167-00 1×15 Mini bin. 124-30 1×15 Super mini bin. 145-80 August Disco Consoles MD3 Garrard dks. 218-45 MD1. 153-25 MD3 100. 286-25 SOLA SOUND Reverb mixer. 37-79 Graphic equaliser. 45-20 Mighty Atom amp. 27-90 Compact 10. 41-85 Sola 30W amp. 89-64 Buckeroo 7W amp. 33-13 SOUNDOUT (EX.VAT) Series Illa, mono. 267-00 Series Illa, stereo. 375-00 Series Illa, stereo. 375-00 Series VI. 246-00	1213-60 2120-A, 120W amp top. 199-30 3120-A, 120W, 4-chn amp, top. 122-30 SL100, 120W slave amp. 177-90 MP10, 10-chan mixer MP-16, 16-chan mix. 1427-90 EX-2 Cross-over 113-60 K-85 Power Baby combo. 265-45 K-95 Bass Baby combo. 285-00 2050-BB, 100W cab. 163-60 2100-BB, 100W cab. 163-60 2100-BB, 100W bs cab. 213-60 370-B 70W horn p.a. cab. 142-15 3140-BH, 140W hn p.a. cab. 156-45 Arborn cab. 156-45 Arborn cab. 156-45 H-100 120W tweeter horn. 156-45 H-100 120W tweeter horn. 227-15 STRINGS & THINGS BARCUS BERRY AMPS 1500 Pre-amp contr. unit. 368-28 1601 Pwrd 12" spkr unit. 368-28 S-W 20001 Vocal Blender 220-00	418-8H 15" SOW. 108-00 421-8H 15" SOW. 126-00 511B Sectoral hn. 64-00 811B Sectoral hn. 64-00 808-8A 30W H/F driver. 108-00 802 HF driver 40W 92:50 809 Xover 100W 65-00 TYAS Minimix 4 mono 58-32 Minimix 4 stereo 81-00 PS 70. 84-24 PS 125. 129-60 PS 250. 194-40 PS 125. 129-60 PS 250. 194-40 PS 125. 129-60 PS 250. 194-40 PS 125. 129-60 HS 215. 129-60 HS 215. 129-60 HS 215. 129-60 HF 31- 13-40 TURNER (EX. VAT) I x 15 Bs Hn. 180-00 2x 15 Bs Hn. 340-00 I x 10 Mid Ring, Hn. 160-00 2x 15 Mid Ring, Hn. 160-00 I x 10 Mid Ring, Hn. 150-00 Rad. Hn. VHF Tweets. 300-00 Wedge 12" ATC Hn. 220-00 Wedge 12" ATC Diff Hn. 320-00 Wedge 12" ATC Diff Hn. 320-00 Wedge 12" Gauss 230-00 A200 Ster. power amp 260-00 A300 Pro. Power amp 350-00 A500 Pro. Power amp 480-00 TPS 12/2 mixer. 2125-50 TPS 20/2 mixer. 2125-50 TPS 20/2 mixer. 2500-00 TPS 24/2 mixer. 2500-00 TPS 12/2 mixer. 2500-00 TPS 24/2 mixer. 2500-00 TPS 24/2 mixer. 2505-00
Monitor Amp 130W 186-00 1375 Monitor Wedge Cab x 2" - 2 Tweeters each 135-62 22 Spider 22 High 216-62 136-62	1959 100W Lead 198-50 2020 100W M / Vol. 198-50 2068 100W M / Vol. 198-50 2068 100W M / Vol. 198-50 2099 100W Trans 169-00 1992 100W Trans 169-00 1985 100W 154-95 100W 154-95 100W 154-95 100W 154-95 100W	50V twin ch. 85-00 50V slave. 81-00 FC 150 slave. 96-00 Cabinets Eliminator w. horn. 168-00 Mini Elim. w. horns. 144-00 15". 188-00 2 x 12 x 12 + 2H. 237-00 2 x 12 x 2d. 144-00 1 x 12 + 1H. 144-00 1 x 12 + 1H. 144-00 1 x 12 + 1H. 144-00 Super lead cab. 96-00 SELMER SOLID STATE 7980 15 SS Combc. 46-00 7981 Super Reverb 30 Combo. 139-00 7982 Lead 100. 109-00 7983 Bass 100. 109-00 7984 Slave 100. 85-00 7981 For the service of the service	DAVE SIMMS MUSIC PRODUCTS (EX. VAT) August Amplification PA 100 4 ch	1213-60 2120-A, 120W amp top. 199-30 3120-A, 120W, 4-chn amp, top. 122-30 SL100, 120W slave amp. 177-90 SL200, 240W slave amp. 177-90 MP10, 10-chan mixer MP-16, 16-chan mix. 1427-90 EX-2 Cross-over 113-60 K-85 Power Baby combo. 265-45 K-95 Bass Baby combo. 285-00 2050-BB, 100W cab. 163-60 2100-GB, 200W cab. 1200-BB, 100W bs cab. 213-60 370-B 70W horn p.a. cab. 142-15 3140-BH, 140W p.a. cab. 156-45 ADO-B, 120W bass horn cab. 156-45 H-100 120W tweeter horn. 156-45 H-100 120W tweeter horn. 227-15 STRINGS & THINGS BARCUS BERRY AMPS 1500 Pre-amp contr. unit. 242-73 1510 Pre-amp contr. unit. 368-28 1601 Pwrd 12" spkr unit. 368-28 S-W 20001 Vocal Blender 220-00 155-00 2000 Pk 100W with reverb. 159-00	418-8H 15" SOW. 108-00 421-8H 15" SOW. 126-00 511B Sectoral hn. 64-00 811B Sectoral hn. 64-00 808-8A 30W H/F driver. 108-00 802 HF driver 40W 92: 50 809 Xover 100W 65-00 TYAS Minimix 4 mono 58-32 Minimix 4 stereo. 81-00 PS 70. 84-24 PS 125. 129-60 PS 250. 194-40 PS 125. 129-60 PS 250. 194-40 PS 125. 129-60 PS 250. 194-40 PS 125. 129-60 HS 215. 129-60 HF 1. 113-40 TURNER (EX. VAT) I x 15 Bs Hn. 180-00 2 x 15 Bs Hn. 160-00 2 x 15 Bs Hn. 160-00 2 x 12 Mid Ring. Hn. 160-00 1 x 10 Mid Ring. Hn. 150-00 Rad. Hn. VHF Tweets. 300-00 Wedge 12" ATC Hn. 400-00 Hexagonal Mt 230-00 Wedge 12" Gauss 20-00 Wedge 12" Gauss 245-00 B300 Pro. Power amp 260-00 A200 Ster. power amp 260-00 A500 Pro. Power amp 350-00 A500 Pro. Power amp 350-00 A500 Pro. Power amp 350-00 A500 Pro. Power amp 480-00 TPS 12/2 mixer. 1740-00 TPS 12/2 mixer. 1740-00 TPS 24/2 mixer. 2505-00 TPS 24/2 mixer. 2505-00 TPS 24/2 mixer. 2505-00 TPM 16/2 mixer. 2562-00
MO Monitor Amp 130W 186-00 112TS Monitor Wedge Cab x 2" + 2" 2 Tweeters each 135-62 22 Spider 22 High Efficiency Hn Driver 73-63 Al Adaptor for above 7-75 A2 ditto 13-95 A3 ditto 13-95 PMH Peavey Microphone High Peavey Microphone High Microphone High Microphone Low Imp. 56-58 MH Peavey Ball Microphone Low Imp. 56-58 MRL Peavey Ball Microphone MRL Peavey Ball Microphone MRL Peavey MRL Peavey Ball Microphone MRL Peavey Peavey MRL Peavey MRL Peavey MRL Peavey Peavey MRL Peavey MRL Peavey Peavey MRL Peavey Peavey MRL Peavey Peave	1959 100W Lead 198-50 20203 100W M / Vol. 198-50 2068 100W M / Vol. 198-50 2068 100W M / Vol. 210-00 210-00 198-50 2099 100W Bass 169-00 198-50 2099 100W Bass 154-95 204-50	50\times twin ch. 85.00 50\times salve	DAVE SIMMS MUSIC PRODUCTS (EX.VAT) August Amplification PA 100 4 ch	top. 213-60 2120-A, 120W amp top. 199-30 3120-A, 120W, 4-chn amp, top. 192-30 \$1200, 120W slave amp. 177-90 \$1200, 240W slave amp. 177-90 \$1200, 240W slave amp. 177-90 \$11-90 \$17-90 \$11-90 \$10-90 \$1	418-8H 15" SOW. 108-00 421-8H 15" SOW. 126-00 511B Sectoral hn. 64-00 808-8A 30W H/F driver. 108-00 809 2H Fdriver 40W. 92-50 809 Xover 100W. 65-00 TYAS Minimix 4 mono. 58-32 Minimix 4 stereo. 81-00 PS 70. 84-24 PS 125. 129-60 PS 250. 194-40 PS 125/125. 205-20 Modular mixer. POA CABS 112S. 37-80 212S. 64-80 HS2. 45-36 HS2. 45-36 HS2. 45-36 HS4. 45-36 HS5. 129-60 HF1. 113-40 TURNER (EX. VAT) Diff Hn. 160-00 2 x 12 Mid Ring. Hn. 160-00 2 x 12 Mid Ring. Hn. 150-00 Rad. Hn. VHF Tweets. 300-00 Wedge 12" ATC + Diff Hn. 400-00 Hexagonal Mt. 230-00 Wedge 12" Gauss - Diff Hn. 400-00 Hexagonal Mt. 230-00 A200 Ster. power amp 360-00 A500 Pro. Power amp 360-00 TPS 12/2 mixer. 1740-00 TPS 12/2 mixer. 1740-00 TPS 12/2 mixer. 2500-00 TPS 24/2 mixer. 2500-00 TPS 24/2 mixer. 2500-00 TPS 12/2 mixer. 1931-25

Belden Multiway Cables On abp	Westminster 52.00 Westminster key-board 52.00 Westminster bass 59.00 Dominator 30 130.00 Dominator 50 lead 160.00 50 Keyboard 165.00 50 Amp Top 100.00 GX 100 110.00 AX 100 110.00 GX 200 185.00 AX 200 185.00 AX 200 185.00 Dominator Bass 98.00 Power Musette 88.50 Slave Power Stage 250.00 Slave Power Stage 100 200 170.00 Bandmixer 100 Mk II 140.00 Reverbmaster 210.00 Audiomaster Mk 298.00 Audiomaster Mk 298.00 Audiomaster Mk 80.00 Super 40 80.00 Super 40 80.00 Starfinder Super 80 125.00 Starfinder Super 80 125.00 Starfinder Super 80 125.00 Super 40 80.00	Club 2 x 12"	S50 x 2" 60W 59-85 S100 2 x 12" 120W 84-82 S150 x 15" w H.F. hrns 100W 157-65 M50 x 12" amontor 60W 61-74 157-65 M50 x 12" amontor 60W 61-74 157-65 M50 x 12" monitor 60W 61-74 H50 H.F. twin horn 66-45 Projector 100 1 x 15" 2 hn 258-00 Projector 200 2 x 15" 3 hn 258-00 CONCERT RANGE PA ENCLOSURES B12 x 12" mid ringe hn 200W 196-20 B15 x 15" 85 hn 200W 240-12 B30 2 x 15" 58 hn 400W 398-58 H100E Radial horn 30W 136-23 H100V Radial horn 70W 171-48 H100V Radial horn 70W 171-48 H100V 171-48 H100V 171-48 H100V 187-23 H100V 171-48 H100V 187-23 H100V 171-48 H100V 187-23 H100V 171-48 H100V 187-23 H100	D16 St 16 ch	YVM-4 4-ch w/rvb 150-00 YVM-6 6-ch w/rvb 234-00 YPM-1 100W slave 99-00 P.A. Speaker Systems: YSC-2 4 × 12" cols (pr)
	PERC	USSION	INSTRUM	ENTS	医骨髓 医线束
D. H. BALDWIN GRETSCH Outfits: 4027 Rock 'n Roll TBA 4029 Avant Garde	Panorama 22. 398-41 Panorama 24. 343-16 Galaxy 18. 242-72 Galaxy 21. 256-11 Galaxy 24. 259-46 AVEDIS ZILDJIAN CYMBALS (Prices for all types except Swish and Pang as stated) (Available in Types and Weights as Catalogue) 7386 8". 17-17 7387 10". 20-09 7389 12". 25-44 7390 13". 28-38 7391 14". 34-32 7392 15". 37-25 7393 16". 39-59 7394 17". 42-61 7395 18" Swish. 56-16 7395 18" Swish. 56-16 7395 18" Swish. 56-16 7396 20". 56-16 7396 20". 56-16 7397 22" 75-14 7396 20". 56-16 7397 22" 70-92 73975 22" Swish. 60-94 7400 21". 62-61 7397 72". 70-92 73975 22" Swish. 79-43 AVEDIS ZILDJIAN BRILLIANT' CYMBALS (Prices for all types except Swish and Pang as stated) 7387B 10". 24-86 7390B 13". 33-15 7391B 14". 39-01 7392B 15". 41-35 7391B 14". 39-01 7392B 15". 41-37 7394B 17". 47-29 7395B 18". 52-56 7396B 20" Swish. 61-52 7396B 20" Swish. 61-52 7396B 20" Swish. 69-48 7396B 20" Swish. 69-48 7396B 20" Swish. 69-48 7396B 20" Swish. 69-48 7397B 22". 71-15 7397BS 22" Swish. 83-70 AVEDIS ZILDJIAN H-HAT CYMBALS 7390HH 13". 56-75 7391HH 14". 68-63 7392HH 15". 74-50 7393HH 16". 79-19 C.B.S. ARBITER (EX. VAT) ROGERS Outfits: Studio X. 1333-00 Londoner Super 10. 744-00 Starlighter Super 10. 748-00 Starlighter Super 10. 748-00 Starlighter Super 10. 748-00 Starlighter Super 10. 78-90 Headliner IV. 590-55 Londoner VIII. 1267-90 Drums: Dynasonic snare 5 x 14". 597-358	Superten snare 6½ x 14	19" Thin.	7025 13" x 9" 76-31 7026 14" x 10" 79-90 7027 15" x 10" 83-15 7028 15" x 12" 88-45 7029 14" x 14" 101-97 7030 16" x 16" 114-50 7031 18" x 16" 133-39 7032 20" x 18" 129-76 7034 14" x 18" 129-76 7034 14" x 20" 151-03 7035 14" x 22" 166-14 7036 14" x 24" 181-67 7037 14" x 26" 201-08 J. T. COPPOCK Mitchell S5 5 drum kit (w/out cymbals) 265-00 D. B WHOLESALE CAMCO DRUM KITS C-650 790-83 C-600 843-27 C-400 542-55 C-420 565-81 C-450 599-32 C-500 674-62 Share drums 450 5" Wood, 8 lugs 100-61 453 6" Wood, 10 lugs 103-15 701M 5" Chrome, 8 lugs 116-01 710M 5" Chrome, 10 lugs 119-61 711M 6" Chrome, 8 lugs 119-61 711M 6" Chrome, 119-61 711M 6" Chrome, 119-61 711M 6" Chrome, 8 lugs 119-61 711M 6" Chrome, 119-61 711M 6" Chrome, 8 lugs 119-61 711M 6" Chrome, 8 lugs 119-61 711M 6" Chrome, 10 lugs 119-61 711M 6" Chrome, 8 lugs 119-61 711M 6" Chrome, 119-61 711M 6" Chrome, 119-61 711M 6" Chrome, 8 lugs 119-61 711M 6" Chrome, 119-61 711M 6" Chrome, 119-61 711M 6" Chrome, 88-52 711M 6" Chrome, 82-81 711413 13" x 9" 88-85 711413 13" x 9" 88-85 71410 14" x 15" 10-76 71416 16" x 16" 123-51 71418 16" x 18" 131-12 71420 18" x 20" 145-72 710m Toms—Single Headed 71414 14" x 15" 10-76 71415 14" x 15" 10-79 71415 14" x	1122 14" x 22" 151-46 1124 14" x 24" 167-98 1126 14" x 24" 167-98 1126 14" x 26" 183-23 23 23 23 23 23 23 23

