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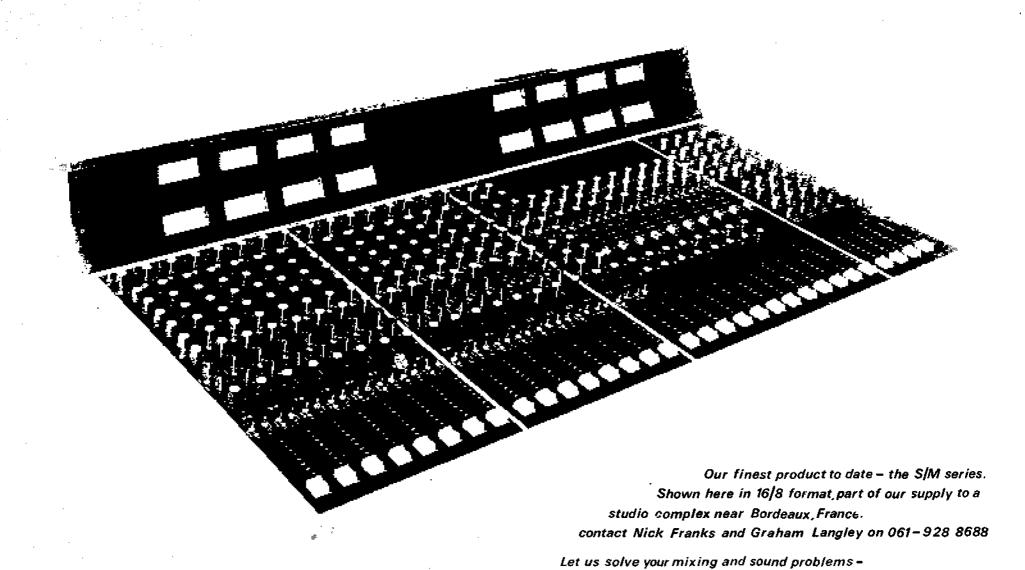
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# MUSICIAN AND RECORDING WORLD International Musician & Recording World

International Musician & Recording World 17 Tavistock Street, London WC2E 7PA Tel: 01-836-9061

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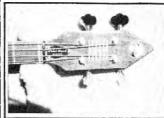
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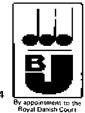
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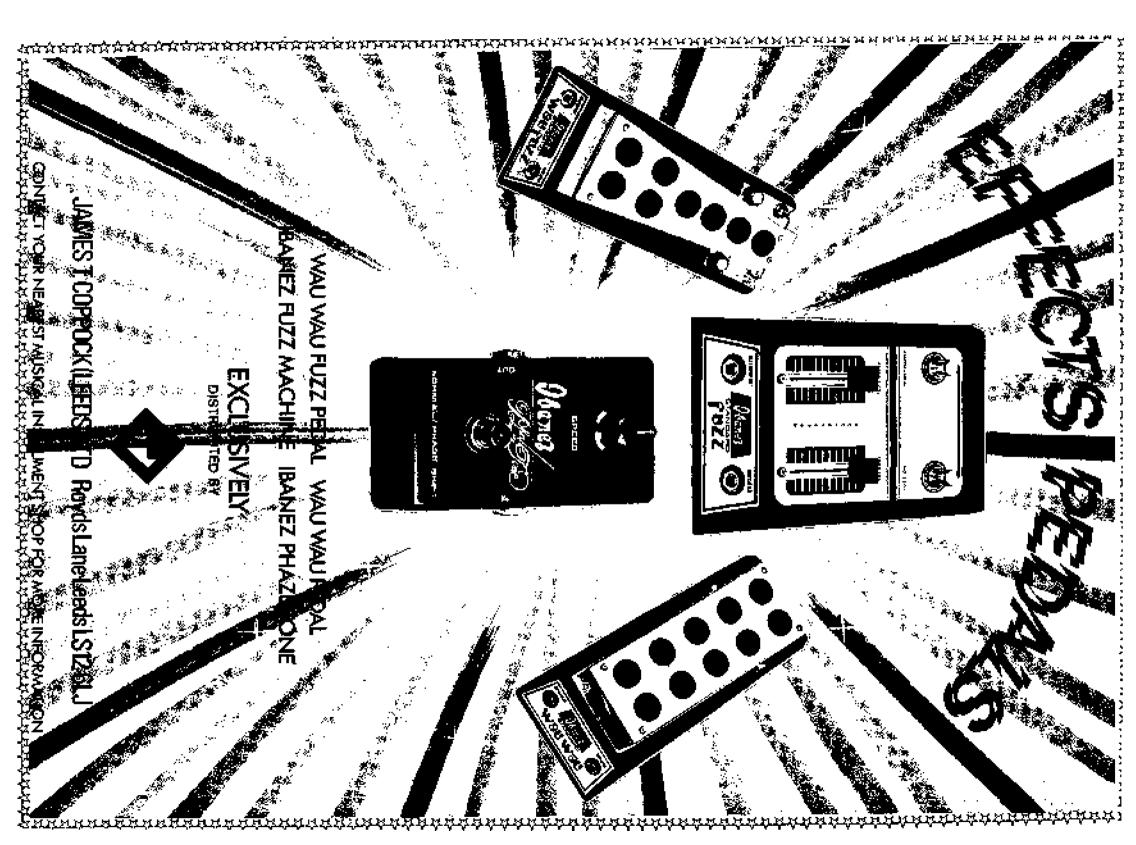
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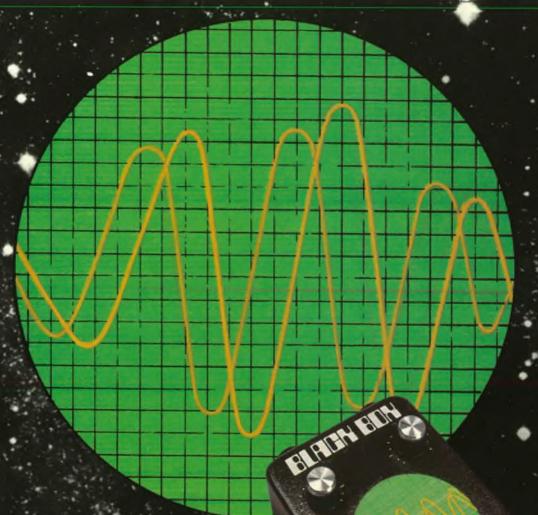
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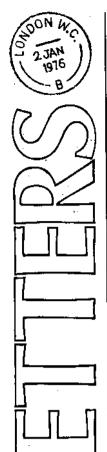
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edited by Eamonn Percival Our recent "London Pubs" gig guide (November, '75) and "National Gig Finder" (December, '75) features have prompted many readers to send in details of a variety of venues around the country. We publish these herewith and will continue to do so occasionally, but it must be understood that International Musician in no way recommends the venues or attests to their suitability. On the other hand, we ain't knocking them, either.

Dear Sir: I have taken this opportunity to inform you of gigs on the North East Club Circuit. All of these are working men's clubs and will only suit rock bands.

Ashington Central Club (Northumberland); bookings via Birchall Entertainments, Tel. Newcastle 21362; gigs three nights a week, three half-hour sets, £35. Ashington Lamp-Glass Cellar Club (N'land); bookings via Birchall; Saturdays, two half-hour and one 45 minute set. £25.

Whealey Hill W.M.C. (Near Durham, City); bookings via Birchall; Sundays, three half-hour sets, £35.

Hartlepool Lions Clubs (Cleveland); bookings via Birchall; Thursday and Sunday, sets up to band, £30.

Barmston Club, Washington (Co. Durham); bookings via Mel Unsworth Agency, Tel. South Shields 61434; Thursdays, three half-hour sets, £30. Clint Hand

Chester-Le-Street

Dear Sir: I thought I'd send you details of the pubs and other gigs around Oxford.

Corn Dolly, Cornmarket, Oxford; bookings via landlord (Colin), Oxford 44761 after 7.30; gigs nightly, and Saturday lunch time, 1½ to 2 hours £12-£25 depending on days.

The Boot, Stonesfield, Oxon.; bookings via landlady (Marion Leaves) 099 389 577 during opening hours; gigs Friday and Saturday nights, 1½ to 2 hours, £15. Easington Hotel, Bloxham Road, Banbury, Oxon.; bookings via landlord (Terry) 0295 3808; 2 hour sets, £25.

Julian Ladbury Iffley, Oxon.

Sir: Enclosed are some details on the Wokingham Rock Club.

Wokingham Rock Club, 31a Broad Street, Wokingham, Berks.; bookings via Jane Clemetson, Wokingham 782439, and George Rawlings, Eversley 733762, both after 5pm; Friday nights, one to two hours, rates vary from 2/3 to 1/4 of profit. Most of the bands are local but we hope to expand our horizons. While the majority of bands are semi-pro, they range from amateurs doing their first. and occasionally last, gig to bands on the brink of turning professional. I must add that the promoters don't take any profits, but bank them for later use in promoting larger concerts with "Name" groups.

Jane Clemetson Wokingham Sir: May I offer my congratulations on what must be the most worthwhile and practical feature ever run by a rock magazine, namely your "National Gig Finder". I am the bass player in a Brighton band called Krakatoa. We play four regular venues in the Brighton area, interspersed with gigs all over the rest of the country.

While our national bookings are usually obtained through agencies, we manage our own co-operative and run the local gigs ourselves. These are run on a purely percentage basis (90% of the gross door takings) and average between £20 and £50, and more on exceptional nights. We can organise and promote a run of one to four gigs (Wednesday, Friday, Saturday and Sunday, all at different venues) in exchange for a similar arrangement in another part of the country. The gigs are run on a very professional level thoroughly organised, and we would obviously expect the same standard from any band who respond to this offer.

I would be grateful if any interested bands would send full details of themselves and equipment, together with any blurb and photos, at the address below. Dave Poxon

Flat 2, 26 Vernon Terrace, Brighton, Sussex.

Sir: I don't suppose anybody can help, it is not a technical or instrumental question, but a record question. I would not have bothered you, but I don't know where to get the information I require. On a certain electricity commercial, there is an acoustic guitar track playing called "Blue Roots" (the title was given to me by the ITV). Can you tell me the artist and album it is taken from? The music publishers are called Inter-Art Music if that is any help. I don't know their address I'm afraid. G. Fletcher

"Blue Roots" is written and performed by Pete Phillips, and published by Inter-Art Music Publishers, 10-16 Rathbone Street, London W1P 2BJ. Unfortunately, it has not been recorded for commercial release.

Sir: Congratulations on producing your finest issue yet (October) and a special thanks to Stephen Delft for his brilliant guitar check on the Yamaha SG175. play lead guitar on a one-off guitar I built myself. It started as a good Avon Les Paul copy. I fitted Schaller machine heads and made my own humbucking pick-ups which use metallic magnets and the coils read 10 Kc each giving a very high output. The pick-up mountings are damped with silicon (sic) rubber to prevent handling noises. An ivory nut was fitted, the frets stoned and surprisingly I found the original bridge of better quality than on most American models. It gives a nice feeling playing a box that you had some say in building, and it also saved me around £120 which can't be bad.

R. Paris Stirlingshire Sir: In your November issue, you mentioned an import album called Teach Yourself Rock Guitar by Charlie Daniels. Unfortunately, I have not been able to obtain the album in my area. Could you please give me the address so that I can ask for details.

P.S. Keep up the good work.

John Gallagher

Gateshead

These albums are now being distributed by CBS Records and will soon be available at most retail outlets. Any reader experiencing difficulties obtaining the album should write to Stallion Records, 87 Brewer Street, London W1 enclosing a cheque or postal order for £2.99 + 30p post & packing.

Sir: I wonder if you can help me. I have a Binson Echorec Baby echo unit and am hoping someone somewhere has a few spares and information on these excellent units. I hope you can help me.

Mick Betts

Norfolk

All Binson spares are available from ESE (Binson Sales) Ltd., 2 Upper Fant Road, Maidstone, Kent.

Sir: I have an Antoria Les Paul Custom copy and a Mighty Atom 25 watt amp. I am very interested in music by Status Quo and Free and the fantastic sound they get out of their electric guitars. The sound is so electric and all I can get out of my guitar is the acoustic sound. I have a wah-wah and fuzz combo and a phazer but I still cannot get the required sound, so I am writing to you to ask how I can get the required effect.

Richard Sewell

London E11

I imagine the "required effect" you mean is the dirty, sustain sound common to both these bands, and I'm surprised you can't get it from the equipment you mention. The sound is basically a mixture of distortion and high volume, and by distortion I mean the effect produced by overdriving the pre-amp stage as opposed to fuzz-box distortion which Is quite different. By turning the volume controls on your guitar up full and using a fair amount of volume on your amp, you should be able to obtain something similar. Of course, technique does come into it as welll, and this comes with practice and experience.

Sir: Re: Guitar Check— your December 1975 Issue.

You show the Zenta model HES 5000 at a retail price of £34. This is the price excluding V.A.T.

The recommended price on the shop floor, including V.A.T., is £42.50. Perhaps you could kindly publish this letter in your January issue to prevent any misunderstanding. Thank You.

Yours sincerely, Rex Fleetwood John Hornby Skewes & Co. Ltd. Touche. All the prices given for Instruments and equipment tested in these pages are exclusive of V.A.T.

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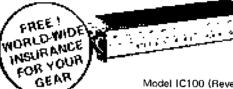
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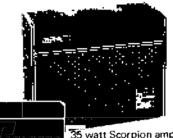


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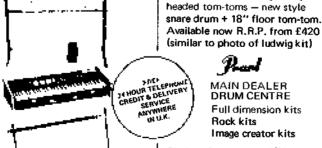
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# **GREG LAKE**

The massive ELP tour machine is about to start rolling again. By the time the band play their first date there will have been only silence from the trio for two years, a period in which music has moved on and into new areas.

At their peak, ELP were perhaps the most successful techno-rock band to emerge from the ashes of the flower-child revolution of 1967. The three offered excitement on every level, musical, visual and technical and if critics complained about a certain lack of feeling, or soul, in them, the punters didn't seem to mind too much. America quickly followed Britain's acceptance of the band in 1970 and after that hurdle the world submitted. Japan, Australasia and most of the non-Communist bloc fell under the band's spell and the golden period of 1970-1973 brought Emerson, Lake and Palmer immense wealth and power.

The seeds of ELP power were sown from 1966 onwards when Emerson first started attacking his Hammond organ. Until that time, he'd been an accomplished but otherwise unnoticed organist playing in a variety of small bands, but his treatment of the Hammond earned him considerable attention.

One London organ showroom refused to service the battered instrument on the grounds that Hammonds shouldn't be treated in that way. *Melody Maker* pictured Emerson under his Hammond on its front page and the movement had begun.

The Nice had begun as backing band to the American chick singer P.P. Arnold and their warm up set proved so popular that they were soon out on their own. Around this time, the acrobatics Emerson was later to become famous for began: to develop.

Emerson and the rest of the band — they really were "the rest", for after The Nice split several tried to form their own bands and failed — really succeeded on outrage. The outrage other organists felt at the way Emerson abused his instrument was totally eclisped by the outrage expressed by the musical establishment when in June 1968 the group were banned from performing at the Royal Albert Hall, after setting fire to the Stars and Stripes during the performance of their single "America", an adaption of Bernstein's theme from West Side Story. The band were also heavily criticised

for using pictures of John and Robert Kennedy and Martin Luther King to promote the single. Whether from a standpoint of musical outrage or political outrage, Leonard Bernstein reacted violently to the bunch of English scruffs pounding their way through one of his most memorable themes. He managed to ban the record's release on American soil.

He was, in fact, only fighting a rearguard action — Emerson was destined to swamp America so completely that it made the term overkill an understatement.

The re-arrangement of classic tunes started by The Nice was the start of a trend that still persists today. Other musicians who lack the skill of original composition can still find acceptance. From the Beatles onward, it became necessary for the really big bands to write their own material and Emerson and the band were the first group to break through this barrier and still retain "underground" acceptance.

Emerson's ability to adapt classic tunes was well illustrated in *Nice*, released in 1969. From this point onwards, the band were dominated by classic melodic themes and broke them up with long and (some would say) highly inticate improvisational sections which were necessary to make that music their own. In these passages, Emerson developed the superb showmanship that was to hoist him to world superstandom and focus sufficient attention for him to form ELP.

At about the same time that The Nice were capturing one element of Britain's fanatical underground. King Crimson had cornered another. Their music was frightningly tight and all original. They were perhaps more deserving of acclaim than The Nice, as leader Robert Fripp pushed the band into areas of musical cohesion previously uncharted. Bass player and vocalist Gree Lake responded well to the water tight arrangements, but didn't feel his own form of songwriting had sufficient room to develop. He was with the band for the superb In The Court Of The Crimson King which astonished musicians on both sides of the Atlantic and lent respect to all those involved with the project. Soon after, while recording In The Wake Of Poseidon, Lake left to form ELP with Emerson.

Lake was under the mistaken impression that his songwriting would find more room to expand. As it turned out, technology almost denied Lake expression in the early years of ELP.

Carl Palmer was drummer with a third "underground" band at the time. Atomic Rooster were smaller in stature than both The Nice and Crimson but organist Vincent Crane's antics attracted considerable attention to the group. Palmer and Crane formed the group following their split from the Crazy World of Arthur Brown and showmanship was naturally enough an integral part of their approach to live work.

Palmer had the easiest ride to ELP. He emerged from a comfortable family background to join The Thunderbirds at 15. Because he was basically a very fine drummer, he was always in reasonably well paid work until he joined ELP and this is probably a major factor contributing to his personality. You could call him self-confident.

Last year, this magazine was fortunate enough to talk at length with both Emerson and Palmer and learn something of their lifestyle off the road. Lake has proved elusive, particularly so recently. For that reason, we track some of his activities over the last year or so.

At the end of 1974, Lake moved into a new home near Windsor in Berkshire. Previously he'd been living in a flat in Cornwall Gardens, London, Emerson already had his country manor house - now unfortunately destroyed by fire - and it was natural that Lake should desire the seclusion and tranquility of a country retreat. The desire on the part of all three to remain in Britain despite an increasingly oppressive tax climate made such a purchase highly desireable and the fact that the move was quickly followed by the birth of Lake's first daughter Natasha, added to the domestic bliss, 1975 was a period of re-assesment for ELP. Everybody spent the year waiting for the band to split - at least, everybody whose livelihood depended on their continuance did.

After three years of gruefling world tours and album promotion, the time had come to rest, spend the money before it was removed by force and enjoy a little home life.

For Greg Lake this meant the acquisition of a Tudor Manor house set discreetly in 15 acres with "a fair number of bedrooms." Now the problem is to winkle him out to undertake recording, interviews and the usual promotional requirements.

The release of his Christmas single "I Believe In Father Christmas" six weeks ago marked the culmination of over three years of effort. The recording was carried out in a leisurely manner over the last 12 months in a closely planned way. Plans had been laid for the record to be rushed out for Christmas 1974, but it was felt that there was insufficient time for promotion.

continued on page 16

from page 15

and in the way that only immensely secure and confident companies can do, Manticore planned for a 1975 yule-time release. This time there was planty of time for promotion.

A three week romp in Israel was staged in November, the excuse being location work for a film that Greg made to promote the single. No one's really sure why Israel was chosen, but Manticore's Andrew Laine has travelled extensively in the country and likes it.

The result was a short film, shown all round the world of a chubby sun-tanned Lake - the team stopped off for five days beforehand to give Greg a sun tan ("he doesn't tan that easily") - behaving moodily in the very cave in which the Dead Sea Scrolls were found, somewhere in the middle of the Gaza Strip. When the idea of filming in this area was put to Greg, he was a little nervous about venturing into an area ripped apart by war but he was quickly reassured about his safety. Perhaps he considered the significance the setting would lend to trite lyrics, but whatever the reason, a small party descended on Israel. The mayor of Jerusalem was happy to be pictured receiving Grea - ELP are big in the Middle East - and all the local papers carried lengthy reports on the rock star's progress through the desert.

Manticore had great faith in the single. Perhaps that's a rather obvious statement (like saying Prince Charles believes in the Monarchy). but the excitement in the office in Curzon Street was intense. One Tuesday early in December, the disc chalked up 8,000 sales, the Wednesday they did 5,400. Britain fell to the seige. But America stuck out. The home of the Christmas single seems to have turned its back on seasonal success and despite all efforts, interest was "marginal." The amount of money spent recording the single - a 100 piece orchestra, massed choirs and so on, and the amount of money spent on promotion is unlikely to be recovered, even if the single is a success in several territories. The official statement on the investment is this: "We believe that 'I Believe In Father Christmas' is going to be a perennial hit, rather like 'White

Greg Lake doesn't really fit in with the other two in the band. He's a fairly accom-

# GREG LAKE

plished musician, of course, but he's more melodic than technical and he's always seemed to be the odd one out. The big question about ELP is why they haven't split up. With a handful of notable exceptions — The Rolling Stones, The Who — bands who have made it super big milk their market and piss off to indulge their own pretensions ad nauseum. ELP have not done this, despite persistent rumour and speculation. Perhaps one reason is that the band don't ever meet socially. When they do get together, it's for business and they're firmly of an opinion that business and pleasure don't mix,

Greg is now beginning the lengthy preparations for going back on the road. The Persian carpet he stands on - perhaps the most absurd of all the ELP props (even more absurd than the phony box of buttons and dials Keith has built on as an extension to his Moog) will have to be dragged out and hoovered. At one time, a press report suggested that the band retained a roadle whose only job was to vacuum and carry that carpet and there have been all sorts of reasons proposed as to why Greg covers all stages with such a fine piece of art. His management office say that he feels "comfortable" with it and that it gives him a link between different venues. They refute all suggestions, however, that it is a security blanket. (The carpet, which sold originally for £1,500, has climbed to a present value of £7,000.)

Greg's eye to business has been good enough to prevent most of rock's rip off artists attaching themselves to him and today he's expanding his business interests. He's currently allowing music string maker James How Industries to market a set of strings with his picture on the packet, following the company's efforts at making Greg the strings he needs.

He's been using Rotosound strings for a considerable period following flirtations with all sorts of strings for his many and varied types

of guitar. He's got the amazing habit of changing all strings, including those on his bass guitars, after every set whilst he's on tour. As might be imagined, he goes through a few sets of strings.

Mike, a former shool teacher, now tour manager for ELP: "Greg likes that really toppy sound you only get with new strings. That's why he changes them after every concert. He's got a high degree of treble response in his equipment to get the top end over and his bass doesn't really sound like a bass."

Greg's usual bass guitar on stage is a Gibson Ripper — he switched from his Fender bass some time ago and he now amplifies this guitar through an intricate set-up. Main power amplification is a Crown DC300 which is delivered through two JBL bins, two lense horns and two high frequency horns. The voicing for the flat response Crown is made by a small Mavis mixer with sophisticated EQ which is shaped for Greg to create his own original sound.

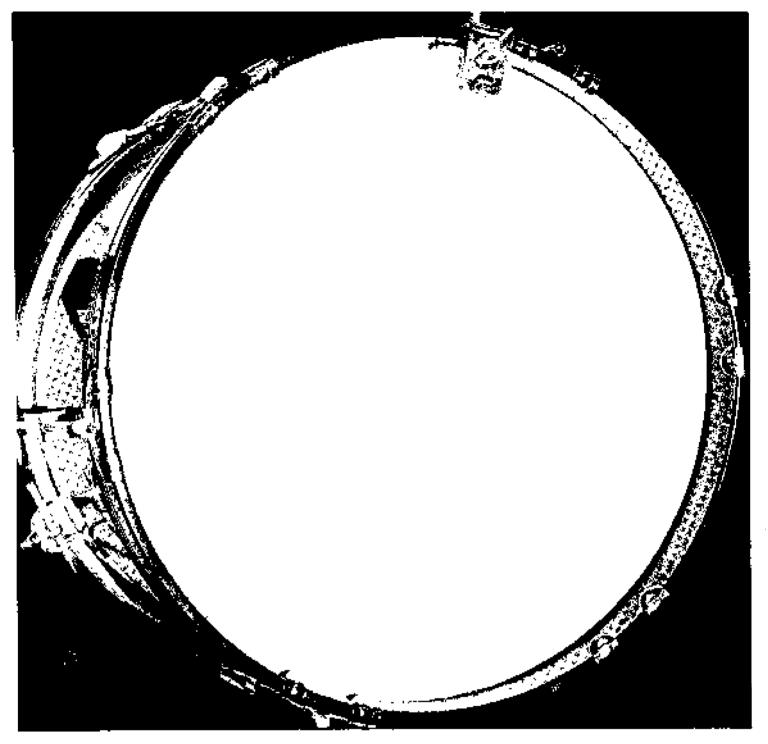
Excluding Mike, a road crew of five is busily engaged getting the ELP gear pile in working order. The massive amount of gear the band has collected is kept in the Manticore cinema in Fulham Broadway. This is the centre of road operations and a glance at the carefully kept lists of equipment tells that Keith's gear alone is worth £35,000, Carl's is surprisingly worth more (£40,000) and the total equipment investment is around £100,000. Attempts have been made to hire the gear during the time it's off the road, but they were abandoned after several unsuccessful attempts.

For guitar amplification, Greg has been using four Fender Concert combos that are around 20 years old, but recently he's been experimenting with the new Yamaha combos which his road crew are very pleased with.

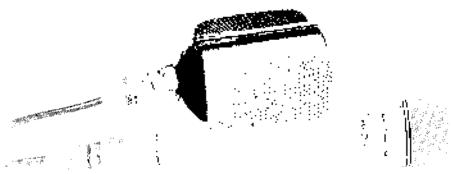
Greg's collection of guitars are well known. He's been a good customer of master guitar maker. Tony Zemaitis, he owns four or five made by Tony, and he's got the usual selection of Martins and Gibsons that are reckloned to be reasonable investments.

When the band return to live work in the summer — a major world tour is planned — they're stepping into the unknown. Are the ELP fans still there? Perhaps more important, is ELP still there?

# Congratulations FREE on your choice of ROTOSOUND strings



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AKG is a well known name in the professional field, our microphones are part of the British recording scene and are used by most of the major broadcasting organizations in Britain today.



Early in our career we discovered that, Professionals prefer performance to frills.

Just as you'll discover that the price of AKG performance is a great deal less than you think.

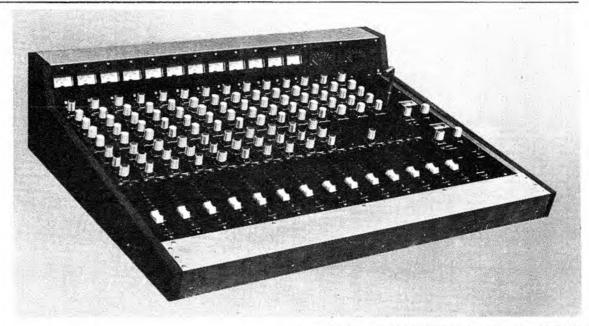


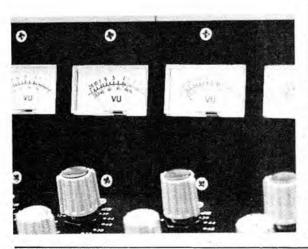
TEST ON: Hill B Series 16 into 2 Modular Mixen

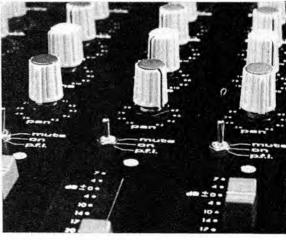
DATE December 1975

PRICE £780.00 Ex VAT

TEST BY Bruce Gibbs B.Sc.







# INTRODUCTION

Malcolm Hill Associates produce a range of mixers from very basic, on-stage mixers to sophisticated studio consoles.

The "B Series" are modular stage mixers of medium sophistication. The basic frame can be supplied to accommodate up to 40 channels and any number of modules, up to the maximum, can be added as required.

The mixer we tested was a 16 channel frame fitted with a full complement of modules. The facilities on each input module are a 200 ohm balanced line input via an XLR Connector, an input level control, four band equalisation, two pre-fade send controls (two foldback channels), one post-fade send (Echo) and a Volume fader.

There is also a channel "Mute" and a pre-fade listen switch, a VU meter and a balance control.

Although the mixer is called a 16 into 2, there are, in fact, five channels: two main outputs, two foldback outputs and an "Echo Send". The main and foldback O.P.s and the Echo Return are fitted with four band equalisation.

The remaining facilities are: a large VU meter on each of the two main outputs; a pan control on the echo return; an additional gain control on the main channels so that OVU can be set where required; stereo headphone monitor and talkback facility.

The unit is powered by an external power supply in order to minimise hum, and can be run from four PP9 batteries if required. The 16 input meters and two output meters are all illuminated and shed enough light to enable the mixer to be used in a completely darkened room. These lights do not operate when the mixer is being run from batteries.

# CONSTRUCTION

The main tray into which all the modules fit is a rigid frame of "L" section aluminium which is covered in aluminium sheet and fitted with two solid teak end cheeks.

All visible metal parts are anodised and this contrasts' against the silk screen printing and the vast array of Collet knobs gives the mixer a very smart appearance.

Each input module has a printed circuit board which carries all the components for that channel. excluding the input sockets and the meter. These are both part of the main frame. A module is fitted in the main frame from the top but they do not About ten soldered joints have to beplua in. made in order to fit or remove a module. soldered joints have a reliability and cost advantage compared with pluq-in connectors, but

some of the advantages of having a modular system are lost.

The electronic construction is good, simple and practical. Components are of good quality, workmanship is good, wiring is tidy and soldered joints are well made. Access for maintenance does not present any problem at all.

The quality of components which effect reliability most, such as the faders, have received special attention. However, some aspects of the design are very economical. For example, the only active devices in an input module are two SN72748 operational amplifiers.

The balance pot uses a log-antilog pot to give a constant output power for all positions of the control. This is only a small point but it is better than the normal system,

# **PERFORMANCE**

Parameter

RESULT

TEST CONDITION

**COMMENTS** 

Max. I.P. signal at max gain

-39.6dBm.(8 mV. r.m.s.) Tone control level, input gain max, OP gains low.

With input gain turned down. levels of up to 300 mV. can

be used.

Maximum OP

+23dBm. (11 V r.m.s.) At onset of clipping

channel faders at zero

More than enough

Maximum gain (at normal

59.1dB

I.P. gain max, faders set to normal working point O.P. gain at '+50' marks A further 14dB. of gain is available with faders at max giving 71.3dB, total.

working points) Residual Noise

-64,7dBm.

O.P. gain at 50. OP fader at 0dB.

Quite good but could be better.

Input Noise -121dBm.

Flat frequency response, I.P. open circuit (the noise increases when the

This is a wide band noise measurement; a slightly better figure would be obtained with

restricted band width.

input is loaded.)

Distortion 0.08%

Total harmonic distortion through

whole system

Very good

V.U. meters O.V.U. = 4dBm.

O.P. gain control at 50

Foldback Aux and Echo OP levels

The same as main O.P.s

Tone control ranges Bass 36.8dB. Mid 30.4dB. Treble 33,7dB.

Presence 38.5dB.

@ 60Hz. @ 300Hz. @ 2.5KHz. @ 12KHz.

Headphone OP

Stereo

Very good

Ample power available

# CONCLUSION

A thoroughly practical design which has all the normal facilities plus an extra foldback channel. equalisation on both foldbacks, short circuit protection on the outputs and quite a number of other small points in its favour. One advantage of a modular system is that one does not have to start off with the full system but can let the final system grow as finances become available.

The performance is good, although nothing stands out as either brilliant or poor.

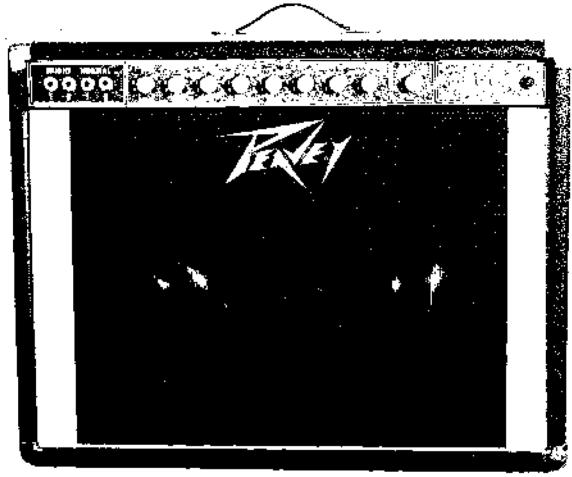
The manufacturers give a five year while-u-wait guarantee on parts and labour but they exclude meters, faders and pots which carry a one year guarantee. At a price of £820, including a flightcase, this mixer is significantly less expensive than the nearest competitor with equivalent facilities,

# TEST ON: Peavey Deuce II Combo Amplifien

DATE December 1975

PRICE £277.50 & VAT

TEST BY Bruce Gibbs B.Sc.



# INTRODUCTION

The Peavey Electronics Corporation of Mississippi produce a wide range of amplification equipment, which is very popular on their home market, owing to good performance at a moderate price. Even with the price disadvantage American manufacturers suffer when competing in the U.K., Peavey remain competetive.

The Deuce II combination amplifier has reverb, tremelo and an output rating of 110 Watts r.m.s. Hybrid electronics have been used to obtain a valve sound. Transistors are used for the pre-amplifier

and driver stages, but four 6L6 valves are in the parallel push-pull output stage.

There are two input channels, each with its own volume control and high and low sensitivity input sockets. One channel has treble boost, and is labelled "bright" and the other is "normal". The bass, middle, and treble controls are common to both channels, as are the reverb and tremelo effects.

A master volume control is provided. This permits the input to be overdriven and the volume to be controlled with the master to give fuzz.

# CONSTRUCTION

PERFORMANCE

An open back cabinet constructed in ¾ inch plywood and covered in an unusually good quality of vinyl has been used to house the Deuce II. The corners are protected with metal corner caps and a single handle is fitted in the centre of the top. The amplifier is too heavy to carry more than a few yards using this handle.

The control panel is a plastic moulding with all the markings standing proudly. This, together with the satin silver knobs, the metal Peavey sign and the metal centres of the speakers showing through the black speaker cloth, give the unit an attractive, manly appearance.

Two heavy duty 12 inch speakers are fitted in the lower part of the case. These successfully handle the full output power, when used with guitar, and give a nice clean sound. The electronics are constructed on a steel chassis which is mounted upside down in the top of the case, with the valves and two large transformers hanging from the underside. Inside, mounted on two printed circuit boards, are all the small components. The front of the chassis is the control panel and the back carries the off/on switch, a fuse, the output sockets into which the speakers are plugged, and a foot switch socket.

The quality of both workmanship and components is very good. Soldered joints are well made, the wiring is tidy and the components are correctly mounted.

Peavey deserve credit for fitting a correctly coloured mains lead for U.K. use and also for clearly marking "240 V,50 Hz, A.C. supply" on the back panel.

	TERROPOLITIES		
Parameter	RESULT	TEST CONDITION	COMMENTS
Power OP	159W 101W	At 10% total harmonic distortion At onset of clipping	Rated O.P. is 110 watts into 4 ohms,
	6.1% 1.8% 0.24%	@ 110 watts T.H.D. @ 10 watts at 1KHz. @ 1 watt	Reasonable for a valve amplifier
Tone control range	Bass – 28.8dB. @ 50Hz. Mid – 19.1dB. @ 3KHz. Trebie – 24dB. @ 10KHz.		Good
Residual Noise	78.3dB.	Below 100 watts	Very good
Noise referred to I.P.	–105,5dBm, –106.1dBm.	Referred to normal I.P. 1 Referred to bright I.P. 1	Good
Sensitivity	8.6 mV. (-39dBm.) 17.5 mV. (-33dBm.) 7.8 mV. (-40dBm.) 17.3 mV. (-33dBm.)	-Bright I.P. 1 -Bright I.P. 2 -Normal I.P. 1 -Normal I.P. 2	This is the Input required at 1KHz. to give 100W output.
Capacitive	Good	1KH2 cauges water 6 ohm and 2 uFload	Cood stability margin

# CONCLUSION

Load Test Short

Circuit Test Open

Circuit Test Tremelo

depth

OK

OK

50%

The Deuce II sounds good, looks good and worked well on test. The only points which deserve comment are the mid-range tone control has maximum effect at 3KHz., which is not really midrange; and even when the master volume is at maximum, the pre-amplifier started limiting very slightly before the output stage. In every other way,

the performance is exactly as one would like.

The quality of engineering is good and it is clear how Peavey have become so popular in the States and why they are gaining popularity in this country.

0K

Good stability margin

It is also an achievement for an American company to price their equipment within spitting distance of the British competition in the U.K. market.

Erratum and Addendum December, 1975 issue: in regard to the Matamp Soundcheck, on page 18, read "trade mark" for "trade work" in the first paragraph of the introduction, "amplifier top" for "valve top", and "correct tap" for "correct top" in the second paragraph.

1KHz. square wave, 4 ohm and 2 uF load

Tremelo frequency range 4Hz, to 11Hz,

2 mins, short circuit at full drive

In regard to the PA:CE Soundcheck, on page 21, read "control markings" for "control workings" in the first paragraph of "Construction", and "Noise referred to input" for "Noise referred to signal" under "Parameter" in the "Performance" section. Also in this section, it should be understood that the comments "Excellent", "Nice and symmetrical", and "Good square wave response with tone control" refer to the entire tone control range, and not to separate test conditions. The photographs which accompanied the PA:CE soundcheck illustrated an XLR input option. The standard model (that reviewed) has jack inputs.

Finally, the Keyboard Check on page 30, wrongly attributed to Bruce Gibbs, was conducted by George Gibbs.

# Yasuma Tiple Retail Price £31.42

One of the instruments offered at last year's Music Trade Fair was a tiple from the Yasuma Musical Co., imported by Barnes and Mullins. The tiple is a small guitar-like instrument, with ten or 12 steel and covered strings, arranged in octave pairs and/or triples (hence, apparently the name.) It is best known, in one shape or another, in Portugal and Spanish-speaking South and Central America where it is, I be-Heve, used to produce a persistant and lively rhythm, in the same way as the Charanga. (There is a related instrument called Bandurria, which generally has six pairs of strings like an octave 12-string, In some parts of the world the only real difference lies in the grouping and Retail Price £115.74 tuning of the strings.)

This instrument is based very closely on the Martin-pattern tiple, which is probably derived from Mexican instruments; it has the two outer courses as pairs and the inner ones as triples, and consequently only ten machine heads. As far as f know, the tuning is roughly one fourth higher than a 12-string with some strings duplicated.