## Annual Control of the Property of the Control of	XK926, 717.05	6314/PF 24" Bs 677.00			46 <u>1</u> 12 x 8 Meladic		1090 10" Calf Tam-	
	XK946	6314/SF 24" Bs., 728.00 6314/PNP 24" Bs 642.00	To avoid unneces	sary repetitions, cer-			Jingles	25.85
Second Comparison		6324/PW 24" Bs, 529.00			463 14 x 10 Meladic		MSI Kalan Parrable	
Section Sect	D565 14" x 53" 89.40	6324/PFW 24" Bs 529.00	tain abbreviation	s are frequently used	Tom Tom	52.78	Xylophone	715.00
Commission Com	D561 Acrylic 89-40	6324/SFW 24" Bs 571.00	in our listings: e	ectric-elec; custom-	Tom Tom	61.85	Xylophone	565.00
Section Sect	G318 18" x 14" 103.70	6324/SF 24" Bs 633.00	ctm: semi-acous	tic-s/ac organ-org	Tom Tom	69.39	Xylophone (2½	
Continue	G370 20" x 14", 115·15 G322 22" x 14", 126·45	6324/SNP 24" Bs 610.00			Drum Super	128-23	M39 Kelon Piccolo	
The content of the		6332/SFW 22" Bs 525-00	professional – pro	; standard – std;	922 22 x 14 Bass		Oct.)	365.00
String of a Use of African Company String of African	T706 6" x 5½" Set 55.50	6332/SF 22" Bs 589-00 6332/PNP 22" Bs 531-00	acoustic–ac; folk	-fk; bass-bs; string-	Classic	137-30	Marimba	825-00
Description 1.5 1.	T710 10" x 6½" 51.65	6332/SNP 22" Bs 562-00 6342/PW 22" Bs 440-00	string; de luxe-d	/I; jumbo-jbo; piano-	Drum Super	146-33	Marimba	555.00
Section Proceedings Proc	T7 3 3" x 9" 54.90 T7 4 4" x 10" 63:55	6342/SW 22" Bs 468.00 6342/PFW 22" Bs 440.00	pno: left hand-I/	n: scale-sc: case-cs:	926 26 x 14 Bass		Marimba	1340-00
California Coulte hease California	T715 15" x 12" 85·30 T716 16" x 14" 86·30	6342/SFW 22" Bs 468-00				156-90	Marimba	1785-00
Display Compared	Tom some: (double beaded)	6342/SF 22" Bs 524.00	banjo-bjo	monitor-mt.			Marimba	1690-00
Display Compared	T723 13" x 9" 54.90	Tom-Toms 429.00			Tom holder	18.00	M55 Pro Viba	
175 18 18 18 18 18 18 18 1	1675 15" \(\text{17}" \) /1.40	Tom-Toms, 468 00	D204 519·1	9 269\$ 20" sizzle [7-3]	Tom holder	25.00	(Variable Speed)	1420-00
Sample S	T736 6" x 6" 86·30	Snare 5 x 14", 51.00		8 272 2" 4.82 4 272 P 12" pair 9.64	Tom floor stand	37.55	Avedis Zildjian Proc	ducts
25224 14 - 9	Snare drum stands:	6357 Cust Brass Snare 5 x 14", 71-00		6 273P 13" pair 12:30	Tom holder	25.90	5242 10"	
\$\frac{1}{2232} \$\frac{1}{1} \$	Cymbal stands:	6358 Cust Brass Snare 6½ x 14" 71.00		1 274 14" 7-39 D 274P 14" pair 14-75	Tom floor stand	34.45	5243 13"	
Company	Z5227 16·40			1 275 15"	Anchor	4.57	5245 15"5246 16"	
Comparison Com	Z5228 69·70 Z5229 34·40			5 276 16"	tracting spurs		5247 17"	
Comparison Com	Cymbals:		B604	4 280 20 16-92		5.10	5248WC 18" Wide Cup,	48-55
1055 107	Z1002 12" 6·10			Super Zyn:			5248 \$ 18" Sizzle	
200 18 92 21 75 25 26 26 27 27 26 26 27 27	Z1005 14", 10.55	6365 Drummer's		- 354P 14" pair 49.5/	goes on stand	88-95	5248T 18" Trio 5248MC 18" Mini	
Country Coun	Z1009 18*		D606650·4	355P 15" pair 54-11	per, on Stand 2353 Timbales, Brass,	145-00	5249 19",	51.48
2000	Turko:	Outfits:	B717 w 22" BD 573.5	358 18" 34.43	on Stand		5220 SW 20" Swish	65.03
2006 5	Z2003 13"	Bs Drum 245.00	808 w 20" BD 779-3	360 20" 39.54	Chrome, on Stand 1261 Single Cowbell	155.00	5220S 20" Sizzle	
220 322 - 48 - 55	Z2006 15"	Bs Drum 218-00	D808 w 24" BD 803-4	362 22" 49.37	Holder	1.64	CHP	
April Company Compan	Z2009 18" 29-45	Bs Drm 199.00	B1030 22" BD 331-7		128 4" Cowbell	6.60	5221 22",	70.98
	Z2013 22"	Bs Drm	1031 w 20" BD 214-4	ROSE-MORRIS	2388 Black Beauty			/9.43
276 0.4	272 2"	6410 Snare Drum Kit	1033 w 20" BD 255-8	LUDWIG	2389 Timbale, Cow-		Hi-Hats	62-69
286 18 18 18 18 18 18 18	275 5"	6411 Metal Snare Drum, 5½ x 14",		2001 Octaplus 1360.00	2390 Bongo Cow-		5216 14" 15" pr	71.57
## 17.30	270 10//	Ch						
HORNBY-SKEWES HO	268S 18" sizzle 15-75	6412 Wood Snare	124, 28 x 17"	993 Pro Beat 890.00	2391 Mambo Cow-	17.95	Standard Hi-Hats	56.77
HORNBY-SKEWES ### C422 Cym Floror Sid. 7.25 ### C422 Cym Floror Sid. 7.25 ### C423 Cym Floror Sid. 7.25 ### C424 Cym Floror Sid. 7.25 ### C425 Cym Floror S	268S 18" sizzle	6412. Wood Snare Drum, 5½ x 14" 27.75 6413. Wood Snare	126, 26 x 17"	993 Pro Beat	2391 Mambo Cow- bell	17.95	Standard Hi-Hats	68 63
## OSHINO ## OSCO CYMBALS ## I-Hats	268S 18" sizzle	6412 Wood Snare Drum, 5½ x 14" 27.75 6413 Wood Snare Drum, 5½ x 14" 23.50 Accessories;	126, 26 x 17" 89.0 127, 18 x 15" 65.5 130, 20 x 17" 73.6 125, 24 x 17" 85.7	993 Pro Beat 890 00 990 Deluxe Classic 630 00 989 Big Beat 735 00 985 Rock-Duo 935 00 964 Super Big Beat 750 00	2391 Mambo Cow- bell	17·95 22·85 3·50 4·30	Standard Hi-Hats 5243/2 13" pr 5244/2 14" pr 5245/2 15" pr 5246/2 16" pr	68·63 74·49
HT8. 275.00 Hts. 275.00 Ht	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 287 22" 20-25	6412 Wood Snare Drum, 5½ x 14" 27-75 6413 Wood Snare Drum, 5½ x 14" 23-50 Accessories: 6420 Bs Drm Pedal 12-00 6422 Hi-Hat 5tand 13-00	126, 26 × 17"	993 Pro Beat. 890 00 990 Deluxe Classic 630 00 989 Big Beat 735 00 985 Rock-Duo 935 00 964 Super Big Beat 750 00 975 Triple Tom 855 00 1001 Rock Machine 760 00	2391 Mambo Cowbell. 2387 Agogo Bells	17.95 22.85 3.50 4.30 14.70 18.50	Standard Hi-Hats 5243/2 13" pr	68·63 74·49 79.18
HT8. 275.00 Hts. 275.00 Ht	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 287 22" 20-25	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 · 0 127, 18 × 15" 65 · 5 130, 20 × 17" 73 · 6 125, 24 × 17" 85 · 7 132, 22 × 17" 74 · 9 1150, 20" 61 · 9 1152, 22" 64 · 7 1154, 24" 67 · 6	993 Pro Beat. 890:00 990 Deluxe Classic 630:00 988 Big Beat 735:00 985 Rock-Duo 935:00 964 Super Big Beat 750:00 975 Triple Tom 855:00 1001 Rock Machine 760:00 1007 Smoke 'n Fire 780:00 2007 Overdrive 930:00	2391 Mambo Cow- bell. 2387 Agogo Bells 133 Cowbell holder 1323 Bell Block hlder 2383 Vibraslap Small 2384 Vibraslap Large 2380 Afuche Small 2381 Afuche Medium	17·95 22·85 3·50 4·30 14·70 18·50 19·00 21·75	Standard Hi-Hats 5243/2 13" pr	68·63 74·49 79.18 22·45 25·4 ₀ 34·2 ₀
42	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 281 22" 20-25 HORNBY-SKEWES HOSHINO HSD500 325-00	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 0 127, 18 × 15" 65 5 30, 20 × 17" 73 6 6 125, 24 × 17" 85 7 132, 22 × 17" 74 9 150, 20" 61 9 152, 22" 64 7 170, 20 × 15" 48 6 161, 20 × 17" 54 5 6	993 Pro Beat. 890-00 990 Deluxe Classic 630-00 989 Big Beat 735-00 985 Rock-Duo 935-00 964 Super Big Beat 7550-00 975 Triple Tom 855-00 1001 Rock Machine 760-00 1007 Smoke 'n Fire 780-00 2007 Overdrive 930-00 2003 Power Factory 1070-00 Snare Drums:	2391 Mambo Cowbell bell	17·95 22·85 3·50 4·30 14·70 18·50 19·00 21·75 26·65	Standard Hi-Hats 5243/2 13" pr	68·63 74·49 79.18 22·45 25·40 34·20 40·15 43·0-
42. 84-89 43. 19-10	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 287 22" 20-25 17-30 287 22" 20-25 17-30 287 22" 20-25 17-30 287 22" 20-25 17-30 287 22" 20-25 17-30 287 22" 20-25 17-30 287 22" 20-25 17-30 287 22" 20-25	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 · 0 127, 18 × 15" 65 · 5 30, 20 × 17" 73 · 6 125, 24 × 17" 85 · 7 132, 22 × 17" 74 · 9 1150, 20" 61 · 9 1152, 22" 64 · 7 1170, 20 × 15" 48 · 6 161, 20 × 17" 54 · 5 171, 20 × 17" 48 · 9 172, 22 × 15" 52 · 2 163, 22 × 17" 56 · 7 163, 22 × 17" 56 · 7 163, 22 × 17" 56 · 7 163, 22 × 17" 56 · 7 163, 22 × 17" 56 · 7 166, 20 × 17" 56 · 7 172, 22 × 17" 56 · 7 166, 20 × 17" 56 · 7 172, 22 × 17" 56 · 7 173, 22 × 17" 56 · 7 174, 22 × 17" 56 · 7 175, 22 × 17" 56 · 7 176, 20 × 17" 56 · 7 177, 22 × 17" 56 · 7 177, 22 × 17" 56 · 7 177, 22 × 17" 56 · 7 177, 22 × 17" 56 · 7 178, 20 × 17" 57 · 7 178, 20 × 17" 57 · 7	993 Pro Beat. 890-00 990 Deluxe Classic 630-00 989 Big Beat. 735-00 985 Rock-Duo 935-00 975 Triple Tom 855-00 1001 Rock Machine 760-00 2007 Overdrive 930-00 2003 Power Factory 1070-00 Snare Drums: 410 Supersensitive 5" 152-00	2391 Mambo Cowbell 2387 Agogo Bells 133 Cowbell holder 1323 Bell Block hlder 2384 Vibraslap Small 2384 Vibraslap Large 2380 Afuche Small 2381 Afuche Medium 2382 Afuche Large 2392 Metal Tubo 2393 Metal Tubo	17 95 22 85 3 50 4 30 14 70 18 50 19 00 21 75 26 65 2 80	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr. 5245/2 15" pr. 5246/2 16" pr. Brilliant 4930 8" 5333 10" 5334 13" 5336 15" 5337 16"	68·63 74·49 79.18 22·45 25·40 34·20 40·15 43·05 46·00