I have not yet managed to come to terms with the triple stringing (I think the problem is likely to be unsuitable bass strings, but they are easily enough changed). With various combinations of unison and octave pairs, and using "guitar" or "mandola" tunings, it appears to be an interesting alternative to mandoline for a lead melodic instrument in acoustic and folk bands. It is pretty, it looks (not surprisingly) like a little Martin guitar, and it is very loud - in fact, its volume and tone compare very favourably with most mandolines. Its closest competitor here is a little copy of a Martin "Pear-shape" flat-back mandoline, imported by Stentor Music. There is such a close similarity of tone that I suspect they may have the same maker.

tiple's performance depends on ing the nut and saddle to their optimum settings. If this instrument was available with fittings for 12 strings, it would have additional uses as an octave-guitar for both adults and children. The strings could also be arranged as four triples, using an "octave and suboctave" tuning to further enrich the tons of the lower strings. Nice one, Mr. Barnes, and good value for money - but it would be even more fun with two additional strings.

# Takamine D.F4OOS

This guitar retails for £125, including V.A.T., and from any angle must be placed in the category of good to very good value for money.

It compares favourably with similar guitars sold under names such as Tama, Ibanez and Hokada, and in spite of having a different maker, it is still similar to these guitars and shares some of their characteristic faults and features, if you decide to buy a Takamine, you will have to buy it from Ivor Mairants. This has the obvious disadvantage if you live out of London, that your new guitar may have to take its chances with United National Crusher's delivery service: it also has the advantage that you are buying from someone who is a sole supplier and has complete control of the pre-sale checking and adjusting of these guitars. As a result, you can reasonably expect and demand the same standard of quality which appears in this review sample.

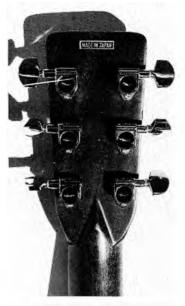
The construction is generally of a high standard and the whole instrument has a clean appearance, which makes a very pleasant change. The soundboard is solid spruce of unspecified origin, and back and sides are laminated with rosewood and the fingerboard is inlaid with some nice abalone markers. Frets are well fitted and finished, although they are a little loose where they pass over the bindings on the fingerboard edge, and this makes the fret ends sharp in places. The decoration around the soundhole and body is a rather clever plastic imitation of abalone. and not the real thing, as one might think at first sight, in common with most better Japanese copies of Martins, the struts which are visible through the soundhole are much better finished than those which are out of sight.

The action as supplied is reasonable, but could be improved noticeably by adjusting the saddle and (particularly) the nut. I also feel that the strings are too close together at the nut, leaving more space than necessary at each edge. I

As with any small instrument would also like to see the bridge which has many steel strings, the pins holes reamed out a little more, so that the purchaser is not how much care you take in adjust- tempted to force them down into the bridge and crack it across.

> The machine heads work well and appear to be gold plated copies of Schallers or Grovers (Gotoh Gut possibly?). The guitar sounds pleasant (though not entirely like a D.45) to the player, to listeners at the front if they are at a distance, or in a large upholstered or audience-filled room.

> in a small room, it is not, in my opinion, well balanced when heard from in-front. It seems as though the bass and end "flows" around the sides towards the player, and the treble goes straight forward. This is of course one of several possible solutions to the composing guitar/performing guitar dilemma, but it is a solution which exposes any deficiencies present in the guitar's treble end. To put the matter more simply, it is difficult to make a guitar which sounds good loud and sounds good played quietly. This one will play loudly, but it sounds better played quietly. and it is likely to please you, more than your audience. By the way, the truss rod adjustment is inside the soundhole





by Stephen Delft, M.I.M.I.T.

# FC&N Victor Garcia No127

# Retail Price £30.78

Assuming you want a nylon string have two basic choices: an old one. There are often quite a few vately at low prices, and a few of them may be bargains, but a large proportion of them will be instruments which have never quite worked properly for one reason or another

with experience of musical instruments, you may be able to find a nearly-new guitar with no serious faults, but try to look beyond any obvious small problems: they sometimes conceal more serious ones.

Now I am not suggesting that serious faults are only found in recently made second-hand guitars, and are quite absent from new ones and really old ones; that just isn't 12 years old and it still works properly, it is likely to continue working, and if it is cheap only because the finish is scruffy, you are likely to get good value.



It is still possible for such a quitar to have serious faults and, in any case, you will be competing with other knowledgeable musicians to find the same few real bargains. Good luck, but if you have tried and failed, read on,

If I was searching second-hand shops and the Exchange And Mart for a cheap, second-hand Classic, it would be because most cheap new quitars are either unpleasant, oriental, or both. Which brings me to your other possibility - buying a low or middle priced new quitar. and in this price range, some batches of any model of guitar are likely to have problems. I don't want to bring down a hail of retribution on the few things we can export to Japan, but there are quite

lents at the same price. Unfortunately. Japanese instruments dominate the selection of instruments in many shops, and you may have to travel some distance to find a wider choice.

You should also bear in mind that if you buy a guitar privately, it is up to you to decide whether it is fit for use; the seller will not be interested in your complaints a week guitar and you haven't much later. If you deal with a reputable money to spare after the rent, you musical instrument shop, you are to some extent protected from faulty second-hand one or a cheap new goods under English Law, and in many cases also by the A.M.I.I. nearly-new instruments for sale pri- scheme (look for the A.M.I.I. Jabell.

If you should need to complain. start off on the assumption that the retailer is going to be helpful, and only make a fuss later, if you are sure he won't be. This way, you can If you have access to someone both save some time and ill feeling. In any case, you must be sensible and you just can't expect "Hand made" quality for £30.00.

> You can certainly expect that anything called a guitar and not Toy Guitar", will play sensibly in tune on all its frets, and have an action which any ordinary competent quitarist could at worst cope with, and at best, find enjoyable.

You may decide, however, that true. However, if a guitar is ten or a nice instrument with, for instance, rough frets, is a better buy than another which has a poorer tone but nothing actually faulty. The main problem which holds back low and middle price European guitars is poor finishing of are often made from reasonably

a few European guitars which I good solid wood for the same price prefer to their Japanese equiva- as a laminated (plywood) oriental one, If you have followed our "Improvement" articles and you can cope with smoothing and levelling rough frets, and perhaps adjusting the slots in a nut, you may find a Spanish (or East German) guitar offers better value.

In the September issue, 1 reviewed the Barnes and Mullins "Classic", which is representative of one way in which Spanish guitar makers are fighting back, (Plain, utilitarian, accurate factory production and obviously ideal for the Educational market). The better models from Victor Garcia, such as this model, seem to represent a rather different philosophy, and one which he has adopted only quite recently. First, he has dyed the front yellow, so that it looks like all the Japanese quitars which try to look like expensive Spanish guitars. Secondly, he has apparently brought in modern lacquers and a spray plant and is now getting a clear and attractive appearance from the same woods which used to look dull and muddy. Thirdly, the neck (and in fact the whole instrument) is of a lighter and more graceful shape. Finally, the frets. nut and bridge are correctly placed, at least on my sample and on others which I examined at the Trade Show.

In the past, some of Garcia's frets seemed to have been measured out with a piece of knotted string and a stick of chalk. Also, if my sample is anything to go by, Garcia has stopped using mahogany for wood and/or frets. On the other bridges and fingerboards, and is hand, Spanish guitars in particular using a much more suitable rosewood substitute.

Unfortunately, the frets appear to have been polished with a handful of barbed wire and although they are level enough, they grate unpleasantly on the strings and cut into them, I doubt whether most retailers would wish to polish the frets on this quitar, but I think it is still well worth considering if you can do the job yourself. Of course, if the frets were right to start with, then this quitar would probably receive the success it otherwise deserves! To be fair, all but the very best Spanish Guitars have the same problem from time to time.

This Garcia model is a conventional Spanish-made Classical guitar with traditional construction and decoration, It has a scalelength of 655 mm, 25 13/16 in. String spacing at the bridge is 58 mm./ 2% in. String spacing at the nut is 41 mm./ 1% in. Fingerboard width at the nut is 51 mm./ 2 1/16

The action, as delivered, was 4.5 mm, bass and 4,2 mm, treble at the twelth fret. This is acceptable but the guitar has a relatively long scale and the action could certainly come down a bit, particularly the top strings, Careful adjustment of nut and saddle could easily reduce the action to 4.2 bass and 3.0 treble. This should even be low enough for people used to high quality steel-string acoustics, and the tone seems to be a little brighter than average and should suit folk guitarists who want a softer sound. The front is some form of pine or spruce and has a simple fan-strutting system below the bridge. Back and sides are mahogany, and the bridge and fingerboard are made from a useful but anonymous hardwood, which seems a perfectly good substitute for rosewood. The soundhole rosette is cheerful, and bright enough to compete with its Japanese cousins, without having that tasteless quality which often comes from one culture trying to copy the work of another.

All the strings played slightly sharp at the octave fret, but with the exception of the third string, all were within the range of adjustment of the saddle. If adjusted, this would be perfectly acceptable; the third string is rarely used high up the fingerboard. The machine heads fitted, are "middle-of-the-road" quality, as one would expect, but they are nicley plated and, on my sample, they all work surprisingly well.

In conclusion, it appears that Garcia is trying very hard to reclaim Spain's traditional superiority in m making good, cheap unpretentious guitars, and that this guitar represents a critical change of production policy. If you are handy with minor adjustments, it offers good value, but I would like to see changes in fret finishing, and modifications to the soundboard to reduce the thickness slightly and to counteract its tendency to sag across the soundhole. This last point applies to most lower priced Spanish guitars, but could easily be put right.



# 180 watts ...easily from the





The Super Twin is IOO% tubes, not solid state or hybrid. NO reverb or tremolo-just the most effective, versatile graphic equaliser circuit we've ever seen. In addition, a built-in distortion control provides facilities for altering the harmonic content of the sound from incredibly clean to an almost unbearable degree of distortion. It also features volume, treble, middle, bass and presence control. The tonal circuit design of this amplifier provides an end result that is amazingly free of unwanted noise and hiss.

Try this amazing combo at your local Fender Soundhouse.



# INBRIEF Crumar

Retail Price £194.44

(£210 inc. 8% VAT)

Two versions of this little plano are available. One is a standard model, offering piano and clavichord sounds and the other offers sustain in addition. We tested the model with sustain and like the others in the range, it represents incredible value for money.

Being able to buy an electronic piano for around £240 (there's only eight per cent V.A.T. on portable keyboards) means that in certain areas musicians are still being offered an amazingly good deal.

You can't expect this plane to be a Fender Rhodes or a Wurlitzer. but it's a highly portable little unit that makes an ideal add-on to a keyboard array. It's also useful as an additional sound for a band who don't usually feature keyboards.

Assembly is simplicity itself, with two chrome legs with a cross member held by two rotary knobs. One of the knobs supplied with the piano we tested had an incorrect thread for the job, so it's worth checking that the right knobs are supplied. The piano is supplied with a carry bag fitted with two strong handles and the total of the parts would add very little weight to a van full of gear.

The piano sounds like a piano. Perhaps it's a little lacking in depth, but the general sound is very acceptable. It's always interesting for a planist to try his hand on an instrument that is not touch sensitive. It can be a great aid to technique, as it does not easily forgive scuffed notes and mis-timed passing notes; they are reproduced at the same volume as the main notes. Naturally, a lengthy period of playing the Compac piano only (or any other similar electronic piano) will temorarily lead to a hardening of technique, but playing one of these in conjunction with an acoustic instrument can be very rewarding.

Vibrato is provided - obviously to give the clavichord sound an ethereal effect - but unless used carefully it can produce a sound that sounds more unstable than vibrating. Perhaps the most peculiar feature of the keyboard is that the slide faders controlling the sound, vibrato and overall volume, are mounted upside down. They have to be pulled downwards to get an increase rather than pushed up. It takes a little getting used to.

The clavichord sound is highly effective. It's that sharp sound that is so familiar and will always be associated with the arpeggios that backed the opeing to "Lucy In The Sky With Diamonds," Adding a little vibrato to the sound produces an attractive trembling tone and a particular delight of the instrument is that it's possible to mix the piano and clavichord sounds by cross fading. This means that an infinite variety of sounds is possible from full blooded piano to high squeeky clav.

The piano stands firmly on its I legs - which is more than can be said for some - and it is constructed solidly. The keys are standard sized and strong and the touch action is light without being sloppy.

Rubber feet are fitted so that keyboard can be sat atop an organ without harm and this is probably the way it's most likely to be used.

It's an excellent little instrument - perhaps a little lacking in tone below 350 cycles but, considering the price, it would make a worthwhile addition for any keyboard player.





# **Roland** Rythm77 Rétail Price £181.04

I was very interested to see what the latest electric rhythm machines could do so I checked out the new Roland 77. The rhythms provided include Rhumba, Beguine, Cha-cha, Mambo, Samba 1 (brushes & bongos), Samba 2 (full samba), Bossa-Nova, Baion, Bolero (ala Ravel), Tango, Latin (select first set of buttons - above). Rock in Roll 1, Rock in Roll 2,(Funky), Slow Rock (in triplets), Western (operating via the "2 Beat" and "4 Beat" buttons), 6/8 March, Jazz Waltz, and Waltz,

Western, 6/8 March and Waltz are coloured white and are connected to a sub-section which runs the "European" rhythms. This subsection comprises two push buttons labelled "2 Beat" and "4 Beat", which can be used separately or together; and a rotary switch which selects the following rhythm combinations.

Two Beat Rhythms: 2 Beat (Bass drums), Foxtrot 1, Swing 1, March, and Parade (C); 4 Beat Rhythms: 4 Beat (Bass drum), Bass & Snare drums, Foxtrot 2, Swing 2, Swing 3, and Shuffle.

The rhythms are all very full and Roland have managed to lose the "Metronome" feel that many rhythm units have.

The tone of the various instruments varied from an almost perfect snare drum, bass drum and hihat to a not very realistic Guiro. On average, the majority of the tones were good and better than those found in earlier electronic drummers.

A steel touch-bar on the top left hand corner serves as a start-stop control. A "remote" footswitch can be plugged into the appropriate socket if required.

The Bass drum, Snare drum, Guiro, and Maracas + Cymbals + Hi-hat are controlled by four slider volume controls; and so is the master volume level,

A very useful "quick/slow fadebutton and slider control allows one to instruct the machine to fade-out near the end of a tune. Another (adjacent) button selects the metronome pulses, thus enabling one to start in time with the unit. This effect automatically cancels itself when the rhythms start.

Another useful feature is the "Double Tempo" switch, which enables one to double up and then return to the original tempo with the flick of a finger.

The output sockets are jacks and are labelled Hi-Z and Lo-Z. thus enabling the Roland 77 to be used with almost any amplifier.. An alternative version with a built in amo is also available at a higher price.

The power switch is on the front panel but no power-on indicator light was evident, so care must be taken to ensure that the device is not accidentally left on all night after being used.

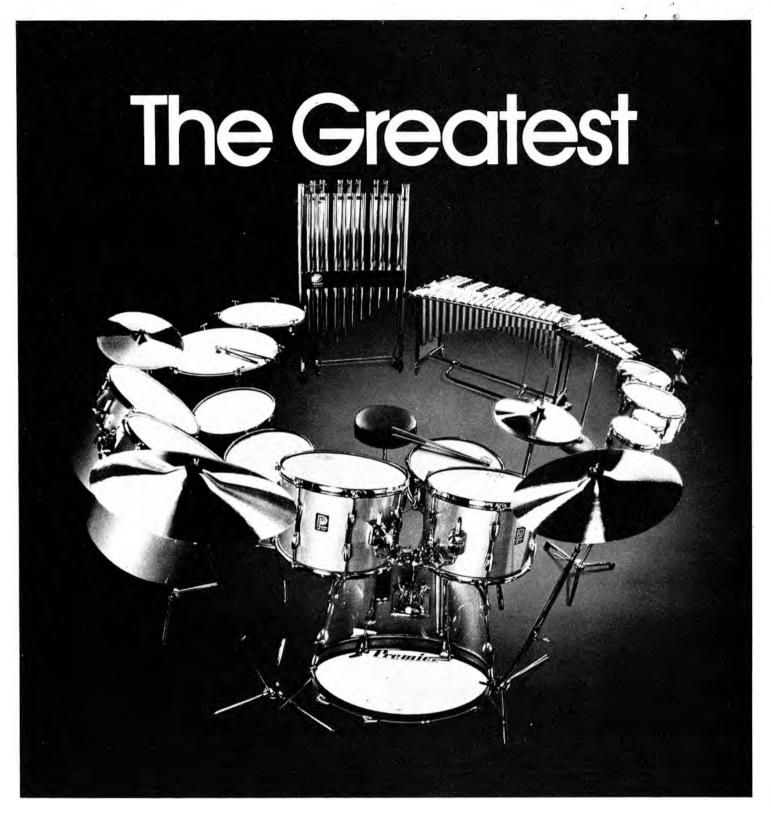
The mains supply is fed into the device via a long two core mains lead coded with the American style Black & White inner insulation code. This means that the machine is not earthed and that confusion. could arise from lack of familiarity with this colour code. This is most undesireable.

The machine was set to work from 220 volts A.C. at 50/60Hz., but I could see no fuse from an external examination.

The mains voltage selector enables one to change the input voltage to 110/125, 90/109, 220/250 or 200/219 volts. The exact purpose of having this range available escapes me, as some of the ranges are not, to my knowledge, used anywhere in the world. Finally the machine draws 5 watts.

The unit is very robust constructed in veneered plywood and black finished steel. It has "Tarn ished Bronze" music rack hinges and a lovely carved wooden music board. The rubber feet will stop it from damaging the instrument upon which it is to be used.

All in all, the 77 is a very workmanlike machine which does its job well and without any undue fuss. The voicing is superb and the controls very sensible.



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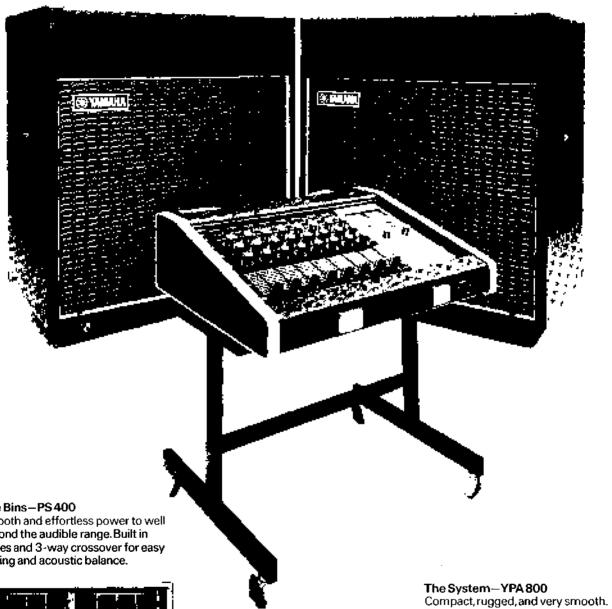


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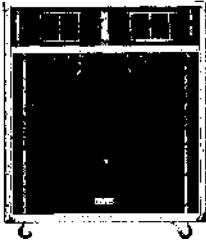
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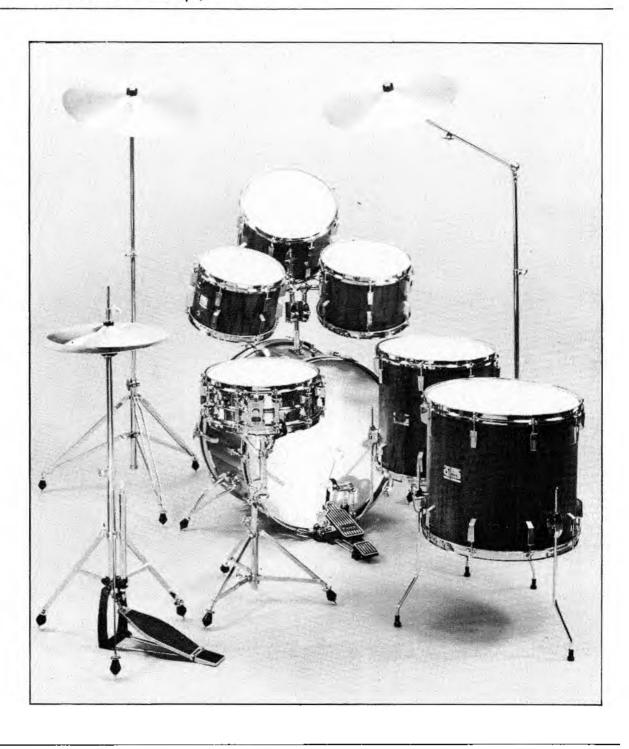
Kemble-Yamaha, Mount Avenue, Bletchley, Milton Keynes MK1 1JE.



TEST ON: Sonor Wood Finish Kit

DATE December 1975

PRICE £500 Approx.



Until now the U.K. has never apparently been part of Sonor's Conplans to market drums in their usual efficient manner. However, some of this magazine's readers will at odd times have come across Sonor drums that somehow do not fit into the slot that we have reserved in our minds for Sonor drums.

Consequently, I did not really know what to expect when Sonor invited me to test their "new for 1976" Drum Kit. Believe me, I was pleasantly surprised, as I believe you will be.

### Materials

All the shells on this kit are a "monster 9 ply thick". This is at least 2 ply more than your average good quality drum kit from the States. I expect many drummers to agree that heavy solid shells mean a heavy solid sound and I think that the shell thickness is an important good point on this kit. Couple this with Remo Weatherking heads as standard and a good sound should result.

Drum sizes available are 22" Bass Drum, Tom-Toms  $12 \times 8$ ,  $13 \times 9$ ,  $14 \times 10$ ,  $16 \times 16$ ,  $18 \times 16$ , as well as a  $14 \times 5$  metal snare drum.

## Bass Drum

Large chromed double metal rods coming out and meeting at the screwed spike for rubber feet are a feature on this bass drum. They fold away well and in actual use, they held the bass drum as well as any on drums today. An internal bass drum damper is also fitted to the batter head.

# Tom-Toms

The spurs also have a dual role because this kit has a Tom-Tom fitting that is second to none. Sonor have decided that double mounted and double floor Tom-Toms are not enough for the creative drummer of today. Therefore, the standard double Tom-Tom holder can now take an easily bolted-on third Tom-Tom. The triple cluster of Tom-Toms consequently needs a good set of bass drum spurs for stability, and I found that this was indeed the case. The actual fitting is ratchet based but the adjustment was superb. Couple this with a massively strengthened bass plate bolting to a 9 ply shell supported by excellent spurs and even three mounted Tom-Toms (12", 13", 14") had only natural stress movement which was minimal. Also, all three mounted drums were within easy reach.

# Snare Drum

A steel snare drum with a 20 strand snare is fitted as standard, although on the model I tested a 42 strand snare was fitted. Response was good and the Snare (and Tom-Tom) screw on dampers worked well. The snare has a throw off lever and snare adjustment can be done at both ends.

At the lever end, the adjustment was very fine indeed and ought to satisfy the most fastidious of drummers. Each tension rod incorporates a thumb tightened locking screw which Sonor claim will eliminate gradual loosening of tension rods under heavy playing.

## Accessories

The Sonor cymbal stands are as big as the really large stands that are now on the market. They have good clamps and tilters and also a top locking nut to the wing nut. A boom stand is also an available extra.

The bass pedal is adjustable in so many ways that I won't even try to explain, but I believe that it has more adjustment than the American model that is generally used in comparisons of pedals. Three springs of different tension come with it and like the American model, it leaves a plate on the hoop of the Bass drum. It also is a strap action, not linkage. The hi-hat was not quite as heavy duty as the cymbal stand, but well made and none the less adequate. Each tripod leg had the spur/rubber feet and this facility also covered the stands and Bass drum spurs. I do not believe it could creep even under the heaviest foot action. It has double springs, one of which is adjustable. At its slackest setting, it was still slightly too strong for me but to be fair, after the spring has stretched and bedded in, I believe it would probably be acceptable to all drummers. The non-slip foot pad was made of rubber,

but unlike a certain English model which uses "short life glue", this kit had rubber push-in grommets which I expect would hold for ever. Replacement, should the pad wear, would be a simple push-on operation.

The cymbal clutch was very simple and yet worked very well. The bottom half had a hexagonal hole which fitted to the hexagonal down rod. Obviously, this could not rotate. The top half had the usual wing screw and when this was tightened on to one of the eight sides of the rod, the two halves could not rotate. Consequently, no tightening of the top hi-hat cymbal could occur and so lock nuts are unnecessary.

The snare stand was fully adjustable with a double lever to lock the angle adjustment. It has the modern single adjustment to tighten the cradle, but to lock the cradle it uses a type of hand brake idea. I have used an Italian snare drum stand with a similar hand brake and after three years, I would vouch for this method as being very good indeed. In all a well designed snare stand.

## Conclusion

It would appear that with this kit, Sonor have now come into the "Top of the Range" bracket and at this "Top of the Range" price, it must be compared with certain "Prestige" English and American kits. In terms of quality and sound, I expect it to come out more than favourable but strong brand names that have become household words to drummers are very difficult to forget. With this in mind, I understand that Sonor are arranging drum Clinics, so watch out for them in your area.

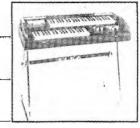
So, if you do not like to change kits every six months, this particular Sonor kit should last you many years.



DATE December 1975

PRICE £ 730.87 EXVAT.

# TEST BY GEORGE GIBBS



# INTRODUCTION

This new model was first introduced into the U.K. for the 1975 Musical Instrument trade fair and is now reaching the shops. It is a two manual portable with a separate pedalboard and free-standing swell pedal. There are a whole collection of electronic organs which set out to copy the sound made famous by manufacturers using mechanical "Tone-wheel" generator systems. Few of them have successfully achieved the "Sound" they seek, but in the case of this model, The Elka-Orla X55, they have been most remarkably successful

# UPPER MANUAL

A four octave (49 note) overhanging keyboard. C to C.

### HM Voices

9 drawbars voiced as pure "Flute" tones and arranged in the natural harmonic sequence. 16ft., 5 1/3 ft., 8ft., 4ft., 2 2/3 ft., 2ft., 1 3/5 ft., 1 1/3 ft., and 1ft.

### U.M. Preset Voices

Clarinet, Trumpet, Full Organ, Theatre, and the Drawbars can be selected by means of five push buttons, Only one preset can be used at any time and the right hand button will take precedence if more than one button is depressed. The selection is then displayed on an LED indicator near the upper manual.

### Percussion Voices

percussions are provided on rocker tabs 'Harmonic at 8ft., 5 1/3 ft., 4ft., 2 2/3 ft., 2ft., and a "Noise-Attack" button can add a switch-click effect separately.

Adjacent to the "Noise-Attack" button are the sustain buttons. The one that gives "sustain" to the upper keyboard effects the Drawbar voices or preset in use and the percussion voices. This is unusual but does give one the opportunity to create some lovely chime and music box effects.

## LOWER MANUAL

A three octave (37 note) keyboard ranges from the bottom C normal to a 61 note keyboard. This means that the L.M. does not cover the central zone where many organists play their "question and answer" phrases. A four octave L.M. would solve this problem.

# L.M. Voices

Five "Flute" drawbars voiced at 8ft., 4ft., 2 2/3 ft., 2ft., and 1ft., gives the lower keyboard a very reasonable range of voices.

# L.M. Presets/Percussions

None

# L.M. Sustain

L.M. Sustain is available separately from that on the upper manual allowing one to create some nice electronic piano sound with the L.M. drawbars.

# OTHER FACILITIES

Available on the entire organ in two different depths, the vibrato gives a fairly shallow pitch variation combined with a selectable volume modulation.

## Tone Control

The only equalisation control provided is the brilliance tab which enables one to add the extended harmonics found in string tones.

## Mains power

Power is fed into the organ by means of a non-reversible "Euro-Plug" and a removable mains cable, which was correctly colour coded on the particular organ we

## **Fuses**

A 500 milliamp 20mm fuse is fitted to the rear panel next to the Euro-plug.

### Power switch

One of the illuminated neon variety is fitted, which gives a nice, bright indication of whether power is reaching the organ and whether it is still switched on.

### Swell Pedal

A separate "Free Standing" swell pedal is provided. It connects to the organ via a standard three pin DIN plua and socket.

### BASS PEDALBOARD

The organs three pedals are one of its best features. They consist of a free standing 13 pedal note assembly connected to the main organ cabinet by a military quality 15 pin Paignton plug and socket. It is very unusual for organ manufacturers to use such high quality plugs. Being a standard NATO component, these plugs are readily available all over the world, should one ever need replacing.

## Pedalboard Voices

16ft. Bourdon and 8ft. Flute voices are selectable by pushing the foot-buttons on the pedal unit. A third button switches on the bass guitar "Attack". In addition to the voice buttons, the pedals also have their own foot-operated volume wheel and a sustain duration wheel (Edgeways mounted potentiometers).

### CONSTRUCTION

The organ is built in a very strong vinyl covered box with steel corners and a clip-on lid. The facia surfaces are covered in "Wood Grain" formica laminate and the metal panels are finished in black.

Two large diameter chromium plated tubular steel heart shaped "legs" are fixed to the main organ body by means of two man-sized screw-on knobs. The top can be set to any one of five different angles and the chromium legs are kept spaced correctly by a black steel spacer-bar.

# Music Rack

An extremely attractive transluscent grey plastic music rack is also provided with the X55.

# Weight

Nett. 30 Kg. Gross 39 Kg.

# PERFORMANCE

No objectionable hum or interference was apparent at all during this keyboard check.

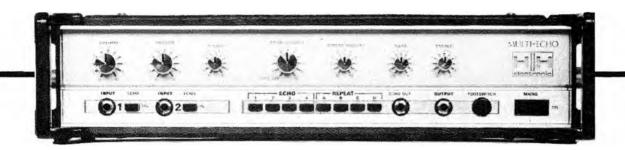
## CONCLUSIONS

The Elka-Orla X55 is a very nice sounding instrument with a wide range of tone colours and other effects available. It is strongly constructed in good quality materials and great attention to detail has resulted in a flowless finish and a nice feel to the controls and keyboards.

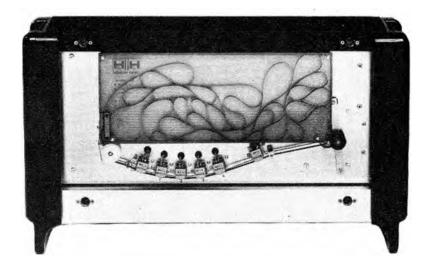
I must criticise the layout of the controls, however, because the putting of the drawbars on the right hand side of the lower manual makes them almost impossible to reach, except by the unusual expedient of playing the melody with the left hand. While I'm being critical, I would like to air my personal dislike of the drawbars which are made of flexible plastic. They seem to work well but do not engender (in me, at any rate), a feeling of quality or class.

In conclusion, this is a really beautiful piece of electronic design and engineering which performs well and is considerably lighter and smaller than any of its competitors, but which does not look, externally, like a top quality organ, If Elka-Orla rehashed the layout and styling of the X55 I would be happy to give it a "Rave" revue because it is, electronically, a terrific instrument.

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Is your arm better now?

No (laughs). It's just that I haven't given it time. You get this sort of jelly that's supposed to form and knit the bones together, but it hasn't happened. Occasionally, they crunch together and that can be a bit painful. It's just because I haven't rested it. The day after I did it, we did Detroit and went right through the tour. I was taking pills during the day, and I was having three pain-killing injections while I was on stage. The more I was using my arm, the more I was bruising it. It'll get better 'though. It just needs a rest.

Did you learn anything by having to use your fingers?

Yeah, I did. I use it a bit now. You can get a different sound with the texture of your fingers. And not the sort of picking you do normally. Sometimes, I bring my little finger into it and that way, you can do things quicker without changing the shape of your right hand.

What guitar are you using now?

Well, I carry three with me on the road — an SG., a Melody Maker and a Les Paul. Every night, we go into the tune-up room and I have a blow on each one and see what feels right for that evening. Do you bring an acoustic guitar on the road with you?

Yes, I cart round an old Levin acoustic to play in hotel rooms and things. I bring that because it doesn't matter if it gets bashed about too much.

I know you're a bit of a collector. What guitars have you got at home?

It's a bit of a job to remember them all, really. I've got two Strats, A Telecaster, a Martin D35 twelve-string, a Martin D28 six-string, a 1956 National steel guitar, and a bass and a few other things I use for recording at home. I've also got a guitar, which was given to my by Acoustic. They were going to introduce a model called the Black Widow and they gave me one to try out and send in any ideas I had. They just wanted someone who was on the road a lot, to see if the guitar stood up to the trials and tribulations of touring. They never brought it out in the end - I think the guy who got it all together left the company, so it was left in limbo. You're using Acoustic amps aren't you? Yeah, I've got a 271 with a 270 cabinet. I've got two onstage, but I only use one. The other's a spare. There's another one there which is like a monitor. The organ goes through it, so if I get any problems tuning, I refer to that.

Do you suffer from tuning problems?

Occasionally, yeah. A fresh set of strings are liable to slip a bit under the lights. At the moment, I use a mixture of Clifford Essex and Rotosound strings and they're both good strings, but even the best strings take a while to settle.

Have you got a regular pattern for changing your strings?

Yeah, every three gigs — sometimes after two shows, but on average, every three. You mentioned recording at home. What equipment have you got?

I've just got a four-track Teac machine, which I use with a Revox, so you can mix it down and then put it onto the Revox and then back onto the Teac and so on. I normally put little ideas down on a tiny Sony cassette player which I carry on the road, and when I get home I sift through the tapes and see what comes out. I might have about an hour of recording on the cassette, and pull just one idea off it. Uriah Heep are, to say the least, a loud band. Have you experienced any problems with your hearing?

No, none at all. You see, your ears aren't picking up the sound from the speakers straight on. It's like if you face a speaker towards the wall, you just get a muffed sound.

Do you find time to practice a lot?

Not an awful lot. In spurts really. Because we work so much, it's difficult to find time. Sometimes I practice a bit if we have a day off, if I'm not lying in bed getting over the last five days.

On the rare occasion when you get some time off, have you ever looked at your guitar and thought "I don't want to see that again for a while"?

No, I never feel like that. In fact, the only time I felt like that in my whole life was when we had a couple of weeks break on the last American tour. I'd been so frustrated with the cast on my arm and not being able to play what my brain wanted me to play. We had a quick holiday in Jamaica, and that's when the cast was taken off, and I wasn't going to use my arm at all. I was going to play it dead safe, but then after a day of that, the old bug comes through and you've got to play.

It's obvious that John Wetton has made a difference to the band. Has it made a difference to your playing?

Only that now I can concentrate on my playing. I used to have to concentrate on what Gary (Heep's former bassist) was playing, because he went through a bit of a bad patch. Also, John doesn't play quite as loud as Gary, so it must make a difference.

Have you any plans in a solo direction? No, not at the moment. There's not a lot of time between what we're doing as a band. I probably will get round to it sometime. It's the obvious path to take at some stage.

Have you ever fancied doing something outside Heep, playing with different musicians?

Well, we do it a lot when we jam with people. Lee and me usually go to a club sometimes after a gig and ask the band if we can have a blow. It's important to play with other people. It opens you up. Like a solo project, it's a chance to do something different and divorce yourself from the band for a while, then you come back very fresh.

What do you use in the studio?

Lately, I've been using a new Vox AC30, and it's really good. Sometimes I'll use maybe a wah-wah for a bit of extra tone, but it's really just the AC30. I've also got one at home, so I virtually predetermine the sounds I want in the studio, at home. Guitar wise, it varies. In the studio there's room to bring out a Fender for a cleaner sound, and then a Gibson for the "dirty" sound it gives you when you wind it up.

Do you get very involved in the mixing after everything's recorded?

Yeah, I do. I'm not one of those people who can leave it completely to someone else. I'd probably sit at home worrying about it, and not get anything else done anyway. It's a bit of a bore and a slog sometimes, when you're just getting a rough sound before you start building it all up, but it's worth it. You can make sure your parts come through right, which is important to everyone.

Which studio do you prefer to work in? Well the last album was recorded at Lansdowne. In actual fact, most of the albums were done at Lansdowne. We did some stuff at the Chateau in France, and we also went to Munich for recording but we came back to Lansdowne and it was great. We tried to move away but it didn't work. This time round, we're going to try the Roundhouse studios.

Vocal harmonies are one of Heep's strong points. Who works them out?

Generally, when the track is being played back in the studio, anyone who has any ideas just sings them out. Then when you get an attractive line that everyone likes, we just take the harmony from there. On stage, it's all worked out so we know automatically which one we're doing. I'd probably panic if I had to think about it. When you do a solo, do you work from a shape or chord position?

Not really. I find there are certain solos you tend to do the same every night to a degree, and there's others where you just blow to your heart's content. I guess you do look down at certain shapes. If the solo sounded right in your ear for it to be in a certain register and it was in A, I'd play the A with the D shape all the way up using the second string A as the root. I suppose you do unconsciously have shapes up the fingerboard that you work to, but I don't look down and think that. You know what things are going to sound like before you play them usually, if you're proficient at all. Therefore you



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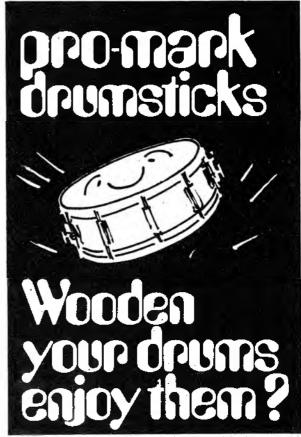
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from page 33

know what's going to come out to a degree.

If the song has a lot of bassy weight to it, it's silly to play anything down in that register, because it's just going to get swamped anyway. So you've really got to screech away up high. You normally work to positions to a degree. If you're in A, you usually work from the fifth because you've got all those A's there to float about on.

You work a lot aborad with the band. How do you find the standard of musicians in other countries?

Well the States have got some fantastic players — a country that size must have. I think the standard in London is pretty high because it's such an intense situ-



ation. It's all based round London from the whole of England and there's this big competition thing. If you're in a London band, you're trying to make a name out of all the thousands of bands in that area. I think because of that healthy competition, you get a lot of good players out of it. Like the days when I was in a group called Spice and we were doing the Marquee and places, we were forever looking over our shoulder to see who or what was coming up. In Japan, it's really strange. The musicians seem to be well-schooled but they don't have any feeling in what they're doing. They're obviously very talented because you'll go along and see a band, and the guitarist will be vamping away on a chord and playing a trombone or something with the other hand doing all these amazing brass lines. It's like a bleedin' circus act or something. The drummer will be doing the same with a sax and the bass player will have a trombone (laughs). It's like a normal fivepiece band and yet there's this great brass section going on at the same time! They're talented certainly but totally without feeling.

What about Australia?

Well, we haven't been over there for about a year, but when we were there the standard was pretty low. They just seem to play the notes in front of them and that's as far as it goes. This is obvious from the amount of success that bands from England and America are having over there. They're bringing a whole new wave of music over to them. We had a couple of jams with a few of the bands and they did seem pretty rigid. We tried to get them to jam and move off a bit and it was really difficult.