POWER DRIVE (EX VAT) Single drum kit. To order Size	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 287 22" 20-25 17-30 287 22" 20-25 17-30 287 22" 20-25 17-30 287 22" 20-25 17-30	6412 Wood Snare Drum, 5\frac{1}{2} \times 14" 27.75 6413 Wood Snare Drum, 5\frac{1}{2} \times 14" 23.50 Accessories: 6420 Bs Drm Pedal 13-00 6423 Cym Floor Std 7-25 6424 Snare Drm Std 8-25 TOSCO CYMBALS 14" Hi-Hats 40-00 16" Crash Ride 23-00 18" Medium Ride 33-00	126, 26 × 17" 89 0 127, 18 × 15" 65 5 130, 20 × 17" 73 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	993 Pro Beat. 890-00 990 Deluxe Classic. 630-00 989 Big Beat. 735-00 985 Rock-Duo. 935-00 975 Triple Tom. 855-00 1001 Rock Machine 760-00 2007 Overdrive. 930-00 2003 Power Factory. 1070-00 3 Snare Drums: 410 Supersensitive 5" 152-00 411 Supersensitive 5" 156-00 400 Supraphonic 5". 100-00	2391 Mambo Cowbell 2387 Agogo Bells 133 Cowbell holder 1323 Bell Block hider 2383 Vibraslap Small 2384 Vibraslap Large 2380 Afuche Small 2381 Afuche Medium 2382 Afuche Large 2392 Metal Tubo Small 2393 Metal Tubo Large 2361 Claves Small	17-95 22-85 3-50 4-30 14-70 18-50 19-00 21-75 26-65 2-80 3-75 4-35	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr. 5245/2 15" pr. 5246/2 16" pr. Brilliant 4930 8" 5333 10" 5334 13" 5336 15" 5337 16" 5337 16" 5339 18" 5339 18" 5339 18"	68·63 74·49 79·18 22·45 25·40 34·20 40·15 43·05 46·00 49·00 54·8 63·60
Single drum kit. Go Greek Sing	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 287 22" 20-25 17-30 287 22" 20-25 17-30 287 22" 20-25 17-30 287 22" 20-25 17-30	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 0 127, 18 × 15" 65:5 130, 20 × 17" 73:6 125, 24 × 17" 85:7 132, 22 × 17" 74:9 150, 20" 61:9 152, 22" 64:7 154, 24" 67:6 170, 20 × 15" 48:6 161, 20 × 17" 54:5 171, 20 × 17" 48:9 172, 22 × 15" 52:2 163, 22 × 17" 56:7 173, 22 × 17" 52:8 175, 24 × 15" 57:0 142 84:8 144 93:6	993 Pro Beat. 890 00 990 Deluxe Classic 630 00 989 Big Beat. 735 00 985 Rock-Duo 935 00 964 Super Big Beat 750 00 975 Triple Tom 855 00 1007 Smoke 'n Fire 780 00 2007 Overdrive 930 00 2003 Power Factory 1070 00 3 Snare Drums: 152 00 410 Supersensitive 6 5 152 00 400 Supraphonic 5" 156 00 400 Supraphonic 6 1 100 00 401 Supersensitive 6 402 Supraphonic 6 1 100 00 402 Supraphonic 6 1 100 00 404 Acrolite 75 00	2391 Mambo Cowbell 2387 Agogo Bells 133 Cowbell holder 1323 Bell Block hlder 2384 Vibraslap Large 2384 Vibraslap Large 2380 Afuche Small 2381 Afuche Medium 2382 Afuche Large 2392 Metal Tubo Small 2393 Metal Tubo Carge 2361 Claves Small 2368 Claves Medium 2364 Marcas Small	17-95 22-85 3-50 4-30 14-70 18-50 19-00 21-75 26-65 2-80 3-75 4-35 4-35 5-45	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr. 5245/2 15" pr. 5246/2 16" pr. Brilliant 4930 8" 5333 10" 5334 13" 5336 15" 5337 16" 5337 16" 5339 18" 5339 18" 5339 18"	68·63 74·49 79·18 22·45 25·40 34·20 40·15 43·05 46·00 49·00 54·8 63·60
Some graphs stand 16-43 Some graphs stand 19-11 Hi-hat pedal 22-13 Share drum stand 19-11 Hi-hat pedal 26-24 Double bass drum pedal 46-50 Shares 112 29-97 Shares 113 32-88 Hi-10 Tubular drums 1405 Tub	2685 8" sizzle 15.75 280 20" 16.90 2695 20" sizzle 17.30 281 22" 20.25	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 0 127, 18 × 15" 65:5 130, 20 × 17" 73:6 125, 24 × 17" 85:7 132, 22 × 17" 74:9 150, 20" 61:9 152, 22" 64:7 154, 24" 67:6 170, 20 × 15" 48:6 161, 20 × 17" 54:5 171, 20 × 17" 48:9 172, 22 × 15" 52:2 163, 22 × 17" 52:8 173, 22 × 17" 52:8 175, 24 × 15" 57:0 42	993 Pro Beat. 890-00 990 Deluxe Classic. 630-00 989 Big Beat. 735-00 989 Big Beat. 735-00 985 Rock-Duo. 935-00 975 Triple Tom 855-00 1001 Rock Machine 760-00 2007 Overdrive. 930-00 2007 Overdrive. 930-00 2007 Power Factory 1070-00 3 Snare Drums: 152-00 410 Supersensitive 5" 152-00 411 Supersensitive 6" 152-00 400 Supraphonic 5" 100-00 400 Supraphonic 5" 100-00 400 Supraphonic 5" 75-00 404 Profile. 75-00 405 Piccolo 3" 92-00	2391 Mambo Cowbell 2387 Agogo Bells 133 Cowbell holder 1323 Bell Block hider 2384 Vibraslap Large 2380 Afuche Small 2381 Afuche Medium 2382 Afuche Large 2392 Metal Tubo 2393 Metal Tubo 2393 Metal Tubo 2396 Claves Medium 2364 Maracas Small 2366 Maracas Med 2366 Maracas Med 2366 Girro Small	17-95 22-85 3-50 4-30 14-70 18-50 19-00 21-75 26-65 2-80 3-75 4-35 5-45 6-50 7-60	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr. 5245/2 15" pr. 5246/2 16" pr. Brilliant 4930 8" 5333 10" 5334 13" 5336 15" 5337 16" 5338 17" 5339 18" 5339 18" 5340 20" 5341 22"	68·63 74·49 79·18 22·45 25·40 34·20 40·15 43·05 46·00 49·00 54·8 63·60
Sance drum stand 9-11 FREWIER	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 281 22" 20-25	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 0 127, 18 × 15" 65:5 30, 20 × 17" 73:6 125, 24 × 17" 85:7 132, 22 × 17" 74:9 150, 20" 61:9 152, 22" 64:7 154, 24" 67:6 170, 20 × 15" 48:6 161, 20 × 17" 54:5 171, 20 × 17" 48:9 172, 22 × 15" 52:2 163, 22 × 17" 56:7 173, 22 × 17" 52:8 175, 24 × 15" 57:0 42	993 Pro Beat. 890-00 990 Deluxe Classic 630-00 989 Big Beat 735-00 989 Big Beat 735-00 985 Rock-Duo 935-00 975 Triple Tom 855-00 1001 Rock Machine 760-00 1001 Rock Machine 760-00 2007 Overdrive 930-00 2003 Power Factory 1070-00 3 Snare Drums: 152-00 401 Supersensitive 5" 152-00 401 Supersensitive 5" 152-00 402 Supraphonic 5" 100-00 402 Supraphonic 6\frac{1}{2}" 103-00 404 Acrolite 75-00 Stands and Fittings: 201 Speed King Pedal 35-00 Stands and Fittings: 201 Speed King Pedal 35-00	2391 Mambo Cowbell 2387 Agogo Bells 133 Cowbell holder 1323 Bell Block hider 2384 Vibraslap Small 2384 Vibraslap Large 2380 Afuche Small 2381 Afuche Medium 2382 Afuche Large 2392 Metal Tubo Small 2393 Metal Tubo Large 2361 Claves Small 2368 Claves Medium 2364 Maracas Small 2365 Maracas Med 2365 Guire Small 2366 Guire Small 2367 Guiro Medium	17-95 22-85 3-50 4-30 14-70 18-50 19-00 21-75 26-65 2-80 3-75 4-35 5-45 6-50 7-60	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr. 5245/2 15" pr. 5246/2 16" pr. Brilliant 4930 8" 5333 10" 5334 13" 5335 14" 5337 16" 5337 16" 5339 18" 5340 20" 5341 22"	68·63 74·49 79·18 22·45 25·40 34·20 40·15 43·05 46·00 49·00 54·8 63·60
Double bass drum pedal	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 180 20 180 20	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 0 127, 18 × 15" 65 5 130, 20 × 17" 73 6 6 15 130, 20 × 17" 85 7 125, 24 × 17" 85 7 1150, 20" 61 9 1152, 22" 64 7 1152, 22" 64 7 1170, 20 × 15" 48 6 161, 20 × 17" 54 5 171, 20 × 17" 54 5 171, 20 × 17" 54 5 171, 20 × 17" 55 7 0 172, 22 × 15" 52 2 173, 22 × 17" 52 8 175, 24 × 15" 57 0 142 84 8 6 144 93 6 166 112 8 Timbales: 531, 13 & 14 × 6 96 3 531C 98 4 1	993 Pro Beat. 890-00 990 Deluxe Classic. 630-00 989 Big Beat. 735-00 980 Big Beat. 750-00 975 Triple Tom 855-00 1001 Rock Machine 760-00 2010 Prock Machine 760-00 401 Prock Machine 760-00 402 Supraphonic 6½" 103-00 404 Acrolite. 75-00 405 Piccolo 3" 92-00 Stands and Fittings: 201 Speed King Pedal 35-00 205 Ghost Pedal 50-95 1130 Tubular Hi-Hat stand. 43-15	2391 Mambo Cowbell 2387 Agogo Bells 133 Cowbell holder 1323 Bell Block hlder 2384 Vibraslap Large 2380 Afuche Small 2381 Afuche Medium 2382 Afuche Large 2392 Metal Tubo 2393 Metal Tubo 2361 Claves Small 2363 Claves Medium 2364 Maracas Med 2365 Maracas Med 2366 Guiro Small 2366 Guiro Bmall 2366 Guiro Small 2367 Guiro Medium	17-95 22:85 3:50 4:30 14:70 18:50 19:00 21:75 26:65 2:80 3:75 4:35 5:45 5:45 5:45 7:60 8:20	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr. 5245/2 15" pr. 5246/2 16" pr. Brilliant 4930 8" 5333 10" 5334 13" 5335 14" 5337 16" 5337 16" 5339 18" 5340 20" 5341 22" ROSETTI EMI HAMMA 770 Kit.	68 63 74 49 79 18 22 45 25 40 34 20 40 15 43 05 46 00 49 00 54 8 63 60 78 45
NORLIN 31,14×5 " 64-92 115 43-37 114 43-37 114 43-37 114 43-37 114 43-37 114 43-37 114 43-37 114 114 114 114 114 114 114 114 114 114 115 114	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 281 22" 20-25	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 0 127, 18 × 15" 65 5 5 130, 20 × 17" 73 6 6 6 5 6 5 1	993 Pro Beat. 890-00 990 Deluxe Classic. 630-00 989 Big Beat. 735-00 989 Big Beat. 735-00 985 Rock-Duo. 935-00 975 Triple Tom 855-00 1001 Rock Machine 760-00 2007 Overdrive. 930-00 2007 Overdrive. 930-00 2007 Power Factory 1070-00 3 Snare Drums: 152-00 411 Supersensitive 5" 152-00 412 Supraphonic 5". 100-00 400 Supraphonic 6½". 103-00 400 Supraphonic 6½". 103-00 400 Supraphonic 6½". 103-00 505 Gloss Pedal. 50-95 1130 Tubular 1-Hat stand. 43-15 1374 Tubular 5/4 stnd 1405 Tubular cymbal	2391 Mambo Cowbell 2387 Agogo Bells 133 Cowbell holder 1323 Bell Block hider 2384 Vibraslap Large 2380 Afuche Small 2381 Afuche Medium 2382 Afuche Large 2391 Metal Tubo 2391 Metal Tubo 2361 Claves Small 2363 Claves Medium 2364 Maracas Small 2365 Maracas Med 2366 Guirco Small 2367 Guirco Medium Sticks .Brushes 190 A Wire Brushes 190 A Wire Brushes	17 95 22 85 3 50 4 30 14 70 18 50 19 00 21 75 26 65 2 80 3 75 4 35 4 35 4 35 6 50 7 60 8 20 2 50 2 50 2 50	Standard Hi-Hats 5243/2 13" pr 5243/2 14" pr 5245/2 15" pr 5246/2 16" pr Brilliant 4930 8" 5333 10" 5333 13" 5335 14" 5337 16" 5337 16" 5339 18" 5340 20" 5341 22" ROSETTI EMI HAMMA 770 Kit (wood-shell side drum) 660 Kit.	68-63 74-49 79-18 22-45 25-40 34-20 40-15 48-05 48-05 48-05 54-80 63-60 78-45 336-50