What guitarists do you like?

Well, initially I kicked off with all the iazz guitarists like Barney Kessel, Tal Farlowe and Django. I used to be very hung up on the technique side of things, and it was good grounding. It gives you a great knowledge of chords for a start and you get to use your little finger a lot which helps you with fast stuff. I went through a Chet Atkins phase after that, which I still love - all those parts he used to play. It was all a big challenge then. Nowadays, it's got to be Beck. I mean I'm still playing Blow By Blow all the time. He's got all that great humour in his playing. He still does it for me on that last album. I read all the reviews on that, and they all slagged it - I thought they must have been deaf. Apart from Beck, I really like Steve Cropper. He's playing on that Stewart album, isn't he? I love all that backing chord work. Lately I've been listening to Julian Bream a bit as well - I love all that stuff as well.

# MICK BOX



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### Graham Pell "Looking back on it," ex- makes. In fact, we've prob-plained Graham, "it was a bit ably got a dozen Les Pauls Sound Pac we are now. I was playing On the subject of drums in a band semi-professionally, and percussion: "We carry

It's the best shop around. The guys are more interested in getting you what you what they've got. -Local Leicester musician, referring to The Sound Pad.

The Sound Pad has been the centre for musicians in Leicester since last July, when manager Graham Pell secured the new premises in London Road, after outgrowsince

into the shop. It was very difficult then. want, rather than selling you second-hand cabinets and full range of spares for every-

cheaper guitars. Some of the pick-ups, knobs, pots, frets, franchises and, apart from we've got it." Dallas/Arbiter, we didn't have any accounts. We had a lot consists of Dennis Stansall, of enthusiasm though, and so Barry Grant, Graham's wife we set out to beat everyone. Now, from the stock point of With the exception of Evelyn, ing the original shop in King view, we can hold our own all the staff are musicians to Richard's Road which had with most in the country, some degree. Dennis plays 1972. We're fairly central in lo- with a group called Mint, who cation, so we pull from all were winners of T.V.'s Oppround. I suppose our nearest ortunity Knocks and Graham competitors are Watford and occasionally plays guitar al-London, or, further North, though as he explains "I'm Nottingham.'

we are now. I was playing

verifies this. There is a mass-there in body because 1 ive range of amplifiers and would be thinking about an cabinets including Orange, amp that's got to go out to-Fender, Altec, WEM, Vox, morrow or something," Peavey, Carlsbro and Ampeg. Virtually every type and design, equipment stacked make of guitar is on display on yellow scaffolding, is emand the keyboard section in- ployed on the ground floor cludes Hohner and Crumar. At the friendly atmosphere in the back of the shop, there is a shop, large drum display where kits tickets are fixed to certain by Rogers, Hayman, Ludwig items like the Altec mixer and Pearl are much in evi- which has a tag saying "Talk dence

Of the stock situation, Graham observes "We don't do 'toys'. We're aiming at the upper end of the market. We do the full range of all leading



"Looking back on it," ex- makes. In fact, we've probof a joke, compared to where in the stockroom,"

On the subject of drums and two partners and I about twenty-five kits in opened the shop, just as a stock, as well as all the nuts, spare-time thing, really. Six bolts, skins and spares. We do months later, my partners everything from the kiddie's went pro, so I really got stuck kits to the full double jobs."

Graham emphasises the importance of a good back-up "We really only had a few service. "We always carry a amps, and a few of the thing. We've got stacks of other local shops had all the scratchplates - you name it,

The staff of Sound Pad Evelyn and his brother Phil. not committed to playing A glance round the shop every night now, I'd only be

> The Fender Soundhouse Fender-Rhodes, and, in keeping with the humorous price over the wife's mother with power to spare" while we are informed that a WEM Bandmaster mixer is "Rapidly outselling the Kenwood Chef,"

> > The basement houses second-hand amplification, disco equipment and a repair and service department. which is run as a separate unit under the name of Croxford Custom Equipment. The disco department is quite extensive. It represents about 25% of The Sound Pad's business and includes decks, amps, sound-to-light units, rope lights, dry-ice and bubble machines.

> > > continued on page 41



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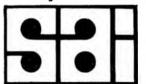
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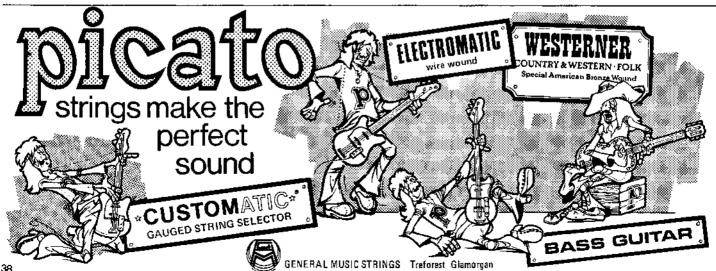


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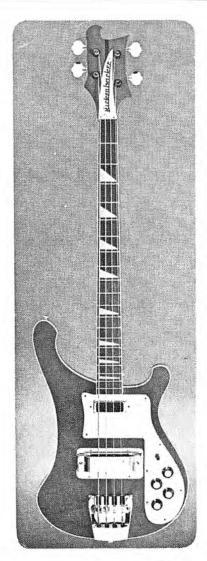
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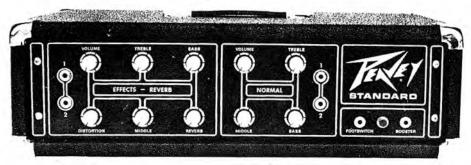






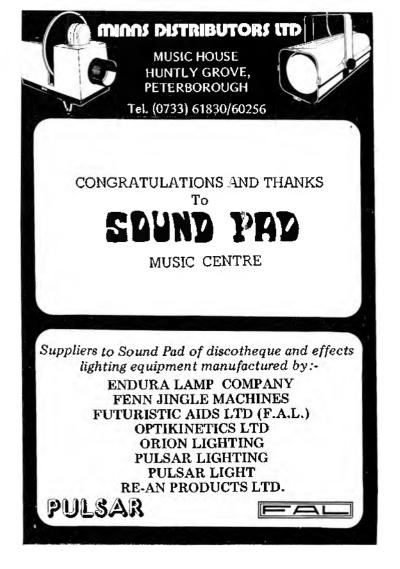






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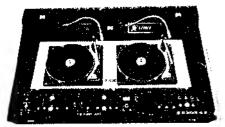


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As well as many local Leicester-based bands, Sound Pad's customers have included names like The Who, Showaddywaddy, Polly Brown, The Drifters, Black Widow and Del Shannon. "We've had a lot of 'names' in here," explained Graham, "and for two out of the past three years we have supplied gear to the acts who have won the national Players No. 6 Competition. We also do a

from page 37

lot of club installation work in the local working men's clubs and bingo halls.

"The club scene is quite healthy in this area," he continued, "There are a lot of working men's clubs and pubs and the (Leicester) University obviously use a lot of support bands for their concerts." The Sound Pad has also got quite an active Mail Order service for supplying anything from strings to guitars to synthesizers. Their export and import business is also very healthy, "Most of the equipment we export is disco gear, but we do a lot of other stuff as well. We do a lot of importing. For instance, we have a full range of Martin quitars. Virtually anything is obtainable via the import side of things."

With regard to keyboards, Sound Pad are mostly concerned with portable instruments. "We're not really into the concert organ market here," Graham explained. "Synthesizers are going particularly well. We do virtually

anybody's who are any good like Arps, Moogs and Roland."

Graham Pell and The Sound Pad have come a long way in four short years and he explains his success thus: "I only applied to this business the efficiency you would expect from a large industry. A lot of people treat this business as a bit of a joke, but the most important thing to the guy whose amp has broken down is that night's gig. To be successful in the business, you've got to offer service, efficiency and stock everything that's available on the market. Not only that, but you've got to do it with conviction. That way, even if a customer comes in and doesn't buy from you, he will know where he can get it in the future. We're all young enough to be in touch with the customers, and keen enough to know where it's at, really. This was started from very little capital so we must be doing it reasonably right to be where we are now."



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Additional capabilities
By purchasing additional mainframes and interface modules one can construct a delay line of unlimited length and an unlimited number of outputs.

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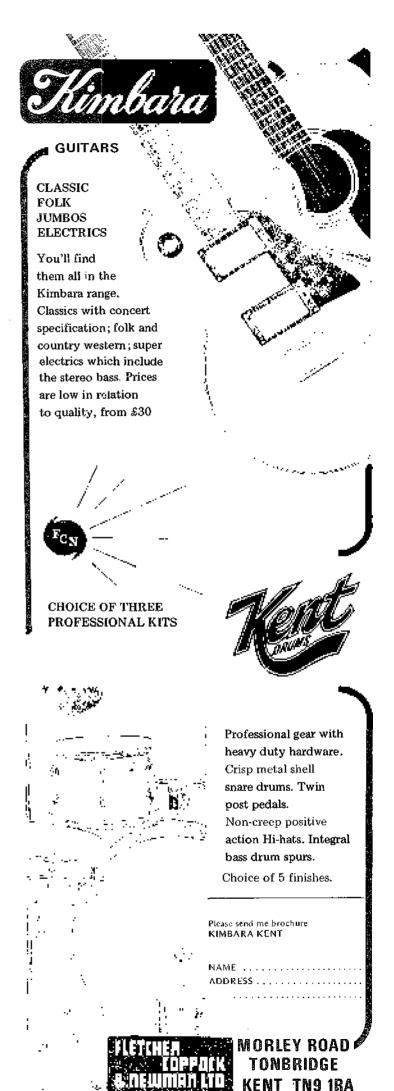
Because of the plug in construction employed in the C200, field maintenance can be performed rapidly by untrained personnel. Virtually every electronic component in the delay line can be unplugged and substituted.

### Price

If you thought that you could not afford a digital delay line. The C200 system starts at ess than £620.00.



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### Peter Cook talks to Eamonn Percival

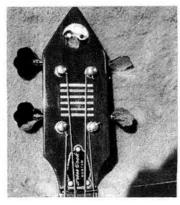
'He used to make the Ned Callan guitars and then he started making custom guitars, and he made some of my custom basses for stage. He's really good." - John Entwistle talking about Peter Cook, the man who does all John's guitar work for him.

Like most guitar makers, Peter started out playing guitar and occasionally doing his own repair work and modifications. He was playing in a group full-time and, to earn a bit of extra cash, started to build a few guitars for friends. Things grew from here until Peter began to make a line of guitars under the name Ned Callan, which were marketed by Simms-Watts. This was at the time when there weren't too many good Japanese copies on the market, so he began to sub-contract the work to "get into the bigger league". It was an uphill climb to get Ned Callan guitars recognised as instruments in their own right.

Peter explained: "This time last year, we decided that there was too competition. I couldn't make the guitar as good as I wanted it to be and keep it at a reasonable price. Also, it was very difficult to bend people's ears away from Gibson and Fenders unless you go down to the Japanese price bracket. I wanted to make much better instruments and use selected woods and better shaped necks and everything else, so I thought it would be better if I "left" Ned Callan and went out on my own. Since then, I've been known as Peter Cook rather than Ned Callan. I do it all myself now and that's the way I prefer it to be. I'm totally in control now, and all the experience I've picked up during the production years has stood me in good stead."

Peter names John Entwistle as one of his best customers. In the past year alone, The Ox has had eight basses built for him."I'd done a lot of work for John before," he explained "when I was working as Ned Callan, and I got to know him so I ended up doing all his work on guitars. Recently, I've been doing all Townshend's work - repairs and setting up and things. I deal with a lot of bands but I don't know who most of them are because it's usually the roadies who come round."

Apart from the occasional advert in the music press, Peter's Continued on p45









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reputation has come about almost purely by word of mouth. It's been a natural progression and he now finds plenty of work coming his way. "If someone comes to me for a custom job." he emphasised, "it's going to take about three months, If people come for repairs it would be about three weeks - that's for a complicated job, but of course, if it was just a case of rewinding a pick-up or something fairly simple, then it would only take a couple of days. The main problem is that if people come to me and want something done, I'm not the kind of personality to turn them away, so I do it and I end up with a great pile of guitars. I'm slogging away all day and into the night, and all the custom work which I'm building on will suffer because it hasn't got a ticket that says 'by Thursday'. A custom job is probably estimated for three months time, and then I'll look round and it's suddenly on top of you. So every now and again, I have purges when I'm working absolutely frantically and then occasionally I'll stop all that and spend a comparatively leisurely time doing custom jobs and work on my own models. I'm a bit of a worrier and I'd go mad if I didn't stop every now and then."

Peter will do repair work on acoustics if it's just a case of a broken neck or re-finishing, but he doesn't actually build acoustic guitars. "I wasn't brought up with acoustics," he explained, "and I don't believe in tackling anything unless I can do a near perfect job on it. I could probably do a reasonable job on acoustics, but I wouldn't be as happy as I am doing solid electrics."

Peter's most requested guitar "shapes" are Thunderbird basses and Firebird or Flying V guitars. "I think most people tend to like the Gibson shapes for guitars," he noted, "but a lot of people come along to me with their own designs, so I sometimes work from them." On the subject of machine-heads, he uses Schallers as a general rule. "Obviously, there's a price that I work from using my fittings and in with that standard price would be Schallers.

"People come to me and they want, for example, Gibson pickups and Grover machine heads and really, anything goes. I never try to tell anyone what they should have. When you're in production, i.e., when I was doing the Ned Callan line, you've got to say 'This is the instrument. This is what you've got to have,' but now I can give people exactly what they want. If they ask my advice. I'd give them the benefit of my experience. But Schallers are pretty good. I do prefer Grovers myself, but they are a bit more expensive."

Peter also builds heavy-duty guitar cases for his instruments and he stresses the importance of having a sturdy case. "I would always recommend that a guy has a case. If somebody is spending a lot of money on a guitar, he doesn't want to carry it away in a paper bag. Secondly, my cases are flight cases and they can be thrown about in vans or aeroplanes, whereas with the cheaper cases you buy, one boot through them and you've got a broken guitar. It's so important."

Peter makes a lot of the metal parts himself. "Depending on what I'm doing, I make up the parts sometimes. I find the Japanese micromatic bridges and tailpieces very good value. They're a pretty good price and I think they're as good as the Gibsons. Obviously, if I make a guitar for someone who particularly wants Gibson fittings, then I'll use Gibson fittings. I like using everything of my own, but in the case of micromatic bridges, it's just a bit more convenient to use them.

"The engineers that I use to make the parts up are a bit overworked at the moment, so they're having problems, but hopefully I shall get those made up as well. If I do Thunderbird copies, for example, I usually make up the bridge parts myself, but the micromatics need a milling machine to mill out the recesses. It's not something you can do by hand. If it can't be done by hand, I have to put it out to engineers. If it can be done by hand, then I'll do it by hand."

Peter uses a wide selection of woods, each of them obviously having their own characteristics. "My favourite for a neck is Honduras mahogany. If the body is going with a Honduras neck, I like to use Utile mahogany. If it's a maple neck, an ash body is normally used. If you want a hard, attacking sound, then you need a dense wood like mahogany or ash, and then it depends on the colouring you want. Ash is good for a natural finish. For a cherry-red finish or a nice wood colour, mahogany is good. On fingerboards, if it's a maple neck! would use a maple fingerboard: if it's a Honduras neck, I normally use ebony for the fingerboard. I don't use rosewood very much at all."

Peter normally uses a three-piece splice on necks for sturdiness and stability. He feels this is necessary, as woods available today are mostly very unstable. "Once upon a time, you could pick a piece of wood that had been standing for ten or 15 years and it would be pretty stable. Nowadays, you can't get the quality of woods - they can still move about, so I use a three-piece splice. Then if there's a weakness somewhere along the grain, it's being reinforced by the glue lines."

In the past year, Peter has built over 20 guitars for various people, but he doesn't consider this a "colossal amount". "The custom work takes a little longer for word to get around. A lot of the people who have custom work done, initially brought round a guitar for repair - quite often a major repair - and they've seen the results and thought 'Christ, I didn't think that could be repaired'. People have come along with necks or heads broken off the guitar and have been amazed that they could be repaired.

"A guy brought along a Rickenbacker not so long ago with the head completely shattered off and thought he would have to have a new neck built for it. He couldn't believe it when I told him I could repair it. Now, that's the sort of guy who sees the results and maybe sees a guitar of mine hanging around here, and decides he wants one built. But, until word spreads around a bit, people aren't quite as happy to come along to someone like me who they may not have heard too much about.

"That's why people like John Entwistle are good for me because as soon as they know I do John's work, that gives them the confidence in me to come along for a guitar or repair. Apart from being a fantastic bass player anyway, John is a perfectionist and he likes something, then it's got to be good."



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### Screening

By Stephen Delft

If you have read some of my guitar reviews, you may have noticed references to some electric quitars which have inadequate screening (or none to speak of). It may have occurred to you that either screening is important, (in which case, how can the makers continue to sell guitars without it?), or alternatively, that screening is unnecessary (and so why do I make a fuss about it?).

It is probably fair to say that a guitar with inadequate screening will work tolerably well most of the time, and occasionally collect electrical interference and hum to annov both audience and performers. It may also suffer from uncontrollable feedback at high gain settings on your amp, and at best will always have a tendency to dilute your favourite riffs with a mixture of hum, buzz, hiss, and public service radio transmissions.

It is easy to forget that the space in which we live is nearly saturated with radio transmissions. and similar radio interference signals from motors, refrigerators, television sets, electronic lighting controls, flourescent lights, mains electricity supply cables, and even loudspeaker leads from high power amps. There are many more sources of interference, and while it can (and should be) suppressed at source, in many cases this is not done. Some equipment manufacturers find it inconveniently expensive, some equipment was made or installed before sensitive amplifiers were used by musicians, and in some cases thorough supression is virtually impossible, (for example a long temporary cable supplying several thousand watts of Theatre lighting from an S.C.R. dimmer.) In any case, 50 cycles per second radiated hum is present wherever mains electrical power is supplied, and there is little chance of suporessing that! Any reasonably sensitive amplifier, of the sort commonly used for amplifying PA, guitar, organ, etc., with a few inches of bare wire in the input socket, will nick up some of this radiated mush, and if you are unlucky, the end result will be unwanted noises from the loudspeaker. Fortunately, it was long ago discovered, that if the input wire, and anything connected to it, was put in a metal box, connected to earth, then the input was 'screened" from interference and noises. In practice, an electrical



Cavities lined with foil, note overlapping tabs

screen, Add an outer plastic sheath, to keep it all clean and protected, and you have a standard guitar lead. If you look at the jack plugs on the end of a guitar leads, you will see that the maker has gone to quite a lot of trouble to keep the input contact inside the outer screening sleeve much as possible. Better quality plugs even have a metal sleeve to enclose the small length of inner wire which is exposed to the plug terminals.

Now this may seem a bit pedestrian to some of you, but there is a point to it all. The makers of audio leads and connectors are in business to make money, and they could make a lot more money if they gave up all this business about efficient screening. (Certain cheaper coiled leads do in fact have a very rudimentary. screening braid, and if you connect one of them to a high impedance guitar amp and hold it anywhere near a mains lead, you II discover why I don't like them.)

Most reputable manufacturers have accepted that audio leads for impedance use, need thorough screening, and try to maintain this screening all the way from the amn to the input signal. Unfortunately, the input signal does not come from the jack socket on your guitar; it comes from the pickups, and there may be several inches (or even feet) of wire and assorted switches and controls between them and the jack socket. If the inside of your guitar is not screened, then all these inches or feet of wire will pick up interno longer caused unwanted ference just as well as if they were connected directly to th amp. input from (say) guitar to amp- which seems a bit silly after all lifier, needs a wire there, and a the care which has gone into wire back, and these wires must screening the lead and plugs. Of be fairly long. The screening course you will get away with it "box" evolved into a flexible tube most of the time, but good audio of fine braided wires, and also engineering, and professionalism

out wire is insulated and runs equipment works properly all the down the inside of the braiding time. (Try telling the entertainments manager of an American Aircraft Base that you can't go plate (Strat type). With Strats and on, because his lighting board is badly suppressed!)

There is another way in which your quitar can pick up hum: the power-supply transformer in some amps can radiate a fairly changes in the mains supply. If a single-coil. (non-humbucking) field within its receiving angle, then it will produce the sort of hum which changes as you turn the guitar about and is much worse as you approach whichever amp is causing the trouble. Humbucking pick-ups were originally designed to eliminate this source of hum, but if you prefer the Fender sound, for instance, there is very little you can do about this problem except stand yourself and the amp so that the hum is at a minimum, and have your own (and all nearby amps) fitted with "low external field" transformers. This applies to most Fender guitars, many Guilds and vintage Gibsons, as well as many cheap electrics, and from the performances of famous musicians it is obviously possible to beat the problem.

The problem of electro-magnetic and electrostatic interference described earlier is a more serious one, but fortunately easy to cure with nothing more complicated than a roll of strong aluminium kitchen foil and a tinof Thixofix. It is not really necessary to screen all wires individually and lining the wiring cavities in your guitar with earthed foil will work very effectively. You will need to be able to dismantle the electrics of your guitar, if possible without disconnecting any wires, and to be able acts as the return wire, and the in- in the Music Business, require that to unscrew and replace the con-

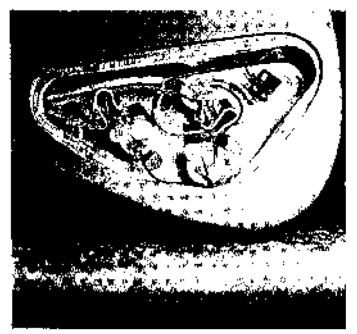
trols and switches without slipping and scarring the laquer. If you are not sure, why not experiment on a very cheap and/or broken solid guitar first?

You will also need a small cheap paint brush (about 1/4" or %", from a decorating shop), lots of old newspaper and enough table space to avoid getting Thixofix on the guitar finish or the front of the scratchplate; it doesn't come off easily and it will probably burn the surface. Solid guitars generally come with two wiring methods: either the guitar is hollowed out from the back, (Les Paul type) leaving a thin layer of wood at the front for mounting the controls, or the body is hollowed out from the front and the controls are mounted on a separate scratchsimilar copies, the screening job is relatively easy, because almost everything is mounted on the scratchplate and the wiring lies in slots, not tunnels (see photograph). This is perhaps as well, strong magnetic field which since some of the copies are not changes in strength at 50 cycles- realty screened at all. If your per second (and harmonics of this guitar has a sheet metal liner at frequency) in time with the the bottom of the wiring and pick-up recesses, and a metal lining to the scratchplate, then it is pick-up 'sees' such a magnetic probably screened well enough, if either is missing then you will need some glue and foil. If you have access to really thin copper foil, then just cut it to size, glue it in place and solder a wire between it and the screening connection on the lack socket. However, you will probably have to use aluminium cooking foil, and this is virtually impossible to solder in the usual way. The simplest way of obtaining a connection is to first line the plate on which the controls are mounted. You must remove them first and trim the foil neatly around all holes, before they are replaced. The metal body of at least one of the controls should effectively connect to the foil, and the control covers are linked to the screen tag on the jack socket, thus earthing the foil. If you now line the body recesses, leaving a small margin of foil folded over onto the front of the guitar, when the scratchplate is screwed down, both lots of foil will be pressed into contact. I know that aluminium makes poor contacts, but this very rarely fails to work, and if you do have trouble, smear a little contact oil on the opposing bits of foil and roughen them lightly with sandpaper.

To keep the gluing process under control, put plenty of glue on the inside of the cavity, wait according to the instructions and then place the pre-cut foil in

place. Do not put glue on the inside of the scratcholate, it will get in the holes and onto the front. Spread it very thinly on an oversize piece of foil, and, when tacky, press this onto the inside of the scratcholate. When everything is lined and trimmed, leave unassembled if possible for one or two days so that any surplus glue can dry thoroughly, If you ignore this, you may fix the scratchplate permanently to your guitar. To be on the safe side, continue the foil as far as all pick-ups, and above and below any wiring which is not obviously screened.

If your guitar has access to the wiring at the back, remove the coverplate and look at the wiring. If the main wiring runs to pick-ups and switches are already screened, and the inside of the controls cavity and back panel are lined with metal or metallic paint. so that the lining joins up when the back panel is fitted, then the guitar should be well screened (see photo.) If not, you should add foil where necessary, again removing the controls first. Do not disconnect any more wires than absolutely necessary: you can slit



Example of well screened control cavity - Firebird

the foil to get around wire bundles as long as it is not actually in separate pieces. In this type of guitar, be very sparing with the glue around panel holes, or you will glue the controls permanently in place.

Some guitars have combinations of these wiring methods and may need a little ingenuity. Remember that you cannot easily

reconnect two pieces of foil which have torn apart: it is easier to start again. If the leads from the pick-ups are not screened, and yet pass through tunnels in the body, disconnect them, and temporarily remove each pick-up and its attached wires. Glue a strip of foil and wind it around most of each wire bundle leaving a long tab at the controls end. If the

ends are likely to touch any other bare wires or tags, cover them with insulating tape. The long tabs can be trapped between the body and the back plate when it is replaced. This will extend the screening "box" through the holes in the body, to the pick-ups, etc.

This should give you enough ideas to cope with most instruments. If you must disconnect any wires, draw a plan of the wiring first and label any wire, both on the plan and with a numbered tape "flat", before you unsolder it. Don't try to do any part of this job without a proper working surface; if you drop a guitar halfway through, you could easily tear some of the wiring out, and ruin the pick-ups.

If your amp hums, crackles, or ticks when you touch the strings, it may be that the earthing wire to the bridge or tailpiece has broken — try duplicating it. On the other hand, if the hum stops when you touch the strings, have your amp and mains wiring checked at once — you may be the only thing which is earthing the amo!

### **NIGEL MORRIS**

featured drummer with



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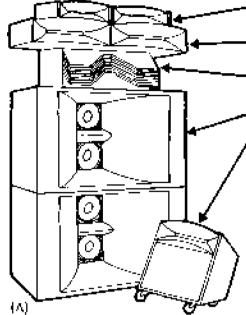
### PA SYSTEMS

When really high power levels are required for a large auditorium or outside stadium, the answer is not to stack columns, infinite baffle or reflex cabinets to the ceiling and drive them with as many 100 watt amps as can be laid hands on. All that will be achieved in most cases is acute distortion and deterioration of quality due to phase differences between the multiple amplifiers and loudspeaker units.

That was how last month's feature (part two in a series) covering loudspeaker systems concluded. If sound quality is to be maintained or (ideally) improved, the first problem must be to reduce the number of loudspeaker drive units and amplifiers to a sensible level. As increasing power is the object of the exercise, it follows that the output power in acoustic terms from each loudspeaker used must be increased substantially It is a fact of physics that doubling the amplifier power fed to a loudspeaker system will produce only three decibels of extra sound. There is also a limit to the power each loudspeaker can be made to handle. This, therefore, is not the answer. The answer is to design the loudspeaker system so that it makes better use of every watt that is fed to it - in other words, to increase the efficiency of the loudspeaker system so that for the same feed power, it will produce far more sound. Using a really efficient drive unit is a step in the right direction, but this alone will not provide a sufficient increase in sound level. It is also necessary to assist the loudspeaker unit by using a cabinet design that keeps the foudspeaker cone under supreme control and, additionally, provides further acoustic amplification of its own to further increase the sound output from the system. Such a cabinet is the horn loaded enclosure, or "bass bin", as it is usually termed. The actual efficiency of a bass bin will depend upon its design, but it can be up to ten times the efficiency of a 4 x 12 column, depending upon the size of the cabinet, the "air column length" and the units fitted. Using modern units, powers of up to 500 watts can be fed into a single 2 x 15 bin. With powers of this magnitude, coupled with the high efficiency, we are getting somewhere near the performance necessary to achieve the power levels needed. The bass bin is by no means a new development exclusive to the music industry. The cinema division of the old BTH company were manufacturing super efficient 2 x 18 bins and installing them behind cinema screens back in the 1940's, and firms like Vitavox, Altec and Westrex have long been making similar items for the cinema industry. So really, we aren't doing anything radically new, merely adapting old ideas and practices to meet today's

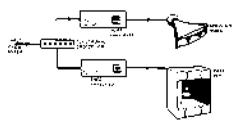
If four large 500 watt bins are stacked on each side of the platform, we have a system that will handle up to 4000 watts of bass in only eight cabinets. Provided that the crossover takes place at a frequency where the wavelength is still greater than the effective cone diameter of the separate loudspeaker units used, there will be no problems with units interacting and causing the spurious beams or distortion referred to in part two last month.

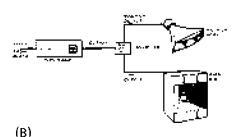
The next question must surely be — Yes, but where do we get a 500 watt treble horn to match? A good question, but fortunately, treble horns are even more efficient than bass bins, and in many cases, only a quarter of the



bass power is needed to feed the associated mid-range/trebte, so one 125 watt horn unit will usually be adequate for a 500 watt bass bin. On some of the larger rigs, it has become common practice to employ a slant-plate acoustic lense in addition to the horn unit and to cross-over a second time to feed sets of tweeter horns to reproduce the very high treble with added clarity. When this technique is used, the mid-range/trebte horn is usually selected to have good long range projection, and is used in conjunction with the acoustic lense, which directs the same part of the frequency range downwards on to the front rows of the audience, thereby providing both long and short range coverage, Fig. A shows a typical P.A. speaker stack

Crossing over from one loudspeaker system to another then becomes a major problem at these power levels, as crossover networks contain capacitors and inductances, and these components have limits in terms of maximum voltages and





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energy that they are able to handle, much like a loudspeaker. Probably more important, an "insertion loss" will inevitably result whenever a crossover unit is installed in a system, and a "passive crossover", as it is termed, will need to be a fairly complex piece of equipment to provide the precision necessary in a crossover of this type. Reference to JBL price list for a high power crossover will provide all the evidence necessary to emphasise the point!

It is usual practice today to employ electronic crossover at the output of the mixer to split the actual mixer output into its bass and treble components, and to feed these separate signals to separate amplifiers, so that the bass bins are fed from one set of amplifiers, and the mid/ treble horns from another set. There are a number of advantages to be gained from this approach. Not only are all the problems associated with passive crossovers solved, but valuable flexibility of control is provided, as the output level of bass and treble can be separately controlled from the mixer. Also, the dynamic range of each amplifier is improved, as it only has to handle its own part of the frequency range, resulting in more power and an improved transient response from each amplifier. This technique is generally known as "biamplification". Fig. B shows a block diagram of both passive and electronic crossover systems. On some of the really large P.A. rigs, threeway electronic crossover is employed, where the mixer output is split into low, mid, and high frequency components and fed through three sets of amplifiers to bass bins, combinations of mid range horns and acoustic lenses, and high frequency radiators. So much then for the loudspeaker system for the audience. But with so much noise being made on stage from amplifier stacks delivering hundreds of watts, and some guy thrashing hell out of a set of skins and cymbals, it is necessary to provide a further set of loudspeakers on stage for the benefit of the band itself so that each musician can hear what the others are doing, and stay with them. This is known as the foldback system and consists of two or more powerful loudspeakers fed via a separate foldback amplifler from a separate mix on the mixer and separate equalisation or tone controls. Often, talkback is also provided, to enable the guy at the mixing desk to give instructions to the band from a microphone feeding through the foldback amplifier and loudspeakers. The loudspeaker systems used for foldback usually consist of reflex or infinite baffle bass sections, with a really good mid/ treble horn fed through a first class passive crossover. Hundreds of watts can be, and are used for foldback on a wellengineered sound rig before feedback dictates the ceiling level.





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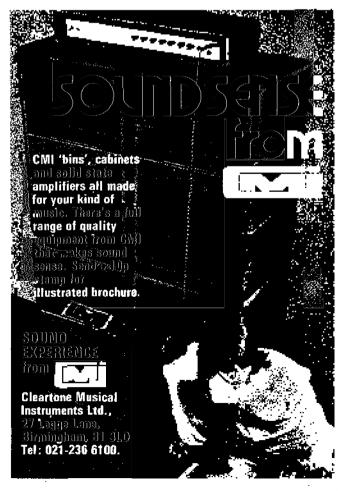
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### Queen: A Night At The Opera. EMI EMTC 103

After "Killer Queen", I couldn't imagine Queen capable of bettering that amazing single. That is, until "Bohemian Rhapsody" was released. I also thought Sheer Heart Attack unsurpassable until A Night At The Opera came along. Quite frankly, it's frightening. The care, the attention to detail, and the very imaginitive arrangements have resulted in what must surely be the album of the year. Don't be mislead by the title - it's neither a rock-opera not a concept album, but simply a collection of great songs, all performed with (seeming) ease and (definite) dexterity. The album kicks off with a Freddie Mercury song "Death On Two Legs" - a bitter, aggressive number with Brian May's guitar punctuating particularly nasty lyrics. The mood changes instantly with "Lazing On A Sunday Afternoon" which features a thick backdrop of vocal harmonies behind a megaphone lead vocal effect, This in turn leads straight into "I'm In-Love With My Car", written and sung by Roger Taylor with very clever doubleentendre lyrics and spine-tingling guitar lines. "You're My Best Friend" follows, and features bassist John Deacon playing electric piano on a number very reminiscent of early Miracles. Brian May takes lead vocals on "39", a very metodic song with little more than acoustic guitar, and double bass in the backing, and an Eagles-like harmony on the chorus. "Sweet Lady" is very heavy Queen, with power chords and bass riffs creating a wall of sound before they break into a swing tempo at the end of the number for a furious guitar solo. "Seaside Rendevous" is a camp, 'twentiesstyle number with brass and woodwind vocal effects, in a way the "Leroy Brown" of the album, A longish track, "The Prophet's Song" sustains interest throughout. Penned by May, it is destined to be a classic Queen number with excellent lyrics, good melody and an intricate repeat echo effect on the vocals halfway through the track. Mercury's slow, ballady "Love Of My Life" comes next, followed by 'Good Company' written by May and again excelling lyrically. The album's penultimate track is the brilliant "Bohemian Rhapsody" of which enough has already been said; further comment on an album review is superfluous. The album finishes with the fifty guitars of Brian May doing "God Save The Queen" and I certainly endorse that plea.

Sarm, Recorded at Roundhouse, Olympic, Rockfield, Scorpio and Lansdowne Studios. Produced by Roy Baker and Queen, engineered by Mike Stone. Eamonn Percival



### Solution: Cordon Bleu. Rocket. OC062 97136

Gus Dudgeon's new Rocket offering, Dutch band Solution are going to become international giants before this year is out. Their music is so tight and melodic it's a joy and the audience that accepted the music of Chicago and Blood. Sweat and Tears will love this as a natural progression. Solution are actually tighter in a small group way than either of those American bands. Their music is inventive within a deliberately defined framework that finally offers more by virtue of that fact. The standard line-up is sax, keyboards, drums, bass/guitar. Great importance is attached to the instrumental ability of the band on this album and vocals. - mainly by bass player Guus Willemse - are pushed to the background. That doesn't leave the listener unsatisfied, however, as the band never relapse into "stone" music but are continually pushing ahead, offering counter rhythms and improvisation against their main theme. At no time are they self indulgent, however, and they are mature musicians who have lived through the ego-trip of recently accepted music who plays music beyond the listener's acceptance limits. Because they're new to British audiences they've been huge on the Continent for several years - it's necessary to make some comparison and perhaps in addition to comparing them to Chicago for tightness - in no way can their msuic types be compared - one might refer to such artists as Deodato and Focus which only really serves to illustrate the difficulties of comparison. Every instrument played on this album - and there are many - is played by a master (only one session man is used) and the production is just as you would imagine from Gus Dudgeon.

Recorded at Rock field engineered by Pat Moran Phil Dunne; remixed at Marquee with Steve Holroyd and Gus Dudgeon working the board. Ray Hammond

### Uriah Heep: The Best of . . . Bronze ILPS 9375

Well, they could hardly title it Greatest Hits. Sadly, Heep have yet to score in theusingles stakes, although they have released some excellent 45's. Their album sales say it all. All too often slagged by the press, Heep are a GOOD heavy band and this album presents a selection of material taken from eight of their previous albums, all thoughtfully laid out in chronological order. Starting with "Gypsy" from the Very 'Eavy album and finishing with the title track of Return To Fantasy, one can trace the musical and aesthetic progression of the band over the years. Outstanding cuts include "July Morning" (from Look At Yourself) and the powerful "Easy Livin" (from Demons And Wizards) and my only beef is that I would have preferred the title track "Wonderworld" rather than "Suicidal Man". Tastefully packaged, it's a very valid album for firsttime Heep listeners.

Recorded at Lansdowne, d'Herouville and Musicland Studios, Produced by Gerry Bron and engineered by Peter Gallen.

Eamonn Percival

### Ace: Time For Another, Anchor ANCL 2013.

A beautiful album; country rock so rich and so tight that it's difficult to accept that this is only their second album and that Ace have not yet been acclaimed by the (British) public and media as they deserve to be. Ace gig furiously and incessantly both here and in the States (where they seem to be appreciated). The result is a band whose components make up the whole without any problems of integration. Their instrumental and vocal harmonies jigsaw together so smoothly that it's hard to distinguish the individual talents of each member with the result that Ace come across as a very united whole. Ace are English but there's a strong, yet unpretentious, American influence apparent in everything they do. Vaguely reminiscent of The Grateful Dead, in the best possible way: That sort of American, They've recently returned from a successful tour in the States and have now made their first positive break away from the British pub/college circuit. Their music is fundamentally relaxing, sometimes with sad song themes, but always with a strong and rhythmic enough percussive (Fran-Byrne) undercurrent to avoid melancholy. Rusty Young contributes steel guitar on "Does It Hurt You"; apart from that, minimum use has been made of studio advantages. On stage their music is exciting and refreshing and the studio hasn't suppressed any of the atmosphere they generate live. Bam King, guitars and vocals; Paul Carrack, keyboards and vocals; Tex Comer, bass and vocals; Phil Harris, guitars and vocals, Eran Byrne: drums and percussion.

Recorded at Rockfield and Advision. Produced by John Anthony, engineered by Ted Sharp.

Elaine Cooper

### Spud: The Happy Handful, Philips 9108 003

Philips? I thought the label was dead. Superceded almost everywhere by Phonogram, this Philips record furthers the career of Dublin band Spud. It's a bit like an Irish Fairport, an electric band with fiddle and that sort of thing: the reason the album graces these pages is that the band are suprisingly good. Eire has a group scene healthy beyond the wildest dream of a British M1 starved grouple and Spud are certainly a fine product for the export market. They've married Irish traditional music to electric guitars and basses (drums still don't figure in the line-up but it's early days yet) and managed to evolve a unique sound. The band are good in their own right as musicians. They play well and very tightly and lead singer and guitarist Austin Kenny has a voice that might belong in the Ian Campbell Folk Group. Some delightfully unusual instruments like recorder and Jew's harp are used to great effect in the recording and as well as delighting every young expatriate Irishman, the band could develop into an international identity

Recorded at Sound Techniques, London and Dublin Sound, engineered by Simon Nicol and Pat Morley; produced by Simon Nicol.

**Bay Hammond** 

### Pedals for '76 Eamonn Percival talks to Larry Macari



Larry Macari

For more than ten years, Larry Macari has been spearheading the production of quality effects pedals. In the mid 'sixties, The Yardbirds released a single called "Heart Full Of Soul" featuring a young guitarist called Jeff Beck. The guitar sound immediately enraptured all the hundreds of Telecaster-toters who were looking for a distorted, fuzzy sustained tone which they couldn't previously get. Beck had used an invention called a Tonebender to get that much sought-after sound. It was a lightweight pedal linked between guitar and amplifier, which produced a flat-topped wave of sound as opposed to a symmetrical one. The guitarist of the day could pull amazing sounds from the pedal just by stomping on the switch. He could also pre-set the amount of distortion required via a rotary control on the Tonebender, From here, things moved very rapidly. One of the big groups of the 'sixties - Dave Dee, Dozy, Beaky, Mick and Tich - scored with a single called "Hold Tight", which also featured a Tonebender, and a host of other bands soon followed suit.

The wah-wah pedal followed soon after. This was basically a tone-filter operated by a foot pedal. As the pedal was pushed down, the treble or, in some cases, the bass was boosted, giving a "crying effect". The next important innovation must have been the phase pedal. This was introduced after the success and subsequent demand for the sound achieved on The Small Faces "Itchycoo Park" single. The phasing sound was actually produced in a studio by running two identical tapes together, but slightly out of synchronisation with each other.

The Tonebender is still available in the Colorsound range and in fact Gary Hurst, the man who designed the original, is working with Larry Macari on the design side of Colorsound. Colorsound now market. many variations of fuzz, phase, wah-wah, swell or virtually any thing required, and although they are a relatively small company, export to more countries than any other firm. Colorsound will be introducing a number of new effects units at the Frankfurt Trade Fair next month and Larry explained "We're now trying to aim more at the professional market. When we started ten years ago, we really wanted to give the kids a chance to spend about a tenner and get something near a recording sound or the sound they heard on records at the time. We were very successful with our pedals, and we were and still are very cost-conscious. Our pedals were good quality, very light weight and extremely durable and so far, we've managed to keep the stuff right down in price. We decided, over the past year, that there has been a demand for the more professional type of pedal, but still inexpensive.

"We've been very lucky. We've been producing the sounds the groups want, and now export is our thing. We export to places like South America which, up till now, have been impossible to get through to. We also deal a lot behind the Iron Curtain, which speaks for itself. After ten years of doing effects pedals, we feel we're 'growing up' and so we'll be introducing a rather exciting range of effects at Frankfurt. We've really got a heavy, professional job in mind.

"For one thing, we're going to be marketing effects units that are mains driven, because we've found that roadies hate battery changing. They will be able to be changed to 110 volts as well, because a lot of the bands take them to the States for tours and things."

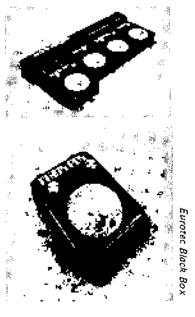
One of the new items will be the Eurotec Black Box, Larry explained. "It's a complete modular systems of sound effects, and it's the first time it's been done. It's like a control centre, and a guy can plug in as many effects as he likes. I personally think they're going to revolutionise the whole effects scene. This time next year, I think the whole effects department will have changed completely."

Other new lines include a fuzz pedal with phasing built-in, a new sustain unit, a new phaser and a form of "mini-phase" called the Eurotec Micro Phase. The new units will also have a "facelift." "We're going Jumbo", explained Larry. "We're restyling all our old stuff as well. Generally they will be a bit bigger and more sturdy. We're also working a lot on eliminating breakdowns. We'll be restyling the whole pedal so it works much better and will be heavier and more robust.

When you decide to do a really professional job, then you can use better components. Another point is that you can't run a specific line for too long, as it can become outdated. With new and better components coming along all the time, you've got to constantly update things."

New ideas and designs for Colorsound come from a wide variety of sources and Larry is always keen to pick up on new innovations. 'We'll listen to anyone's ideas, he explained. "In fact, our Supaphase unit was designed by EMS. We have four regulars on development and design, but we'll go outside for ideas as well. I'd like to stress that we're always open to either buy ideas or to sell on a royalty basis."

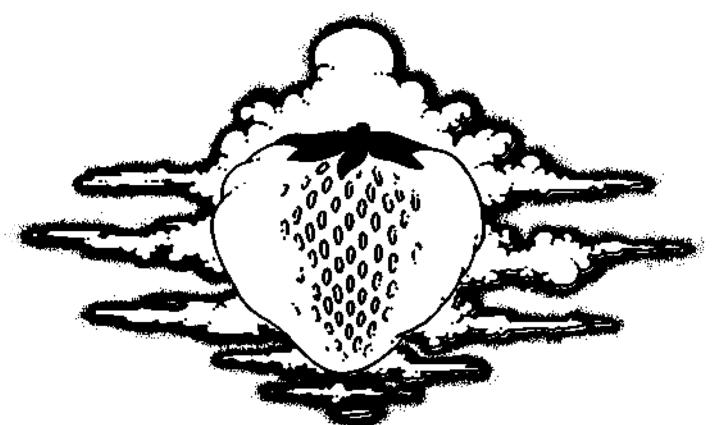
Larry explains that his success with effects units is due to the fact that he is closely in touch with the needs of today's musicians. "I'm out to make money just like anyone else in business," he said, "but I've always been potty about sound and it gives me a real kick to hear an effect that is commercial and that you know people are going to





A small portion of the Colorsound range





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In a less than salubrious part of Stockport, a sign over a doorway reads "Strawberry Recording Studios" but the austere surroundings belie the comparative internal splendour of Strawberry. The studio started in 1969 as a modest four-track operation.

Before that, 10cc's Eric Stewart and Strawherry's Pete Tattersall had a small demostudio. until Graham Gouldman (also of 10cc) joined the partners and they decided to "do it properly". Their policy of "doing it properly" has culminated in the recent updating of the studio from 16 to 24 track. The decor and layout of the control room has also just been re-

designed by Westlake Audio.

Pride of place in the control room is taken by a beautiful custom-built Helios 26-channel, 24-track console. Its layout was designed by Pete and Eric, and the electronics by Dick Swettenham of Helios. The desk seems to have everything on it and, more important, just where you want it. All the controls are within arm's reach, as the desk is angled round in a semi-circle. It even has a built-in cigarette lighter because, as Pete says, "If it's four in the morning and nobody has any matches, where do you get a light?". There are two Studer A80's and a B62 plus a 24-track Studer set into a recess in the walf. Additional extras include a Cooper time-cube, Aengus EQ unit, full Dolby system and EMT stereo echo plates.

The studio itself measures 42' x 30' and includes a large vocal booth. There is also direct access to the studio via a goods lift, so loading problems are minimal. Pete describes 1975 as very busy. "Last year was excellent. We've got bookings right into '76, which is great because we only went 24-track in summer, when 10cc recorded their last album. Now we've had the control room done, we're 'officially' 24track."

Pete is very pleased with the way the control room has turned out, "We wanted to get the perfect room when we went 24 track. I'd seen a lot of Westlake rooms and thought they had incredible ideas. They're so advanced in studio design. The decor was pretty good as

it was, but it doesn't compare to the finished result now." That last statement certainly rings true when you look round the control room. Half of the walls and the door are covered in tree bank on conk, and the front walls are chunky brickwork, giving the room the appearance of a Swiss Chalet. Set into the wall at either side of the window are two giant Westlake monitors, which are driven by Crown DC300A amplifiers.

"The only thing you can go on is your ears," said Pete, "and when we switched on the monitors, 1 thought 'Jesus!', I'm told, as a Westlake room, it's very good. Apparently, we're only ½ dB short of an ideal listening situation. If you put mono through two speakers, you should, theoretically, get a 6dB rise in level at Central Listening Position. Our rise was 5%dB and I'm told Westlake haven't yet achieved a 6dB rise anywhere. I'm well pleased with it."

Visitors to Strawberry have included 10cc, Neil Sedaka, Paul McCartney, Mike McGear, Scaffold and big bands like The Million Airs and the Syd Lawrence Orchestra. "It's great doing big bands," Pete enthused, "The day before we closed for renovations, we did a thing with a big band for EMI and they recorded it in straight stereo - the first time I'd done that for years. You use a multi-mike technique and everything comes through at once, but it turned out great. You get more involved with the thing when you're recording a group because you see it all being built up from start to finish, but at the same time, it's good doing big bands because it's all happening at once, apart from where they overdub various solos."

Most of the vocals and mix on the Bay City Rollers' Once Upon A Star album was done at Strawberry and, according to Pete, they were 'The nicest guys to work with on that session. There were no temperaments or hassles. In fact, each of them took turns to make coffee throughout the session. Neil Sedaka was great to work with as well, He's tremendous. Such a professional."

continued on page 54

## **Strawberry Studios**

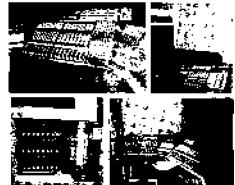
### Strawberry Studios from Page 53

and Graham, 10cc are among his favourite bands. "They're tremendously talented guys. They take the trouble and time to get things just right. What I like about their writing is that the words make sense even without the music, which in itself is great."

The success of a studio, according to Pete, is all down to atmosphere. "It's vitally important," he stresses, "and that should include the people involved in the studio. The engineers have got to be friendly and helpful, and good equipment helps as well. Although even if you have all the best gear but no atmosphere, it wouldn't work,"

Pete is working on plans at the moment to offer a "package deal" to bands. "We're in the planning stages of it at the moment," he ex-plained, "I'm in touch with various hotels and country clubs locally, so we'll be able to eventually offer a recording and accommodation situation to bands who perhaps want to come in for a month to do an album."

With the completion of the control room, I wondered what future plans Pete had for Strawberry, "Well, we'll always be constantly adding to our equipment. We have parametric EQ on part of the desk, and I may extend that. We won't be going quad. At least, not until the quad situation is sorted out. The other thing is that we're currently looking at automation computer mixing. There are a few on the market, but it won't be in the immediate future."



As far as extending or enlarging the premises, Pete told me "There are a lot of possibilities. We have the use of the basement, which houses a workshop and echo plates at the moment. We also have options on the floors above so we could make use of that, There's some land next door as well, so we could even go sideways. There's enough room all round really to build on to the studio. We're contemplating building a large echo chamber.

"Now we've finished the control room, we may re-do the studio. It's being discussed at the moment. Even as it is now, it goes well with the control room, and it's comfortable and has a nice sound."





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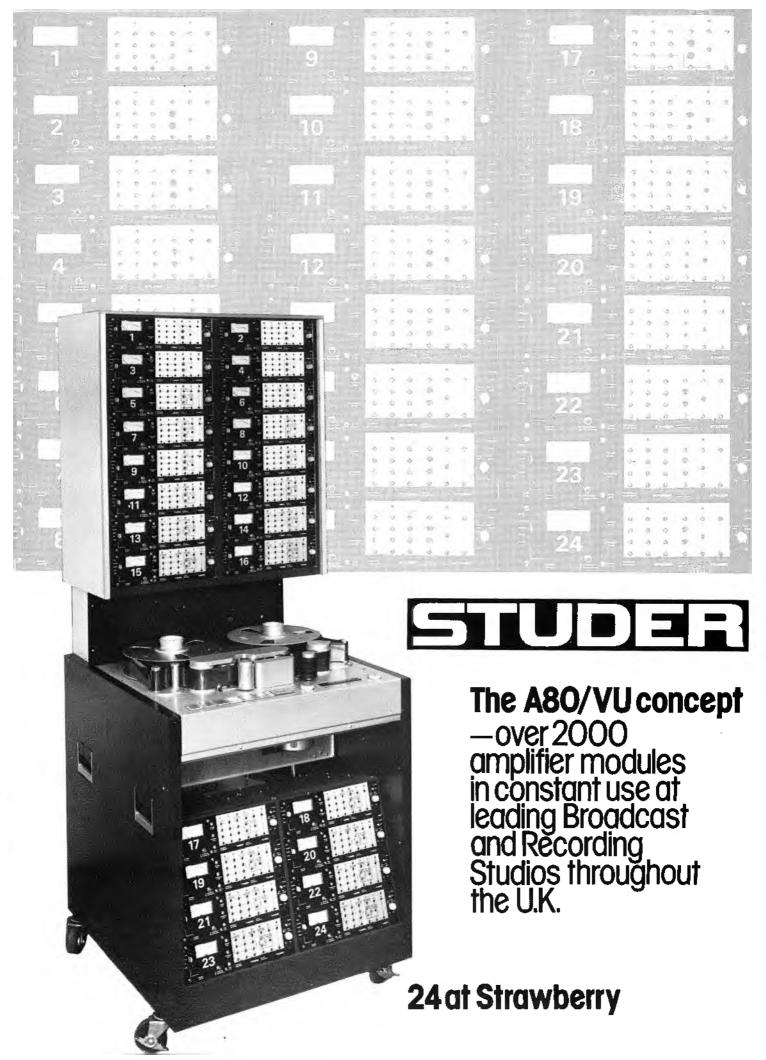
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Manchester is the most important cotton city in the World, Over half a million people live in the area and a high percentage of them make music. The city grew rapidly in the 18th and 19th centuries and in addition to the Manchester Ship Canal, another growth factor was the city's fortunate setting on the rivers Irwell, Irk and Tib.

You can still smell that prosperity in the city today. Yes, there are still uncleared bomb sites, but there's an enormous new building movement continuing in the city which includes the much vaunted Arnedale Shopping Complex which will be the biggest enclosed shopping area in Europe when it opens in a couple of months.

The music scene in Manchester hasn't slowed down since Herman and the Hermits first gave the town a musical identity. 10cc carry on the tradition - there've been countless bands in between. of course - and the band its certainly one of the most musical and most respected in the world. At the other end of the scale, Manchester is the home of the Halle Orchestra and the Free Trade Hall is a traditional venue for the finest music, Slightly more subtle, but perhaps even more relevant, The Guardian originated from the city and has done much to shape its external image.

Music in Manchester is big business. There's Granada television — progenitor of such rock classics as Disco 45 — and Piccadilly Radio to represent the dreams and there's shops, studios, manufacturers and agents galore to service the aspiring musician. In this, the second of our regional Buzzes, we take a look at what's happening, musically, in Manchester

Amek represents all that is good about free enterprise. Two lads are having a go and the results they are achieving have made their second anniversary celebrations extremely relevant.

Readers of International Musician are already familiar with the fine range of Amek mixers that have caught the market's attention in the last year, but the story behind Amek goes back to the school days of Nick Franks and Graham Langley, They're both natives of Stockport in Greater Manchester and just over two years ago they got together to start manufacturing.

At college age, the school friends separated — Graham to go to the Bolton Institute of Technology and then on to be a design engineer for Audio Developments, and Nick to Manchester University from which he graduated with a degree in politics in 1973,

A short spell mending motorways convinced Nick of the need for ambition, and after a meeting, the old friends decided to combine Nick's musical knowledge with Graham's technical knowledge and produce mixers.

The first Amek product to see the light of day was a small solid-state six channel mixer with independent gain and little else. Today, the company can produce studio desks with 16 output channels and up to 24 input channels and they're still knocking out the six channel jobs when required. The 24 in 16 out jobs can be delivered in 12 weeks and the smaller desks in proportionately shorter times.

Other Amek products like electronic crossover units can now be found and the company is planning a series of graphic equal-

isers and digital effects units.

Amek's market is a combination of recording studios and groups and the company is prepared to adapt their desks to indiv-

idual needs. The Amek production line is becoming highly organised. An outside metal working company has taken the construction of mixer cases off the company's back and this leaves Graham and Nick free to work on marketing, design and electronic construction,

Gong have been using an Amek board for some time and have been so pleased with the results that they have influenced a major French recording studio to re-equip with an Amek desk. Shapes of things to come?

Plug into a  $4 \times 12$  cabinet, or a  $2 \times 12$ , or a  $4 \times 10$ , or a bass bin and it's an even money bet that the shell has been made by Leech.

Leech are one of those companies that musicians never hear of but who are the life blood of the industry. Leech are cabinet makers — nothing else. Most amp makers have discovered that a specialist cabinet maker can do a better and cheaper job than they can and so give their requirements to Leech who obligingly knock out a couple of hundred cabs from the finest materials in a few days — or hours, or weeks, depending on the conditions prevailing at the time.

Leech is tucked away in a back street in Salford, an area that once had its own identity but now is merely a place up the road from Old Trafford. Unusually, all the lads putting the cabs together are, or were, musicians and the difference this makes to the jobs turned out is a principal factor is the Leech success story.

Started only two years ago, the company today have all the work they want in the U.K. Even the largest amp builders were not slow to realise the potential that Leech could offer their business and it is true to say that a high percentage of cabinets on sale in Britain today originated in

the Leech workshop.

Leech is the project of Dave Slinn. Keith Whittaker and Joe Olenski, all Manchester boys who've been through the musicians mill. Dave looks after the selling, Keith attends to production and Joe administers the whole show. This partnership grew out of the group days, Joe had been making his cabinets for years, so the friends decided to go into the business properly.

"Lots of our lads here work part time for us at first," explained Dave. "They're working in a band and they come to us to learn about cabinet making and before long they've signed on full time with us. Quite a few of our staff came that way."

Dave puts in about 70 hours a week and at this stage in the game, his fellow directors and most of the staff do the same. It's that kind of hard work that has established Leech so quickly.

Exports are now the biggest thing ahead for the company. So Dave loads up a truck, climbs in and takes his cabinets to Europe. Orders are coming in because even after the cost of shipping. Leech, can turn out a better cabinet at a better price than the European competition.

"We've got our own truck and we do all our own export documentation," explained Dave. "We've actually been doing a bit of export for some other companies — taking a few amps across and that sort of thing. In that way, we can do some of our customers a favour."

The new year brings a move of premises for Leech. Expansion creates its own problems, but this kind of rapid success makes mockery of people who put down effort with words like "recession" and "economic climate."

continued on page 58





account executive with a client requiring sound advertising will pass a brief over to Pluto who will then write the jingle, the voice over and complete production and return it as a finished tape to the agency. Their success in this field has meant that the company has been able to continue to improve their studio at a steady rate. Because of this, the studio has been able to accept full music sessions from outside clients.

Success has been such that plans are being laid for the studio to move to larger premises later this year.

Current rates in the studio are eight-track, £12 an hour and stereo £10 an hour.

Tyas celebrated its third birthday last month. But Dave Tyas didn't celebrate, in fact, the event came and went without notice really because the company's so busy. Celebrations were saved until Christmas.

Situated a few miles outside the City Centre in Oldham. Tyas started out dealing principally in lighting units and associated items such as sound to light units. The firm also built some sound equipment as a sideline and today that side of the industry has become of major importance to them.

After dropping out of college in Newcastle, Dave Tyas concentrated on building lighting units for the infant lighting industry as it was six years ago. When he established Tyas, he had learned a considerable amount about the requirements of professional users and he quickly gained sub-contract to the Rank organisation to install major theatre sound and lighting systems. The result is a range of equipment that spans from a major sound system to a little disco light unit.

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A. The Mamelok shop

B.Graham und Ann Mellor of A1

C. Indigo's Dave Rohl

D. Fantasy

E. Graham Langley and Nick Franks of Amek

F. The Leech gang, Dave Slinn far right

G. Nigel Briggs and Terry Smith of Tony Saville.





"Our business was really founded during the 'twenties and 'thirties," says Bob. "So when people complain about the recession, I think it's really funny. If you can build up a business during the 'twenties and 'thirties, you'll manage any time."

The staff at Mamelok are encouraged to handle all types of sales, although they are specialist instrumentalists themselves. The manager is Harry Jones; he's a drummer and organist Peter Bind and guitarist John Blackledge make up the staff rota.

You can buy brass in Mameloks. "I stubbornly refuse to give up the brass showcase," said Bob. "There's lots of things I could use the space for but who knows when brass insruments are going to get really popular again."

Another specialist item is the accordion section of the shop. It's a hangover from pre-war music crazes, but because of their range, accordions sell in steady numbers.

There's a heavy second-hand stock at Mamelok because the shop try hard to get only the best used equipment, but it's hard to spot the old amongst the new: only the price is the give away. Other lines stocked in the shop include accessories, keyboards

(mostly portable), sheet music, tutors and general educational instruments.

A.1, is amazing, At first sight it's an un-prepossessing corner shop just on Oxford Street near the city centre. You'd say it's 8ft by 15ft and as you edge through the door between the piles of HH amps and Martin guitars you're aware of hoards of people occupying the little gangway that exists in front of the counter, behind which musical Graham Mellor and his vivacious wife Ann face the world,

People are continually coming into the little shop and it's only after a while that the first time visitor realises that people are continuing to arrive but the shop gets no fuller. Customers keep vanishing through a hole in the floor. Inspection reveals impossible steps leading into blackness. Courageous negotiation reveals a passage below which hold the promise of light at the end of the tunnel. At the end you emerge into a warren of workshops and cellars which sport displays four or five times as large as the shop and 40 feet below it.

Down here there's a hushed reverence for the stocks of amps and guitars that line the wall. Occasionally the silence is broken

by the hard clang of an HH or the slick sound of a Fender Dual showman as the visitors who have slid: down into the depths from the innocent looking shop above ground level try something out. Even stranger is the staircase that leads down from the basement to a subterranean chamber that houses drums, and more drums in old cellars that may once have been an abattoir but were certainly in use during the 18th century for storage. Here there are drum kits, disco units and associated equipment and beyond these deep recesses is a double door that opens into a huge warehouse currently used for stock storage.

A1 is certainly far more than it seems, it's a meeting place for bands and a certain bet for anyone who wants to lay hands on second-hand gear. The shop has the Martin guitar agency and it's the only place for miles around that these exotic guitars can be found. The HH franchise is another major plug in A1's favour and bands come from miles away just to try out the guitars and equipment.

The shop started over 10 years ago with the princely capital sum of £14. Graham had been working as a guitarist in a C. & W. band for some time and opening the shop seemed a good way to escape the syndrome. His wife Ann didn't join the business until 1967 when the shop moved into their present premises. They started just selling accessories because of a lack of capital but rapidly built up to greater things.

Ann is unique in that she handles the technical side of her business as ably as any male could. She admits that there was a problem at first. "Groups would come in and when I appeared they'd ask for Graham," she re-

called. "I realised that the only thing they'd respect is knowledge so I learned as much as I could from Graham about the technical background to the stuff. Today I think I probably know as much about amps and similar equipment as any group."

Ann's now very popular in the shop. She regularly looks after the servicing requirements and general sales and has carved her own niche in the male bastion of the music business.

One Fine Morning are a Manchester band who know A1 inside out. The main reason is that leader Brian Webb and keyboard player Nigel Gass work in the store in an effort to supplement the kind of living a harmony band expect from the area.

They've been together two and a half years and in that time have built up a repertoire that includes a great deal of original material. The band's got a huge line-up, with a vocal front line of two girl singers and four male. singers. Personnel is Brian Webb, 12 string guitar and vocals; Nigel Gass, keyboard and vocals; Stuart Stead, drums; John Cuntiffe, bass and vocals; Martin Handley, lead guitar, flute and vocals; Angela McKeever, vocals and percussion and Bernadette Moran, vocals and percussion.

Up until now the band have found their work mainly in the working mens clubs and cabaret gigs but they're slowly beginning to break into the college circuit. They've a female manager, Beryl Davis, who looks after the business side of things for them.

Four members of the band write material and they've gained valuable broadcasting recording experience at Radio Piccadilly. A K registered Ford Transit is needed to ship them and the gear about, but they have to load 2½ tons of gear in it, well above the weight for which it was designed.

Rehearsals are held once a week and a lack of suitable rehearsal venues is a continuing problem. The reason they stick together? "There's a spark in the band, we all love being on stage and when we're together, it all works."

You learn a lot over the years when you're on the road with groups. Apart from learning how keen people are to con you, you also learn a lot about the technical side of things — you have to, if you're going to rely on your equipment night after night. The problem is how to make use of that knowledge when you're tired of bad food and life on the road. Clern Lee has found the answer.

Clem was a pro musician for 15 years and you learn a great deal in that time. Today he's converted his knowledge, energy and enthusiasim for music into his own project, Countdown Studios, by the old Smithfield Market near Piccadilly.

"During the years I was on the road I reckon I must have worked in every decent studio in this country — Advision, Lanscontinued on page 60 from page 61

As manager Ken Heald explained, "We weren't entirely happy with the location of this shop because it's on a busy corner and it's difficult to park near by. We opened 18 months ago and it took a while for the shop to become known, but now I'm not so sure that it's a bad position. Things have been good this year."

The head office of the Dawson chain is in Warrington and the company has a history going back over 80 years. Other branches exist in Warrington and Wigan, and Dawson's are the kind of company who research an area carefully before trying their luck.

"When we arrived, the only thing we didn't know was what lines were going to prove popular. We stocked a bit of everything and waited to see. Now we've got a balance of stock that is about equal between keyboards and drums."

Keyboards form a major part of the whole Dawson's operation. Some fine lines are stocked in Stockport and these include console models and portables by Lowrey, Conn, Yamaha, Gulbransen, Farfisa, National and Moog. In amplification, Dawson's are fortunate in having an HH agency and they sell an enormous number of these fine amps. In recent months, the company have noticed Carlsbro selling extremely well and the new Marshall transistor amps have also being leaving the shop regularly.

Other amp lines stocked in the large and spacious showroom — the shop was originally three small units which have been modernised and knocked together — include Fender, Simms-Watts, Sound City, Elgen, and WEM.

An equally wide range of guitars is displayed. The expensive Gibsons and Fenders are freely available for trial and there's a wide range of acoustics in the cheaper price ranges.

There's a large accessory counter and a wide range of Premier spares are carried — a few drum kits are on show — and there's quite a bit of educational stuff available. There's several makes of microphones displayed — Shure, Calrec, AKG and Reslo — and the general impression is of a very well stocked shop.

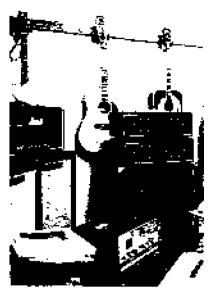
Most people open a recording studio and that is the end of the affair. They sit back in their swivel chair on the mixing dias, smile benignly at their massive capital investment and wait for the business to arrive. That's why so many of them see their equipment ending up in the second-hand equipment lists published by Malcolm Jackson.

The Pluto Studio in Stockport was formed as a tool to aid the business of two local lads, Malcolm Rowe and Keith Hopwood: Ex-group members in and around the City, the two teamed up together to form a music writing company harnessing their creative abilities to the requirements of the media.

To deliver their art, Pluto studios was set up in 1968 and Keith and Malcolm concentrated on developing their contacts in the advertising world. Today Pluto is busy turning out complete jingles and commercials for clients from all over Britain.

"We're not really a public studio," explained Malcolm. "It's only recently that we've started taking in outside recording work and that side of things has started to develop very quickly."

Pluto is situated in a large building in Stockport (above Strawberry Studios; see elsewhere



Dawson's amp corner

in this issue). It operates independently of big 24-track Strawberry downstairs and offers eight-track recording on an Ampex machine which gets its mix from a Sound Techniques desk.

The engineer is Ray Buckley and his work is very varied because of the mixture of ad jingles and usual group recording.

Pluto work by offering an ad agency a complete package. An

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72 Gartside Street Manchester M3 3EL 061-834 7001/2

Getting out from under is one of the prime motivations of the music making industry. Music attracts the independent type, but Indigo's Dave Kent-Watson had to wait a few years for his chance.

Indigo is the best equipped studio in the City Centre. It's a 16 track affair which has grown rapidly in the last few years and today handles a variety of work for Granada Television, commercial radio and top bands making masters. The studio still undertakes the kind of demo work they started out on, but because of the equipment installation, prices are not the lowest.

D.K.-T. is an ex-Beeb man need we say more? After an adolescence dominated by making Ferr -ographi recordings of local jazz and classical concerts in his rather c(C)onservative home town of Portsmouth, he entered the BBC to learn their way of balance engineering. A few years of noisy valves and Dave was ready for better things. During his stay with Auntie, he met Bob Auger, a fellow sound man who later idined him in a move to Granada Television and thus also into Indiao.

Granada was Dave's reason for coming to Manchester. Everything agreed with him when he moved. His childhood asthma vanished with the marginally damper climate and, co-incidentally, work conditions improved, with Granada TV offering such exciting opportunities as the mixing of current affairs programmes and Disco 45. The lot of a sound man in television is, however, a hard one.

"If an actor fluffs, they'll re-shoot. If a camera fluffs, they'll re-shoot, but there's no second chance for the soundman." Who knows how many missed cues, how many duff mikes, how many level drops were born to produce that remark.

But from adversity came tranquility. Well, not exactly; rather the opposite, actually. For two years, Dave and Bob plotted the start of their own studio. They had everything but money, A recent issue of *Hot Flash* Manchester's only alternative paper — claimed that Peter Adamson (Len Fairclough) supplied some dough, but wherever it came from, Indigo started.

The studio has seeped through a Georgian building that stands defiantly in the path of a planned inner ring road. Look along a North-South line in Gartside Street and you can see a space that wanders between the new buildings of the city, an area about the width a new road would need that has been left fallow by the developers. In the middle is Indigo.

A 16 track studio, Indigo has everything except a Dolby system and the desk is a fine Sound Techniques desk with a 16 out facility. Monitoring is by JBL and in: Studio One it's possible to record 25 musicians whilst Studio Two is more suitable for a small group.



One control room serves both studios and sound proofing is sufficiently good to allow Studio One to be used for rehearsals whilst Studio Two is recording.

Studio rates are £19 an hour, but a special deal the studio offers to groups is a three hour session for £60, including all tape charges except the copy the band take away. This means that the very expensive multi-track tape is used free of charge.

Perhaps it's no accident that the Tony Saville Music Centre is just two doors away from Scrivens Hearing Aids — Saville sell some mighty heavy gear.

The shop started out two years ago last month, Tony Saville and Terry Smith, both exmusicians, stock a highly specialised kind of hardware, although things didn't start that way.

"When we first started, we were doing a bit of everything," explained Terry, "but over the first year we found out the kind of thing the customers wanted and we've been steered into very much a hard group shop."

The small shop is stacked high with almost every conceivable make of amp and guitars. Very few keyboards or percussion is on show purely because of a space problem. Amp lines on show include Peavey, Fender, Carlsbro, Marshall, and most of the standard ranges. Most of the stuff on show is new, as the high demand for second-hand equipment has led to a drying up and most turnover is now in the new area.

"If we get a good used amp in it is usually out inside 24 hours. People are always keen on good second-hand equipment and our problem is that we just can't get enough of it."

Some of the more elaborate pro gear can usually be found in the Saville shop. There's usually two or three mixers on display and there's a nice range of Saville bins which are available at very competitive prices.

The guitars on display represent an unusually comprehensive cross section of the industry and of special interest during our visit was a black 1958 Les Paul custom which Terry had just hung on the wall. A guy just walked in off the street and sold it to the shop. The price Saville's had on it was round £600.

GSG guitars sell well in this shop as they do in many shops throughout the Manchester area. The GSG stands for Gordon Smith Guitars, although that is a corporate name for a small company that turns out hand finished guitars in Manchester. The price of the instruments range from





£170 to £350 and naturally the company can turn out special items to order.

Assisting Tony and Terry in the shop is Nigel Briggs who's deep involvement with the Manchester rock scene has led him to form his own band, Fantasy. The line-up in the band is Nigel, lead guitar and vocals, his brother Mike on bass, guitar and piano, Lee Preston, lead vocals, and Graham Shaw, drums and percussion.

Fantasy have been getting a lot of work because they're different, Comedy, the hardest of all arts, is a major part of the bands routine and funny man Lee throws in a host of impressions to back up the fine music the band produces. The band's been together for a year and were six months in rehearsal before doing their first gig in Nottingham.

Things have progressed to the point where the band are now proud posessors of a G registration Ford Transit and they are reasonably well equipped — obviously, Nigel has an advantage in this direction. Next step for the band is the acquisition of a mixer and a bin and horn P.A. system to replace their existing Carlsbro column set-up. There's a couple of residencies available to the band and their future looks rosy.

Mamelok is one of Manchester's "straight" shops. It's clean, large and tidy and every item on show is clearly marked with a V,A,T, inclusive price.

The shop — in Deansgate — sells every conceivable kind of musical instrument and is im-



portant because many hard to find items are stocked in significant numbers.

Mamelok are proud of "having traded in Manchester since 1897" and today's current Managing Director Bob Mamelok is conscious of the traditions of trading laid down by his father and his grandfather and he's one of those professionals who have forgotten more about selling than most people ever learn.

In Mamelok you can find an £8 guitar and a £500 Gibson, a recorder an a 200 watt P.A. system. There's a really incredible array of percussion; Premier, Ludwig, Rogers, Olympic, Pearlett. — in fact, almost every name you can think of.

There's a large showroom in the basement of the shop as well and here all the different brands of amplifiers can be tried out. Once again almost every type is on display.

The first Mamelok music shop opened in Manchester in 1910 — it had been a book shop until that time, with sheet music making the transition — and that shop was in Oxford Road, Originally in number 31, the shop spread to take over 33 and 35 until the new BBC building caused compulsory purchase in 1969.

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Add 50p P&P each mic

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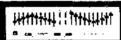
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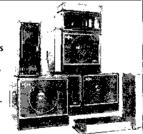
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ABBEY ROAD ... Cleo Laine was recording a single with producer George Martin and engineer John Kurlander . Saffron were in with producer Bob Barratt and engineer John Kurlander . . . Be Bop De Luxe were recording an album with producers John Leckie and Bill Nelson . . . Ken Dodd was working with producer Nick Ingman and engineer John Kurlander . . . Oliva Newton-John was recording an album with producer John Farrar and engineer Tony Clark . . Rinky Dink And The Crystal Set were recording with engineer Mike Sheady . . . Pilot were working on some demos with engineer Mike Vigars . . . John Mills was recording a single from the new musical Great Expectations with producer Hal Shaper and engineer Peter Bown . . . Hank Marvin was producing a Flair album with engineer Peter Vince . . . Norman Newell has been producing a charity L.P., the proceeds of which are to go towards the Canterbury Cathedral Restoration Fund; Artists appearing include Vera Lynn, Harry Secombe, Cleo Laine, and Moira Anderson . . .

ADVISION STUDIOS ... Emerson, Lake and Palmer have been recording together and separately with engineer Paul Northfield ... Alan White of Yes has been working on a solo album and some concert work, producing Alan Marshail (Zzebra) and Madeline Bell with arrangements by Dave Bedford ... Jeff Wayne and Barry Ainsworth were recording various jingles ...

AIR STUDIOS... Doctor of Madness were recording with John Punter producing and engineering... Robin Trower was working with engineer Jeff Emerick... The Walker Brothers were finishing off their new album with Jeff Calver engineering... Be Bop De Luxe were mixing tracks with engineer John Leckie... Cleo Laine was recording with producer George Martin... Marc Bolan was working with engineer Mike Stavrou... David Courtnay was in...

BASING STREET STUDIOS ... Rock Follies were recording with engineer Rhett Davies . . . Eno was in with engineer Rhett Davies . . . Gary Farr was working with Phil Alt and Rhett Davies engineering . . . John Middleton was recording with engineer Bob Anthony . . The Ice Band were in with engineer Vic Smith . . . Third World were recording with engineer John Burns . . . Golden Earring were in with John Kriek engineering . . . Ionathan Caudrille was working with engineer Frank Owen . . Martin Ford was recording with engineer John Punter. . . Russ Ballard was recording with engineer Rhett Davies . . . Cat Stevens was in with Bart Shiate engineering . . . The Heptones were working with engineer John Burns . . . The Mobiles recorded Doctor Feelgood at Aylesbury . . . Sparks with engineer Frank Owen . . . Bruce Springsteen at the Hammersmith Odeon . . . Richard and Linda Thompson at the University of East Analia and at Oxford...the Blue Jays at the Hammersmith Odeon . .

EDEN STUDIOS ... Barbara Dickson (of John, Paul, George, Ringo and Bert fame) was working on an album with producer Junior Campbell ... Norman Wisdom was recording a single ... Cirkus from Newcastle were working on a single and album tracks with John Etchells producing and engineering ... Scottie recorded a single with producer Pierre Tubbs ... Boombaya were laying some tracks ... The Praetorious Consort were recording ...

GROSVENOR STUDIOS... Ron Anderson was recording a single with John Leckie producing and engineering

IBC STUDIOS ... Glyder were in with producer Mike Claydon ... Lee Patrick and Tin-Tin were recording with producer Mike Claydon and engineer Keith Bessey ... Tina Kemp was in for Aves Records with Mike Claydon and Gary Shepherd producing and engineering ... Tomahawk were recording with producer Mike Claydon and engineer Gary Shepherd ...

INDIGO STUDIO . . . Indigo have expanded to 16 track and increased their staff to five . . . Thin Lizzy were recording . . . Barclay James Harvest have been in . . . Guys and Dolls were working on an album and single for Ammo Productions . . . T. Rex were recording . . Cliff Richard was recording for Granada TV with producer Bruce Welch ... Stephanie De Sykes and Paul Curtis were in, produced by Pip Williams . . . Chrysalis Records are using the studio's sound and video facilities to promote the Mandalaband album . . . ICE Productions recorded a Paul Stewart single with producer Dave Rohl . . . Stimulators were in with Geoff Gill for G.G. Associates . .

LANSDOWNE STUDIOS . . . Keith Emerson was in for Manticore Records with engineer Bob Auger . . . Queen were overdubbing some tracks for an album with Roy Baker engineering and producina... David Essex was working on some tapes for London Weekend Television . . . Supertramp were recording for A & M with engineer Dave Burns . . . Mike Batt was in with engineer Robert Butterworth . . . Mike Batt was also producing the New Edition with engineer Rob Butler . . . Mac and Katie Kissoon were recording a single for State Records ... Back Door were in recording ... Dave Clark was producing a new John Christie single with engineer John Mackswith . . . Hello were recording for Supersonic . . . Gary Benson were working on a single for State Records with engineer David Baker . . .

THE MANOR... Alan White was working on an album with engineer Bob Fossett... City Boy were mixing an album... Mike Oldfield was doing a quadrophonic mix of Ommadawn... Tangerine Dream were recording some album tracks with engineer Mike Glossop... Supercharge were working on a single with Mutt Lange producing and

Mick Glossop engineering... Rinky Dink And The Crystal Set were in with engineer John Leckie...