NORLIN 35, 14 x 5 \frac{1}{2}" 68-25 16	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 287 22" 20-25 HORNBY-SKEWES HOSHINO HSD500 325-00 HSD500T 425-00 HM1000 160-00 HCTB 275-00 HM300 151-50 HK600M 44-00 KNELLER POWER DRIVE (EX VAT) Stool 19-11 Cymbal stand 16-43 Boom cymbal stand 22-23 Snare drum stand 19-11 Hi-hat pedal 26-04 Double bass drum	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 0 127, 18 × 15" 65:5 130, 20 × 17" 73:6 125, 24 × 17" 85:7 132, 22 × 17" 74:9 150, 20" 61:9 154, 24" 67:6 170, 20 × 15" 48:6 170, 20 × 15" 48:9 171, 20 × 17" 48:9 172, 22 × 15" 52:2 163, 22 × 17" 56:7 173, 22 × 17" 56:7 173, 22 × 17" 57:0 142 84:8 144 93:6 166 112:8 175 24 × 15" 57:0 13 13 & 14 × 6 96:3 531, 13 & 14 × 6 89:0 531C 98:4 532C 91:1 Tom-Toms: 12 29:9 13 32:6	993 Pro Beat. 890-00 990 Deluxe Classic 630-00 989 Big Beat 735-00 985 Rock-Duo 935-00 985 Rock-Duo 935-00 975 Triple Tom 855-00 1001 Rock Machine 760-00 2003 Power Factory 1070-00 2003 Power Factory 1070-00 3 Snare Drums: 152-00 411 Supersensitive 6" 152-00 410 Supersensitive 6" 152-00 400 Supraphonic 6½" 103-00 402 Supraphonic 6½" 103-00 402 Supraphonic 6½" 103-00 5405 Piccolo 3" 92-00 Stands and Fittings: 201 Speed King Pedal 205 Ghost Pedal 50-95 1130 Tubular Hi-Hat stand 43-15 1374 Tubular s/d stnd 32-90 1410 Supers 95-95 1375 Tubular Supers 95-95 1376 Tubular Supers 95-95 1410 Tubular Hi-Hat stand 43-15 1377 Tubular Supers 95-95 1410 Tubular Supers 95-95	2391 Mambo Cowbell 2387 Agogo Bells 2387 Agogo Bells 132 Cowbell holder 1323 Bell Block hider 2384 Vibraslap Large 2380 Afuche Small 2381 Afuche Medium 2381 Afuche Large 2392 Metal Tubo Small. 2393 Metal Tubo Large 2361 Claves Small 2368 Claves Medium 2364 Maracas Small 2365 Maracas Med 2365 Guiro Small 2367 Guiro Medium Sticks, Brushes, Miscellaneous 190 Wire Brushes 191A Wire Brushes	17-95 22-85 3-50 4-30 14-70 18-50 19-00 21-75 26-65 2-80 3-75 4-35 5-45 6-50 8-20	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr 5245/2 15" pr. 5246/2 16" pr. Brilliant 4930 8" 5333 10" 5334 13" 5335 14" 5337 16" 5337 16" 5339 18" 5340 20" 5341 22" ROSETTI EMI HAMMA 770 Kit (woodshell side drum) 660 Kit (woodshell side drum)	68-63 74-49 79-18 22-45 25-40 34-20 40-15 43-05 46-00 49-00 54-80 78-45 5 336-50 336-50 269-95
Solution Color C	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 287 22" 20-25 HORNBY-SKEWES HOSHINO HSD500 325-00 HSD500T 425-00 HM1000 160-00 HCTB 275-00 HM300 151-50 HK600M 44-00 KNELLER POWER DRIVE (EX VAT) Stool 19-11 Cymbal stand 16-43 Boom cymbal stand 22-23 Snare drum stand 19-11 Hi-hat pedal 26-04 Double bass drum	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 0 127, 18 × 15" 65:5 130, 20 × 17" 73:6 125, 24 × 17" 85:7 132, 22 × 17" 74:9 150, 20" 61:9 152, 22" 64:7 154, 24" 67:6 170, 20 × 15" 48:6 161, 20 × 17" 54:5 171, 20 × 17" 48:9 172, 22 × 15" 52:2 163, 22 × 17" 56:7 173, 22 × 17" 57:0 142 84:8 175, 24 × 15" 57:0 142 84:8 153, 13 & 14 × 6 96:3 532, 13 & 14 × 6 99:0 531C 98:4 532C 91:1 Tom-Toms: 12 29:9 13 32:6 144 39:3 144 39:3 15 45:3 32:6 144 39:3 144 39:3 15 45:3 32:6 144 39:3 15 45:3 35:6 144 39:3 15 45:5 45:5	993 Pro Beat. 890-00 990 Deluxe Classic 630-00 989 Big Beat 735-00 989 Big Beat 755-00 985 Rock-Duo 935-00 964 Super Big Beat 750-00 975 Triple Tom 855-00 1001 Rock Machine 760-00 1007 Smoke 'n Fire 780-00 2007 Overdrive 930-00 2003 Power Factory 1070-00 3 Snare Drums: 410 Supersensitive 5" 410 Supersensitive 64" 411 Supersensitive 64" 405 Supraphonic 5", 100-00 402 Supraphonic 5", 100-00 404 Acrolite 75-00 405 Piccloo 3" 92-00 Stands and Fittings: 201 Speed King Pedal 205 Ghost Pedal 50-00 130 Tubular Hi-Hat stand. 50-95 1130 Tubular 19-41 1374 Tubular 5/d stnd 1405 Tubular cymbal stand. 28-95 1410 Tubular boom stand. 40-80 1020 Tubular throne. 31-35	2391 Mambo Cowbell bell. 2387 Agogo Bells. 133 Cowbell holder. 1323 Bell Block hlder 2383 Vibraslap Small 2384 Vibraslap Large 2380 Afuche Small. 2381 Afuche Medium 2382 Afuche Large 2393 Metal Tubo Small. 2393 Metal Tubo Large 2393 Metal Tubo 2361 Claves Small. 2368 Claves Medium 2364 Maracas Small. 2365 Maracas Med. 2366 Guiro Medium Sticks. Brushes, Miscellaneous 190 Wire Brushes. 191 Wire Brushes. 191 Wire Brushes. 191 Wire Brushes. 195 Wire Brushes.	17-95 22-85 3-50 4-30 14-70 18-50 19-00 21-75 26-65 2-80 3-75 4-35 5-45 6-50 8-20 2-50 2-50 2-50 2-90	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr	68-63 74-49 79.18 22-45 25-40 34-20 40-15 48-00 54-80 63-60 78-45 336-50 336-50 269-95 269-95
Solution Color C	2685 8" sizzle 15-75 280 20" 16-90 280 20" 16-90 281 22" 20-25 HORNBY-SKEWES HOSHINO HSD500 325-00 HSD500T 425-00 HM1000 160-00 HCTB 275-00 HM300 151-50 HK600M 44-00 KNELLER POWER DRIVE (EX VAT) Stool 19-11 Cymbal stand 16-43 Boom cymbal stand 19-11 Hi-hat pedal 26-04 Double bass drum pedal 46-50	6412 Wood Snare Drum, 5½ x 14"	126, 26 x 17" 89 0 127, 18 x 15" 65:5 30, 20 x 17" 73:6 125, 24 x 17" 85:7 132, 22 x 17" 74:9 150, 20" 61:9 152, 22" 64:7 154, 24" 67:6 170, 20 x 15" 48:6 161, 20 x 17" 54:5 171, 20 x 17" 48:9 172, 22 x 15" 52:2 163, 22 x 17" 56:7 173, 22 x 17" 56:7 173, 22 x 17" 57:0 142	993 Pro Beat. 890-00 990 Deluxe Classic 630-00 989 Big Beat 735-00 989 Big Beat 735-00 985 Rock-Duo 935-00 964 Super Big Beat 750-00 975 Triple Tom 855-00 1001 Rock Machine 766-00 1001 Rock Machine 766-00 2007 Overdrive 930-00 2003 Power Factory 1070-00 3 Snare Drums: 410 Supersensitive 5" 152-00 411 Supersensitive 5" 152-00 401 Supersensitive 5" 100-00 402 Supraphonic 5". 100-00 402 Supraphonic 6½" 103-00 404 Acrolite 75-00 90 Stands and Fittings: 201 Speed King Pedal 50-00 Stands and Fittings: 201 Speed King Pedal 50-90 1130 Tubular Hi-Hat stand. 43-15 1374 Tubular s/d stnd 1405 Tubular cymbal stand. 43-15 1374 Tubular boom stand. 40-80 1020 Tubular throne. 91-35 Turing 74-17-7-18	2391 Mambo Cowbell 2387 Agogo Bells 133 Cowbell holder 1323 Bell Block hider 2384 Vibraslap Large 2380 Afuche Small 2381 Afuche Medium 2382 Afuche Large 2392 Metal Tubo 2381 Large 2393 Metal Tubo 2361 Claves Small 2368 Claves Medium 2364 Maracas Med 2366 Maracas Med 2366 Guiro Medium 2366 Mare Small 2366 Guiro Ball 2367 Guiro Medium 2366 Ware Brushes 190 Wire Brushes 191 Wire Brushes 191 Wire Brushes 195 Wire Brushes 195 Wire Brushes 195 Wire Brushes 195 Wire Brushes 196 Wire Brushes 196 Wire Brushes 196 Wire Brushes 197 Wire Brushes 197 Wire Brushes 197 Wire Brushes 198 Wire Brushes 197 Wire Brushes 198 Wire Brushes 198 Wire Brushes 199 Wire Brushes 199 Wire Brushes 191 Wire Brushes	17-95 22-85 3-50 4-30 14-70 18-50 19-00 21-75 26-65 2-80 3-75 4-35 4-35 4-35 4-35 6-50 8-20 2-50 2-50 2-50 2-50 2-50 2-50 2-35	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr. 5245/2 15" pr. 5246/2 16" pr. Brilliant 4930 8" 5333 10" 5334 13" 5336 15" 5337 16" 5338 17" 5339 18" 5340 20" 5341 22" ROSETTI EMI HAMMA 770 Kit. W770 Kit (wood-shell side drum) Chood Shell side drum) Drums and Accessories 661 22" bass drum Chy 24" bass drum Chy 24" bass drum	68-63 74-49 79.18 22-45 25-40 34-20 40-15 43-05 46-00 49-00 563-60 78-45 336-50 336-50 336-50 336-50 336-50 336-50 336-50
6302 FF 22" Bs. 688-00 2000, 4 x 5 \frac{1}{2}" 70-33 442, 12 x 8" 39-96 70m Tom Tom Super Classic. 70-20 2003, 4 x 5 \frac{1}{2}" 70-37 444, 4 x 9" 45-37 6302 PNP 22" Bs. 633-00 2004, 14 x 12" 85-73 448, 8 x 16" 68-25 6304 PNP 24" Bs. 638-00 2000, 14 x 12" 85-73 448, 8 x 16" 69-51 433, 13 x 8" 77-63 1300 35-00 6304 PNP 24" Bs. 79-90 2011, 14 x 14\frac{1}{2}" 77-64 1333 33-11 6304 SPN 24" Bs. 79-90 2011, 14 x 14\frac{1}{2}" 77-64 1340 35-00 6304 PNP 24" Bs. 79-90 2011, 14 x 14\frac{1}{2}" 77-64 1340 35-00 6304 PNP 24" Bs. 79-90 2011, 14 x 14\frac{1}{2}" 77-64 1340 35-00 6304 PNP 24" Bs. 77-20 202 w 20" BD. 357-48 444, 14 x 8" 20-63 6312 PNP 24" Bs. 537-00 202 w 20" BD. 358-73 442, 12 x 8" 26-15 6312 PNP 24" Bs. 536-00 202 w 20" BD. 343-15 445, 16 x 16" 33-51 6312 PNP 22" Bs. 633-00 201 343-15 446, 16 x 16" 41-43 70 70 70 70 70 70 70 7	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 287 22" 20-25	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 · 0 127, 18 × 15" 65 · 5 30, 20 × 17" 73 · 6 125, 24 × 17" 85 · 7 125, 24 × 17" 85 · 7 125, 22 × 17" 74 · 9 150, 20" 61 · 9 152, 22" 64 · 7 170, 20 × 15" 48 · 6 171, 20 × 17" 48 · 9 171, 20 × 17" 48 · 9 172, 22 × 15" 52 · 2 173, 22 × 17" 56 · 7 173, 22 × 17" 52 · 8 175, 24 × 15" 57 · 0 142 84 · 8 144 93 · 6 166 112 · 8 17mbales: 531, 13 & 14 × 6 89 · 0 531C 98 · 4 532C 91 · 1 17mm 17mm 17mm 18 · 1 17mm 17mm 19 · 1 17mm 17mm 19 · 1 17mm 17mm 19 · 1 18 18 · 10 · 17 19 · 17 18 · 18 · 18 · 18 · 18 · 18 · 18 · 18	993 Pro Beat. 890-00 990 Deluxe Classic. 630-00 989 Big Beat. 735-00 989 Big Beat. 735-00 985 Rock-Duo. 935-00 964 Super Big Beat 750-00 975 Triple Tom 855-00 1001 Rock Machine 760-00 2007 Overdrive. 930-00 2008 Prower Factory 1070-00 3 Snare Drums: 410 Supersensitive 5" 152-00 411 Supersensitive 5" 152-00 401 Supersensitive 5" 152-00 402 Supraphonic 5". 100-00 402 Supraphonic 6\frac{1}{2}". 103-00 404 Acrolite. 75-00 405 Piccolo 3" 92-00 Stands and Fittings: 201 Speed King Pedal 205 Ghost Pedal 50-95 1130 Tubular Hi-Hat stand. 43-15 1374 Tubular s/d stnd 1405 Tubular cymbal stand. 43-15 1374 Tubular s/d stnd 1405 Tubular boom stand. 40-80 1020 Tubular throne. 31-35 Orchestral Drums: 942-12 x 8 Tom Tom Super Classic. 66-39	2391 Mambo Cowbell 2387 Agogo Bells 2387 Agogo Bells 233 Cowbell holder 2383 Vibraslap Small 2384 Vibraslap Large 2380 Afuche Small 2381 Afuche Medium 2382 Afuche Large 2392 Metal Tubo Small 2393 Metal Tubo Large 2361 Claves Small 2368 Claves Medium 2364 Marcas Small 2365 Marcas Med 2366 Guiro Medium Sticks, Brushes, Miscellaneous 190 Wire Brushes 191 Wire Brushes 195 Wire Brushes 195 Wire Brushes 196 Wire Brushes 196 Wire Brushes 197 Wire Brushes 198 Wire Brushes 198 Wire Brushes 199 Wire Brushes 191 Wire Brushes 191 Wire Brushes 191 Wire Brushes 195 Wire Brushes 196 Wire Brushes 196 Wire Brushes 197 Wire Brushes 198 Wire Brushes 198 Wire Brushes 198 Wire Brushes 199 Wire Brushes 199 Wire Brushes 191 Wire Brushes 191 Wire Brushes 195 Wire Brushes 196 Wire Brushes 196 Wire Brushes 197 Wire Brushes 198 Wire Brushes 198 Wire Brushes 198 Wire Brushes 199 Wire Brushes 199 Wire Brushes 191 Wire Brushes 191 Wire Brushes 191 Wire Brushes 193 Wire Brushes 194 Wire Brushes 195 Wire Brushes 195 Wire Brushes 196 Wire Brushes 196 Wire Brushes 197 Wire Brushes 198 Wire Brushes 199 Wire Brushes 199 Wire Brushes 190 Wire Brus	17-95 22-85 3-50 4-30 14-70 18-50 21-75 26-65 2-80 3-75 4-35 5-45 7-60 8-20 2-50 2-50 2-50 2-50 2-50 2-75	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr. 5245/2 15" pr. 5246/2 16" pr. Brilliant 4930 8" 5333 10" 5334 13" 5336 15" 5337 16" 5337 16" 5339 18" 5340 20" 5341 22" ROSETTI EMI HAMMA 770 Kit (wood-shell side drum) 660 Kit. (wood-shell side drum) 670 Kit (wood-shell side drum) 671 24" bass drum 672 4" bass drum 673 24" bass drum 673 24" bass drum 671 14 x 10 tom tom 673 16 x 16 floor tom	68-63 74-49 79.18 22-45 25-40 34-20 40-15 48-00 49-00 54-80 63-60 78-45 336-50 269-95 269-95 269-75 337-75