R.E.L.... R.E.L. are now 16 track...
John Cairney has recorded a double album with engineer Chris Giles... Dave
McNiven has been working with engineer Neil Ross... Duncan Brown has
been laying some tracks for an album...

SARM STUDIOS... Pete Solley was in producing Nicky Rolfe, with Gary Langen engineering and Gary Lyons mixing... Barry Blue was in producing Patches, with Gary Lyons engineering. Flintock were in with producer Jim Edwards... John Sinclair was working with Leroi Wiggins on a Next single... Sarm are closed throughout the Christmas period, and will move their copying facilities to the West End; the control room is being enlarged, and the old copy room will be converted into a lounde...

STRAWBERRY STUDIOS... The control room was recently rebuilt and lots of new Westlake equipment was installed... Oscar were recording an album for BASF with producer Geoff Gill and engineer Pete Tattersall... The Goodies, The Kursaal Flyers and Arrow have been in working for Granada T.V. with engineer Pete Tattersall... The Hillsiders were in with producer lan Grant and engineer Tony Spath... The Charles Barlow Orchestra was recording and album for EMI with producer Bob Barratt and engineer Pete Tattersall...

SUN RECORDING STUDIOS...new Lockwood Gold Monitors have been installed in Sun's recently re-decorated studio which now boasts a drum booth and increased bass absorption... Ballad Abyss from Lancashire were recording with engineers Rob Boughton and Martin Maynard... Alan Clayson was in ... Steve Gresswell has been continuing work on Story of The Gods with producer Peter Cox and engineer Martin Maynard... Derek Tibbets was in ...



Thin Lizzy's Lynott at Indigo



#### Acoustic

The famous Acoustic range of amplification includes the 850 - an eight mixer/amplifier channel unit rated at 275 watts and featuring reverb facilities on each channel. The 870 mixer offers six channels and produces 170 watts r.m.s. power with the added flexability of high and low impedance inputs on each channel. Acoustic's Model 300 power amplifier is a slave amp rated at 275 watts r.m.s. and can be linked up to the above models to gain more volume.

Their P.A. cabinets number among them the 804 column, which houses two 12" and three 8" speakers with a high-frequency horn and handles 150 watts. The Acoustic 808 enclosure will handle 175 watts and incorporates two 15" horn-loaded speakers and a high-frequency array of three Hepner-Vega horns.

#### Altec

Aftec are so confident in their H series of loudspeakers, that they guarantee the speakers for life. The H series includes 10", 12" and 15" speakers, all with aluminium voice coil supports. Altec also do 100 watt mixer amps of excellent quality - notably the 1214A, which has six channels each with separate volume, bass, treble and reverb controls. Built-in acoustic equalization switches are also incorporated to help eliminate feedback. Altec columns number among them the 1207C enclosure, which handles 75 watts through the six 8" Altec speakers therein and the smaller 1211A monitor column which handles 50 watts and houses three 8's and a high frequency horn. Altec's famous "Voice Of The Theatre" systems include multiport and horn-loaded bass reflex enclosures, all of which employ the aforementioned H series speakers. Larger units include the 1215A folded horn cabinet rated at 150 watts, an the 1225A portable multicell horn which is capable of handling 100 watts.

#### Ampeg

Ampeg amplification is used by a lot of name bands both in England and the States. The complete system is called the Ampeg SR6 System and it includes an excellent mixer amnlifier - Model CSB6 - which is a six channel, 120 watt unit. Volume, bass, treble and reverb controls are provided on each channel, and the master section features Hi and Lo band antifeedback controls, master reverb and master volume, The S48 speaker columns are rated at 75 watts each, and feature four 8" speakers together with two tweeters. The system can be stepped up by adding extra columns and A-120 power amps, each of which deliver 120 watts

#### Bose

Bose market many products, each with a variety of applications. Their 800 speaker systems consists of compact, angled speaker cabinets containing eight long-throw 4%" full-range Bose drivers with a handling power of 270 watts. They can be stacked or mounted on an Atlas speaker stand. The Bose 800 Active Equalizer is supplied with each

"Standard Pair" of Bose 800 speakers and the 800 is also available as an "add-on" pair without the equalizer. The Bose 1800 is a dual channel slave amp capable of giving an output of 400 watts r.m.s. per channel into four ohms, or 250 watts per channel into eight ohms. The controls provided are a volume control for each channel, an on/off switch, and an output peak level indicator.

#### Carlsbro

Carlsbro recently improved their Marlin P.A. amplifier. The Marlin Mk.11 features four channels with two inputs on each channel, separate volume, bass and treble, and reverb/effects send push buttons on each channel. There are also master volume, presence and reverb tone controls and an overriding footswitch for every on/off.

The Carlsbro Slave 1000 delivers 130 watts r.m.s. output into 4 ohms, and can be linked up with other slaves to give 10,000 watts of power,

Carlsbro also offer four versions of 2 x 12" speaker columns. The 80 watt\_system is a budgetprice speaker system featuring two columns each housing two 20 watt 12" speakers. There is also a 120 watt version, with two 30 watt speakers in each column. Both systems are available with a high-frequency horn unit for extra treble response. On the subject of horn units, Carlsbro also do a double horn unit, designed to extend the high frequency handling of any cabinet to which they are connected.

The Carlsbro Mini Bin houses a rear-facing 100 watt 15" speaker together with two high frequency horn units and is very compact weighing only 98 lbs. and measuring 35" x 20". The Calrsbro Bass Bin has two 12" Powertone 60 watt speakers and two H-F horn units and can handle 100 watts with ease.

### Cerwin-Vega

Long awaited in Europe, Cerwin-Vega products were released in August. Their P.A. systems are modular in design and incorporate 1000 watt drive units, so a small 2000 watt system can be built up to a massive 50,000 watt system without having to change any of the components. Among their power amps, the A1800 delivers 400 watts, while the A3000 is rated at 700 watts. Of particular interest are their range of chassis speakers which include the ER124 Series 12" units, ER158 Series 15" units and the ER189 Series 18" units. These have power ratings from 100 to 500 watts. Mid range horns include Type MF 50 series, plus high-frequency Pietzo-Electric arrays.

continued on page 69



A Carlsbro P.A. set-up

### TALK OF THE MUSIC WORLD

SOLE U.K. DISTRIBUTORS



#### Coliseum Keyboard Amplifier

Sunn, a leader in professional amplification, has recognized the additional require ments of the keyboard player for spacialized components. Our answer is the Coliseum Keyboard. This 320 watt RMS package features 4 mixable channels. So, if you're using an electric piago. Clavingt, and a synthesizer or two, the Coliseum Key board easily accommodates your needs. The response characteristics of this amplifier also can be utilized to beef-up the rotating speaker effect needed for organ amplification. And you've also got preamp circuitry that assures you complete control and accurate response. The Collegem Keyboard also features its own expression pedal circuitry along with internal reverb. Keyboard amplification at its best ... Sunn's Coliseum Keyboard amplifier!

#### PA 12 - Stereo Mixing Console

The Sunn PA 12 — Stereo mixing console is our most ambitious attempt yet to furnish you with afficient, trouble-free, sound reinforcement components. What we've done here is combine existing technology and taken it one step beyond. Our term for it is "automated sound systems". Features such as our SUNN-SENOR which is composed of a system of LED indicators on the 9-band graphic equalizers. to display the frequency which is producing feedback, and COMP-LIMIT, which allows you to preset maximum levels on each channel, are just be beginning. Complete stereo capability, monitor system control, high and low impedance operation, clean electronics, and exceptional portability and roadability combine to make the PA 12 - Stereo the most effective sound reinforcement tool currently available. Once you put this unit through its paces, we're sure you'll agree with that Sunn has once again demonstrated its leadership in sound reinforcement com-

### A, FRONT PANEL

- 1. 12 MICROPHONE CHANNELS
  - Dual Impedance (b) & lo)
  - St. R-& Phone Jack Inputs can be used simultaneously Board will accept 24 mic inputs
- SLIDE VOLUME CONTROL (Each Channel)
- 3. STEREO PAN POT (Each Channel)
- Use for stereo mixdown or as a separate monitor control with internal power CUT & BOOST BASS AND TREBLE CONTROLS (Each Channel)
- REVERB/MONITOR MIX CONTROL (Each Channel)
- a. Use as reverb intensity control or a separate monitor mix in conjunction with master monitor control and external power
- b. In "normal" mode, control is reverb. Simple adjustment changes its function



- 6. COMP-LIMIT (Each Channel)
  - Presets maximum level of channel. Allows input to accept up to 10 volts RMS without overdriving the preamp, In this way you can "lock in" your levels. So whether you scream or whisper, the mix will remain well-balanced.
- 7. MASTER VOLUME CONTROLS (Left & Right)
- a. Slide Potentiometers
  MASTER REVERS CONTROLS (Left & Right)
- a. Slide Potentiometers

  9. MASTER MONITOR LEVEL CONTROL
- a. For use with Reverb/Monitor Mix Controlb. Slide Potentiometer
- 10 2 9 BAND GRAPHIC EQUALIZERS

  - b. Equipped with SUNN-SENSOR This feature is composed of LED indicators over each slide potentiometer on the graphics to indicate which frequency is feeding back. Use when "tuning" the room upon initial set-up.

#### B. POWER AMPLIFIERS

- 1. 2 BUILT-IN POWER AMPS
- 200 Watts RMS into 4 ohm load (each) 400 Watts RMS total

- LED Ladder Display (on front panel) displays power output (relative to — 5 green, 1 red findicates overload or short) — replaces VU meters which are less efficient

### C. BACK PANEL

- 1. 4 SPEAKER JACKS (2 Each Channel)
- HEVERB FOOTSWITCH JACK
- 2 TAPE OUTPUTS (RCA type)
- ACCESSORY LINE OUTPUT (Each Chancel)
- ACCESSORY LINE INPUT (Each Channel)
  UMBILICAL ACCESSORY PLATE

### D.GENERAL

- 1. OILED WALNUT SIDES
- METAL FACE
- 3. DIMENSIONS: 8%" HX 37%" WX 26%" D



### Thurnacord

### Dynacord Eminent 200

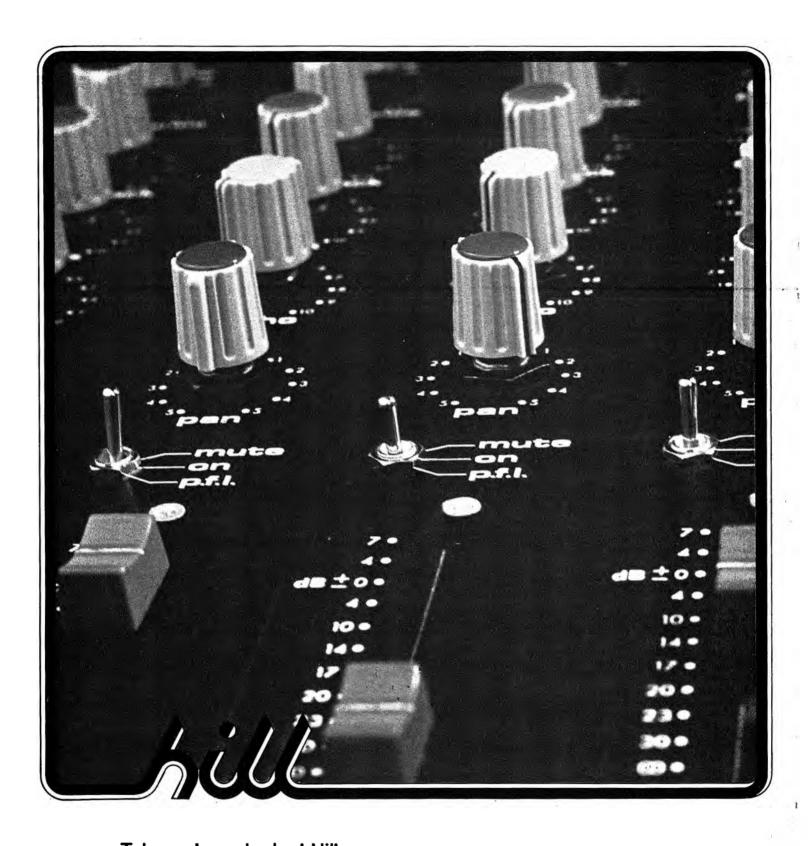
Solid state 220/150 watts portable sound system consisting of: mixer unit, power amp, and multi-head echo/reverb. unit, 8 separately mixable inputs, separate volume bass, treble and reverb controls, master controls for volume and echo return, 7 stage equalizer, controls for echo tone and duration, echo/reverb, switch for preset reverb-eration, V.U. meter switchable for power amp, and reverb, connections for tape deck output and monitor/high impedance headphones, built in monitor amp, with volume control, modern self supporting cabinet of polyurethane foam plastic, rear panel with cooling ribs and all in and output jacks. Eas y to service by plug connection of the three sub assemblies. Colour: anthractie/silver.



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### Cetec

The number of companies using Gauss speakers in their cabinets goes a long way towards demonstrating the popularity of these excellent units. There are three basic sizes 12", 15", and 18" and in each size category, there is a further choice of the specific models. Model 41 is described as "Full Range or Lead" while Model 40 is a "Bass Driver", the 15" version of which is now virtually standard equipment with many top bands. Specially developed for horn loaded enclosures are the Model 42 speakers, although they also perform well in open-back or infinite baffle enclosures.



CMI's Maximin bin

### CMI

CMI's range begins with the 50 watt P.A. slave, which boasts two equalised inputs and solid-state circuitry. Their 100 solid-state slave is typical of the CMI range, as it boasts a slave link channel. The 250 watt slave is designed for use with cabinets having an overall impedance of five ohms, and boasts a built in safety circuit.

The No.1065 horn cabinet houses three Celestions with H-F crossovers. The Maximin cab, star of the CMI cabinets, is truly versatile, housing a 15" Celestion and two H-F horns. The  $4\times10$  columns house Celestions at 120 watts as do the  $2\times12$ 's, at 100 watts, and the  $2\times10$ 's at 60 watts.

### Complex 7

Complex 7 can provide a variety of P.A. systems up to 800 watts. Their aim is to eventually supply a complete service for P.A. applications, and also including lighting. Their amplification is largely Fender and HH, and they are clearly aiming towards supplying every need in the market.

### **Custom Sound**

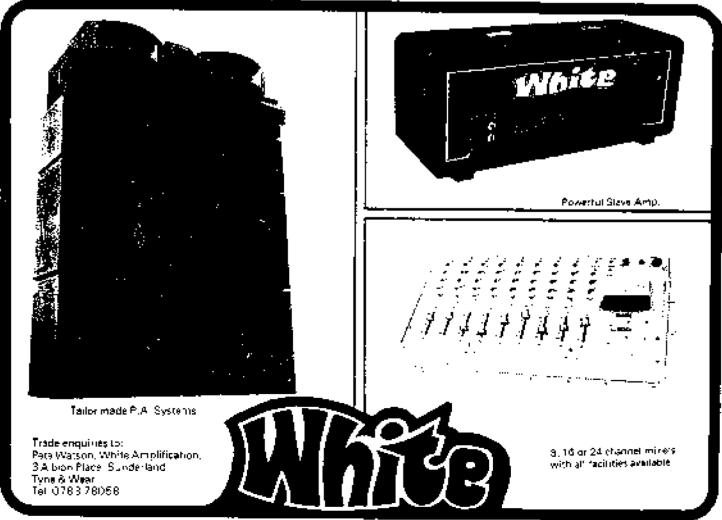
Custom Sound market a wide range of P.A. equipment, including the 700A mixer amp which

has five channels, delivers 150 watts and has the ability to individually select reverberation and set reverb gain on each channel as well as echo or other auxiliary devices. To augment output power, the CS 700C power amplifier has been designed and also delivers 150 watts. Custom Sound are soon to introduce the CS 712WM 50 watt wedge monitor combo, which incorporates its own amplifier with gain, bass and treble controls.

#### Davoli

Davoli (UK) Ltd have an excellent range of P.A. cabinets including the popular DK120 which handles 120 watts and features a 15" speaker and two horn tweeters. The DK180 handles 180 watts and houses four 12's and four tweeters, while the DK200 has two 15" woofers, two midrange horns and two horn tweeters. The Titan 100 is a 100 watt bass reflex bin with exponential horn and the giant Exponential cab houses two 12" speakers and exponential horn. There are two Davoli mixer amps - the Clubman 50 and the Mixer 6. The smaller Clubman is a sixchannel, 50 watt mixer amp and the Mixer 6 is a six channel, 12 input model rated at 100 watts. It also features a built-in tape echo unit.

continued on page 70





### Dynacord

Dynacord P.A. equipment includes some excellent mixer amps like the Eminent 100A, which has six channels, a multi-head echo reverb unit and an output of 150 watts. They also do a wide range of speaker columns including the D310, which contains one 12" speaker and a tweeter horn. The D410 has two 12"'s and a tweeter horn and handles 60 watts, while monitor boxes house four 5" wide range speakers.

#### **Epicentrum**

Epicentrum have produced a new range of modular loudspeaker enclosures for use in medium to high power P.A. systems. The emphasis is on portable, economic units, conveniently shaped for compact loading. Two modules make a complete four-way loudspeaker system, capable of 1000 watts r.m.s. Provisions are made for extensions to this basic unit.

Epicentrum also have a selection of reflex enclosures, columns, add on horn units and crossovers.

#### E.S.E.

Binson speakers are distributed in this country by E.S.E. of Maidstone. Binson make a substantial range of systems, incorporating amplifiers and cabinets, many of them with built-in horns. They range in price from £300 to £1,500. Main lines such as Carlsbro, HH, WEM and Hi-Watt are also carried, E.S.E.'s hire company also manufacture P.A. systems to specification, incorporating Crown amplifiers, Gauss speakers and JBL horns.

#### FAL

Another company better known for its disco equipment is Futuristic Aids Limited of Leeds. FAL

do a range of speaker cabinets including the Major 4, a cabinet rated at 200 watts with four 12", 50 watt speakers. The Duo Mk11 houses two 12" Bass Crescendo speakers and is rated at 200 watts, while the FAL 100 Mk11 has twin 12" speakers providing a rating of 100 watts. A 50 watt horn unit is also available with associated crossover network. The 120-6P.A. amplifier features sixchannels with nine inputs and is rated at 120 watts r.m.s.

continued on page 72



The Dynacord Eminent 100A



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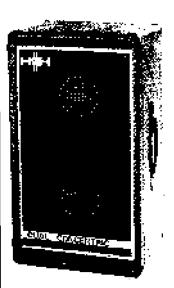
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CABIN 155a Controval Rd . Condon W12 01-749 1121







H/H 212DC column

### from page 70

### Feldon Audio

Fe'don Audio will soon be offering a new power amplifier which will rank among the best power amps available in the country. The FM Acoustics 800A boasts LED read outs of level, delayed turn on facilities and a sophisticated fault condition detection facility, as well as high input sensitivity.

Feldon also handle a high grade range of digital delays and

phasing units, such as the Eventide Phaser, which boasts instant phasing, applicable for either live or studio use.

#### Fender

The Fender PA 100, as the name implies, is a 100 watt system comprising a mixer amplifier with four channels and an output power of 100 watts, together with two speaker columns, each containing four 8" speakers. The larger Fender 160PS is a 200 watt system with a six channel mixer amplifier and four columns, each housing three 10" speakers.

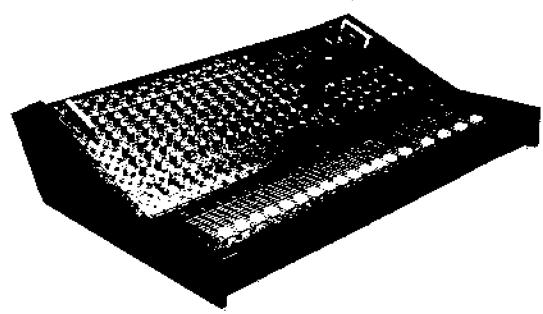
#### ш

HH Electronics offer two excellent mixer amplifiers. The MA100 is a five-channel amp with two inputs on each channel. There is an overall presence control and Master Volume, and separate volume, bass and treble controls for each channel. Push button switches are provided for the Hammond Reverberation unit on each channel along with a Master Reverb control. The MA100S has the same specification but does not include the Reverb facilities. and both amplifiers are rated at 120 watts r.m.s. The \$130 is a slave amplifier designed for use in conjunction with the above mixer amps and is also rated at 120 watts.

There is also a choice of two P.A. speaker columns - the 212DC or the 412DG. With a power handling capacity of 100 watts, the 212DC contains two 50 watt, dual concentric 12" speakers. The 412DC column houses four dual concentric 12" speakers and handles 160 watts. The H/H Mini Horn is a compact, lightweight add-on horn unit designed for use in conjunction with the 212 or 412 columns, and can handle 50 watts of power. The fibreglass horn is designed to cut off below 800 Hz., protecting the pressure driver from low frequency signals.

HH also recently introduced their Unit P.A. System, which consists of any number of 1 x 15" bass cabinets and radial horns used in conjunction with the mixer or slave amps. The 115 P.A. Bass Compact cabinet houses a front mounted 15" high power driver capable of handling 100 watts of power. The cabinet is of a port reflex design enabling two cabinets to be stacked with the ports arranged together in complement. The radial horn can handle 100 watts and cuts off below 500 Hz., to protect the pressure driver from low frequency signals. The rear of the horn cabinets has outlets to connect the unit to either one or two 135 cabinets. continued on page 75

### Soundcraft-Series II





5-8 Gt Sutton Street London EC1V 0BX Tel: 01-251-3631/2/3 Telegrams: Soundcraft LDN EC1 Systems & Technology in Music Inc., 2025 Factory Street Kalamazoo Michigan 49001 USA Tel: (616) 382 6300



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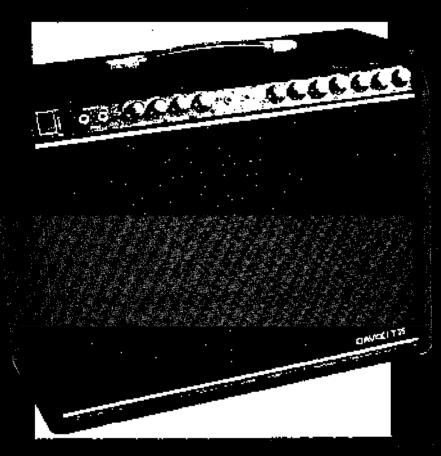
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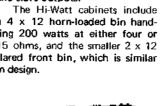


#### Hi-Watt

Hi-Watt cover the complete range in P.A. They offer 50, 100 and 200 watt power amps (the DR 512, DR 112 and DR 203 respectively), which all boast six channels, separate volume, treble

and bass controls, and echo send and slave outputs.

a 4 x 12 horn-loaded bin handling 200 watts at either four or 15 ohms, and the smaller 2 x 12 flared front bin, which is similar



Hill manufacture sound equipment for all aspects of the entertainment business. With 18 ranges of mixers and 24 ranges of power amps, the star of the Hill stable and the most popular model is the IC208S, a 200 watt r.m.s. slave amp with optional Cannon XLR connectors for inputs and outputs.

Hill's most recent offering is a Bi-Amplifier, a 400 watt into four ohm amp which can drive a bass bin and a horn at the same time.

Hill also offer full systems, in-Gauss, JBL and corporating Martin equipment.

JBL manufacture an extensive range of speakers, horns, cabinets and amplifiers, all of excellent quality. Particularly noteworthy are the low frequency horn enclosures, often used at large concerts. The 4560 is a long-throw directional horn, usually used with a 2220 15" driver, and the larger 4550 is a long-throw directional horn, usually housing two 2220 drivers. Both of these cabs were used in the recent Who concert rigs outlined in last month's I.M. There are three JBL cower amolifiers - a 60 watt, a 100 watt and a 200 watt model and all have built-in protection circuitry eliminating overloads or any other damage.



Yamaha's 7PA 800 System



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## **CUSTOM SOUND 700A**

P.A. MIXER AMPLIFIER

A P.A. mixer-amp has to project your performance under your control. The CS 700A provides 5 channels each with GAIN, BASS and TREBLE together with the exclusive KHZ-CONTROL to facilitate fine adjustment of tonal response and antifeedback control. Individual REVERBERATION GAIN and AUXILLIARY SELECTION on each channel allows full echo and/or reverb facilities. A MASTER GAIN, overall REVERB DEPTH control, a FOOT-SWITCH socket for reverb operation, auxiliary (e.g. echo) SEND & RETURN sockets, outputs to SPEAKERS, SLAVES, TAPE, LINE and monitoring HEADSET give the sort of facilities

found on many full scale mixers, yet the CS 700A delivers a clear, clean 150 watts RMS into 4 ohms.

But the CS 700A isn't just facilities, it is probably the quietest P.A. amp you'll hear in operation, noise is virtually eliminated from the power stage and each pre-amp shuts down when not in use. Reliability comes from the use of high quality components, a rugged mechanical construction and six (yes, 6!) output transistors.

Custom Sound back up every CS 700A with a full two year warranty.

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#### Jennings

Jennings do a six-channel mixer amp rated at 100 watts with builtin reverb on each channel. The amplifier is a silicone transistor. unit with protection for short and open circuit outputs. Each channel has volume, bass and treble controls with a reverb on/ off switch and there is a master volume control and a master control which gives reverb time up to four seconds. The PA100 is designed for use with a pair of Jennings P.A. columns, which contain two 30 watt 12" speakers and a high-frequency horn, and are rated at 60 watts per cabinet.

#### Macinnes

Macinnes market the top notch Amcron range of amplifiers. The DC300A power amplifier, widely used in vibration and shaking applications, is one of the most widely respected power amps available and widely used in low frequency applications, owing to the versatility of its power band width. The Amcron M600, a single channel amplifier marshalling 600 watts, is used principally in studio applications, and boasts a staggering 1,350 watts into four ohms.

#### Midas Martin

Midas Martin P.A. systems incorporate the famous Midas 1000 watt slave amplifier. Four 250 watt modules are housed in one rack sharing a common power supply and they can be linked together or driven independently. Cabinets include 2 x 15" bass bins, 1 x 15" folded horns, ring radiator arrays and a multitude of other units. In all applications where 12" drivers are required, ATC speakers are used. Other drive units used include Gauss, JBL, and Vitavox,

#### MM Electronics

MM will, beginning in early February, market a new range of bins for P.A. The bass bin is horn loaded and features 15" Powercel speakers. The mid range unit is also horn loaded and boasts a 12" Powercel driver, while the H-F cobinet comes with a crossover fitted in. These will be available in two finishes, leather cloth and black,

MM also do a six channel mixer amp, each channel with treble, middle, bass and echo controls, and high and low inout sensitivity. Their 150 watt power slave offers 150 watts into four ohms. They also offer a 200 watt slave.

#### Nicholls

Nicholls do a variety of amps and cabs, primarily for disco application. Chief is the Nicholls 200 watt disco amp. The 100 watt amp is also popular, and both boast a built-in protection circuit, volume presence and bass controls, and a slave output. Their cabinets include many of the standard permutations, as well as horn cabinets.

continued on page 78

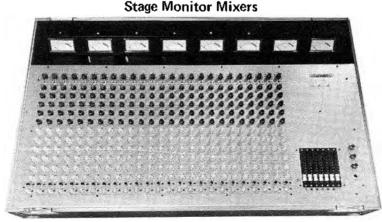


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from page 77

#### Nolan

Notan amplification offer a good range of amps and cabs for use in P.A. applications. Their 2 x 12 and horn P.A. disco column speakers handle 75 watts a cabinet. The multi purpose combo offers 2 x 12 speakers at 50 watts each. Their 2 x 12 D. Cone P.A. speaker cabinets are ideally compact.

Nolan will soon be unveiling a 100 watt f.C. mixer amp with six channels.

#### Orange

The Orange Bouncer Bass Cabinet is a folded horn enclosure incorporating a 15" speaker mounted backwards in a sealed airtight enclosure. The Bouncer Horn Cabinet houses a heavy-duty Electro-

voice 15" speaker and works on the same principle as the Bouncer Bass cab, except it has four heavyduty horn units mounted top and bottom of the unit. Horns are also available separately via the Four Horn Unit, which incorporates four custom horns. The unit can be coupled to any speaker cabinet and, when used in pairs, have a treble handling power of 200 watts.

Orange also have complete P.A. systems like the Super Road Worker P.A. which consists of two 4 x 12" columns capable of handling 120 watts r.m.s. each; two double horn units, a pair of which will handle 100 watts r,m.s.; and an Orange 6-channel P.A. amplifier, which will deliver 120 watts. The Super Compact P.A., consists of a four-channel 120 watt Graphic P.A. amplifier together with a pair of Horn Projector cabinets, each of which contains two 12" speakers and two custom horn units. They are also available in a 15" bass speaker model and can handle 110 watts each.

Orange manufacture two basic slave units. The 120 watt Graphic Slave is based on the valve power amp employed in the Graphic range, while the 200 watt slave is a transistor unit and a successor to the Orange. 200 watt valve slave.

continued on page 80



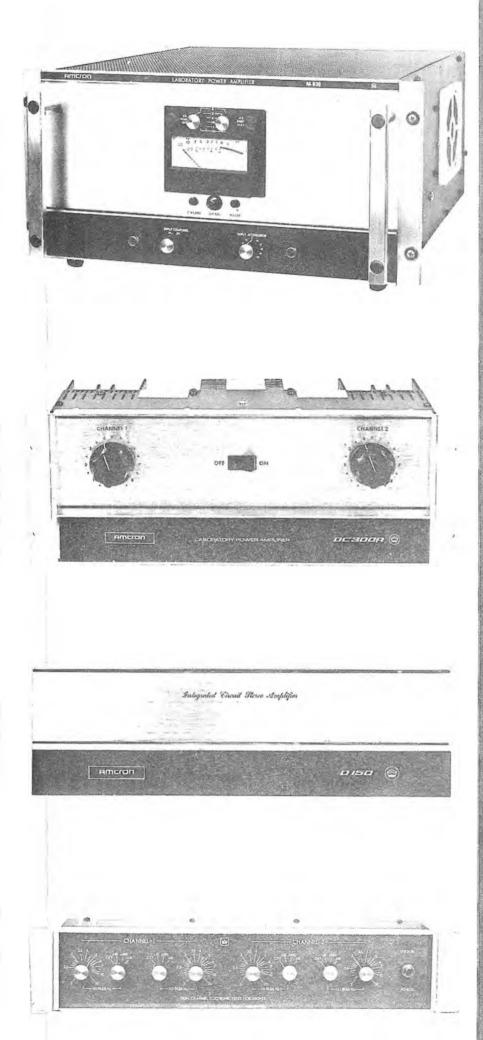
Cerwin-Vega's A-1800

#### Novanex

Novanex P.A. systems are built on the following principal: a mixer of desired specification is used together with any number of Powergenerators. The latter house a matched system of slave amplifier and twin-coned speakers, and are available in units from 30 watts up to 125 watts. A

further feature is that should a breakdown occur, only one of the Powergenerators will be out of action, while the others will function without interruption. Novanex have also recently introduced two new solid-state echoreverb units — the E500 and the E300, both of which have duration, repeat and volume controls.





# Invest wisely in Amcron

Insist on buying outmoded 100 watt slaves and you're taking a chance of throwing away at least £200 when the band's success demands more sophisticated amplification.

Invest your money wisely — with an Ameron amp, you won't have to go to the bank when your band takes off.

The M600, While maintaining the exact performance standards of the DC300A produces 750 watts (monaural) into an 8 ohm load, and 1350 watts into a 4 ohm load. Built for durability and trouble-free operation, the M600 includes built-in cooling which permits continuous full power operation. R.M.S. Power Response +1, -0 DC -20 KHz at 600 W into 8 +1, -0 dB DC -15 KHz at 1 KW into 4 Hum and noise (20Hz to 20 KHz) 120 dB below 600 W into 8 Typ.

The New DC300A will give up to 500 watts from one channel with distortion lower than 0.05%. Hum and noise is below 110dB below 150 watts, and the DC300A is now able to operate into loads as low as 1 ohm. Power Response+0db DC - 20 KHz @ 150 watts into 8

The new D150 offers up to 180 watts from each channel or 330 watts as a mono amplifier. Again very low distortion and rugged construction make the D150 ideal for smaller PAs and fold back systems. The Power Response of the new D150 extends from DC to 20 KHz.

The VFX-2 provides continuously variable filters which can be used to perform either crossover or band pass functions. The dual channel unit employs two filters per channel, each continuously variable from 20 Hz to 20 KHz. Filter rolloff is at a fixed 18 dB/octave.

Setting both low and high pass filters in one channel to a common frequency provides a two-way crossover at that frequency



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from page 78

#### Peavev

Peavey offer a wide choice of P.A. speaker enclosures, the smallest of which is the 210 cabinet, which features two 10" heavy duty drivers in a ported enclosure. The 410 houses four 10" drivers, and the 412 has four 12" speakers, again, in a ported enclosure. Two 12" and two 10" speakers together with three Piezo tweeters make up the 1210T ported enclosure, while the 1210TS houses one 12", one 10" and three Piezo tweeters.

The 115HT incorporates one heavy-duty 15" driver, one hyperbolic horn and two Piezo tweeters, while the larger 215H has two 15" drivers and one hyperbolic horn. Two 15" speakers, two hyperbolic horns and two Piezo tweeters are employed in the 215HT enclosure which is specially tuned and ported. The 151OT cabinet houses two 15", two 10" drivers and three tweeters, and the Festival Projector unit is a 1510T cabinet with the addition of a highfrequency radial from in a separate enclosure

There are two Peavey monitor cabinets — the 112T and the 112TS. Both house one heavy-duty 12" speaker and two Piezo tweeters, but whereas the 112T's angle is adjustable, the 112TS is a fixed-angle enclosure.

Peavey do a range of mixer amps, the smallest of which is the PA120. Rated at 100 watts r.m.s., it features four channels, each with individual volume, reverb, bass and treble controls and a master volume and reverb. The standard P.A. mixer amp is rated at 130 watts and has four channels, each with two inputs and individual volume, bass, reverb and treble controls. The master section has volume, bass, reverb and treble controls as well as a reverb and a monitor output.

Peavey's new PA400 is a versatile 200 watt mixer amp with six channels. Each channel has two inputs and separate volume, bass, treble, and an infinitely variable reverb control. A patch panel drives external mixers, slaves, monitor or effects units, and inputs for auxiliary in, power amp in and reverb footswitch in. The master panel features volume, treble, middle, bass, reverb and anti-feedback "scanning".

### Miles Platting

Miles Platting P.A. equipment basically consists of two set-ups. The PA 60 amplifier is a six channel valve amp, with separate volume, bass and treble controls and a master fader control. It is designed for use with 50 watt columns, each containing two 12" Celestions. The PA100 amplifier has the same specifications and appearance as the PA50, but with a 100 watts output. The 100 watt columns contain four 12" Celestion specification specifier in each.

#### Radiocraft

Radiocraft of Huddersfield offer the Matamp power amplifiers made by Mat Mathias. The MKII is chief among these, a fully transistorised P.A. amp with versatile pre-amp boasting separate volume, treble, bass and echo send on each of four channels, as well as master volume and presence controls. Full output is available into four eight or 16 ohms and 100 volt line speaker systems. A bonus is the echo send and return and slave sockets.

#### RCF

Among RCF's extensive range of sound equipment are a full range of 12", 15" and 18" speakers. Of particular interest are the L15P100 extended range 15" speaker which is rated at 100 watts, and the L18P100 low frequency sectoral horn. The H4823 19" mid/high frequency sectoral horn is the giant of the family.

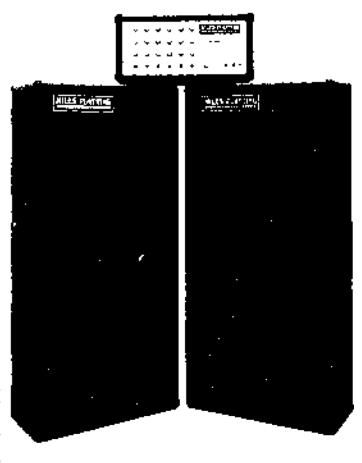
#### Rose-Morris

The world-renowned Marshall range of amplification includes their Master P.A. mixer amp, which is a six-channel, 100 watt

unit with spearate volume, bass and treble controls on each channel, and master volume and presence controls. Echo send and return inputs are also provided. For extra power, the Marshall 250 watt slave amp is available and includes a failsafe switch to prevent overloading. The 2047 columns are front loaded horn units each containing one 10" and one 12" speaker with an output capacity of 50 watts per channel. The larger 2043 columns contain two 10" and two 12" speakers with an output capacity of 100 watts per channel.

For larger applications, the 2056 cabinet is a rear loaded horn enclosure with two 15" Powercel speakers, and is capable of handling 250 watts, Marshall also manufacture a single flare horn unit designed for use with the 2056 cabinet, Recently introduced were the Marshall 2097 cabinets, the fronts of which are angled to disperse the sound around an auditorium, and the pressurised design of the cabinets helps to minimise feedback. Each enclosure has eight Rola Celestion. 8" speakers, and a pair will handle 125 watts r.m.s.

continued on page 83



Miles Platting's P.A. sct up

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All Prices are retail including V.A.T.

2 Wing bins loaded with MacLab £214.00

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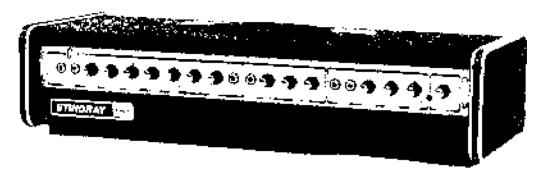
Also 2 x 12 column from £99 per pair



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## SOLID STATE GUITAR AMPS





## Stingray Super MK.II

Twin channel guitar amplifier with tremelo, reverb and sustain. Two complete independent channels. Two inputs per channel — bright and normal. Master volume control. Two controls for controllable sustain effect on channel one. Hammond reverb.

Channel One: - Volume, treble, middle, bass

sustain and on/off switch, gain reverb, speed and depth.

90444.E

Channel Two: - Volume, treble and bass.

L.E.D. power on indicator, Full integrated pre-amp.

Presence

+10db @ 4KHz +30db @ 10KHz

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Facility to:-

(a) Slave (b) Direct inject

(c) Mix Marlin and Stingray's

(d) Link up with other Stingray's.

#### Supplied complete with:-

One speaker lead two metres long. Mains connecting lead. Operating Instructions. One double footswitch. One single footswitch. Heavy duty cover. Owner's quarantee card.

Width 673 mm (26½")
Depth 266 mm (10½")
Height 146 mm (5¾")
Weight 13 kilos (28 lbs.)

(For power amp, specification see back page).

### Stingray MK.II

Twin channel guitar amplifier with sustain. Same specification as Stingray Super minus reverb and tremelo.

## Supplied complete with:-

One speaker lead two metres long. Mains connecting lead. Operating instructions. One single footswitch. Heavy duty cover. Owner's guarantee card.

Width 673 mm (26%") Depth 266 mm (10%") Height 146 mm (5%")

Weight 12 kilos (27 lbs.)

## THE BASS BIN

Get good penetration with our Bass Bin. Designed for use with our Stingray Amplifier. The 100 watt Bass Bin will produce the highest

quality results from all amplifiers. 2 x 12" Carlsbro Powertone 60 watt speakers and 2 x Horn units ensure a powerful and solid sound.

Height 35"

Weight 10

105 lbs.

Width 26½" Depth 20"

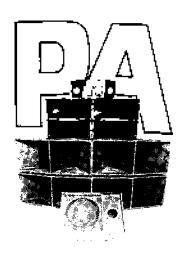
CARLSBRO SOUND EQUIPMENT

Cross Drive, Lowmoor Road Industrial Estate, Kirkby-In-Ashfield, Nottinghamshire, England.

Telephone: Mansfield (Std 0623) 753902







from page 80

S.A.I.

Sound Advice installations do a very wide range of group, disco and P.A. equipment, Their 15" front loaded horn cabinet features a large bass port on the bottom of the enclosure and is idea for P.A. application, as is their Eliminator Bin which houses a 15" speaker. coupled to a 55Hz folded horn. An Electro-Voice mid-range horn and driver are also provided to give smooth frequency response up to 10,000 cycles with variable attenuator. The S.A.I. Bass Bin features a 15" speaker in a folded exponential horn, together with two mid-range horns. Model MP 1006 is a slope-fronted monitor cabinet housing a single 12" speaker, and is rated at 25-50 watts depending on the speaker specified. Separate horn units include the Vitavox high-frequency horn and driver which is housed in a bow-fronted cabinet and rated at 70 watts.

#### Selmer

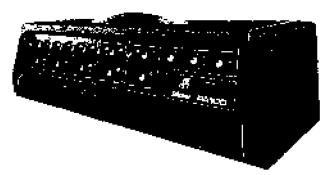
Pride of place in P.A. must go to Selmer's SG P.A. systems model SG 812. Comprised of a 100 watt solid-state amp with 200 watts peak power, and six channels, and four half columns (each with two 12" whizzer cone P.A. speakers), each channel having volume, bass, treble and variable reverb, the system can be pur-

chased at once or built up as finances allow.

Selmer's extensive range of P.A. amps leads off with the Slave 100, a 100 watt slave amp designed for durability. The P.A. 100/6 S.V. boasts six independent high jnput channels with separate treble, volume and bass controls on each, and an over-riding master gain control. Two of the channels have built-in reverb, and two can be used with external echo. The P.A./4 S.V. has four identical high impedance channels, each with its own volume, treble and bass controls, and a master gain, and is ideal for vocalists.

The P.A. 60H column speaker houses three 12" heavy duty speakers handling a total of 75 watts as well as a special horn. The TV-20 P.A. columns boast four 8" speakers per column, handling 25 watts per column. Newest of the new from Seimer is the P.A. 100. This boasts five channels, each with volume, treble and bass controls, and master controls for power, volume, presence and reverb. The unit also offers a slave output socket on the rear panel, suitable for driving a Selmer slave amp), an echo unit anci a footswitch for reverb.

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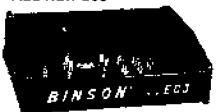


Selmer's new PA 100

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**BINSON PM10** 



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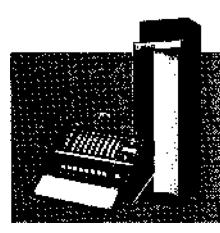
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from page 83

September Sound Equipment A relatively new name in sound equipment, September of Bradford manufacture mainly mixers and desks, but they also do two power amplifiers. The SD200 is a 200 watt r.m.s. slave, suitable for high-power studio monitoring or P.A. systems. The SD Twin 100 is a twin-channel 100 watts + 100 watts power amp. They are both available with either jack or cannon sockets.

#### **Dave Simms**

Dave Simms market the August range of amplification, including  $1 \times 12$ " cabinets with or without horns,  $2 \times 12$ " cabinets with or without horns,  $1 \times 15$ " folded horn bins and add-on horn units. Their best selling units at the moment are the  $2 \times 12$ " cabinets

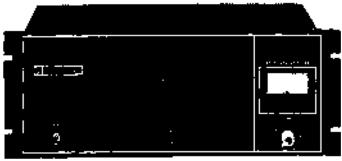
with horns and the folded horn bins. The add-on horn units are also in great demand for use with the bins. P.A. power is based on the August 100 amplifier which is a four-channel P.A. mixer amp with individual volume controls plus master bass, middle and treble controls and an overriding master volume control.

### Shure

Shure do a complete range of mixers, stands, accessories, as well as the widely acclaimed Vocal Master Sound System. The Vocal Master system is driven by a 100 watt mixer amp with six channels, each with separate volume, bass, treble and reverb (in-out or auxiliary echo) controls. Master controls can also be used without disturbing the individual settings. There are special anti-feedback switches and built-in protection.

circuits. Also available are a 100 watt Booster Amplifier and Monitor Speakers, An speaker is available for use with the Vocal Master columns or monitor speakers. Other speaker columns available from Shure include the SR108, consisting of a horn-loaded low-frequency section and a high-frequency section with four compression drivers and a radial horn. The SR 102 and 103 columns each have two10's and four 8's along with twin high-frequency speakers.

The newest addition to the Shure stable is the SR 105 power amp. Available in two models, the SR 105A which boasts direct coupled speaker output at 200 watts r.m.s., and the SR 105B, which allows for direct speaker coupling. continued on page 87-



The new Shure SR 105 Power Amplifier

## **Cerwin-Vega**

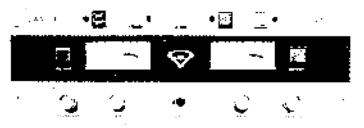
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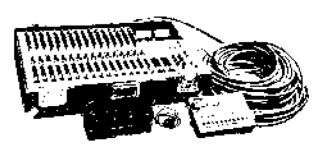
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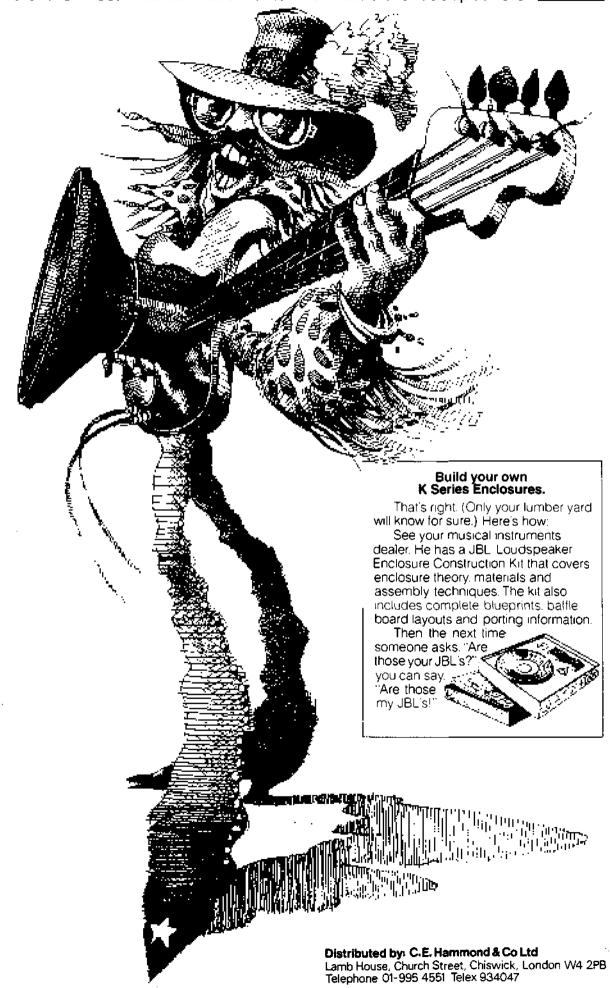
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#### from page 85

#### Simms-Watts

Pride of place among P.A. amplifiers is the Simms-Watts Vocal Blender. A 100 watt mixer amp, it is available with optional Hammond Reverb, It features six channels each with volume hass. treble and reverb controls. Each input is switchable to high or low impedance.

The range of P.A. cabinets include the H100 Universal Horn Cabinet. It has four high-frequency horns and a 15" speaker giving a handling power of 100 watts r.m.s. They also do a 50 watt column containing two 12" speakers with two high-frequency horns, and a "half version" with just one 12" speaker and one horn.

They also do two other 100 watt P.A. amps - the PA100 and the PA100R. They are both solidstate four channel amps and a Hammond Reverb unit is featured on the PA100R, Any of these amps can be slaved up with the Simms-Watts TSL 100 power amplifier.

#### Soundout

Soundout do a range of cabinets suitable for P.A. use, among them the DL3 exponential horn cab, which contains two 12" speakers and can handle 100 watts. The DL6 is a 100 watt ported enclosure rated at 100 watts, while the



Simms-Watts' H100 Universal Cabinet

HE2C is an infinite baffle cabinet with two 50 watt speakers.

The baby of the range is the HE1C ported cab containing one 50 watt 12" speaker, These can be used with the Soundout M174 four channel mixer amp rated at 170 watts r.m.s., and additional power can be obtained by adding an M170 slave amp, also rated at 170 watts.

#### Trident

(Livewear Audio & Lighting Hire)

Trident manufacture high quality sound equipment which is often used in applications demanding the highest standard of audio reproduction. Their equipment ranges from multi-track studio consoles which are adapted for live applications, to Parametric Equalisers, providing extensive curve bending facilities covering the audio spectrum and including high and low pass.

A subsidiary of Trident, both hire and lease equipment for any length of time. Their basic equipment is powered by Quad Amps driven by Electro Voice, JBC and Gauss Speakers. The mixers are RSE and they also

boast a Triad Deck.

continued on page 88





#### from page 87 Sunn

Marketed by Ben Page, Sunn amplification includes the studio P.A. amplifier. A portable four channel vocal amp, it offers eight mike inputs, separate tone and volume controls for each channel, separate reverb, off-low-high switches and a master reverb control. The Concert Controller 1, a portable six channel sound reinforcement amplifier, offers 12 mike inputs separate tone, volume and reverb controls and a master level and reverb control. The Concert Controller 2 offers high and low impedance mike inputs, monitor and effects level control. Although normally independent of power, an option of the Concert Controller 2 is available with a 200 watts r.m.s. power amp.

Sunn's columns and enclosures include the 412SR, a 4 x 12 with infinite baffle for high level bass response, and the 410SR, housing two 10" mid-range and two 10" extended range bass speakers, as well as two 4" tweeters. The 212SR houses a single 12" midrange transducer, a 12" extended range transducer for bass response, and a 4" tweeter cone. In addition. Sunn offer a variety of horn accessories, small radial horns, monitor speakers, concert slaves, large radial horns and graphic equalisers.

#### Turner

As well as doing a full range of modular and non-modular mixers, Turner market a range of studio quality stereo power amps. There are four models in the range, the A500 being top of the tree with an output power of 250 watts per channel, Their P.A. speaker cabinets all use either Gauss, JBL or ATC speakers and these include 1 x 15 bass horn, 2 x 15, 1 x 12 and 1 x 10 mid-range horn units. High-frequency units includes a Vitavox horn flare with a pair of JBL super-tweeters, and all cabinets are front-loading horn flares. Turner are also specialising in onstage monitor-mix systems and their range of monitors include 12" and 15" units.

#### Tyas

Tyas do both custom-built and off-the-shelf P.A. equipment and their range includes 1 x 15 folded horns, 1 x 15 and 1 x 12 wing bins, and horn sections with Vitavox and twin RCF super tweeters. Amplification includes a 70 watt mixer amp with two channels, bass, treble and volume on each channel, overload protection and front-panel fuses. There is also a 70 watt slave amp- 8 lifier to match. Tyas also manufacture a mixer amplifier with six channels and an output of 125 \$ watts, Again, there is a slave amplifier to match and all these amplifiers are either 19" rackmounted or boxed.



A Turner A300 Stereo Power Amp

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Johnny Winter do too.

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And Yes

Chuck Berry uses a 100 watt stack.

The Tremeloes did.

Kenny Rogers and the First Edition still do.

Jefferson Starship use Marshall in the States.

Barclay James Harvest use them anywhere.

Alvin Lee tried a competitor then came back.

The Mahavishnu Orchestra never stopped.

Cream did

Frank Zappa hasn't.

The Climax Blues Band took them on 200 gigs.

Deep Purple took them to the Rainbow for a sound record.

Steeleye Span wouldn't want to try.

The Edgar Broughton Band use Marshall.

So does Chicken Shack

And Brown's Home Brew.

The Who tried to break them.

Alice Cooper put snakes on them.

Bill Haley and the Comets rocked the world with them.

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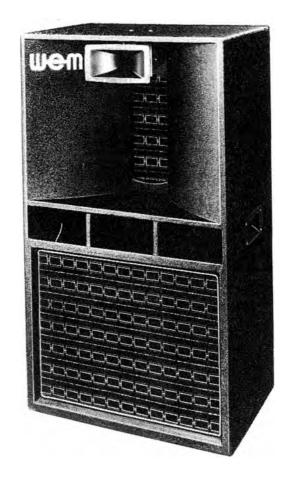
## from page 88

#### WEM

In the mid 'sixties, WEM were among the first of the sound equipment companies to cater for high-power bands and festivals. They now manufacture a complete range of columns, cabinets, monitors, horns and amps, and recently introduced two reflex bins to their range. The X39 Reflex Bin is a 100 watt handling unit incorporating a 15" woofer in a reflex compartment, two heavyduty 12" speakers behind middle bin flares and a high-frequency horn. The Intruder Reflex Bin is more or less a half version of the X39. It contains a 15" woofer, one 12" behind bin flares and a high-frequency horn.

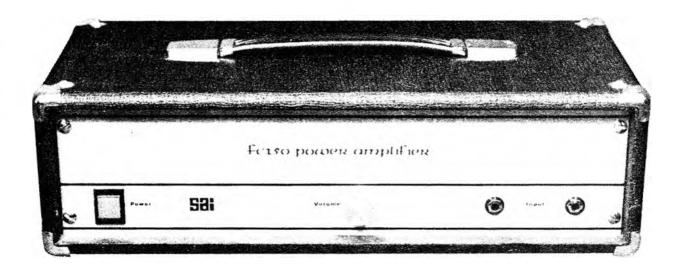
#### Vitavox

Vitavox do an extremely wide range of speakers, pressure units and high-frequency horns as well as their very successful Thunderbolt cabinet, recently road-tested by Blackfoot Sue in conjunction with *International Musician*. The Thunderbolt is a folded low frequency horn enclosure with a 380mm speaker and a cellular horn, and handles 100 watts r.m.s. continued on page 92



WEM Intruder reflex bin

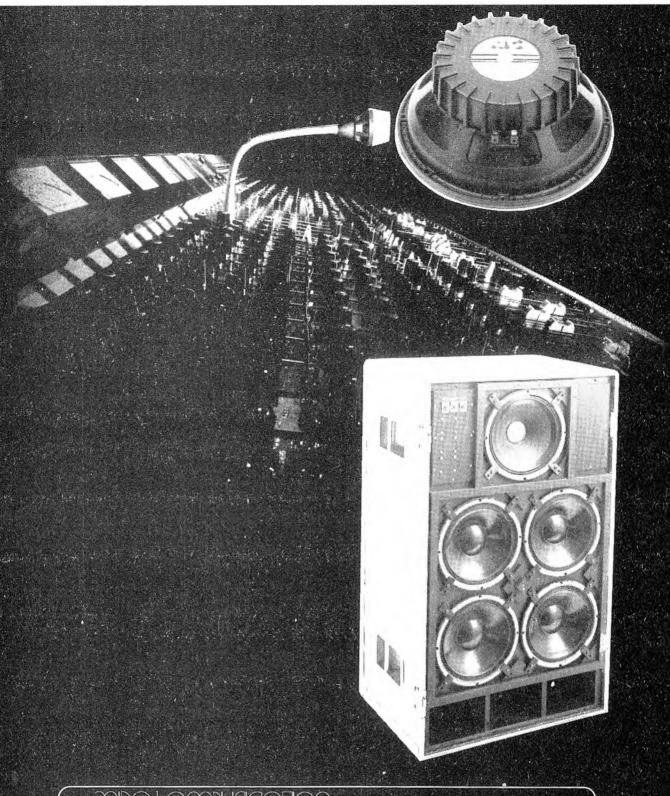
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#### from page 90 White

White Amplification of Sunderland provide equipment for applications ranging from cabaret to the largest concerts. The CM 30 can either be injected directly or miked up, and offers two channels with common tremelo, reverb, and phasing, as well as master volume and presence. The P.A. 100 amplifier offers six mike channels with separate input jacks, volume, treble, bass and echo level controls. 100 watts of solid-state power are offered. The P.S. 100 offers input and link jacks, volume control and a power switch.

The S50 P.A. enclosure is geared for the solo performer, and houses the White 412A driver. The \$100 P.A. enclosure houses two front loaded heavy duty White 311B drivers, while the S200 houses four of the drivers. The S150 P.A. enclosure houses a 15" driver and a hyperbolic horn. The P.A' 200 amp is a larger version of the P.A. 100.

White also offer the H100 V horn, a bass horn enclosure handling 200 watts, and the B.12 P.A. mid range horn enclosure, also handling 200 watts.

#### Wing

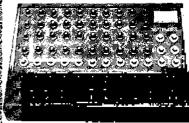
Wing Music, Bromley, distribute a wide range of P,A. equipment of their own manufacture, ranging from a pair of 2 x 12" P.A. columns to a pair of Gauss flared

One of the most popular items in their range is a P.A. bin loaded with 100 watt McLab speaker. These are very portable and two can be loaded into a Mini van. These bins are also available with Gauss, JBL, Altec or Electrovoice speakers,

For the smaller P.A. they manufacture a 1 x 15" and two horn cabinet loaded with 100watt McLab.

One of the most popular lines at present is the twin horn cluster. continued on page 94

## September Sound Equipment



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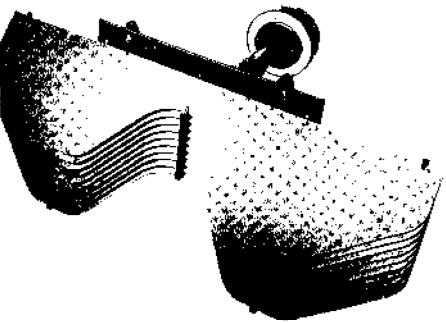
Frequency Response: 500 Hz.-20KHz

Impedence: 8 ohms.

Horn: Cast Aluminium, exponential

with eleptical mouth. Lens: 32" Stant Plate

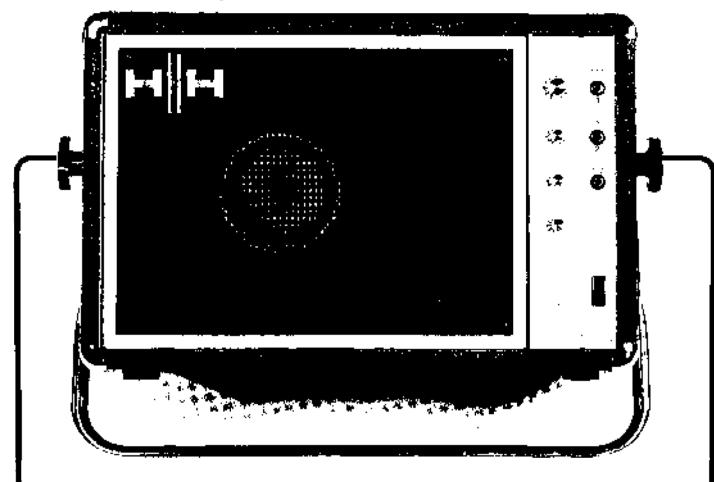
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#### Yamaha

Yamaha P.A. systems cover a lot of territory. From the six-channel 30 watt YES600A with its pair of ES 90 1 x 12" wedges, all the way up to the large high-power rigs. Throughout the range, all Yamaha cabinets are extremely compact and portable and, using their well-established slave-in-cabinet principle, a 200 watt system will fit in the back seat of a mini. Their top-line bin is the PS400, a four-way reflex bin with front loaded short exponential on the lower mids, twin section horns on the upper mids and a pair of high-frequency bullets which extend the top response up to 22k Hz.

from page 92

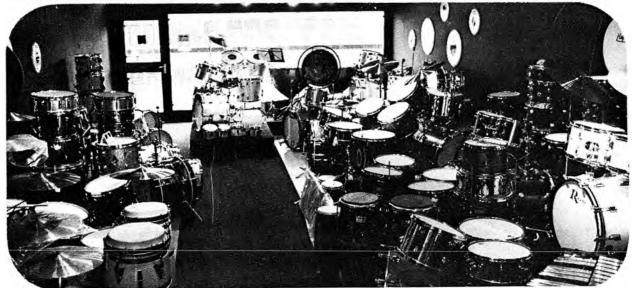
#### Zoot Horn

Zoot Horn manufacture a number of P.A. systems, which consist of a variety of bins, horns and tweeters. Their 700 watt system employs front-loaded horn bass bins with Gauss drivers, mid-range bins with ATC or Gauss drivers, JBŁ radial horns and tweeters. Multiples of these can be used for larger systems, Foot monitors are available in 100 watt and 150 watt models, and Zoot Horn also manufacture mixing consoles to order



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# DEALER NEWS

## Music Box add Northern Percussion

MUSIC BOX of Bathgate, Midlothian, was opened 20 years ago by Johnny Dankworth. Since then, the owner Colin Meiklem has been able to use Music Box as a launching pad for a hundred ideas he has developed over the years. Colin seems to live for music and his abundant energy and enthusiasm have helped to establish Music Box as a focal point for innovations in the musical industry. Colin is a talented tenor saxophonist with four years at the Royal Acadamy behind him and although officially retired as a professional musician, he has recently formed a trad jazz band who play two charity gigs a month.

He is perhaps better known to Scottish audiences as The Penny Whistle Player. He appeared in this guise on many radio and television programmes and has had two books published on the art of penny whistle blowing. Of course, it's now impossible to get a penny whistle for less than five-shillings but Colin encourages would-be whistlers by offering both his books and a whistle for less than a pound.

With an owner like Colin Meiklem, Music Box can hardly fail to be interesting. It is a large shop split into two levels, one with a floor area of 4,500 square feet and the other 6,000 sq.ft. At this time last year, the five main display windows were stocked with a wide range of guitars and amplifiers. This year, Colin has devoted a lot of space to displaying saxes, clarinets, flutes and oboes. Colin believes that the trad jazz band revival is booming. Interest in Music Box is not confined to those who are part of this revival. Colin is a Gibson Gold Star dealer, and he also has a large stock of Fenders, Gretsch and Rickenbacker guitars, as well as a selection of the cheaper copies, like the EKO range. H/H is the most popular amplifier he sells, but Colin tells me he has every other kind of amplifier and P.A. equipment that a musician could ask for. There is both a full time and a part time engineer in the busy workshop department and there is also a large record and tape department.

Colin has now formed a subsidiary company called Northern Percussion Centre Ltd and his co-directors are two well known jazz musicians, Alex Duthart and Roy Snedeon who both teach percussion classes on Monday and Tuesday evenings.



J. Dankworth 20 years on

## Hastings Sound

HASTINGS SOUND is, in fact, in St. Leonards but the towns do merge, so the name is not as misleading as it might at first appear. John Fisher, part owner with Mick Pain, moved to Hastings with Vox some years ago. John stayed on in Hastings to open Hastings Sound in 1974. The shop stands in a new shopping complex with wide modern windows and comfortable carpeting throughout. Hastings Sound is a main dealer for H/H and also stocks a solid amount of group gear, including amplifiers, electric pianos, drum kits and a range of accessories including strings and machine heads.

The emphasis is very much on electronic gear and Hastings Sound does a great deal of electronic servicing in their repair shop. Among recent visitors were local band Stallion, Jinks, Raven and The Rockaires.

# Edinburgh and synthesizers,

LARGS MUSIC in Greenside Place, Edinburgh, is part of The House Of Clydesdale, and is perched above an electrical fitting company which is part of the same complex. The floor area is some 60ft by 80ft, providing ample room to display their stock. Largs Music has been there for about three and a half years and Colin Mackenzie, the shop manager, has worked there since the beginning. There are a great many keyboards on display: partable, electric, console models

and synthesizers, and there's also a small organ studio at the back.

Among the famous names in stock are Marshall, H/H, Fender, Carlsbro, WEM, Gretsch, Yamaha, the entire CSL range and the new Tamra range, as well as some second-hand equipment.

Under manager Bruce Bedwell commented on increasing sales of the Japanese guitars as the standard of the copies improved and the quality of the American instruments seemed to deteriorate. The shop has a servicing department and Largs Music are willing to organise drum, keyboard and guitar tuition. Recent customers have Included Brody, Praying Mantis and The Igmats.

## Macari's Hove, too

THE FIRST Macaris Music shop opened in Wembley more than ten years ago. Over the ensuing years, three more Macaris established themselves in the West End of Landon. Then, only eighteen months ago, a fourth shop was opened in Hove, near Portslade railway station. With the unlimited support of the parent shops and the undoubted talents of Roger Ferris, the shop manager, the newest addition to the Macari chain has flourished.

Roger Ferrris is very much a part of today's musical industry. He writes for the band Arrow and initially his plan was to open a small studio for Arrow and other bands to use. The idea was developed and the studio, boasting two four-track tapes, is now part of the new Macaris which is housed in a former flower shop. After considerable work on the structure of the building, the display area is now more than enough to hold the extensive amount of equipment and instruments which Macaris stock. As well as keeping the full range of Colorsound pedals, Roger Ferris is also a main agent for H/H and Roland. The stock is mainly amplifiers and guitars, but there is a selection of keyboards, some second-hand drum kits and a few accordions, as well as various accessories. Customers can also order most other equipment from the main shops in London. Macaris also offer a good discount on cash payments and they participate in the Provident scheme. All good news for the average impoverished musician.

## Normans for Burton

NORMANS MUSIC shop has been in Burton-on-Trent for 16 years but has only been in its present premises for three years. The move was made simply because Normans had outgrown their premises and partners Norman Willey and David Haines needed more space to develop their ideas. It's a specialist shop which doesn't actually specialise in any one field, but takes great care to compile as much information as poss-Ible about every item in stock. Nick Collins is a full-time engineer. As the saying goes, he knows his onions, (or in this case, his electronics) and he can be relied on to help customers with their equipment problems. Mick Devlin is the woodwind expert and David Haines is full of information about brass instruments.

There are three floors, the first of which is the amp, P.A. and electronic department. The second floor is mostly keyboards but one section of this area is delegated to their hire department. Most of the instruments they hire are for educational purposes and demonstrations are often given in schools to help publicise the hire scheme. The third floor stock is mostly brass and woodwind and a repair shop for those instruments.

There is a studio for brass and drum tuition and a selection of drum kits and guitars. Normans is a main agent for HjH, a Fender Soundhouse and a Gibson Star Dealer. They are also agents for Premier and Rogers equipment and have a range of accessories as well as sheet music and some second-hand gear.

## Grimsby Musical

THE GRIMSRY Musical Centre is the ideal shop for anyone interested in the electronics of the music industry. Each member of the staff is a dedicated musician working in local bands and they each have a working knowledge of just how often equipment can fail and, more important, how to get it back on the road again. The Grimshy Musical Centre is on Cleethorpes Road in the heart of Grimsby. The shop is on one floor and although there are guitars on the walls, the overwhelming impression as one enters the shop is of equipment - everywhere. There are skilled technicians in the workshop who are masters of their trade and always eager to tackle any new electronic problem which arises. The reputation of the shop has spread and most of the clubs and pubs in the area look to the staff at Grimsby to install P.A. systems and other equipment on their premises. Of the amplifiers they sell they have found that H/H and Peavey equipment are the most popular. The second-hand stocks fluctuate but the part exchange rates are very favourable. Grimsby Musical Centre closes on Thursdays, but customers on other days include Lincs. Brothers Band, Jody, Good News and Gollum.

## **A1:11**+

A1 MIISIC centre is in a rather unusual building near the centre of Manchester. Although the shop frontage is small, customers have been known to get lost in the labyrinth of cellars which lie beneath the main building! Graham and Anne Mellor opened Al 11 years ago and since then the shop has expanded underground. The main body of the shop is crowded with bits and pieces of everything. Guitars hang from the ceiling, and the shelves and floor area are crammed with instruments and equipment. Downstairs the cellars are lit with fluorescent lights and sound-to-light units. One room is devoted to P.A. and electronic equipment, another to speaker cabinets. There is one area for the more expensive electric guitars and another for acoustic guitars, including the full Martin range.

There is a drum cellar where drum tuition is given, a display of keyboards and synthesizers and a competent work shop where repairs and equipment modification are carried out. Graham was playing guitar with a country and western outfit when he was 15 and all of the staff are working musicians. A fairly recent occurrence, and one which has contributed towards an increase in trade is the opening of the main

Northern BBC building some 75 yards from A1.

When Top Of The Pops and the Old Grey Whistle Test are being recorded, visitors to the shop have included Leo Sayer, Sacha Distel and Nils Lofgren, as well as regular customers like Barclay James Harvest.



Nils Lofgren at A1

## Fine Sounds Leek

FINE SOUNDS is a very small shop with a large heart in the form of Mrs. Jennings, who runs and part owns it with her husband. It's in the town of Leek in North Staffordshire and Mrs. Jennings has been running it for "two years and a bit".

Fine Sounds is fundamentally a friendly shop. Mrs. Jennings takes a pride in personal service and will go out of her way to accommodate her customers. Musicians often drop in for a chat and as a result the shop is rarely empty. The conversation is something of an incentive to musicians tired of indifferent assistants, but Mrs. Jennings' hospitallty is not the only reason customers drop by. Fine Sounds has as comprehensive a range of equipment and instruments as space will allow. There are HH, Carlsbro and other makes of amplification in stock.

Fine Sounds is also interested in those musicians who are just learning. To help them, there are always musical tuition books and a selection of sheet music in stock and Mrs. Jennings will do her best to organise lessons for any of her customers. There's also a list of freelance musicians and phone numbers and that service is free of charae.

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# MUSIC NEWS

## R~M SHAKE~UP

ROY MORRIS is no longer in charge of the day to day running of Rose-Morris. Peter Clarke has been appointed Executive Chairman and Managing Director and he will assume main administrative responsibility.

Clarke joins Rose-Morris from the Metra Consultancy Group, an organisation brought in some time ago to re-organise the Rose-Morris operation. His marketing background includes work with Staflex, Letraset and Delford Industrial Systems.

Roy Morris becomes President of Rose-Morris and his duties will include "external relations within the company's structure" and the developing of export sales.

Rose-Morris say that "Peter Clarke's appointment points the way to a new phase in the company's history with an emphasis on marketing strength."

## Premier Clinic

THE PREMIER Drum Company, in association with Dave Simms Music Products, held a very successful drum clinic on the 24th of November at the Queen Victoria, Ealing. Assorted drummers, roadies and people from the music trade turned out in force to see the Joe Kloess Trio go through their paces, and Premier's Eddie Haynes was there to chair the clinic. On a rare day off from touring with Jack Jones, the trio, consisting of Joe Kloess (electric piano), Billy Torma (bass), and Jimmy Blakemore (drums), per-formed mostly self-penned material with the accent on Jimmy's excellent technique and ability. After a couple of numbers, Jimmy answered a multitude of questions from the audience, covering everything from tuning drums to miking up a kit.

During a break in the set, some of the audience gathered round his Premier kit as he obligingly demonstrated various rudiments and exercises. Just for the record, Jimmy was playing a Premier Kenny Clare kit consisting of a 22 x 17 bass drum, 12 x 8, 13 x 9, 14 x 10 and 15 x 12 mounted tom-toms, a 16 x 18 floor tom-tom and a 2000 snare drum.



## **New CMI Guitars**

A TOTAL of five new items have been added to the range of products sold by Cleartone. Four new guitars — two with fairly exotic specifications — are announced, and a new phase pedal completes the announcement.

The CMI 1944 Twin neck has' 12 and six string necks with rose-wood fingerboards. Both guitar sections are fitted with twin humbucking pick-ups. A three-way master switch activates either neck. The guitar is supplied complete with case and sells for £197.71, including V.A.T.

Also slightly unusual is the CMI Stereo Bass, a stereo instru-

ment which is also wired for mono, retailing at £64.67, including V.A.T. The other two CMI guitars announced are the TF266, a six string finished in black with a maple neck and fingerboard (£64.67p including V.A.T.) and the LP200 GMC which is a gold and mahogany finished six string instrument with twin humbucking pick-ups which sells for £87.55, including V.A.T.

The new phase pedal is called the Melos Microphazer, and incorporates an on-off footswitch and speed control. The price, including V.A.T., is £18.35.

## **Malcolm Hill Moves**



**REW Enlarges** 

REW HAVE recently expanded their West End retailing operation to include a new shop at 126 Charing Cross Road. The shop, which is on the corner of Denmark Street, was originally intended to house the professional products REW sell, but it proved more suitable for Hi-Fi display and this department has been moved in to leave the original REW shop at 146 Charing Cross Road clear to deal solely in professional equipment.

The REW shop at 146 stocks an incredible range of semi-pro and professional recording gear offering such items off the shelf as an eight-track recorder for £2,200. A range of microphones which REW claim to be the widest in the West End of London is on show and a large assortment of mixers, for both recording and P.A. use, is displayed.

## Feedback Suppressor

F.W.O. BAUCH have announced the availability of a "Feedback Suppressor" and a "De-Esser."

The feedback suppressor is properly called the Universal Audio 560 and it is a unit claimed to be capable of giving up to 12dB gain increase in P.A. systems. It consists of four notch filters, each of which can be tuned to eliminate troublesome frequencies until a final feedback level is found. Even in systems which use sophisticated graphic equalisation, this filter, it is

claimed, can be used to advantage.

The EMT 260 De-Esser is a sibilance eliminator which is entirely passive until a sibilant transient is produced, at which point the-unit become a Baxandall type filter with a -3dB point at approximately 3kHz. Attenuation is up to 12dB at 15kHz. This unit does not affect tone, as can happen when treble equalisation is used, but, it is claimed, removes the "S" transients without affecting the rest of the recording.

MALCOLM HILL Associates have moved to a new address in Marden. The full address is now Malcolm Hill Associates, 3 Maidstone Road, Marden, Kent. 062-78-5545.

## Ham Expands

JOHN HAM have recently expanded to include the building adjacent to their original premises in Wales. The address of the new musical instrument and equipment shop is 75 and 76 Mansel Street, Swansea, and according to the owner John Ham, the two extra numbers have made a lot of difference.

The new section has two floors of musical instruments including a display of 50 drum kits, while the original shop has been devoted to Hi-fi and sound equipment. The staff has been increased to nine, each member of which is very involved in the local music scene. So far they have done a lot of business with semi-professional recording equipment and mixers.

## **DJMD**

GEORGE SHEPPARD has been appointed Managing Director of D.J. Electronics following the departure of David Woods. Dave is continuing as a consultant to D.J., but George is now in full control of all aspects of the company's operation.

## Conn MD

RAY HAMMOND has been appointed the new Managing Director of Conn Organs. He took up his post on December 1.

His appointment follows Jock Robertson's departure from the company in August of last year the accountants operated a caretaking operation until Ray Hammond could take over.

On the first day of his new appointment Ray Hammond stated. "We are not planning any drastic changes in either staff or policy, but we are naturally looking forward to improving our overall representation."

## New SAI Slave

SAI HAVE added an important new amplifier to their range. Called the SC150, the amp is a slave model designed for use with their disco equipment but is also completely compatable with most mixers and similar pre-amps.

Power output is 150 watts and controls are an illuminated on/off push button switch, and overall volume. The front panel is finished in anodised aluminium and the wood case covering is available in black or orange. Retail price is £96. excluding V.A.T. A rack mounted version will be available shortly.

**Cleveland Opens** 

SEVERAL MAJOR manufacturing companies turned up to help in the opening of celebrations of Cleveland Music, in Middlesbrough, at the end of last year.

As part of the opening celebrations, Kimball Organs and Rhia organs both staged demonstrations and owner Dennis Harrison claims that the shop is already a "tremendous success." Pictured are, left to right, Peter Taylor, Cleveland's Service manager, John Van Till of Benelux, Jill Richmond of Cleveland Accessories, Dennis Harrison, Alan Marcuson of Sound City Strings, Rita Harrison and Harry Graham Fielding.

## Midas For S tramp

MIDAS HAVE recently delivered a brand new sound system to Supertramp. The system is based around a giant 32-channel in and eight channel out Midas desk which has been built to full recording specifications. The cost of the desk was around £12,000.

The system delivers 12Kw. and uses Midas amplifiers which drive Gauss bass drivers, and Vitavox/Gauss mid and top end units. Midas have also built threeway electronic crossovers into the desk. Two other Midas desks have also been supplied to the band, one for echo and one for foldback. EQ facilities on the main desk incorporates bass, mid. treble and presence and cut and boost is available up to 16dB. Shelving is operational on each section. The equipment was supplied with full flight casing by C.P.



## Sun Shines

HIGH WYCOMBE'S Sun Music held its third Birthday party last month and invited more than 400 people!

The party was held in the Town Hall, High Wycombe, and customers, friends and hangers on from all sides of the music business attended.

Dave Roberts, star demonstrator of Gibson products throughly enjoyed himself and entertained the audience by zipping through some of the rarer Gibson's he'd brought with him. International Musician's Rick Desmond sat in on drums for a number with Dave at the end of his demonstration.

The Sun staff band blew a mean set which was only surpassed by th set from the Director's Band which closed the show. A good time was had by all.

## Organ V.A.T.

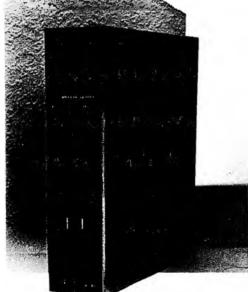
THE ELECTRONIC Organ Distributors Association has been rewarded for its efforts in clarifying the V.A.T. muddle on electronic organs with a clear statement from H.M. Customs and Excise department. From Monday, December 1, only those organs which complied with the following description were regarded as chargeable at 8%.

Electronic organs which 1) have a specification which includes not less than four footages in one voice section, 2) are designed for portability with detachable legs, pedalboard and swell pedal, 3) do not have built-in loud speakers and 4) are advertised and held out solely for professional use.

H.M. Custom and Excise have also confirmed the 8% ruling for electronic accordions and electronic pianos without built-in speakers which are advertised as being for professional use only.