6302 FF 22" Bs. 688-00 2000, 4 x 5 \frac{1}{2}" 70-33 442, 12 x 8" 39-96 70m Tom Tom Super Classic. 70-20 2003, 4 x 5 \frac{1}{2}" 70-37 444, 4 x 9" 45-37 6302 PNP 22" Bs. 633-00 2004, 14 x 12" 85-73 448, 8 x 16" 68-25 6304 PNP 24" Bs. 638-00 2000, 14 x 12" 85-73 448, 8 x 16" 69-51 433, 13 x 8" 77-63 1300 35-00 6304 PNP 24" Bs. 79-90 2011, 14 x 14\frac{1}{2}" 77-64 1333 33-11 6304 SPN 24" Bs. 79-90 2011, 14 x 14\frac{1}{2}" 77-64 1340 35-00 6304 PNP 24" Bs. 79-90 2011, 14 x 14\frac{1}{2}" 77-64 1340 35-00 6304 PNP 24" Bs. 79-90 2011, 14 x 14\frac{1}{2}" 77-64 1340 35-00 6304 PNP 24" Bs. 77-20 202 w 20" BD. 357-48 444, 14 x 8" 20-63 6312 PNP 24" Bs. 537-00 202 w 20" BD. 358-73 442, 12 x 8" 26-15 6312 PNP 24" Bs. 536-00 202 w 20" BD. 343-15 445, 16 x 16" 33-51 6312 PNP 22" Bs. 633-00 201 343-15 446, 16 x 16" 41-43 70 70 70 70 70 70 70 7	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 287 22" 20-25 HORNBY-SKEWES HOSHINO 425-00 HSD500 325-00 HSD500T 425-00 HM1000 160-00 HCTB 275-00 HM300 151-50 HK600M 44-00 KNELLER POWER DRIVE (EX VAT) Stool 19-11 Cymbal stand 16-43 Boom cymbal stand 16-43 Sonare drum stand 19-11 Hi-hat pedal 26-04 Double bass drum pedal 46-50 NORLIN PEARL DRUM OUTFITS 6300 FW 22" Bs. 873-00 6300 SFW 22" Bs. 952-00	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 0 127, 18 × 15" 65:5 130, 20 × 17" 73:6 125, 24 × 17" 85:7 125, 22 × 17" 74:9 150, 20" 61:9 152, 22" 64:7 154, 24" 67:6 170, 20 × 15" 48:6 171, 20 × 17" 48:9 172, 22 × 15" 52:2 163, 22 × 17" 56:7 173, 22 × 17" 52:8 175, 24 × 15" 57:0 42	993 Pro Beat. 890-00 990 Deluxe Classic. 630-00 989 Big Beat. 735-00 989 Big Beat. 735-00 985 Rock-Duo. 935-00 964 Super Big Beat 750-00 975 Triple Tom 855-00 1001 Rock Machine 760-00 2007 Overdrive. 930-00 2007 Overdrive. 930-00 2007 Overdrive. 930-00 2007 Overdrive. 930-00 3 Snare Drums: 152-00 410 Supersensitive 5" 152-00 411 Supersensitive 5" 152-00 400 Supraphonic 5". 100-00 400 Supraphonic 6\frac{1}{2}". 103-00 400 Supraphonic 6\frac{1}{2}". 103-00 405 Piccolo 3" 92-00 Stands and Fittings: 201 Speed King Pedal 205 Ghost Pedal. 130 Tubular Hi-Hat stand. 43-15 1374 Tubular syd stnd 1405 Tubular cymbal stand. 28-95 1410 Tubular boom stand. 40-80 1020 Tubular throne. Orchestral Drums: 942-12 x 8 Tom Tom Super Classic. 69-39 944 13 x 9 Tom Tom Super Classic. 69-39	2391 Mambo Cowbell 2387 Agogo Bells 133 Cowbell holder 1323 Bell Block hlder 2384 Vibraslap Large 2384 Vibraslap Large 2380 Afuche Small 2381 Afuche Medium 2382 Afuche Large 2392 Metal Tubo 2393 Metal Tubo 2396 Claves Small 2396 Claves Small 2368 Claves Medium 2364 Maracas Small 2365 Maracas Med 2366 Guiro Medium 2366 Guiro Bmall 2367 Guiro Medium 2366 Wire Brushes 190 Wire Brushes 191 Wire Brushes 191 Wire Brushes 191 Wire Brushes 195 Wire Brushes 195 Wire Brushes 195 Wire Brushes 195 Wire Brushes 196 Wire Brushes 196 Wire Brushes 197 Wire Brushes 198 Wire Brushes 198 Wire Brushes 199 Wire Brushes 191 Wire Brushes 191 Wire Brushes 195 Wire Brushes 196 Wire Brushes 196 Wire Brushes 197 Wire Brushes 198 Wire Brushes 198 Wire Brushes 198 Wire Brushes 198 Wire Brushes 199 Wire Brushes 191 Wire Brushes 192 Wire Brushes 193 Wire Brushes 194 Wire Brushes 195 Wire Brushes 196 Wire Brushes 197 Wire Brushes 198 Wire Brushes 198 Wire Brushes 198 Wire Brushes 199 Wire Brushes 191 Wire Brushes 192 Wire Brushes 193 Wire Brushes 194 Wire Brushes 195 Wire Brushes 196 Wire Brushes 197 Wire Brushes 198 Wire Brushes 198 Wire Brushes 199 Wire Brushes 199 Wire Brushes 190 Wire Brushes	17-95 22-85 3-50 4-30 14-70 18-50 19-00 21-75 26-65 2-80 3-75 4-35 5-45 5-45 5-45 2-50 2-50 2-50 2-50 2-50 2-75 7-05	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr. 5245/2 15" pr. 5246/2 16" pr. Brilliant 4930 8" 5333 10" 5334 13" 5336 15" 5337 16" 5339 18" 5339 18" 5339 18" 5340 20" 5341 22" ROSETTI EMI HAMMA 770 Kit (wood-shell side drum) 660 Kit (wood-shell side drum) 671 14 x 10 tom tom. 661 16 x 16 floor tom tom. 661 16 x 16 floor tom tom. 664 14 x 5½ snare	68-63 74-49 79-18 22-45 25-40 34-20 40-15 48-05 46-05 54-80 63-60 78-45 5 336-50 269-95 269-95 35-75 37-75 52-25
6302 SF 22" Bs. 742.00 2003, 4 x 5 \frac{3}{2}" 76.37 444, 4 x 9" 45.37 444, 4 x 9" 448, 8 x 16" 62.22 448 448, 8 x 16" 6304 Flow 75 8 acchee 74.58 75 75 8 acchee 74.58 75 75 75 8 acchee 74.58	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 287 22" 20-25 17-30 287 22" 20-25 17-30 287 22" 20-25 17-30 287 22" 20-25 17-30 20-25 17-30 20-25 17-30 20-25 17-30 20-25 17-30	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 0 127, 18 × 15" 65:5 130, 20 × 17" 73:6 125, 24 × 17" 85:7 125, 22 × 17" 74:9 150, 20" 61:9 152, 22" 64:7 154, 24" 67:6 170, 20 × 15" 48:6 171, 20 × 17" 48:9 172, 22 × 15" 52:2 163, 22 × 17" 56:7 173, 22 × 17" 52:8 175, 24 × 15" 57:0 42	993 Pro Beat. 890-00 990 Deluxe Classic. 630-00 989 Big Beat. 735-00 989 Big Beat. 735-00 989 Rock-Duo. 935-00 964 Super Big Beat 750-00 975 Triple Tom 855-00 1001 Rock Machine 760-00 2007 Overdrive. 930-00 2007 Overdrive. 930-00 2007 Overdrive. 930-00 3 Snare Drums: 152-00 411 Supersensitive 5" 152-00 412 Supersensitive 5" 152-00 401 Supersensitive 5" 152-00 402 Supraphonic 5". 100-00 402 Supraphonic 6\frac{1}{2}" 103-00 403 Power Factory 103-00 505 Gloss Pedal. 75-00 505 Gloss Pedal. 50-95 1130 Tubular 1-Hat stand. 43-15 1374 Tubular s/d stmd 1405 Tubular cymbal stand. 28-95 1410 Tubular boom stand. 1020 Tubular throne. 107-00 Orchestral Drums: 942 12 x 8 Tom Tom Super Classic. 6-39 944 13 x 9 Tom Tom Super Classic. 6-39 944 13 x 9 Tom Tom Super Classic. 70-91	2391 Mambo Cowbell 2387 Agogo Bells 133 Cowbell holder 1323 Bell Block hider 2384 Vibraslap Large 2380 Afuche Small 2381 Afuche Medium 2382 Afuche Large 2392 Metal Tubo 2393 Metal Tubo 2393 Metal Tubo 2396 Claves Small 2368 Claves Medium 2364 Maracas Med 2365 Maracas Med 2366 Guiro Small 2366 Guiro Enushes 190 Wire Brushes 191 Wire Brushes 195 Wire Brushes 195 Wire Brushes 195 Wire Brushes 195 Wire Brushes 196 Wire Brushes 196 Wire Brushes 191 Wire Brushes 196 Wire Brushes 191 Wire Brushes 192 Wire Brushes 193 Wire Brushes 194 Wire Brushes 195 Wire Brushes 195 Wire Brushes 195 Wire Brushes 196 Wire Brushes 197 Wire Brushes 198 Wire Brushes 199 Wire Brushes 199 Wire Brushes 190 Wire Brushes 190 Wire Brushes 190 Wire Brushes 191 Wire Brushes 191 Wire Brushes 191 Wire Brushes 192 Wire Brushes 193 Wire Brushes 194 Wire Brushes 195 Wire Brushes 196 Wire Brushes 198 Wire Brushes 199 Wire Brushes 190 Wire Brushes 190 Wire Brushes 190 Wire Brushes 191 Wire B	17-95 22-85 3-50 4-30 14-70 18-50 19-00 21-75 26-65 2-80 3-75 4-35 4-35 6-50 7-60 8-20 2-50 2-50 2-90 2-35 2-75 7-05	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr. 5245/2 15" pr. 5246/2 16" pr. Brilliant 4930 8" 5333 10" 5334 13" 5336 15" 5337 16" 5338 17" 5339 18" 5340 20" 5341 22" ROSETTI EMI HAMMA 770 Kit. (wood-shell side drum) 060 Kit. (wood-shell side drum) Drums and Accessories 661 22" bass drum 662 13 x 9 tom tom. 663 16 x 16 floor tom tom. 664 14 x 5½ snare 676 14 x 5½ wood-shell snare	68-63 74-49 79.18 22-45 25-40 34-20 40-15 43-05 46-00 49-00 63-60 78-45 336-50 336-50 336-50 3269-95 269-95 337-75 337-75 337-75 48-25