The negotiations over V.A.T. on electronic organs have been conducted by Farfisa's boss Dickie Wren and they mark the need of a long period of uncertainty over V.A.T. on electronic instruments.

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Personalities from the international percussion scene including a party of dealers organised by M. Hohner (U.K.) Ltd., gathered in the Westphalian town of Aue on the 25th and 26th of October to attend the Sonor drum company's centenary.

Johs Link KG, manufacturers of Sonor percussion products, celebrated 100 years of manufacturing with a full weekend programme of events, beginning with a tour of the Sonor works.

The factory at Aue was started in 1950 and was built by Otto Link and his son Horst, the present head of Johs Link K.G. The business was first set up at Weissenfels an der Saale in 1875 by

Johannes Link, who originally started his business career tanning calf skins for drum heads. This progressed to drum manufacturing, and eventually the range of products was extended to cover cymbals and other percussion products.

The Sonor factory at Aue is impressively self-contained and guests were allowed to visit each department in turn and requested to follow a plan of the works given to each visitor by the Sonor staff.

The machine shops make piece parts in wood and metal for all the products and polishing, plating and finishing is completed at the factory. The drum shells are formed on the factory

designed jigs, and machines specially designed by Sonor tool room engineers complete the various drilling functions.

The piece part assembly areas complete their various functions on a batch production basis rather than a moving track mass production line system. This keeps the individual members of the production teams alert and conscious of quality control,

New products were demonstrated including some of the new designs for Frankfurt 1976. Bernard Purdie a well-known American session drummer was among the drum demonstrators and large crowds gathered in the despatch area where the demonstrations took place.

Among many of the overseas visitors at the factory were Bob Zildjian and Tony Wallis from Avedis Zildjian, Giovanni Spadacini from Tosca Percussion, and Mr. Remo Belli of Remo International. After an excellent lunchtime buffet at the works, coach parties left for the country village of Berghausen where the main celebrations were to take place at the village hall. A local band in traditional costume greeted the visitors with a brass and percussion fanfare at the entrance to the hall. and the guests, about nine hundred in number, seated themselves at long rows of tables in the traditional German manner.

continued on page 104

## **SONOR CENTENARY**

by Malcolm Green





## Sonny Payne

U.S.A. drum star of Harry James' orchestra and one of America's ranking percussionists, about his Sonor drums. Sonny's remarkable rapport with his instruments is shown in this action picture.



#### Jack De Johnette

is known to his many fans as "The Wizard" because of the exciting music he creates. His choice of drums is Sonor, an instrument versatile enough to respond perfectly to the vibrant, original sounds. "The Wizard" is famous for.



Tony Mann

Humphrey Lytelton Band



#### Fommy Aldridge

relies on Sonor drums and accessories for consistent performance in the recording studio and on tour. Listen to Tommy and Black Oak Arkansas, and hear the quality of Sonor drums.



Bernard "Pretty" Purdie

whose featured performance with Aretha Franklin and other stars in person and on records make him one of the most talked-about percussionists of the day, delivers his message on Sonor drums.



Jackie Liebezeit

The Can"



#### Frank Gant

whose performance with Ahmad Jamal ranks him among outstanding contemporary drummers, insists on Sonor drums and accessories to deliver his unique sounds.



**Bobby Gien** 

Ronnie Scott Band



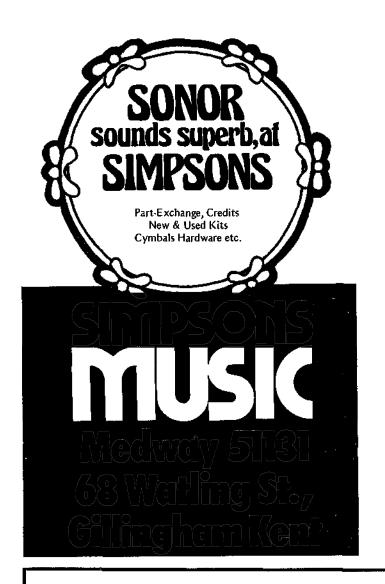
**Ronnie Stephenson** 

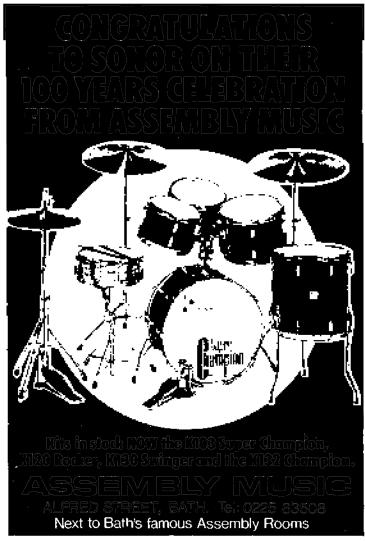
West German Radio/T.V. big band.

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## NOLAN

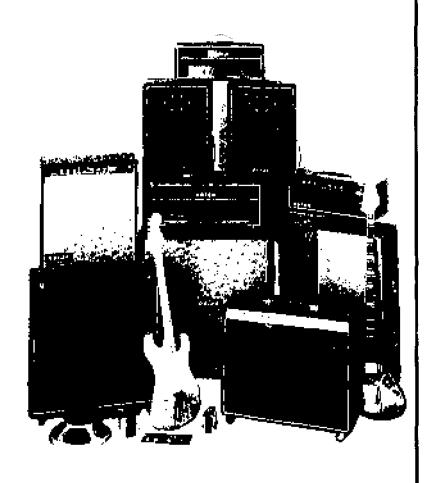
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## **SONOR** from page 100

The ceremony began with traditional folk music, which was then followed by a great number of speeches made by various German dignitaries. After the speeches Horst Link invited everyone to enjoy themselves and gave the word for the festivities to begin.

A whole ox roasting on a spit was the centre-piece of a mammoth buffet. Traditional music played throughout the evening and early into the morning, and the beer, schnapps and wine flowed non-stop to the tables.

The much appreciated cabaret spot of the evening featured ten leading international Sonor drummers including Bernard Purdie; each performed individually and then simultaneously in a grand finale. The solos will be remembered in Berghausen for a long time to come. The centenary celebrations carried on with a musical matinee on the Sunday morning at the small rural village of Bad Berleburg. In the splendid concert hall. Elizabeth Link introduced Monika Weiss, who demonstrated basic teaching methods using percussion instruments. Monika complèted several exercises with children accompanying her on drums triangles. Gordon and Williamson, a consultant for M. Hohner (U.K.) Ltd gave an impressive demonstration on a Sonor kit with accompaniment by the Monika Weiss ensemble.

After the concert, Horst Link invited everyone to a magnificant champagne buffet lunch which had been prepared, a fine conclusion to the weekend of Sonor festivities.

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B/mas. Top only B/mas. Enc.	249.70 170.50	
Super Fen. Super JBL	339.90 508.20	
Pro Fen. Vibrolux Fen	313.15 260.70	
D/lx. Fen. Princeton, rev Fen.	207.90 158.20	
Princeion Fen.	115.50 68.20	
Vibro Champ Champ.	61.60	

Champ.	61.60
BASS AMPS. BASSM	
100 Fen.	408.10
100 Top only	231 00
100 Enc. only	217.80
50 Fen.	339.90
50 JBL	438 90
50 Top only	177.10
50 Enc. only	190.30
10 Fen	273.90
10 JBL	438.90
Musicmaster be for	96 RO

	*****
P.A. SYSTEM	
100	433.40
100 Top only	288.20
100 \$4.8 col.	185.90
Hf Fhorn	57.20
160	780.00
160 Top only	470.00
160SC3-10 col.	93.00
JENSEN SPKRS.	
M1-122-12"50w	15.00
LM1-122-12"50w	20.00
LM1-152-15"50w	42.50

M1-155-15"50w	42.50
FENDER Super Twin amp	470 00

## Horn cab 2×12 col 100w. Pr.

6×10 cal. 150w Pr.	127 87
SOLID STATE 50w L&B 100w L&B 50w PA 100w Mst. PA 100w Siv. 250w Siv. 8 Ch. Mxr.	118.84 127.57 118.84 153.50 111.36 191.60 257.41
50w Combo Amp CELESTION SPEAKER G12 M25W G12 H30W G15 M50W G18 C100W S10 15W G15 Twin Cone 50W	173.05 15.33 18.28 22.98 41.23 5.49 25.07

G18 C100W S10 15W	41.23 5.49
G15 Twin Cone 50W	25 07
MAXIMIN CABS	
210 50w	65.16
410 100w	85 39
212 100w	105.62
152 100w.Bin	116.87
100w Cambo Amp	196.91

#### LT CORPORE

3.1. COFFOCI	•
ELGEN 100-w td. 100-w tse. 100-w ster. stv. 100-w ster. stv. 100-w PA. stv. 50-w G/P 50-w combo w/reverb 50-w bs. combo lkd, int. cab. FH10A 1-4-15 cab 150-w 1-4-15 cab 150-w 1-4-15 cab 100-w 1-4-12 cab 1-4-12 cab. 1-4-12 cab. pr. 2-4-12 cols. pr.	115.27 115.27 127.31 104.62 119.90 80.09 80.09 159.25 137.07 194.44 165.74 168.05 148.29 114.81 177.31 113.42

#### CUSTOM SOUND

AMPLIFIERS-	
C\$700A PA/Mx.150w	160 50
CS700B Twn. Rev.	
Hd.150w	133.50
CS700C Pwr. Amp	
150w	97.50
C\$700D 75w Tw.	
Rev Combo	183.00
C\$700D\$ 100w Tw.	
Rev Combo	227.50
C\$700 Comp. PA	820s00
ENCLOSURES	
CS 7112 Wedge Mono	45.00
C\$ 7215 150w	11700
CS 7215S200w	180.00
CS7215A Altec	285.00
CS 7115 75w	93.00
CS 7115S 100w	117.00
CS 7115A Altec	180.00
CS 7112S mini bin	180.00
DAVOLL	
DAVOLI	

C3 71123 IIIII BIII	100.00
DAVOLI	
AMPS 50W 100W 200W	106.00 140.00 210.00
CABS. 850 50W 860 60W 880 80W 8150 150W	59.50 85.00 92.00 T.B.A.
COMBO AMPS J6 6W Tempest 25T 25W Tempest 50 50W	33.00 67.00 130.00

## ELECTROSOUND

ALL ITEMS CUSTOM BUILT
ELKA-ORLA
COLID STATE AMBS

Universal 50 Universal 100 Universal 200 215.88 BOTATING SPK CARS Elkatone 610PR (100w R.MS./rev) 397,42

#### (200w R.M.S. stereo/rev) 528.8 EPICENTRUM

Fikalone 615PS (200w RMS stereo) 497.21

2 x 12 Cols pr.	113.85
1 x 12 Reflex ATC pr.	
Reflex + hf hns ; 2 x 12 Reflex bin	138.00
1 x 12 Mid hn. 1 x 12 Mid hn A1 2 hf horn unit	62.10 FC109.25
2 hf horn unit 4 ht horn unit 2 ht horn add-on	27.60 48.30
2 hf horn add-on	39.10
WEDGE MONITO 1 x 12 ATC pr.	R CABS

	WEDGE MONITO 1 x 12 ATC pr. 1 x 12 ATC +			
ļ	hf horns pr.	19	7.	80
	MODULE SYSTEI Small bs. hn. ATC		٥.	75
	Demountable bass horn Lower mid	14	9.	.50
	horn ATC Upper mid	10	9.	25
	+ hf horns Complete spkr.	12	6.	50

750.00

## system 1000W E.S.E. S.EQUIP.

1002 N/S 1005 AP200 1006 S/L200 1007 PA200/R 1010 PA100TC 1011 PA100S 1012 PA60TC 1013 PA60S 1015 B200 1018 FH200 1018 FH200	224.75 187.54 157.52 204.50 133.00 133.00 83.03 83.03 225.00 155.00
(BINSON SALES) SPK R. CABS.VLT.R 30w Col. 50w Col. 120w Col. 50w Col. 100w Col. 60w Col. 100w Col.	EGS 97.00
AMPLIFIERS 50w ster. 100w ster. 50w ster.trans. 100w ster.trans. 6 Cha.Mx. 6 Cha.Mx. 4 Cha. Mx. 4 Cha. Mx. 4 Cha. PA.Mx. 8 Cha. PA.Mx. 8 Cha. PA.Mx.	165.75 293.50 281.50 318.75 210.00 234.00 223.50 187.00 262.00 262.00

B Ha. PA Mx.

100w Siv. 10 Cha. PA Mx

231.00 262.00 275.50

10/4 - 56/165	340 0
16/2 C series	110.00
16/4 C series	1380.00
16/8 C series	1940.00
16/4 D series	1540.00
16/8 E series	2020.00
24 / Fender	£1000

	24/ <sub>16</sub> F series	\$100.00
	NON-MODULAR DESKS: M102 10/2	230.00
	M102 B 10/2	400.00
ì	M162 16/2	350.00
	M16 B 16/2 M162 FC 16/2	550.00 700.00
	W1102 PC 1072	700.00
	POWER AMPS:	

M16 B 16/2 M162 FC 16/2	550 700
POWER AMPS:	
100 W/8 ohms	70
3 100 W (15 45-4	7/

	100 W/B ohms	70.00
3	100 W/16 ohms	70.00
	200 W/4 ohms	110.00
	200 W/B ohms	110.00
	400 W/4 ohms	180 00
	IC402 S 400 W/2 ohms	180.00
	10204 S 200 W/4 ohms 10208 S 200 W/8 ohms 10404 S 400 W/4 ohms 10402 S	110.00 110.00 180.00

ICBO2 S	180.00
600 W/2 ohms	300.00
WEDGE MONITORS	
W12 50 W	65.00
W12JBL 100 W	125.00
W15CH 100 W	280.00
Luide du popul	280.00

W15 RH 200 W	280.00
JBL NH 200 W	375.00
HORNS JBL2420	
H.F. radia1 JBL2482	190.00
M.F. radial	280.00
BINS	
B15 15" 200W GAUSS reflex	145.00
MARTIN 15"	100.00

200W GAUSS

POWER AMPS.

## H.H. ELECTRONICS

199.00

138.72 119.34 69.90

92.54

139.50

99.20

100.75

206.15

189.10

[TPA100D	98.00
TPA50D	70.00
AM/8/12	46.00
TPA25D	<b>52.00</b>
TPA25D 19"	52.00
TPA25D-M	50.00
AMPS. 1/C 100 ld.bs.org. tw/rev 100w 1/C 100-S od.bs.org. 100w	137.94
P.A. AMPS.	

MA100 5 ct./rev. 100w MA100-S 5ch.100w \$130 sl.amp 120w
P.A. SPKRS. 212DC 2×12*100w 412DC 4×12*col. 160w
UNIT P.A. SYSTEMS 50w radial horn 115bs.compact 1×15" 100w
COMBINATION AMPS 1/C100,Twin Rev.

Tremelo + Sustain 75/100w

/C100-S,Sustain 75/100w

P.A. Speakers 100w mini bin 1 × 15" + 2 horns 200w Maxi Bin 1 × 15" Gauss 100w H.F. horn
JENNINGS
AMP\$.

JENNINGS	
AMP\$. V.30 30w AP.50 50w V.100 100w AP.100 100w FR.50 50w FR.100 100w	163.00 174.00 145.00 115.00 79.00 96.00

AP.50 50w V.100 100w AP.100 100w FR.50 50w FR.100 100w	174.00 145.00 115.00 78.00 96.00
SPEAKERS 8.1. 1×18" 8.2. 2×15" 8.3. 1×15" 8.4. 4×12" T.50 2×12"	95.00 115.00 78.01 135.00 83.00
P.A. P.A.100 2×12 col/horn 2×12 col.	148.00 109.00 90.00

#### KEMBLE

VEIMBLE	
COMBINATION AMPS. YTA 15 YTA 25 YTA 45 YTA 95	89.99 99.09 171.81 226.26
COMBINATION BASS A YBA 45 YBA 65	MPS. 126.36 214.54
Ld STACKS PE 200A TS 100 YFA 100A PE 200A TS 110 YFA 110A PE 200A TS 200 YFA 200A	126.20 196.44 322.64 126.20 222.72 348.93 126.20 309.08 435.28

#### BASS STACK BE 200 108.50 BS 100 YBA 100 261.11

175.00

HORN SPKR

YH\$ 100

	G and B SERIES	COMBO A
	G50112	15
	G100B212	22
	G100115	26
	G100410	27
	850115	īá
	B100115	27
- 1	PM200B	21
	PS75 pr.	31
	YPA150	53
	PS758 pr.	35
	YPA150B	56
	PS100 pr.	43
	YPA100B	69
	PM300	32
	PM400	38
	PS400 pr	90
	YPA800	128
	EM60A	9
	ecena	

	Gand Batkles COM	18U AMPS.
	G50112	156.48
	G100B212	221.30
	G100115	263.89
	G100410	273 14
	850115	184.25
	B100115	273.15
	PM200B	214.81
	PS75 pr.	318.17
	YPA150	532.99
	PS758 or.	351.85
	YPA15ÖB	566.67
	PS100 pr.	433.63
	YPA100B	691 67
	PM300	323.15
	PM400	381.48
	PS400 pr	907.40
	YPA800	1288.89
	EM60A	92.59
	ES60A pr.	18.51
	YES600A	111 11
	EM70	111.11
	ES70 (ES90Alpr.	27.78
	YESBOOA	185.18
	EM130	160.55
	ES130 pr.	37.03
	YES 1300	217.59
	1	
	ROTARY AMPS.	
	RA.50	280.00
	RA.100	434.00
į	RA.200	666.00
		VJ0.00

MISC 15" 100w	29.15
MISE 15" 100w MISA 18" 200w	29.15 88.00
MI3C 12" 50w	17.60
MI2A 12" 50w	17.60
MI0C 10" 40w	12.00
MM ELECT	RONICS

MAÇLAB HIGH POWER

## Sound Blender 150w. 187.50

ı	State Allig. 1 Jun	•
	N.B. AMPLIFIC	ÇΑ
	Nolan 100w.amp. Nolan 50w.amp. NOLAN SESSION MST( Rev. Comb. Nolan 4+12 P.A.cabs (pr.) Nolan 2+12 P.A. cabs. (pr.)	105 75 t. 164 175
	Nolan 4+12 Ld/8s	123
	NOLAN DUAL C.HORN 2+12 (pr.) Cabs Flame 50w.amp. Flame 50w. 2+12	162 67
	Combo	

1110110220	
HORN SYSTEMS 2×12 shpd. cab. 2 Middi hos 150w 4×Middax ho. cab.	132 79 119.81
SPKR. SYSTEMS 2×15 bs.ref. 1×18 100w G Bs. cab. 2×12 100w G ss. cab. 2×12 100 C cab. 4×12 400w G cols Pr. 4×12 200w G cab. 4×12 200w G cab. 4×12 100w C cab.	154.26 92.16 91.31 82.25 236.96 211.20
120w slave	152.67 153.39 115.12 173.15 162.74 120.44

## **NOVANEX**

POWE MIXER L/LM3 LM40 L50 L60 L75 L100 L125

BEAR COMBOS AUT3 AUT6 AUT10 P15 P25 U30/RG30 U40 U50/RG50 U90/J670 U90/J80N/RG80	30.00 35.20 50.40 69.60 79.20 125.00 141.67 162.04 175.00 184.26 222.22
U100/8100	291.67
6P/KR/UP120 FU22/WA44	402.78 25.00
ECHO REVER® UNITS E500 E300 Sanke (multicore)	134.26 82.41 148.15

MEVENO UNII:	134.26 82.41	SR SR
(mulitcore)	148.15	SA
R GENERATOR	R\$,	37
30	91.67	SF
	110.19 134.26	SE
	219,48 180.56	SA
	254.37 276 85	1

## 269.44 594.00 396.00 264.00 360.00 Eminent II Eminent 100 G2002

400.00
I.OPT
1719.44
1580.56
1441.67
1580.56
1441.67
1302.78
1441.67
1302.78
1163.89

AMO. I SUW	57.9U	IMOGEL 42	1441,07
		Model 41	1302.78
. AMPLIF	CATION	Model 40	1163.89
		SPKR'ENCS:	
100w.amp.	105.00	410M	322.22
50w.amp.	75.00	410S	144.44
N SESSION M		2125	138.89
Comb.	164.25	118MH	333.33
4+12 P.A.cab	5	1118M	294.44
)	175.00	415M	305.56
2+12 P.A. cabs	5.	215\$H	248.15
	117 00	215M	518.83
4+12 Ld/8s	123.75	2155	194.44
		115M	172.22
W DUAL C.HOP	(N	1115S	155.56
(or.) Cabs	162.00	610M	466.67
50w.amp.	67.50	6105	200.00
50w. 2+12		4125	238.89
mbo.	115.25	312\$	200.00

#### NICHOLLS

	ROCK-ON	
9 1	MAINS-LEADS Adaptor lds. Distribution Boards Extension lds. Pwr. lds. amps etc	From 2 63 From 5.99 From 3.45
6 5	1-2 Pwr. ids, keyboards etc.	From 1.48 From 1.99
1 5 6 0 3	LOUDSPEAKER-LEA Jack-to-Jack Jack-to-Jack XLR-to-XLR	OS From 0.99 From 3.19 From 3.93
ē 7	Screened-Leads Jack-to-Jack Jack-to-Phono, etc Jackfield-Links	From 1.99 From 1.99 From 1.35

#### 4-6 Microphone-Leads XLR-Links From 3.95 From 3.99 Heavy-Duty-Types Coiled-Types ACCESSORIES FOR LEADS

I ACCESSONIES FOR LEADS	
Adagtors, etc	From 1 43
Gaffer-Tape 6	From 2.85
Testers, etc.	From 3 69
AMPLIFICATION SPA	ARES
Panel-Plugs/Socket	
signal	From 0 23
Knobs	From 0.19
Switches 7-8	From 1.15
Fuses and Holders	From 0.09
Valves	From 0.72
Genet Gluce major	From 0.22

MOOD I	
AMPLIFICATION	
SR20 50w 2ch.	82 14
SR20R 50w 2ch./rev	106.95
SR22 100w 2ch.	99 20
SR33R 100w 2ch/rev	124.00
SR25 150w 2ch	10B.50
SR25 150w 2ch/rev	133 29
SR30E 150w PA 6ch+i	nd.
Eche controls	147.25
SSR6 8ch mix	139 50
SR40 150w slave	89.90
SESSION MASTERS	

SESSION MASTERS SM50 50w comb. 2 ×	12"	144.15
SM50R/rev	16	7.40

	2047 1 × 12 + 1 × 10 PA	155.05
	2056 2 × 15 Reflex Bins 2057 HF Horn Unit	316.40 197.52
i	2120 Spr bins (horns) 2121 100w slave	
	monitor 2122 30w slave	173.60
	monitor 2123 50w manitor	119.35 65.10
	MXR 2890 Phase 100	85.65
į	2891 Phase 90 2892 Phase 45	69.00 37.18
	2896 Distortion + 2893 Blue Box	34.72 63.43
	2894 Dyria comp 2895 Noise Gate Line	45 83 45 83

## Driver

KOSEIII	
LEO AMPS. 9641, W/Trem 9642, Leo Ten	24.02 34.33

45.83

#### R.S.D.

MIXER CONSOLES 16 ch. 20 ch 3 way X/over	1500.00 1800.00 114.81
SPKR. ENCLOSURES 215 FHG2×15" 400v 115 FHG1×15" 200v 212 DH2×12 300w 212 FH2×12 300w 212 FHM2×12 350w 210 DH2×10 200w 212 M300w	y 325.00 y 225.00 225.00 225.00
HORN M/RANGE & F	F UNITS

## 150 LT 200w 200 M 200w 2189 M 80w 100 R 50w 650.00 500.00 200.00 130.00

MPS, 30 R 800w 300 R 1600w 30 RM 100w	374.07 750.00 114.81
A 1	

## S.A.I.

AMPS. 5A260S 2=60 Ster Slave 5A 150 Slave SA 60 Slave SA 50T & 8 2 Channel	150.00 114.00 75.00 60.00
CABS. Mini Bass Bin Super Id.	90.00 90.00

#### Gauss folded horn 180.00 Mini Bass Bin/horns 144.00 E.V. Eliminator 165.00 1 × 15 E.V. Horn/E.V. 195.00 Spkr. 1×15 JBL/Gauss Front 190.00 96.00 63.75

#### SAPPHIRE

15007 P.A. 30	41.67
15005 Stave	32.87
15000 10w com	41.67
15001 30w cam.	79 17
15002 50w cam.	110.19
15003 Compact 20	148 10
15004 Compact 30	134.26
15006 Compact 30	
cols or.	46.30

BOSE	CERWIN VEGA	Tempest 50 T50W Sup. Stud. 500 50W Sup. Stud. 1000 100 Storm 25 25W Storm 50 50W	134.50 141.00 W 205.00 62.00 133.00	16 Cha, PA Mx. 100w Comb. 200w Comb. 100w Amp & Cab	761.50 336.50 393.87 427.00	INSTRUMENT SPKAS. 4128L,kd.bs.org 4 × 12", 200w	155.00	LEM	429.68	X41 X51 X81 X82E	137 96 180.56 223 15 350.93	SMB5050w8s, Comb. SM100100wcomb. 2*12	21.65 156.55 2" 168.95	SELMER SOLID STATE Ld. 100	
Bose 1800 AMP 550.00 A 800 spkr/eq. 420 00 A 800 spkr,add-on Bose 800 eq. 60.00	A 1800/1 400W+400W VU meiers + LF/HF	50.00 MIXERS 8092X 50W Clubman 50W	85.00 160.00	200w Amp & Cab 100w6 Cha.Mx. 200w6 Cha. Mx. 100w8 Cha.Mx 200w8 Cha.Mx	487.50 618.67 659.00 659.04 686.50	215BL.ld.bs.org. Twin ported reflex enclosure, 200w Minj Horn	165.85 62,77	912 amp 4×12 cab. 911 bs.amp 2×12 cab. Telescopic stnd. LG 300 PA cab. LG 100 PA cab.	336.11 333.06 22.41 282.64 179.51	X102E X122E X162E X124\$	402.78 452.78 654.63 824.07	SM100R/rev. 1 SM104 100w comb 4×12	92.20 11 233.20 46.45	8s. 100 Slave 100 Sup. Rev. 30 combo 15ss Futurang 3 combo	•
BOOSEY & HAWKE	A3000 700W + 700W	Mixer 6 100W Compact Mixer STEREO MIXERS	310.00 125.00	F.A.L.	300.30	MONITOR SYST Combo Extension ECHO UNITS	134.46 68.98	LG 60 PA cab. Flight cs. Vitg. reg. 180w amp	104.97 27.50 56.53 145.14	ORANGE	1009.26	CSR120 2×12" 120w	75.95 79.82	L+ B100 VALVE	
VT40 60 w.vl. 311.11 VT22 100 w.vl. 364 81 G2 12 120 w. s/s 367.59 G4 10 120 w. s/s 409.25	6/over 81 A3000/RS 850W+850M	5.00 Mar 12 Echo F	420.00 992.00 108.00	Minstrel Maestro Bass Fiesta Phase 50	24.75 45.00 55.00 45.00	Single Sliding Hd Multi Head	. 134 % S 145.70	100w amp Rack Studio Lem Mar. Baby Lem mar/amp	103.12 53.47 381.94 229.17 190.97	SELF-CONT.MIXERS 101 R 15ch.ster 104 A 6ch.pro.	946.65 181.06	CSR200 4×12" 200w 1 CSR240 4×12" 240w 1 WITH COLUMN CSM100 2×12" 100w	30.20 75.96	Treb.N.Bs. 100sv Treb. N.Bs. 50sv Treb N.Bs 50sv Rev. PA100/6sv Rev PA100/4sv	ı.
G4 12 120 w. s/s 436.11 81 15 120 w. s/s 326.85 84 10 120 w. s/s bs 381.48 815 \$ 60 w.vl. 417.59 815 N 30 w.vl. 311.11	COMPLETE WITH AMPS 1900W 3 way system 35-1800 Hz + 2 amps × 4 ch 17	UP200 UP100 + 100 F.A.SPKRS.	132.00 145.00	Super 50 Phase 100-2 Super 100 Model 120-6 P100 Slave	63 00 72.00 76.80 89.80 42.00	HOHNER  AMPLIFIERS GA2 GA3	31,61	Pro. Lem mxr. Saturn GR50 tp. Saturn 950 tp. Mars GR30 combo Mars B30 combo	91.67 76.39 99.31 84.03	P.A. AMPS. 104 86ch.120w 105 6ch.25w 102 120w 102/60 80w4ch.	285.75 472.94 147.30	RPA122×12 <sup>™</sup> {120w}+5 driver 2 RPA151×15 <sup>™</sup> {100w}+5	09.25	SPEAKERS Ld 100 BS. 100 PA 60H col.	
HDSVT.300 w vI 417.59 HDV48 100 w. vi.bs. 226.67 HDB25 B.55 w.bs. 225.93	1800W 2 cots 3 way 36-1800 Hz + 4 amps × 8 ch 32 2800W 4 way sys	DK 75 75W	44.80 53.50 58.60 92.50	P200 Slave FAL 50 FAL 100 PA 200 Cols pr	53.00 33.00 55.00 136.00	G40R G50R GBO128	35.83 75.97 88.06 71.85	Venus G20 combo	61.11 KERS	SLAVE AMPS 103 250w	139.80 327.44 134.69	CSB2002×15"200wgs CSB1001×15"100wFlo	cab151.13	TV-35 PA col. TV-20 PA col. GIBSON POWER PLA	ΔΥ
HDV4100 w.vl. 295.37 HDV2 60 w.vl. 277.78 HDV6 B 240w 4/8 306.33	32-20000 Hz + 2 amps × 4 ch 27: 5600W 2 cols 4 way 32-20000 Hz	DK180 180W DK200 200W	116 00 150,00 196,00 T,8,A,	FARFISA		GB0158 15008 1500B 1500b speaker PA500	93,47 119,44 60,19 59,26 83,47	110 130 145	192.00 337.96 407.40	111 120w. 111/80 80w RMS 103T 200w.trns.	124 80 195.94	ROSE-MORRIS	i	G10 G20 G35 G55 iphase	
EXSVT.240w. 8×10 302.78 EX84 B.240w. 2×15 463.89 EXB25 8.120 w.	+ 4 amps × 8ch 52 11,200W 4 ch × 4 collarra 4 × 4 way 32-20000 Hz + 8 amps 16 ch 99	P.A.HORNS 10 100W 8xd Hn. P.A.BINS	110.00	RSC 350 RSC 180 OR 200 TR 70	558.46 323.07 487.69 220.00	SM500 Mixer SC4 10H speaker SPEAKERS	83.47 83.47	147 147 RV 122 122 RV 251	435.18 523.14 435.18 523.14 504.62	110/250w 112/120 120w 112/80 80w	364.60 141.42 134.69	1992 100w Bs. 1 2098 Trans.100w Ld. 1	71.04 71.04 45.61 45.61	G40 G50 G80	
2×15 156.48 EXV4 120 w. 4×12 220.37 EXV2 120w.	V.328 300W 3 V.34 300W 3	26.18 Titan 100 100W 15.74 Titan 150 150w 25.70	145.00 164.00 195.00	FELDON AU		M8 Q8" M10 L10" M10 N10" M12 L32" M12 N12"	3.01 15.23 6.81 21.76 15.51	700 710 770 18	453.70 560.92 623.14 232.00	COMBINATION AMPS 115 80w 115 R 80w/rev. 115/120 120w 115/120R 120w/rev.	203.84 244.65 259.50	1986 50w 8s. 1 1987 50wl.d 1 2989 50w K-brd. 1 2048 50w Artist rev. 1	33.46 33.46 33.46 39.14	GIBSON SG 56212 GI.2*12 spkrs 56212 A GI 12 Altec Spkrs.	r\$.
4×12 217.59 EXV68. 240 w. 2×15 250.93 SR6 120 w. PA. com. 637.04	VH.48 SOOW 6. MUSICALINST SYS	27.74 52.14 ELECTRO VO AC100 AR150	62.79 32.79	adjustment. EVENTIDE CLOCKWI FL 201 Flanger DDL 1745A Dgil.	K. 321.00	M12 Q12" M15 D15" M15 L15" M15 N15"	8.24 44.07 28.56 19.25	60 825 760 910	384.26 370.37 523.14 675.92	125 50w Iwn. CABINETS -114 1×15 60w	264.75 152.25	2068 100w Artist rev 1 2203 100w Master vol. 1 2204 50w Master vol. 1 2205 Trans. 100w st.	71.04	SG115 J Gt.15 JBL Spkrs. SG 410 Gt.4×10 Spkrs.	
CSR6 Mixer 338 89 A120 Slave 184.26 548Cols. 149 07 9845 15w 49.90	GB.38 400W 49 8F.36 300W 39 B.36 300W 29 B.48 400W 44	53.09 A8400 55.79 AR500 35.89 FC100 55.82 FR150	18.50 18.50 34.69 37.79	Delay Line 2826 Omniprs PANDORA A-080-1 80 & 9 m/ss	2512.00 325.00	M15 Q15" M600 Horn M1200 Horn	10.56 8.10 27.95	9420 Pre-amp 9370 Pre-amp 9340 Pre-amp 9875	95 18 77.77 47 92 60.80	114/110 1×15 100w 113 2×15 120w 113/200 2×15 200w 109 4×12 mini 120w	214.19 214.19 285.44 145.04	2205 trans. 100W st. - o/p T/x 1 INSTRUMENT CABS. 1982-19828 4=12 G12H	13.80 Cabs	SG6 10 Gt.6×10 Sgkrs. SG2 15 Bs.2×15 Sgkrs.	
9876 30w 73 62 9877 50w 110.12	8.36MF 300W 3: 8.48MF 400W 4: \$0UND REINFORCEMEN	15.59 HC400 M253 1823M T SYST: 1823	12.29 203.00 33.50 33.50	dh1 o/pt. Additional delay modules Additional output	1450.00 232.00	HORNBY-SKE		LIVINGSTON SPEAKER CABINETS		109/200 4×12 200w 109 4×12 mini 120w 109/200 4×12 mini 200w	144.95	All purpose 1 1960-19608 4 × 12 G12h Ld. Organs 1 1935-19358 4×12 G12M	47.25 1 34.82 1(8)	\$68.12.6 ch. PA 4*// +2*12 Spkrs.ea. \$68.12 HD PA Head only	
BRØDR JØRGENSI	N hrm ext. op.) 5 L.48DD 2000W 10	18.25 1828C 1626R 17.77 1828T 27.84 1829 33.84 1829T	21.50 21.50 29.49 34.09 42.29	modules ORTOFON GO701	261.00 4929.63	V.50 V.50-S Spkr. V.100 C.50 PA.50	69.53 71.30 109.57 148.47 103.48	2 ch. 3ch. 2 ch. 2 ch	120.00 150.00 120.00 120.00	107 2×12 mntr. 60w 107/2H 2×12 127/2H 1×15 126 6×12 180w 128 8×10 120w	89 25 148.25 140.75 195.23 164.25	Bass organs 1 1979-19798 4×15 H/D Bass organs 1 2095-20958 2×128ass	34.82 90.65	SGB 12 COLHAIT PA 2×12 Spkr.	
ROLAND RHYTHM BOXES 1R33 102.64 1R330/amp 106.67 TR55/poriable 113.21 TR66 106.39	M 36 300W 3 M 48 600W 4 HMF 4 200W 4	73.84 75.00 PA12 30.69 PA12-45 13.31 PA12-F 14.09 PA30A	15.59 16.39 18.50 22.39	D\$\$661 D\$\$731 D\$\$732 \$TL732	1765.00 2865.00 2620.00 650.00	PA.50-S PA Spkr. PA100 PA 100S PA Spkr.	120.37 123.15 199.07	3 ch L.S.E.	150.00	114/4H 1×15 P.A.SYSTEMS 107/2×12 60w	254.55	2064-20648 I× 12 Purcel 1 2065-20658 I • 15	34.82 32.06 54.07	ORGAN SPKR. CABS. 500 500 Professional	S.
TR77 181.04 TR700/smp 310.62 SOUND EQUIP	MLT 4 250W 31 PZ.12 35W 11	05.79 PA30A-45 B1.87 PA30AT—2 PA30AT-7 PA30R	24.00 30.39 30.39 24.19	CPS691 GKS681 LV701 SSJ701 SM721	1645.00 370.00 252.00 352.00 327.00	ZENTH CD6DSD Z3	23.96 15.98	101 pwr. amp. 102: 2-ch mix . & pwr. amp 105 5-ch mix	87.00 135.00	107/2H 2×12 127/2H 2×12 128 8×10 120w 114/4H 1×15	148.44 140.94 164.25 254.55	2045 2 × 12 G12H All purpose 19951 × Disco	80.41 62.93 34.82	500 de luxe 650 .650 Combo Sharmette	
Revo30 196.17 Revo120 439.83 Revo250 645.54 RC1 56.17	CHINGFORD ORGAN STUDI Solton Cabinei 4	PA30RT-2 PA30RT-7 PA30R-45 844A	34.09 34.09 24.00 30.98	FM ACOUST	540.00	JASMYN ELECTRONIC	s	& pwr: amp 4000/M8-ch mix 8000/M8-ch mix 8000/Mp mix 5112 s ceb.	145.00 372.00 493.00 P.O.A.	124 1×12 REVERB - 116	64.50 75.0	2049 2× 12 Artist 1 2069 4 × 12 Artist 1 2052 1 × 15 Powercel	13.94 38.73 84.34	900 900 Combo 2200 2000 Professional	
C2030 12"spk. 105.90 C2038 15"spk 111.10 C20388 15"spk./ bass 121.34	CITRONIC LTD	848A Musicaster IA Musicaster IIA	37.79 56.19 72.50 83.50 89.00	E2-E4 Network in housing E2-E4 Network 3-wa	55.56 av 36.89	PROFESSIONAL POW IC840 Series 800w 4ch, P.A. Standard	295.00	5112 \$ ceb. 5210 \$ cab. 412 \$ cab. 110s cab	94.0 34.10 101.50 32.85	PA : CE		2056 2 × 15 Powercel Reflex 3 COMBINATION AMPS	16.40	2000 Combo 2000 de luxe 2100 2300 5000	
PA60 186.87 PA120 283.09 JC60 Jazz chorus amp 233.74	Stateling II Lowa St. 41	Supercastor Eliminator I Eliminator II Sentry IA Sentry IIA	259.33 220.00 194.44 194.44	D5 Driver D4 Driver D2 Multicell driver FM C35 15 cell hore	57.41 52.78 52.78 1 281.48	Meters Cannon connectors	59.00 29.00	MATAMP (RADIOCRAF	<b>T</b> }	Graphic Equal. F.P.R. Slave 200w. F.P.R. Slave 350w. Stereo 5-way	200 00 118.00 132.00	2201 Trans. 30w * 12 Bs 1	17.00 08.50	5000 Comba 5000 GT 5000 GT Comba	
JC120 Jazz chorus amp 317 44 CANARY MIXERS	Stateline II Texas, st. 5: Stateline II	Sentry III Sentry IV AR LR2 SA LR2 SAT	450.00 414.81 53.69 63.79	FM C8 HF hrn FM C7 EST hn. FM C5 EST hn. SSH Distort, booster	28.70 19.75 21.30 r 37.96	800w 20h P.A. Standard Meters Cannon connectors	255.00 39.00 19.00	Mark I trens P.A. amp Mark II trans P.A. amp	172.50 202.50	G/Equal 10-way Parametric Equal: 12ch.Mix. Desk	90.00 250.00 1050.00	2078 Trans. 100w	06.62 36.38 36.38	5200 5300 P.A. Combo IV	
'8'SERIES MIXERS 12/1 496.00 12/2 573.00	MODULES SMP505 Ster: Mik P16/Amp 1 MMP303 Mono Mix	LR48 LR4SA LR4SAT EVM12 L	190.00 96.00 111.69 61.50	SSH Phase-liner SSH Vdf super peda SSH E-1 df pedal HORNS	52.78 82.41 86.67	tC 420 Series 400w 2ch P.A. Standard Meters	195.00 39.00	. 100w tran slave Disco console 120w guitar valve amp	135.00 232.50 129.60	18ch, Mix. Desk Bass Bins Radial + Sectional Horns	2250.00 120.00 165.00	2041 50w Artist stack 2 2059 100w Artist stack 3	19.63	Combo de luxe Reverb.	s
18/2 856.05 FREIGHT CASES	Pre/Amp P50 65 w. amp	59.00 EVM158 44.00 EVM15L 99.00 LS8 LS12A	69.00 69.00 79.50 19.89 24.39	1212FX100w FM 1212GX200w Guas 1315F100w FM Bs. 1315G200w	114.61	Cannon connectors IC320 Series 300w 2ch P.A.	19.00	Dual concentric speaker	97.50	Twin Rev.Unit Phase Unit, Stan.Mong. Phase Unit,Stan.	70.00 120.00	2003 100w PA Top 8Ch 1	33.48 88.79	PRODUCTS  AUGUST AMPS. PA 100w 4ch./echo/	
12 ch. 31 00 15 ch. 38.75 18ch. 44 00 'A' SERIES CUSTOM MIXERS	CLEARTONE	LS15 LT8 LT12 MC8	29.09 35.18 37.52 17.09	Guass Bs. 1317X200w Radial 1323X200w6 cell 1336X400w 15 cell	173.15 303.70	Standard IC110 Series 150w 1ch P.A.	150.00	MACINNES  AMPS IC150 Console	209.00	Ster. Phase Unit, Stan. Ster. D/lx. Electronic X/overs.	180.00 from 30.00	1994 Trans, Mixer 9ch mono 3	66.40 22.50	slave. 2 × 12" PA/Cols. prs. 1 × 12" PA/Cols	′ 1 1
20/6/2 [ 2860.00 16/8 2600.00 24/2 1700.00	2×15 Bs, cab.120w 1: 2×12 Ld, cab. 50w 1×18 Bs, cab. 100w	18.62 SP8B 97.50 SP128 19.81 SP12	21:50 27:50 35:00 58:50	1345X200w H.F.	104.63	Standard STAGE MONITOR AM ICT10M spk/amp.com	bo	D60 60w D 150 140w DC 300A 500w M600 1350w M2000 2700w	180 00 285.00 465.00 950.00 1900.00	B.L. PAGE		2051 Trans.	40.00 87.04	prs 1 × 12" PA/Horn prs. 2 × 12" Cab	-
CROSSOVERS 2 way stereo 68.19 3 way stereo 79.04	4×12 Bs_cab 100w = 13 PA CABINETS	\$9.00   SP158 SP15 12TRXB 15TRXB	45.00 77.00 62.50 84.00	MALCOLM H ASSOCIATE: MODULAR DESKS.		150w/12" spk+horn (6 celestion drive units GUITAR AMPS IC210G 200w tone box	180.00	VFX-2 OC150 SPEAKERS	190.00 240.00	BYNACORD Echechord Spr. Echechord Mini Magic HS	333.25 243.00 84.00	O/P T/X 1  P.A. CABS. 1995 2* 12 * 2	13.80	4 × 12" Cab. "V" 4 × 12" Cab. 1 × 15" Horn Bin Add on Horn Units	
	2*10 col. 80w, Pr. 10 4*10 col. 120w, Pr. 16	20.17 12.26 12.5A 12.5A 8HD 13.5 13.5	104.00 40.00 15.39 21.50	16/2 A series 16/4 A series 16/2 B series	600 00 755.00 780.00	+ overdrive	165.00	ES212 75w IMA Inter-Mod, Dist Analyser	440 00 495.00	D350 80w cab. D310H 80w cab. A1000	243.00 249.00 333.00	Disco/PA cabs 1	25.86 66.66	prs. 2 × 12" Horn Pa/ Cols prs.	