\$\frac{3302\sqrt{SNP 22" Bs.}{3006\sqrt{4\sqrt{12"}}}\$\frac{85.70}{2006\sqrt{4\sqrt{14\sqrt{12"}}}}\$\frac{48.}{85.70}\$\frac{48.}{101.}\$\frac{69.51}{69.51}\$\frac{438.}{1333.}\$\frac{133.}{13.}\$\frac{134.}{13.}\$\frac{134.}{13.}\$\frac{134.}{13.}\$\frac{134.}{13.}\$\frac{134.}{13.}\$\frac{134.}{13.}\$\frac{134.}{13.}\$\frac{133.}{13.}\$\frac{134.}{13.}\$\f	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 281 22" 20-25 HORNBY-SKEWES HOSHINO HSD500 325-00 HSD5001 425-00 HM1000 160-00 HCT8 275-00 HM300 151-50 HK600M 44-00 KNELLER POWER DRIVE (EX VAT) Stool 19-11 Cymbal stand 16-43 Boom cymbal stand 22-23 Snare drum stand 19-11 Hi-hat pedal 26-04 Double bass drum pedal 46-50 NORLIN PEARL DRUM OUTFITS 6300/FFW 22" Bs. 873-00 6300/SFW 22" Bs. 952-00 6301/FFW 22" Bs. 952-00 6301/FFW 24" Bs. 952-00 6302/FFW 24" Bs. 984-00 6302/FFW 24" Bs. 984-00 6302/FFW 24" Bs. 623-00 6302/FFW 22" Bs. 678-00	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 0 127, 18 × 15" 65:5 130, 20 × 17" 73:6 125, 24 × 17" 85:7 125, 22 × 17" 74:9 150, 20" 61:9 152, 22" 64:7 154, 24" 67:6 170, 20 × 15" 48:6 170, 20 × 15" 48:6 171, 20 × 17" 48:9 172, 22 × 15" 52:2 163, 22 × 17" 56:7 173, 22 × 17" 56:7 173, 22 × 17" 57:0 42	993 Pro Beat. 890-00 990 Deluxe Classic. 630-00 989 Big Beat. 735-00 989 Big Beat. 735-00 985 Rock-Duo. 935-00 975 Triple Tom 855-00 1001 Rock Machine 760-00 2007 Overdrive. 930-00 2003 Power Factory. 1070-00 3 Snare Drums: 910-00 410 Supersensitive 5" 152-00 411 Supersensitive 5" 152-00 410 Supersensitive 5" 156-00 400 Supraphonic 5". 100-00 400 Supraphonic 6½". 103-00 404 Acrolite. 75-00 405 Piccolo 3" 92-00 Stands and Fittings: 201 Speed King Pedal 50-95 1130 Tubular Hi-Hat stand. 43-15 1374 Tubular s/d stnd 32-90 1410 Tubular boom stand. 40-80 1020 Tubular throne. 31-35 Orchestral Drums: 942 12 x 8 Tom Tom Super Classic. 6-39 944 13 x 9 Tom Tom Super Classic. 6-39 947 15 x 14 Tom Tom Super Classic. 75-45	2391 Mambo Cowbell 2387 Agogo Bells 133 Cowbell holder 132 Bell Block hlder 2383 Vibraslap Small 2384 Vibraslap Large 2380 Afuche Small 2381 Afuche Medium 2382 Afuche Large 2391 Metal Tubo Small 2393 Metal Tubo Large 2361 Claves Small 2364 Maracas Small 2365 Maracas Med 2366 Guire Small 2367 Guiro Medium Sticks Brushes 190 A Wire Brushes 191 Wire Brushes 191 Wire Brushes 191 Wire Brushes 195 Wire Brushes 195 Wire Brushes 195 Wire Brushes 196 Wire Brushes 196 Wire Brushes 197 Wire Brushes 196 Wire Brushes 196 Wire Brushes 197 Wire Brushes 196 Wire Brushes 197 Wire Brushes 196 Wire Brushes 197 Wire Brushes 198 Wire Brushes 199 Wire Brushes 191 Wire Brushes 191 Wire Brushes 191 Wire Brushes 194 Wire Brushes 195 Wire Brushes 196 Wire Brushes 196 Wire Brushes 197 Wire Brushes 198 Wire Brushes 198 Wire Brushes 199 Wire Brushes 191 Wire Brushes 191 Wire Brushes 191 Wire Brushes 191 Wire Brushes 192 Wire Brushes 194 Wire Brushes 195 Wire Brushes 196 Wire Brushes 197 Wire Brushes 198 Wire Brushes 199 Wire Brushes 190 Wire Brushes 191 Wire Brushes 191 Wire Brushes 191 Wire Brushes 192 Wire Brushes 193 Wire Brushes 194 Wire Brushes 195 Wire Brushes 196 Wire Brushes 197 Wire Brushes 198 Wire Brushes 199 Wire Brushes 190 Wire Brushes 190 Wire Brushes 190 Wire Brushes 191 Wire Brushes 191 Wire Brushes 191 Wire Brushes 192 Wire Brushes 193 Wire Brushes 194 Wire Brushes 195 Wire Brushes 196 Wire Brushes 197 Wire Brushes 198 Wire Brushes 198 Wire Brushes 198 Wire Brushes 199 Wire Brushes 190 Wire Brushes	17-95 22-85 3-50 4-30 14-70 18-50 19-00 21-75 26-65 2-80 3-75 4-35 4-35 4-35 6-50 7-60 8-20 2-50 2-50 2-90 2-35 2-75 7-05 10-95	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr. 5245/2 15" pr. 5246/2 16" pr. Brilliant 4930 8" 5333 10" 5334 13" 5336 15" 5337 16" 5337 16" 5339 18" 5340 20" 5341 22" ROSETTI EMI HAMMA 770 Kit (wood-shell side drum) 660 Kit. W770 Kit (wood-shell side drum) 660 Kit. W770 Kit (wood-shell side drum) 670 24" bass drum 671 14 x 10 tom tom. 671 14 x 5½ snare 676 14 x 5½ wood-shell snare	68-63 74-49 79-18 22-45 25-40 34-20 40-15 48-05 48-05 48-05 54-80 63-60 78-45 5 336-50 336-50 269-95 269-95 269-95 371-50 377-75 37-75 37-75 48-25 49-75
6304/SFW 25" Bs. 693-00 2020. 77-61 333. 33-11 95-55 74 Slapstick 6-30 2020. 14 Lat 14\frac{1}{2}". 71-58 6304/SF 24" Bs. 759-00 2011, 14 x 14\frac{1}{2}". 71-58 6304/SF 24" Bs. 759-00 202 w 20" BD. 355-48 1441, 12 x 8". 20-63 12/FFW 24" Bs. 557-00 B202 w 22" BD. 358-73 1442, 12 x 8". 20-63 12/FFW 24" Bs. 557-00 B202 w 22" BD. 358-73 1442, 12 x 8". 20-63 12/FFW 24" Bs. 546-00 D202 w 24" BD. 369-52 1445, 16 x 16". 33-51 6312/FF 22" Bs. 633-00 201. 343-15 6312/FF 22" Bs. 633-00 C201. 335-05 6312/FF 22" Bs. 603-00 C201. 335-05 6312	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 20-25 17-30 18-30	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 0 127, 18 × 15" 65:5 130, 20 × 17" 73:6 125, 24 × 17" 85:7 132, 22 × 17" 74:9 150, 20" 61:9 152, 22" 64:7 154, 24" 67:6 170, 20 × 15" 48:6 170, 20 × 15" 48:9 171, 20 × 17" 54:5 171, 20 × 17" 56:7 172, 22 × 15" 52:2 163, 22 × 17" 52:8 173, 22 × 17" 52:8 173, 22 × 17" 52:8 173, 22 × 17" 52:8 173, 22 × 17" 52:8 173, 22 × 17" 52:8 173, 22 × 17" 52:8 173, 22 × 17" 52:8 173, 22 × 17" 52:8 173, 22 × 17" 52:8 175, 24 × 15" 57:0 128, 28 × 18 × 18 × 18 × 18 × 18 × 18 × 18 ×	993 Pro Beat. 890-00 990 Deluxe Classic 630-00 998 Big Beat 735-00 985 Rock-Duo 935-00 985 Rock-Duo 935-00 985 Rock-Duo 935-00 975 Triple Tom 855-00 1001 Rock Machine 760-00 2003 Power Factory 1070-00 3 Snare Drums: 152-00 411 Supersensitive 5" 152-00 411 Supersensitive 5" 152-00 401 Supersensitive 5" 100-00 00 Standa And Fittings: 156-00 00 Stands and Fittings: 201 Speed King Pedal 205 Ghost Pedal 205 Ghost Pedal 205 Ghost Pedal 32-00 1130 Tubular Hi-Hat stand 1405 Tubular Sand 29-01 1410 Tubular Hi-Hat stand 1405 Tubular Sand 29-01 1410 Tubular Hi-Hat stand 1405 Tubular Sand 29-01 1410 Tubular Graph 1405 Tubular Graph 159-01 1410	2391 Mambo Cowbell 2387 Agogo Bells	17-95 22-85 3-50 4-30 14-70 18-50 19-00 21-75 26-65 2-80 3-75 4-35 4-35 5-45 6-50 7-60 8-20 2-50 2-50 2-90 2-35 2-75 7-05 10-95 12-55 14-10 8-10	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr. 5245/2 15" pr. 5246/2 16" pr. Brilliant 4930 8" 5333 10" 5334 13" 5336 15" 5337 16" 5338 17" 5339 18" 5340 20" 5341 22" ROSETTI EMI HAMMA 770 Kit. (wood-shell side drum) Drums and Accessories 661 22" bass drum 662 Kit (wood-shell side drum) Drums and Accessories 661 22" bass drum 662 13 x 9 tom tom 663 16 x 16 floor tom tom 664 14 x 5½ wood-shell sinare 665 bass drum pedal 672 hi-hat ASBA	68-63 74-49 79-18 22-45 25-40 34-20 40-15 48-05 48-05 48-05 54-80 63-60 78-45 5 336-50 336-50 269-95 269-95 269-95 371-50 377-75 37-75 37-75 48-25 49-75
6304/SP 24" Bs. 759-00	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 287 22" 20-25 HORNBY-SKEWES 17-30 287 22" 20-25 HOSHINO S5500 325-00 425-0	6412 Wood Snare Drum, 5½ x 14"	126, 26 x 17" 89 0 127, 18 x 15" 65:5 130, 20 x 17" 73:6 125, 24 x 17" 85:7 132, 22 x 17" 74:9 150, 20" 61:9 152, 22" 64:7 154, 24" 67:6 170, 20 x 17" 54:5 171, 20 x 17" 54:5 171, 20 x 17" 54:5 171, 20 x 17" 56:7 172, 22 x 15" 52:2 163, 22 x 17" 56:7 173, 22 x 17" 56:7 173, 22 x 17" 57:0 142 84:8 144 93:6 66:1 12:8 13:8 14 x 6 96:3 532, 13 & 14 x 6 89:0 531, 14 x 14" 56:0 531, 14 x 14" 5	993 Pro Beat. 890-00 990 Deluxe Classic. 630-00 989 Big Beat. 735-00 984 Signer Big Beat. 750-00 975 Triple Tom 855-00 101 Rock Machine 760-00 2010 Power Factory 1070-00 2010 Power Factory 1070-00 3 Snare Drums: 9410 Supersensitive 5" 152-00 410 Supersensitive 5" 152-00 410 Supersensitive 5" 152-00 400 Supraphonic 5" 100-00 400 Supraphonic 6\frac{1}{2}" 103-00 404 Acrolite. 75-00 405 Piccolo 3" 92-00 Stands and Fittings: 201 Speed King Pedal 205 Ghost Pedal 103-00 205 Ghost Pedal 50-95 1130 Tubular Hi-Hat stand. 43-15 1374 Tubular syd stind 1405 Tubular cymbal stand. 43-15 1374 Tubular boom stand. 40-80 1020 Tubular throne. 00-80 1020 Tubular throne. 00-80 1020 Tubular throne. 00-80 1020 Tubular throne 50-39 944 13 x 9 Tom Tom Super Classic. 69-39 944 13 x 9 Tom Tom Super Classic. 70-91 947 15 x 14 Tom Tom Super Classic. 70-91 948 14 x 14 Floor Tom Tom Super Classic. 90-53 950 16 x 16 Floor Tom Tom Tom Super Tom Tom Tom Super Tom Tom Super Tom Tom Tom Super Tom Tom Super Tom Tom Tom Super Tom Tom Tom Super Tom Tom Tom Super Tom Tom Tom Super T	2391 Mambo Cowbell 2387 Agogo Bells 2388 Vibraslap Large 2389 Afuche Small 2381 Afuche Medium 2382 Afuche Large 2380 Afuche Small 2381 Afuche Large 2392 Metal Tubo Small 2393 Metal Tubo Large 2361 Claves Small 2368 Claves Medium 2364 Maracas Small 2365 Maracas Med 2366 Guiro Small 2367 Guiro Medium Sticks, Brushes, Miscellaneous 190 Wire Brushes 191 Wire Brushes 192 Wire Brushes 191 Wire Brushes 192 Wire Brushes 193 Wire Brushes 193 Wire Brushes 194 Wire Brushes 195 Wire Brushes 195 Wire Brushes 196 Wire Brushes 196 Wire Brushes 197 Wire Brushes 198 Wire Brushes 198 Wire Brushes 198 Wire Brushes 199 Wire Brushes 199 Wire Brushes 190 Wire Brush	17-95 22-85 3-50 4-30 14-70 18-50 21-75 26-65 2-80 3-75 4-35 4-35 6-50 7-60 8-20 2-50 2-50 2-90 2-35 2-75 7-05 10-95 12-55 14-10 8-10 20-77-45	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr	68-63 74-49 74-49 18 22-45 25-40 34-20 40-15 48-05 48-05 48-05 48-05 336-50 336-50 269-95 269-95 337-75 337-75 52-25 49-75 48-25 15-18
6304/SNP 24" Bs. 722.00 202 w 20" BD. 357-48 1441.12 x 8". 20.63 Tom Tom Super Classic	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 20-25 17-30 20-25 17-30 20-25 17-30 18-30	6412 Wood Snare Drum, 5½ x 14"	126, 26 x 17" 89 0 127, 18 x 15" 65.5 130, 20 x 17" 73.6 125, 24 x 17" 85.7 132, 22 x 17" 74.9 150, 20" 61.9 152, 22" 64.7 154, 24" 67.6 170, 20 x 15" 48.6 161, 20 x 17" 54.5 171, 20 x 17" 48.9 172, 22 x 15" 52.2 163, 22 x 17" 56.7 173, 22 x 17" 56.7 173, 22 x 17" 57.0 142 84.8 175, 24 x 15" 57.0 142 84.8 144 93.6 153, 13 & 14 x 6 89.0 531C 91.1 531C 98.4 532C 91.1 70m-Toms: 12 29.9 13 32.6 14 39.3 16 48.0 18 50.7 333 48.7 340 53.4 346 68.8 433, 13 x 9" 43.6 440, 14 x 10" 48.0 440, 14 x 10" 48.0 441, 14 x 9" 45.3 446 62.2 448, 18 x 16" 68.2 433, 13 x 8" 27.6 1333 33.8 33.3 33.8 27.6 1333 33.8 27.6 1333 33.8 27.6 1333 33.8 27.6 1333 33.8 27.6 1333 33.8 27.6 1333 33.8 27.6 1333 33.8 27.6 1333 33.8 27.6 1333 33.8	993 Pro Beat. 890-00 990 Deluxe Classic. 630-00 989 Big Beat. 735-00 984 Sizer Big Beat. 750-00 975 Triple Tom 855-00 1001 Rock Machine 760-00 2007 Overdrive. 930-00 2007 Overdrive. 930-00 2007 Overdrive. 930-00 2007 Overdrive. 930-00 2008 Sanare Drums: 150-00 402 Supraphonic 5". 100-00 402 Supraphonic 5". 100-00 402 Supraphonic 6\frac{1}{2}". 103-00 404 Acrolite. 75-00 405 Piccolo 3" 92-00 Stands and Fittings: 201 Speed King Pedal 35-00 205 Ghost Pedal. 50-95 1130 Tubular Jedan 32-90 1405 Tubular cymbal stand. 28-95 1410 Tubular boom stand. 1020 Tubular throne. 1020 Tubular throne. 1020 Tubular throne. 1020 Tubular throne Super Classic. 69-39 946 14 × 10 Tom Tom Super Classic. 70-91 947 15 × 14 Tom Tom Super Classic. 90-53 950 16 × 16 Floor Tom Tom Super Classic. 99-55 952 18 × 16 Floor 199-55	2391 Mambo Cowbell 2387 Agogo Bells	17-95 22-85 3-50 14-70 18-50 19-00 21-75 26-65 2-80 3-75 4-35 4-35 4-35 4-35 6-50 8-20 2-50 2-50 2-50 2-50 2-50 2-50 2-50 10-95 12-55 14-10 20-70 7-45 15-25	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr	68-63 74-49 77-18 22-45 25-40 34-20 40-15 48-05 48-05 48-05 54-80 63-60 78-45 5 336-50 336-50 269-95 269-95 269-95 337-75 37-75 52-25 49-75 48-25 15-18 19-15
6312/SFW 22" Bs. 643:00 Z01. 343:15 445, 16 x 16" 33:51 497 6 x 5 \ Melodic S12/SF 22" Bs. 63:00 Z01. 335:05 6312/SFP 22" Bs. 603:00 Z01. 335:05 6312/SFP 22" Bs. 643:00 B203. 446:14 Zyn: 489 10 x 6 \ Melodic Melodic S14/SFW 24" Bs. 642:00 B204. 510:45 510:45 2685 18" sizzle 15:24 Tom Tom. 40:75 bourine. 19:20 16 x 16 Tom Tom. 32:016 Tom Tom. 32:016 Tom Tom. 33:016 Tom Tom. 30:16	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 18-30 281 22" 20-25 18-30 1	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 0 127, 18 × 15" 65 · 5 130, 20 × 17" 73 · 6 125, 24 × 17" 85 · 7 125, 24 × 17" 85 · 7 125, 22 × 17" 74 · 9 150, 20" 61 · 9 152, 22" 64 · 7 151, 20 × 17" 48 · 6 170, 20 × 15" 48 · 6 171, 20 × 17" 48 · 9 171, 20 × 17" 54 · 5 171, 20 × 17" 54 · 5 171, 20 × 17" 55 · 7 173, 22 × 17" 52 · 8 175, 24 × 15" 57 · 0 142 84 · 8 144 93 · 6 66 112 · 8 175, 24 × 15" 75 171, 32 × 17" 75 181, 13 & 14 × 6 96 · 3 532, 13 & 14 × 6 89 · 0 531, 13 & 14 × 6 89 · 0 531, 13 & 14 × 6 89 · 0 181, 30 · 3 181, 30 · 3 181, 30 · 3 184, 31 32 · 6 184, 31 33 · 6 184, 33 33 · 6 333, 13 × 9" 43 · 44 435, 14 × 14" 56 · 88 · 68 · 88 · 64 436, 16 × 20" 68 · 88 · 88 · 78 · 7	993 Pro Beat. 890-00 990 Deluxe Classic 630-00 989 Big Beat 735-00 989 Big Beat 735-00 985 Rock-Duo 935-00 987 Striple Tom 855-00 1001 Rock Machine 760-00 2007 Overdrive 930-00 2003 Power Factory 1070-00 3 Snare Drums: 910-00 3 Snare Drums: 92-00 3 Snare Drums: 92-00 3 Snare Drums: 92-00 3 Snare Drums: 92-00 5 Snare Drums: 92-00 5 Snare Drums: 92-00 5 Snare Snar	2391 Mambo Cowbell bell. 2387 Agogo Bells. 133 Cowbell holder. 133 Cowbell holder. 1323 Bell Block hlder 2384 Vibraslap Large 2380 Afuche Small. 2381 Afuche Medium 2382 Afuche Large 2391 Metal Tubo Small. 2393 Metal Tubo Large 2393 Metal Tubo Large 2361 Claves Small. 2368 Claves Medium 2364 Maracas Small. 2365 Maracas Med. 2366 Guiro Medium Sticks. Brushes, Miscellaneous 190 Wire Brushes. 190 Wire Brushes. 191 Wire Brushes 192 Wire Brushes 193 Wire Brushes 194 Wire Brushes 195 Wire Brushes 195 Wire Brushes 195 Wire Brushes 196 Wire Brushes 196 Wire Brushes 197 Wire Brushes 197 Wire Brushes 198 Wire Brushes 1	17-95 22-85 3-50 4-30 14-70 18-50 19-00 21-75 2-65 2-80 3-75 4-35 4-35 4-35 4-35 4-35 4-35 4-35 4-3	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr. 5245/2 15" pr. 5246/2 16" pr. Brilliant 4930 8" 5333 10" 5334 13" 5336 15" 5337 16" 5337 16" 5339 18" 5339 18" 5340 20" 5341 22" ROSETTI EMI HAMMA 770 Kit (wood-shell side drum) 660 Kit. W770 Kit (wood-shell side drum) 660 Kit. W770 Kit (shell side drum) 660 12" bass drum 661 22" bass drum 661 24" bass drum 661 14 x 5½ shell side drum 662 13 x 9 tom tom 671 14 x 10 tom tom. 663 16 x 16 floor tom tom 664 16 x 5½ wood-shell snare 665 bass drum pedal 672 hi-hat ASBA Asba Metal 24 x 14 bass 20 x 14 bass 20 x 14 bass 20 x 14 bass 20 x 14 bass 14 x 9 Tom Tom	68-63 74-49 79-18 22-45 25-40 34-20 40-15 48-05 46-00 54-80 63-60 78-45 336-50 336-50 336-50 336-50 336-50 336-50 336-50 336-50 336-50 348-5 52-25 49-75 52-25 49-75 815-18 19-15
6312(SF 22" Bs. 671-00 B201. 344-40 1448, 18 x 16" 43-09 488 8 x 5\ Melodic 99 10" Tunable 20 x 14 bass. 6312/SNP 22" Bs. 643-00 B203. 435-40 Cymbals: Tom Tom. 30-16 Tambourine. 16-85 14 x 9 Tom Tom. 30-16	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 20-25 17-30 20-25 17-30 20-25 17-30 18-30	6412 Wood Snare Drum, $5\frac{1}{2} \times 14^{\prime\prime}$ 27-75 6413 Wood Snare Drum, $5\frac{1}{2} \times 14^{\prime\prime}$ 23-50 Accessories: 6420 Bs Drm Pedal 12-00 6422 Hi-Hat Stand 13-00 6423 Cym Floor Std. 7-25 6424 Snare Drm Std. 8-25 TOSCO CYMBALS 14" Hi-Hats 40-00 16" Crash Ride. 23-00 18" Medium Ride. 33-00 20" Medium Ride. 33-00 20" Medium Ride. 39-50 ORANGE Single drum kit To order Double drum kit To order Double drum kit To order 11	126, 26 × 17" 89 0 127, 18 × 15" 65 · 5 130, 20 × 17" 73 · 6 125, 24 × 17" 85 · 7 125, 24 × 17" 85 · 7 125, 22 × 17" 74 · 9 1150, 20" 61 · 9 1152, 22" 64 · 7 1150, 20" 48 · 6 1170, 20 × 15" 48 · 6 1171, 20 × 17" 48 · 9 1171, 20 × 17" 54 · 5 1171, 20 × 17" 54 · 5 1171, 20 × 17" 55 · 7 1173, 22 × 17" 52 · 8 1175, 24 × 15" 57 · 0 142 84 · 8 144 93 · 6 166 112 · 8 138 × 14 × 6 96 · 3 532, 13 × 14 × 6 89 · 0 531, 13 × 14 × 6 89 · 0 531, 13 × 14 × 6 89 · 0 14 39 · 3 15 45 · 3 16 48 · 0 18 50 · 7 33 34 · 7 340 53 · 44 341, 14 × 16" 68 · 8 · 4 343, 13 × 9" 43 · 4 444, 14 × 9" 45 · 3 446, 16 × 20" 68 · 8 · 4 440, 14 × 10" 48 · 0 441, 12 × 8" 39 · 9 · 9 · 9 · 1 144, 10" 48 · 10 446, 14 × 10" 48 · 10 446, 14 × 10" 48 · 10 446, 14 × 10" 48 · 10 446, 14 × 10" 48 · 10 446, 14 × 10" 48 · 10 446, 14 × 10" 48 · 10 446, 14 × 10" 48 · 10 446, 14 × 10" 48 · 10 446, 14 × 10" 48 · 10 446, 14 × 10" 48 · 10 447, 12 × 8" 39 · 9 · 10 444, 11 × 9" 45 · 3 3460 35 · 0 3461 347, 1441 39 · 7 4441 12 × 8" 39 · 7 4441 12 × 8" 39 · 7 4441 12 × 8" 39 · 7 4441 12 × 8" 39 · 7 4441 12 × 8" 39 · 7 4441 12 × 8" 39 · 7 4441 12 × 8" 39 · 7 4441 12 × 8" 39 · 7 4441 12 × 8" 39 · 7 4441 12 × 8" 39 · 7 4441 12 × 8" 39 · 7 4441 12 × 8" 39 · 7 4441 12 × 8" 39 · 7 4441 12 × 8" 39 · 7 3441 3441 39 · 3 3451 3461 3461 3461 3461 3461 3461 3461 3461 3461 3461 3461 3461 3471 34	993 Pro Beat. 890-00 990 Deluxe Classic 630-00 995 Big Beat 735-00 985 Rock-Duo 935-00 975 Triple Tom 855-00 1001 Rock Machine 760-00 2007 Overdrive 930-00 2003 Power Factory 1070-00 3 Snare Drums: 152-00 410 Supersensitive 5" 152-00 411 Supersensitive 6" 156-00 400 Supraphonic 5" 100-00 402 Supraphonic 6\frac{1}{2}" 103-00 402 Supraphonic 6\frac{1}{2}" 103-00 404 Acrolite 75-00 405 Piccolo 3" 92-00 Stands and Fittings: 201 Speed King Pedal 205 Ghost Pedal 5130 Tubular Hi-Hat stand 1405 Tubular Hi-Hat stand 1405 Tubular will 1405 Tubular will 1405 Tubular will 1405 Tubular will 1405 Tubular hi-Hat stand 1405 Tubular cymbal stand 1514 Tubular boom stand 40-80 1020 Tubular throne 31-35 Orchestral Drums: 942 12 x 8 Tom Tom Super Classic 69-39 944 13 x 9 Tom Tom Super Classic 75-45 948 14 x 14 Floor Tom Super Classic 99-55 952 18 x 16 Floor Tom Tom Super Classic 99-55 952 18 x 16 Floor Tom Tom Super Classic 99-55 952 18 x 16 Floor Tom Tom Super Classic 99-55 952 18 x 16 Floor Tom Tom Super Classic 99-55 952 18 x 16 Floor Tom Tom Super Classic 99-55 952 18 x 16 Floor Tom Tom Super Classic 99-55 952 18 x 16 Floor Tom Tom Super Classic 99-55	2391 Mambo Cowbell 2387 Agogo Bells	17-95 22-85 3-50 4-30 14-70 18-50 19-00 21-75 26-65 2-80 3-75 4-35 4-35 4-35 4-35 4-35 4-35 7-60 8-20 2-50 2-50 2-50 2-50 2-50 2-50 10-95 12-55 14-10 8-10 20-70 7-45 15-55 1-70	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr. 5245/2 15" pr. 5246/2 16" pr. Brilliant 4930 8" 5333 10" 5334 13" 5335 14" 5336 15" 5337 16" 5337 16" 5338 17" 5339 18" 5340 20" 5341 22". ROSETTI EMI HAMMA 770 Kit (wood-shell side drum) 660 Kit (wood-shell side drum) 660 Kit (wood-shell side drum) 670 Kit (wood-shell side drum) 661 22" bass drum 679 24" bass drum 679 24" bass drum 661 12x bass drum 661 14 x 5½ snare 676 14 x 5½ snare 675 14 x 5½ snare 676 14 x 5½ snare 677 14 x 10 tom tom 684 14 x 5½ snare 675 14 x 5½ snare 676 14 x 5½ snare 677 14 x 10 tom tom 685 16 x 10 tom tom 687 16 x 10 tom tom 688 18 x 10 tom tom 689 18 x 10 tom tom 690 18 x 10 tom tom	68-63 74-49 79-18 22-45 25-40 34-20 40-15 46-05 46-05 54-80 63-60 78-45 336-50 336-50 336-50 336-50 336-50 337-75 37-75 48-25 15-18 19-15
6312/SNP 22" Bs. 643:00 B203. 435:40 Cymbals: Tom Tom. 30:16 Tambourine. 16:85 14 x 9	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 20-25 17-30 20-25 17-30 20-25 17-30 18-30	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 0 127, 18 × 15" 65:5 130, 20 × 17" 73:6 152, 24 × 17" 85:7 125, 22 × 17" 74:9 1150, 20" 61:9 1154, 24" 67:6 1170, 20 × 15" 48:6 1170, 20 × 15" 48:6 1170, 20 × 17" 54:5 1171, 20 × 17" 54:5 1171, 20 × 17" 56:7 1172, 22 × 17" 56:7 1173, 22 × 17" 56:7 1173, 22 × 17" 57:0 142	993 Pro Beat. 890-00 990 Deluxe Classic 630-00 989 Big Beat 735-00 989 Big Beat 750-00 989 Big Beat 750-00 975 Triple Tom 855-00 975 Triple Tom 855-00 975 Triple Tom 855-00 975 Triple Tom 976-00 976 Triple Tom 976-00 977 Triple Tom 100 977 Triple	2391 Mambo Cowbell 2387 Agogo Bells 133 Cowbell holder 132 Bell Block hider 2383 Vibraslap Small 2384 Vibraslap Large 2380 Afuche Small 2381 Afuche Medium 2382 Afuche Large 2391 Metal Tubo 2393 Metal Tubo 2393 Metal Tubo 2394 Metal Tubo 2396 Claves Medium 2364 Maracas Small 2365 Claves Medium 2365 Maracas Med 2366 Guiro Small 2367 Guiro Medium 2366 Guire Small 2366 Waracas Med 2366 Waracas Med 2366 Waracas Med 2366 Ware Brushes 191 Wire Brushes 195 Wire Brushes 196 Wire Brushes 197 Wire Brushes 196 Wire Brushes 197 Wire Brushes 197 Wire Brushes 197 Wire Brushes 198 Wire Brushes 191 Wire Brushes 191 Wire Brushes 191 Wire Brushes 192 Wire Brushes 193 Wire Brushes 194 Wire Brushes 195 Wire Brushes 196 Wire Brushes 197 Wire Brushes 197 Wire Brushes 197 Wire Brushes 198 Wire Brushes 198 Wire Brushes 198 Wire Brushes 199 Wire Brushes 191 Wire Brushes 192 Wire Brushes 193 Wire Brushes 194 Wire Brushes 195 Wire Brushes 195 Wire Brushes 196 Wire Brushes 197 Wire Brushes 198 Wire Brus	17-95 22-85 3-50 14-70 18-50 19-00 21-75 26-65 2-80 3-75 4-35 4-35 4-35 4-35 4-35 4-35 7-60 8-20 2-50 2-50 2-50 2-50 2-50 2-50 2-50 2	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr. 5245/2 15" pr. 5246/2 16" pr. Brilliant 4930 8" 5333 10" 5334 13" 5335 14" 5336 15" 5337 16" 5337 16" 5338 17" 5339 18" 5340 20" 5341 22". ROSETTI EMI HAMMA 770 Kit (wood-shell side drum). 660 Kit. W770 Kit (wood-shell side drum). 660 Kit. W770 Kit (food-shell side drum). 660 Kit. 661 22" bass drum. 661 22" bass drum. 662 13 x 9 tom tom. 661 14 x 5½ snare. 661 14 x 5½ snare. 664 14 x 5½ snare. 665 bass drum pedal 675 14 x 10 tom tom. 664 14 x 5½ snare. 665 bass drum pedal 676 14 x 5½ snare. 677 14 x 10 tom tom. 681 16 x 10 m 10	68-63 74-49 79.18 22-45 25-40 34-20 49-05 46-00 49-00 49-00 49-00 78-45 336-50 336-50 336-50 336-50 337-75 37-75 48-25 15-18 19-15
6314/SFW 24" Bs 642:00 B204 510:45 268\$ 18" sizzle 15:24 Tam Tom 40:75 bourine 19:20 16 x 16 Tom Tom ,	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 281 23" 281 22" 281 22" 281 23" 281 23" 281 22" 281 23" 281 22" 281 23" 281 22" 281 23" 281 23" 281 22" 281 23" 281 23" 281 22" 281 23"	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 0 127, 18 × 15" 65.5 130, 20 × 17" 73.6 152, 24 × 17" 85.7 152, 24 × 17" 85.7 152, 22 × 17" 74.9 150, 20" 61.9 152, 22" 64.7 154, 24" 67.6 170, 20 × 15" 48.6 161, 20 × 17" 54.5 171, 20 × 17" 48.9 172, 22 × 15" 52.2 163, 22 × 17" 56.7 173, 22 × 17" 57.0 142 84.8 144 93.6 153, 24 × 15" 57.0 142 84.8 144 93.6 153, 21 × 17" 59.8 175, 24 × 15" 57.0 142 84.8 144 93.6 153, 21 × 17 59.8 176 70.8 18 70.8 19 70.8 19 70.8 10 70.8 11 70.8 11 70.8 12 70.8 13 70.8 14 70.8 15 70.8 16 70.8 17 70.8 18 70.8 19 70.8 19 70.8 10 70.8 11 70.8 12 70.8 13 70.8 14 70.8 15 70.8 16 70.8 17 70.8 18 70.8 19 70.8 19 70.8 10 70.8 10 70.8 10 70.8 11 70.8 11 70.8 12 70.8 13 70.8 14 70.8 15 70.8 15 70.8 16 70.8 17 70.8 18 70.8 19 70.8 19 70.8 10 70.8	993 Pro Beat. 890-00 990 Deluxe Classic 630-00 989 Big Beat 735-00 989 Big Beat 750-00 989 Big Beat 750-00 975 Triple Tom 855-00 975 Triple Tom 970-00 970 Tom Supersensitive 5" 100-00 970 Stands Drums: 1070-00 970 Stands and Fittings: 100-00 970 Stands and F	2391 Mambo Cowbell 2387 Agogo Bells 2387 Agogo Bells 2387 Agogo Bells 2313 Cowbell holder 2383 Vibraslap Small 2384 Vibraslap Large 2380 Afuche Small 2381 Afuche Medium 2382 Afuche Large 2380 Afuche Small 2392 Metal Tubo Small 2393 Metal Tubo Large 2361 Claves Medium 2364 Maracas Small 2365 Maracas Med 2366 Guiro Medium Sticks, Brushes, Miscellaneous 190 Wire Brushes 191 Wire Brushes 193 Wire Brushes 193 Wire Brushes 194 Wire Brushes 195 Wire Brushes 195 Wire Brushes 196 Wire Brushes 197 Wire Brushes 197 Wire Brushes 198 Wire B	17-95 22-85 3-50 4-30 14-70 18-50 21-75 26-65 2-80 3-75 4-35 4-35 4-35 4-35 6-50 7-60 8-20 2-50 2-50 2-90 2-35 2-75 7-05 10-95 12-55 14-10 8-10 20-70 4-70 15-65	Standard Hi-Hats 5243/2 13" pr. 5244/2 14" pr. 5245/2 15" pr. 5246/2 16" pr. Brilliant 4930 8" 5333 10" 5334 13" 5336 15" 5337 16" 5337 16" 5339 18" 5339 18" 5340 20" 5341 22" ROSETTI EMI HAMMA 770 Kit. W770 Kit (woodshell side drum) 660 Kit. W770 Kit (woodshell side drum) 660 Kit. W770 Kit (woodshell side drum) 660 Kit. W770 Kit (soodshell side drum) 670 14 X 10 tom tom. 671 14 X 10 tom tom. 671 14 X 10 tom tom. 671 14 X 5½ soodshell side drum) 672 13 X 9 tom tom. 673 16 X 16 floor tom tom. 674 14 X 5½ soodshell snare 675 16 X 15	68-63 74-49 79.18 22-45 25-40 34-20 40-15 43-05 46-00 49-00 63-60 78-45 5 336-50 269-95 269-95 269-95 15-18 19-15 POA
	2685 8" sizzle 15-75 280 20" 16-90 2695 20" sizzle 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 281 22" 20-25 17-30 20-25 17-30 20-25 17-30 20-25 17-30 18-50	6412 Wood Snare Drum, 5½ x 14"	126, 26 × 17" 89 0 127, 18 × 15" 65 · 5 130, 20 × 17" 73 · 6 152, 24 × 17" 85 · 7 125, 22 × 17" 74 · 9 150, 20" 61 · 9 152, 22" 64 · 7 154, 24" 67 · 6 170, 20 × 15" 48 · 6 171, 20 × 17" 48 · 9 171, 20 × 17" 54 · 5 171, 20 × 17" 54 · 5 171, 20 × 17" 55 · 7 173, 22 × 17" 56 · 7 173, 22 × 17" 52 · 8 175, 24 × 15" 57 · 0 142 84 · 8 144 93 · 6 66 112 · 8 7 imbales: 7 imb	993 Pro Beat. 890-00 990 Deluxe Classic. 630-00 989 Big Beat. 735-00 980 Big Beat. 750-00 975 Triple Tom. 855-00 101 Rock Machine 760-00 2010 Power Factory 1070-00 3 Index Personsitive 5" 152-00 102 Stance Drums: 156-00 940 Supraphonic 6½" 103-00 940 Acrolite. 75-00 940 Supraphonic 6½" 103-00 940 Supraphonic 6½" 103-00 940 Personsitive 5" 100-00 940 Supraphonic 6½" 103-00 940 Supraphonic	2391 Mambo Cowbell 2387 Agogo Bells 2313 Cowbell holder 2313 Cowbell holder 2323 Bell Block hider 2328 Vibraslap Large 2380 Afuche Small 2328 Vibraslap Large 2380 Afuche Small 2381 Afuche Medium 2382 Afuche Large 2392 Metal Tubo 2393 Metal Tubo 2393 Metal Tubo 2364 Maracas Small 2365 Maracas Med 2366 Guiro Medium 2366 Maracas Med 2366 Guiro Brushes 2366 Guiro Brushes 2366 Wire Brushes 2366 Wire Brushes 2366 Wire Brushes 2367 Wire Brushes 2367 Wire Brushes 2368 Wire Brushes 2368 Wire Brushes 2369 Wire Brushes 2360 Wire Brushes 2370 Wire Brushes 2380 Wire Brushes 2381 Wire Brushes 2381 Wire Brushes 2381 Wire Brushes 2382 Wire Brushes 2383 Wire Brushes 2384 Wire Brushes 2385 Wire Brushes 2386 Wire Srushes 23	17-95 22-85 3-50 4-30 14-70 18-50 19-00 21-75 26-65 2-80 3-75 4-35 4-35 4-35 4-35 4-35 4-35 4-35 4-3	Standard Hi-Hats \$243/2 13" pr. \$244/2 14" pr. \$245/2 15" pr. \$246/2 16" pr. Brilliant 4930 8" \$333 10" \$334 13" \$336 15" \$337 16" \$337 16" \$338 17" \$339 18" \$339 18" \$340 20" \$341 22" ROSETTI EMI HAMMA 770 Kit (wood-shell side drum) 660 Kit (wood-shell side drum) 660 Kit (wood-shell side drum) 670 24" bass drum 671 14 x 10 tom tom 671 14 x 10 tom tom 671 14 x 5½ share 672 14" 673 14" 674 14 x 5½ share 675 14 x 5½ wood-shell share 676 14 x 5½ wood-shell share 678 24" bass drum 679 14 x 10 tom tom 679 14 x 5½ wood-shell share 679 14 x 10 tom tom 671 14 x 10 tom tom 672 14 x 5½ share 673 14 x 10 tom tom 674 14 x 5½ share 675 14 x 5½ share 676 14 x 5½ share 677 14 x 10 tom tom 678 16 floor tom 679 14 x 10 tom tom	68-63 74-49 79.18 22-45 25-40 34-20 40-15 43-05 46-00 49-00 63-60 78-45 5 63-60 78-45 5 67-50 336-50 269-95 15-18 19-15

Snares 14 x 5 wood	8908 'Mars 8' Drm octt	8560 Concert Tom Tom w/hldr	6740 'Hi-Beat' Drm pedal	\$A7534 Floor Tom	7586 Snare Drm w/ tone cont
Metal bongos. 46.00	8520 Bs Drm w/spurs 88-00 8522 Bs Drm w/spurs 101-20 8524 Bs Drm w/spurs 108-90 8526 Bs Drm w/spurs 118-25 8534 Floor Tom Tom w/legs	8569 Concert Tom Tom Sett	28 & 58	\$A7512 Tom Tom w/ tone cont	6882 'Hi-Ace' Cymbal stnd
18"	tone cont	Snare Drm stnd 22:00	7520 Bs Drm w/spurs 70.40 7522 Bs Drm w/spurs 82.50 7524 Bs Drm w/spurs 57524 Bs Drm w/spurs 71.50 57524 Bs Drm w/spurs 82.50 70.7820 Bs Drm w/spurs 118.80 7534 Floor Tom Tom w/legs 7536 Floor Tom Tom w/legs 7536 Floor Tom Tom w/legs 7538 Floor Tom Tom w/legs 7538 Floor Tom Tom w/legs 63.25	7566 Concert Tom Tom w/hldr	6852 'Lonestar' Cym stnd
KEYBO					
BALDWIN Models: 124A	9932 Diamond 730A . 545:00 9921 Diamond 702 919:00 9916 Diamond 709 string unit	Match 7C. 65-00 Match 12C. 75-00 237 Console 470-00 237 Cw freedr. 615-00 244 Console. 730-00 244 Cyredr. 840-00 Ringo w rthm. 139-00 3049 R. 325-00 Melody WA. 375-00 Melody. 470-00 Symphony WA. 439-00 Talisman. 980-00 Talisman 5 825-00 240. 560-00 Crystal. 750-00 Crystal. 750-00 Crystal. 750-00		HAMMOND Dolphin 9622K 765-00 Dolphin De Luxe 9422K 957-00 Cougar 7122J. 1227-00 Phoenix 1122 1632-00 Aurora 8222. 2910-00	EKO Console Electronic Organs 3034 Domus 44(A) 599·00 3003R Coliseum w/o transposer 1600·00 3003TR Coliseum w. rthm & transposer 1695·00 3002 Majestic Auto CT 1550·00 3030DL Rimini d/l 385·00 3040 Emerald 1240·00 Add-On Electronic Keyboards 10.026W Logan String Melody 549·00 10.500W Logan
126	BRODR JORGENSEN ROLAND Rhythm Units: TR 33 Rhythm box 156-39 TR 330 R box w/amp 120-11 TR 55 178-22 TR 66 w/auto rhy 177-27 TR 77 278-67 Keyboards: SH 1000 Syn 521-79	Royal 1300-00 Snoopy piano 170-00 Broadway 444 1050-00 Cosmic 333 770-00 Mistral 655-00 Serenade 350-00 Fantasy 299-00 Symphony 530-00 610R. 445-00	### Table 19 Family 19 Fam	Monarch 16122 3882-00 Grandee 1122 4856-00 Regent 4172 4856-00 Concorde 2107 5828-00 X2 535-00 X5 1225-00 AIV64 218-00 SY 100 450-00 HOHNER Clavinet D6 495-00 Pianet T 345-85	String Orch
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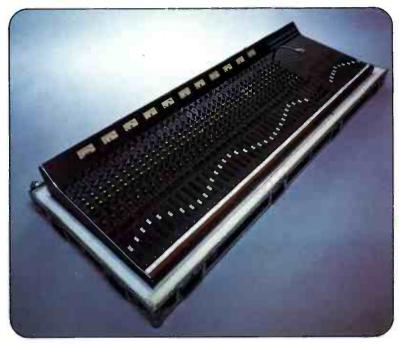
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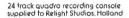








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