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SOLIND FOI	HOMEN	ıT \$0	JUND !	FOLIIPMENT/KEVRO	ARDS		. PRICES ARE WITHO BOARDS/PERCUSSI				PEF	RCUSSION/GUIT	ARS —
2073 Vocal blender fev 2051 Vocal blender fev 2051 Vocal blender 2070 FA100Rev. 2071 FA100 2072 AP10 2072 AP10 2074 AP10 2074 AP10 2074 AP10 2075 Slevs 2074 AP10 2075 Slevs 207	226.80 226.80 138.82 120.32 91.52 101.82 101	PA900 4D0w 27 input mix 260 Booster 430w st. 800 Booster 400w st. 1200M 12ch Hi-Lo Rev mix 800M 8ch Hi-Lo Rev mix Monitor 130w/eq.  SPEAKER CABS (PA) 2 × 10° 36w cct. 1 × 12° 150w cot. 2 × 12° 150w cot. 2 × 12° 150w cot. 2 × 12° 1 × 12° 4 3 tw. cot. 1 × 12° 2 × 10° 4 3 tw. cot. 2 × 12° 2 × 10° 4 3 tw. cot. 2 × 15° 2 × 10° 4 3 tw. cot. 2 × 15° 2 × 10° 4 3 tw. cot. 2 × 15° 2 × 10° 4 3 tw. cot. 2 × 15° 2 × 10° 4 3 tw. cot. 2 × 15° 2 × 10° 4 3 tw. cot. 2 × 15° 2 × 10° 4 3 tw. cot. 2 × 15° 2 × 10° 4 3 tw. cot. 2 × 15° 2 × 10° 4 3 tw. cot. 2 × 15° 2 × 10° 4 3 tw. cot. 2 × 15° 2 × 10° 4 3 tw. cot.	577 50 142.50 277 50 577.50 262.50 157 50 45.00 82.50 112.50 112.50 112.50 112.50 112.50 210.00 232.50	HORN UNITS HU1121 50W 160 DO HORN UNITS HU1121 50W 342 00 HU3 120W 342 00 HU3 30W 206 00 HU3 120W 395 00 HU5 120W 395 00 HU5 120W 395 00 HU5 60W 373 00 HU7 60W 373 00 HU7 60W 150 00 ST0705 40W 145 00 HON-MODULAR MIXER 10 into 4 120 00 20 into 4 140 00 MODULAR MIXERS(PA) HODULAR MIXERS(PA) 10 into 2 880 00	ARDS  Berkeley Berestord Berestord Buckingham  PROFESSIONAL Duo VIF 600 Pedalboard VIF 200 Syntorchestra  GALANTI X300 D/L X300 D/L X300 D/L X300 D/L	996 92 1200 00 1433.84 973.84 973.84 66.46 101.53 101.53 101.53 101.53 451.63 451.63 451.63 461.63 461.63 473.84 473.84 473.84 473.84	/BOARDS/PERCUSSI LIVINGSTON Chorister 61 MB 380.00 Ministrel T.B.A. Abbey Chapel 580.00 Abbey Chapel/13 Nt. pdlbrd. 648.00 Abbey Chapel/13 Sykr.cab. 690.00 Choral 30/30 nt. pdlbrd. 960.00 Choral 30/30 nt. pdlbrd. 4 spkr. cab. 1080.00 Choral 27 69 Ps/32 nt. pdlbrd. 1350.00 ROSE-MORRIS GEMELECTRONIC KEYBOARDS 297 Intercontinental Dual Manual organ 726.85	ZILDJIAN HI-MAT   13"	32 36 40 RED SOUND 12 13 14 15 16 18 20 HEAVY BAND 11 Pr 12 Pr 13 Pr 14 pr 15 Pr 15 Pr	44.07 55.09 77.78 112.58 124.16 138.89 4.63 6.95 7.41 9.26 7.41 9.26 14.35 17.13 16.49 14.35 17.76 22.13 30.38 34.72	B62 22"   142.4     1811 22"   247.2     1811 12"   247.2     1911 124"   255.9     202 20"   290.0     203 22"   291.0     203 Kenny clare   360.3     203 Kenny clare   360.3     303 20"   336.2     303 22"   344.8     107 20"   460.7     38707 22"   480.2     38717 22"   480.2     38717 22"   480.2     38717 22"   480.2     38717 22"   480.2     38717 24"   38717     3860 20"   871.1     3860 20"   871.1     3860 21"   175.3     3803 22"   175.3     3803 22"   207.4     3803 22"   20	Powermate 22" N.P. Phen. Phen. Phen. Powermate 22" N.P. F Satin Image creater 22" Wd.shis Image creater 22" Wd.shis Image creater 22" Wd.fgis Image creater 22" Wd.fgis Image creater 22" Wd.fgis Image creater 22" Fgis Jain Dyne-Max 22" Wdshis Satin Dyne-Max 22" Wdshis Satin Thunder King 22" Eds Thunder King 22" Eds	339.81 ten 357.40 357.40 357.40 295.37 278.70 191.66 295.37 312.03 326.85 191.66 210.18 222.22
2062 2 × 12 Horn 2068 1 × 15 Horn 2065 1 × 15 Bass SOLA SOUND suckarao 7 w righty Atom foi/Snd. Compact fower Pack 15 fower Pack 30 lass 30	111.06 91.66 82.40 26.41 22.73 34.25 50.50 77.27 68.18	TYAS  AMPLIFICATION L.C. 60 Slave L.C. 60 to	50.00 75.00 96.00 130.00	15 into 2 1183 80 24 into 2 1550.00 3XF3-WAYELECTAONIC X/over 249.50 STUDIO MIXING CONSOLES Custom built	F.RANGE F.1. F.2. F.2 D/L F.3. F.5. Insta-str. × legs/cs Insta-plano × lgs/cs sustein pedal	351.40 425.74 518.23 639.67 740.46 276.86	TBA Cskota Synthis     Dual Manual organ     291 Caravansgie man     4 octave     3 octave     292 Jumbo Gem     port. 4 oct     293 Jumbo 61 5 oct     198 Jumbo 61 5 oct     198 Jumbo 61/ry un     293 Gembo piano     184 50  LORENZO ORGANS	Superien 5 sñ. 82 00 Powertone 22 8s 128 00 Powertone 28 8s 134 00 Powertone 28 8s 134 00 Powertone 8 12 8s 142 00 Powertone 8 12 15 64 00 Powertone 8 12 17 64 00 Powertone 10 + 14 17 80 00 Powertone 10 + 14 17 80 00 Powertone 16 + 16 17 97 00 Powertone 16 + 16 17 97 00 Powertone 18 + 20 17 15 00 Powertone 18 + 20 17 142 00 PAISTE CYMBALS AND	Apollo 5 Outlit	52 08 62.84 PPPOCK 245 37 180.00 128.70	DRUM OUTFITS/CYMBALS   10.3   1.03   1.03   1.03   1.03   1.05	SHURE  VA302 E6 Vocal Mast VA302 E6 Sc Control Console VA300 S Spkr. Cols. VA301-S Monitor Speaker	325,00 er 714.78 432 30 149.16 108.24 67.98
12/4 (Mk.2)		Singte 12" Twin 12"PA pr Singte 15" bin 12"PA pr Singte 15"bs bin Twin Horn box  VITAVOX PRESSURE UNITS Type S3 Type GP1 Type GP2 Type GP2 Type GP2 Type GP2 Type GP3 AK 123 15 ohms AK 124 15 ohms AK 157 7.5 ohms WN 350 16 ohms	30.00 108.00 108.00 120.00 95.00 74.07 30.42 20.37 31.94 42.13 64.81 84.81 17.45	Diamond 70 131.36 Diamond 70 131.36 Diamond 70R /frly. unit 186.48 Diamond 70R /frly. unit 440.20 Diamond 70R /amps * spkr, 454.15 Diamond 701 378.20 Diamond 701 378.20 Diamond 702 554.10 Diamond 709 292.95 Diamond 709 292.95 Diamond 708 Diamond 709 255.110 Diamond 709 Space sounder  ARP SYNTH AXXE 369.45	SPINET Dolphin 6622K Dolphin 67/8 9422K Dolphin 67/8 9422K Cowgar 7122J Phoenix 1222 Crandee 11122 Grandee 11122 Concorde 2107 PORTABLE X-2 X-5 Auto-Vari 64 rhythm unit Hammond Synthesia 5Y-100	1020.00 1355.00 3196.00 3996.00 4797.00 412.00 1098.00	MINI-KORG SYNTH. 280 Model 700 349.95 281 700 349.95 279 800 542.25  SELMER  LOWREY ORGANS Teenie Genie 8 39.20 Genie 84 339.20 Genie 88 1252.80 Genie 98 1147.00 Theatre Genie 89 1412.00 Theatre Genie 98 1524.00 Orcheskral Holiday/ Genie Noliday/Genie 1566.40 Symphonic 1968.00	2002 13" Hi-Hat Sound Edge 69:30pr 14" Hi-Hat Sound Edge 75:50pr 15" Hi-Hat Sound Edge 80:30pr 13" Hi-Hat 48:00pr 14" Hi-Hat 49:35pr 15" Hi-Hat 55:20pr 16" Cr. Med. Ride 31:60ea 20" Cr. Med. Ride 47:05ea 22" Cr. Med. Ride 72:55ea 22" Cr. Med. Ride 72:55ea 31" China type 60:25ea 24" Cr. Med. Ride 72:55ea 31" China type 60:25ea 21" China type 63:65ea 8" Bell Cymbal 22" Chara type 63:65ea 8" Bell Cymbal 63:65ea FORMULA602 13" Hi-Hat	K132 5 dr. K162 5 dr. K189 4 dr.	80.74 73.94 17.59 29.91 44.86 157.87 218.33 265.97 394.44 480.00 490.42	B303 22"   448.7   503.0   120.0   1	5 SIMMS - WAT  7 ASBA METAL 24-14 8-955 42 21-14 8-955 43 20-14 8-95 43 14-9 Tom 57 13-9 Tom 68 14-9 Tom 68 14-9 Tom 69 15-9 Tom 69 16-16 Tom	135.93 135.93 135.93 82.41 82.41 130.00 82.41 135.93 135.93 82.41 82.41 130.00
9845 A,50w 9846 8 A,100w 9849 A,60w	360.00 350.00 360.00 210.00 550.00 558.00 185.00 90.00 118.00 318.00 318.00 420.00 440.00 265.00	Clubman amp. Westminster Wastminster k-brd' Westminster bs. Dominator MkIII Pwr. musette Dominator bs	158 10 109 26 99.07 105 56 70.37 231 48 42.00 46 40 46 40 52.80 78 70 78 70 78 70 78 70	Pro-soloist 560.00 Explorer 369 45 Odyssay 736.00 2600 1620 00  BRODR JORGENSEN SH100 Synth. 376 34 SH3A Synth. 400.15 SH2000 Synth. 432.01 CB2 Synth 41.42 EP20 Elec. piano & Pedal EP30 Elec. piano & padal Stot 15t/bs. 396.32  CBS/ARBITER  KEYBOARD INST Rhodes Suitcase.	SYNTHESISER SH 1000 SYNTHESIER SH 1000 SYNTHESIER SH 330 HHYTHM UNIT TR 330 HHYTHM UNIT TR 350 HONE KEYBOARDS Mini KORG 700 Mini KORG 700S Clavine US Pianet N Combo Pignet HI Piano Bass 2	348.80 386.40 88.80 95.37 300.93 955.48 922.56 221.39 212.27 125.93	Holiday Console/Genie Crailon Theatre Spinet Console Spinet Console Symphonic Stereo Theatre Console Symphonic Stereo Theatre Console Stenderd PPE // 20W SELMER ELECTRONIC PIANOS Standerd PPE // Phythm Unit SELMER ORGAN Woburn ABR Console 37R Console Sound 37R Console KENTUCKY ORGAN Console Console KENTUCKY ORGAN Console Con	Sound Edge 69.30br 14" Hi-Hal Sound Edge 75.60br 15" Hi-Hal Sound Edge 80.30br 13" Hi-Hal 57.80br 16" T.T-C. Med Med-R. 41.60 18" T.T-C. Med Med-R. 20" T.	D5556 D556 D556 TOM.TOMS T620 1629 1629 1630 T632 T652 T659 T660 T662 T662 T662 T663 T652 A.T.  BASS G230 G261 G260 G261	87.96 93.24 36.11 39.63 40.56 40.56 47.73 60.97 58.06	1183 22 = 17" 51.5 1183 22 = 15" 44.1 1172 20 × 15" 44.5 1172 22 × 15" 47.5 1173 22 × 17" 48.0 1173 24 × 15" 44.1 1173 24 × 15" 45.1 1183 14 × 50," 55.0 1184 14 × 50," 55.0 1005 14 × 50," 55.0 1186 14 × 50," 58.3 1186 14 × 50," 58.3	14×14 Bass 22×14 Bass 20×14 Bass 20×14 Bass 13×9 Tom 12×6 Tom 14×14 Tom 16×16 Tom 16×16 Tom  SNARES 3 SNARES 3 SARES 3 STANDS Hi-Hat Snare 0 CONGA / BONGO Tumbador 1	135.93 135.92 135.92 82.40 95.25 130.00 116.25 116.25 116.25 116.25 162.04 91.67 12.73 53.61
846 BX (powered) IMPLIFIERS 71 BX	620.00 230.00 250.00 63.00 67.00 82.00 55.00 80.00 149.00 48.00	Dominator 30w, v. amp. Dominator 30 bs. Dominator 50 ld. Dominator 50 'k-brd' Dominator 50 amp top Dominator 100 rev. Transistor	125.00 148.15 152.78	88 note 1083.00 Rhodes Suitcase. 73 Note 944.00 Rhodes Stage. 88 Note 738.00 Rhodes Stage, 73 Note 529.00 Super Satellite Power Speakers 565.00 Rhodes Bass 363.00 CRUMAR LTD.  HAVEN ORGANS 200 548.00 201 554.00 202 996.00 203 1196.00 51 Portable 1106.49	DRGANS Diganet 41 Organet 40 Organet 240 RA Organet 440 S Consul Weeked 3 Organet 30	223 89 386.33 539 95 735 45 328 43 422.96 488 70 56 44 123.44 180.88	Explorer   553 60	18" China type 50.20ea 20" China type 52.25ea No.1 Sound Set 21.75ea No.2 7 Sound Set 21.75ea No.3 7 Sound Set 44.10ea No.4 7 Sound Set 50.20ea No.5 7 Sound Set 50.20ea No.6 7 Sound Set 50.20ea No.6 7 Sound Set 63.75ea 14" Joe Maretto Hi-Hat 75.60ea 14" Joe Maretto Hi-Hat 75.60ea 18" Joe Morello 44.05ea 18" Joe Morello 63.75ea	HI-HATS , 25451 , 25452	15.56 35.88 3.566 4.26 4.26 9.31 11.71 13.80 7.27 8.43 10.79 114.03 18.06 22.95	ROSE-MCRRIS  LUDWIG  Vistalitie B.B. OF 638 9  Vistalitie Pro-B OF 638 9  Cota-Plus OF 536 3  Mach-5 OF 639 0  Deluse Classic OF 536 3  Super Classic OF 440.0  Super Classic OF 689 0  Advisor OF 689 0  Super Classic OF 689 0  144 0 440 0 689 0  15 x 14 Sup. sens 1  10 3 61 x 14 Sup. phon 5  Snare 113.1	10" Crash 12" Crash 13" Hi-Hai 14" Hi-Hai 3 15" Hi-Hai 1 17" Hi-Hai 1 18" 7 19" 7 20" 22" 1 12" 1 12" 1 14" 1 15" 1 14" 1 15" 1 16" 1 16" 1 16" 1 16"	14 35 19 21 25,69 28,69 30,23 31,74 41,66 46,25 15,27 15,74 15,27 22,68 28,28

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OP GEAR	Starfinder twin 15 106.48	CRUMAR	HODNBY CAEMES	CORDOVOX PORTABLE	CLEARTONE	ZYN'CYMBALS	5 x 14" Supphon Snare 72.63	SUMMERFIELD
(AMP	Super starfdr.200 148.15 Starfinder super80 115.74	KEYBOARDS Mulliman 462.00	HORNBY-SKEWES	ORGANS CDX-0652/built	i -	272 274 6 05	6½ × 14" Sup-phon Sanare 75.44	8520 Bs spurs 74 07
t.Port. 15.50	Aggressor 120.37	Multimen P/board 45.00	EKO ELECTRONIC CHORD ORGANS	in moog 580.00	SUNGERLAND Joe Custais 4 N	275 276 7.19 8.50	5 × 14" Acrotite snare 54.48	8522 8s spurs 85.16 8524 8s spurs 91.66
ATT AMP'N	1×12"/vel. con. 49.60	Stringman 369.00	3211 Tiveli18R 119.20	COX-0622 295.20	20" 375.81 Joe Cusatis 4N22" 381.59	1	Modern Share Drum	8526 Bs spurs 99 54
108 AP100 Sol. St. 180.00 604 AP 50 115.50	2×10" 41.60 2×10"/horn 49.60	Organizer 396.00 Jazzman 305.56	3213 Tivoli12 88.00	CRD-0610 120.00	New Rock 22" 460 85	JOHN	Quartet 392.54	8536 FITT 59.2
103 AP 100 150.00 201 AP 200 192.00	4×10" 60.19 6<10" diffuser 92.59	Brassman 320.00 Compacstring 230.00	EKO PORTABLE ELECTRONIC ORGANS	MOOG SYNTH Mini Moog 773.15	24" 512 58	HORNBY;SKEWES	SUPERCLASSIC TOM-TOMS 8 ×12" 61 47	8538 FI.TT 64.8 8588 Snare 74.0
12 PA 50/6 132 00	Club 2×12" 60.19	Compactrass 212.00	3208 Tiger 228.00 3205 Tiger	Sonic Six 795.37	Gene Krupa 20" 425.16 22" 431.94	HOSHINO DRUM	8 × 13" 64.25	8578 Snare 57.4 8585 Snare 52.7
112 PA 100/6 157.50 203 PA 200/6 216 00	Band 2×12" 75.93 Club system 74.07	LT COPPOSE	Mate 280.00	Taurus Pedal 452.78 Micro-Moog 462.04	Avante 22" 541.54 24" 547.31	OUTFITS HS0500 240.74	10 × 14" 65 66 12 × 15" 69.86	8575 Snare 40.7
100 Siv. 100 118.50 200 Siv. 200 174 00	Band system 87.95 Foot monitor 97.22	J.T. COPPOCK	3206 Tiger 61 280.00 3207 Tiger 61 R 319.20	L	Jazz Rock 2×24" 731.60	HSD500T 314.81 HM1000 148.15	14 × 14" Floor 83.82 15 = 16" Floor 92.18	8580 Snare 43 5 8512 TT 34.7
4 400 SIV, 400 276.00 2120 Ld. 100w	Intruder reflex bin 134.26 Vendetia sys.MKII 143.52	ELGAM ELECTRONIC ORGANS 2445.37	3202 Tiger Dup 340.00 3204 Tiger	SOLA SOUND	Modern Solo 22" 429 05 Pop 22" 428.75	HM2000 174.07	16 × 18" Floor 106.18	8513 TT 36 1 6514 TT 41.6
× 12" Cab 144.00	4×12" A super 90.74	244C 504 62	Dup R 399.20	Compact Pinno 181.50	Ouet 2×22" 564.35 Mod. Jazz 20" 359.63	HCT8 212.96 HM300 101.85		8515 TT 45.3
4121 Ld. 75w. I × 12" Cab. 123.00	X39 reflex bin 263 89	237 300.00 237C 361.11	3212 Tiger Duo A 447.00	Synthi A 649.00 Synthi DK2 K'bd. 230.00	San Juan 22" 456.22 Concorde 2×24 928.17	HK600M 33.33	CLASSIC BASS DRUMS/SPURS 14 × 20" 118 73	TAMARQYALSTAR DRUM
.41 23 Ld. 100w./Bs. 75w4×12°Cab. 136,50	WHITE	2049C - 152.77 249 281.48	EKO CONSOLE	Synthi AKS 869.00 Synthi DX2 k bd. 220.00	SLINGERLAND DRUMS	PREMIER	14 × 22" 127.13 14 × 24" 135 49	0UTFITS 7917 365.7
4122 Ld. 150w./Bs.	LW 100 149.00	249R 326.00 610 249.00	ELECTRONIC ORGANS 3025 Cantorum	Hi-Fii- Synthi 429.00	4N Joe Custario.20" 303.32	TYMBALES	14 × 26" 145.28	7925 296.3 7924 261.1
260 AP 2 × 15"	\$L 150 119.00	610R 298 14 3049 DL 189.81	44A 399.20 3032 Demus	THOMAS ORGANS	4N Joe Custatis22" 345 35 50N New Rock,22" 380.08	631 13 • 14 × 6 77 71	SELMER	7955 284.2 7954 272.2
. 320 AP 4 × 12"	SL 250 135 70 PA 150 186 00	3049 DLR 238.88	37 (A) 399.20		51N Super Rock,24" 417 80 80N Buddy Rick,22" 408.96	532 13 + 14 × 6 71.77		7805 364.2
2150 150w 2 × 15"	M50 1×12 mntr. 62.90 PA 50 1·12 PA.cab. 52.00	2049 145 37 1049 112.96	3034 Domus 44 (A) 479.20	1129 Cavalier 319.20 1129 Cavalier D/L 340.00	80N Buddy Rich,24" 420 37 IN Gene Krupa,20" 309.11	CYMBALS 323P12" pr 9.29	PEARL PROF, DRUM OUTFITS. Dyna-family 22"	7804 332.4 7904 217.5
Bs Rel. Cab. 154.50	PAS 100 2-12 PA.cab. 82.20 PAS 100 4-12 PA cab. 137.20	1037 87 96	3019 Corale LTS 799.20	1130 European Royale 423.80 1157 Majestic Royale 479.80	1N Gene Krupa.22" 319 74	233P13" pr 10.91 234P 14" pr 12.96	Wd-fgls. 575.92 Dyna-family 22"	DRUMS
12" PA Col.100w 141.00 12" PA col.150w 157,50	LW 200 4-12 gtr.cab. 137.20 AP 100M 1-L5gtr.cab. 103.96	ELGAM ELECTRONIC PIANO Gypsy 310.18	3002 Majestic Auto CT 1198.00	1160 Le Grande Royale 679.60 183 Troubadour 786.76	60N Avante,22" 435.09 60N Avante,24" 446.25	235P 15" pr 14.58	Wd-fgls Satin 618.51	7520 Bs. spurs 59.2 7522 Bs spurs 69.4
12" PA / Mon.	PAS/H154 PA cab. 238.85	Portable 184 25	3003 Coliseum	184 Troubadour 679.20	57N New Rock 241r 647.13 2R Model Solo,22" 380.00	236P 16" pr 16.09 268S 18" sizzle 13.50	Dyna-family 24" Wd-Igls. 590 74	SA7520 Bs spurs 60.
121 PA/Mon.	PAR 123 1-12 bin 181.90 PAR 155 1-15 bin 211.15	DAVOLL		1263 Cameo Royale 930.55 1265 Cameo Supreme 1199 20	58N Pop. 342.46 14N Ouet,22" 487.27	269S 20" sizzle 15.34 272 12" 4.27	Dyna-family 24"Wd-fgls. Satin 636.11	\$A7522 Bs spurs 69. TD7820 Bs spurs 100.
ab. 75w 88.50 212 50w 2 × 12"	PAR 152 1-15 fld.hrn. 202.70 H100 E hrn. 162,60	DAVOLI	LOGAN CONSOLE ELECTRONIC ORGANS	266 Californian Quad 1299.00 267 Californian Qual 1399.60	9N Modern Jazz, 18" 286 85	272 12" or 8.59 273.13" 5.45	Fulldimension 22" Wd-fgls. 393.51	TD7822 Bs spurs 107. 7534 F1.TT 41.
d. combo 168.00 Dw 2 × 12" combo kl.	H100 V hrn. 209.10 lens 327.00	KEYBOARD & SYNTHESISEAS	10.022 Weekend 559.20 10.060 Holiday	371 Menticelle/moog. 1895.50 372 Menticelle Theatre	9N Modern Jazz, 20" 296.94 65N San Juan, 22" 354.10	273P 13" pr 10 91 274 14" 6.53	Fulldimension 22" Wd-fgls.	7536 FI.TT 44. 7538 FI.TT 53.
evb/vib 216 00 412 50w 4 =12"	1-18 fld hrn bs 222 00	Davolisint 215.00	300 719.20 10.051 Holiday	moog. 1995.00	11N Concorde, 24" 930 35	274P 14" pr 13 07	Fulldimension 22"	SA7534 FITT 41.
s. combo 211 50	MATERIO .	Siniacord 260.00	400 940.00	606 Trianon 2517.71 871 Celebrity Royale 3193.97	SNARE 120 Super Sound King	275 15" 7.83 2759 15" pr 15.61	Fibregis 439.81 Fulldimension 22" Fibregis	TD7834 FI.TT 61.
.4120 100w 4 × 12" All purp, combo 235.50	WING TRAYNOR	ELKA-ORLA	ABD-ONELECTRONIC	1050 Moog Sattelite / Synthesizer 350.48	5 × 14",Ten Lug 92.37 121 Super Sound King	176 15" 9.23 178 18" 13.18	Setin 470.37 Fulldimension 22"	T07836 FI.TT 74.1 SA7512 TT 24.1
AVY COMB, AMPS		CHICAGO	KEYBOARDS 10.023 Logan		61/4×14",Ten Lug 96.06	180 20" 15.01 282 22" 17.93	N P.phen. 412 03 Fulldamension 22" N.P.phen.	SA7513 IT 26.3 T07812 IT 34.3
cer 45w / rev. 1 × 12" 142.50 T 45w 1 × 15" bs. 157.50	COMBOS YGM-3, 30 90 00	37/12 96.66 Chicago 49 100.62	String Melody 452.04	vox	Sound King, 5 × 14". 8 Lug. 63.03		Satio 441.66	TD7813 TT 39.3
ssic 50w rev 2 × 12" 187.50	YGM-4, 40 111.00 YGL-3,90w 198.00	Tiffany 3/6rhy 114.77	ELECTRONIC PIANOS CEP2 Crumar	String Thing 370.36	131 Sound King,61/2×14" 8 Lug 64.95	SUPERZYN: 352 12" 17.44	Fulldimension 24" Wd-fgls 401.85	SWING STAR OUTFITS
ssic 50w rev. 4 × 10" 217.50 tage 120w rev.	YBA-2B, Bass 30w 90.00 YBA-4,50w 141.00	Companion P37/12	Piano 208.33	Cors. Elec. Org. 370.18 Elec. piano 175.86	132 Sound King, 5×14", 10 Lug 64,05	363 13" 19.60 354 14" 21.98	Fulldimesnion 24" Wd-fgls. Satin 430.55	5.50\$ 260.7 \$-5 339.3
: x 12" 307.50 tage 120w rev.		6 rhy 128.96 Companion P21/6rhy 132.09	CEP3 S Crumar Piano 226,85		133 Sound King,	354P.14" pr 43.90 355 15" 23.98	Fulldimension 24" Fibreals 444 44	S-4 1967 S-04 186.5
o 10" 337.50 tage 120w rev.	AMPS YBA-1, 50w Bass 89.00	Companion P37/12/6 rhy & auto bs. acc. 149.38	CEP72 B Crumar Prano 226 85	PERCUSSION	5'A*14", 10 Lug 67 00 176 Buddy Rich,	355P 16" pr 47.90	Fulldimension 24" Fibregis	
× 10" 367.50 ce 11 120w rev.	YRM-1, 50w 111 00 YBA-1 A, 100w Bass 120.00	Companion L5/6 rhy 136.82	403 RWA Baleani Modernal Console	PERCOSSION	4×14", 8 Lug 68.12 141 Festival,	356 16" 26.30 358 18" 30.51	Fulldimension 24" N.P.	W.M.I.
× 12" 277.50	YGL-3 A, 100w 141.00 Monoblock 325 225.00	CONSOLES	Organ 204.00		5×14", 8 Lug 50.82 152 Artist,	3585 18" sizzle 31.32 360 20" 34.99	Phen. 416.66 Fulldimension 24"P.N. phen.	TAMBORINES TH.81 1.6
sion 200w rev + 15" 412.50	SPEAKERS	Fantasy 20 37/12/ 6 rhy 157.22	JENNINGS ORGANS	BOOSEY & HAWKES	51/x14", 8 Lug 60.99 173D/lx Concert King,	3505 20" sizzle 35.86 362 22" 43.74	Salin 447.22 Soundventure 22"	TH.102 2.1 TH.104 3.4
sion 200w rev. × 12" 427.50	YS-15P, 15" B1.00	Fantasy 20/6 rhy 161.97 Fantasy 27/10 rhy 204.44	· ·		5×14", 10 Lug 86.93	374P 14" pr 48.22 375P15" pr 52.76	Wd-fgls 381.48 Soundventure 22" Wd-fgls	TS.106 4,9
sion 200w rev. × 12" 337.50	YF-10, 4×10" 102.00	ELKA PORT. ORGANS Tornado 4 182.90	J.70 2 Man.Port. 536.00 J.71 3 Man. Port. 548.00	BEVERLY Panorama 21 196.70	174 D / lux Concert King, 6×14". 10 Lug 83.11	376P 16" pr 57.78	Satin 404.62 Soundventure 22"	BONGO DRUMS
ce 160w rev × 12" 367.50	YC-8 10.8×10" 170.74 YC-6 10. 6×10" 129.00	T.L. 49 182.90 Capri Junior 191.50		Panorama 22 293.96 Panorama 24 243.05	TOM TOMS	TOM-TOMS	libregis 454.62	B 65 4.3
ce 160w rev.	Y-2 12, 2×12" 96 00 YF-12, 4×12" 138.00	Capri Junior/rev. 211 98 X-55 658.58	KEMBLE	Galaxy 18 158.56 Galaxy 21 171.34	1411 12×8" 51.18 1401 13×9" 55.46	433 13 × 9" 35.05 435 14 × 14" 45.85	Soundventure 22" fibregis Satin 479.62	DRUM KIT D—3 74.0
	YCV-188 1×18" 252 00 YCV-215.2×15" 252.00	Concord 400 754.97	YAMAHA K'BOS	Galaxy 24 174 21	1398 14 ± 10" 59.07 1399 15 × 10" 51.43	436 16 × 20" 55.03 440 14 × 10" 38.83	Soundventure 22" N P Phen. 415.74	D—3 74.0
P HEAD\$ tury 60w all/p. 135.00	YCV-212, 2×12" 159.00	ELKA CONSOLE ORGANS Minuette 99 372.48	B2R 275.00 BK2 412.00	ZILDJIAN CYMBALS	1400 15 × 12" 65.61	442 12 × 8" 32.35 444 14 × 9" 36.67	Soundventure 22" N.P. Phen. Satin 439 81	
nury 100w all/p. 142.50 ndard 130w/rev	P.A.	Minuette 98/MT 438 98 Capriccio 11 457.32	B4CR 480.00 BK4B 524.00	8" 13.43 15.74	1405 16 = 16" 87.94	445 15 × 16" 50.17	Soundventure 24"	1.
ii/p 172.50 sician rev/eq. 200w 247.50	YVM-2, 30w 59.00 YVM-3, 30w 90.00	Capriccio 11/MT 523.85 Capriccio 11/O 607.01	85CR 600.00 8K5 676.00	12" 19.91 13" 22.22	1470 18 × 16" 103.06 1475 20 × 18" 123.07	1446 16 × 16" 37.69	Wd-fgls 392 59 Soundventure 24"Wd-fgls	GUITARS
s 200w automix 232.50	YVM-4, 4ch. 158.76 YVM-6, 6ch. 198.00	Caprice is 33 690.14	8208R 800.00 B30R 988.00	14" 26.85 15" 29.17	BASS (inc. spurs.)	1445 16 × 16" 1hd. 30.46 1435 14 × 14" 36.18	Satin 414.18 Soundventure 24"	
tival 110w/rev 232.50 d Master 200w	YPM-1, 100w 90.00 MX8,8 ch. 179.00	Capriceio 33/0 839.88	CSY1 1040.00	16" 31.02	312 14 × 18" 97.14 323 14 × 20" 114.87	11433 13 = 6" 25.27 11442 12 × 8" 23.76	fibregis 464.81 Soundventure 24" Fibregis	ARC
//automix 307.50 OG 400w/revigtr. 427.50	MX16, 16 ch. T.B.A.	Caprictio 33/OL 939.64 Notturno 44/L 806.58	CSY2 1200.00 BK20B 1120.00	17" 33.33 18" 37.96	335 14 × 22" 125.50	1441 12 × 8" 1 hd. 18.79 1448 18 × 16" 39.27	Satin 485.18 Soundventure 24" N.P	1
008 400w/bs eq. 367.50	LAU B.B. 1	Notturno 44/MTL 873.13 Notturno 44/OL 956.33	D3R 1200.00 D3R (white) 1240.00	18" 43.98 19" 40.28	306A 14 × 24" 141.22 314 14 × 26" 158.00	1	Phen. 425.00	ELECT.SLD.BDY Swede 166.6
AKER CABS 60-w 1 × 15" 97.50	W.M.3.	Natturno 66/L 1005.78	DK40A 1576.00	20" 43.98 20" 50.93	CONCERT TOMS (inc. stands)	6206P 6" straps pr 3.13	Soundventure 24" N.P. Phen Satio 444.44	Swede bs. 176: F.200N 101.
-brd. 100w2×12" 120.00	AMPLIFIERS CM.8 15.69	Notturno 66/MTL 1072.70	E5AR 300.00	20" 50.93	90 Low Pitch 227.39 91 High Pitch 141 02	6208P 6" + straps pair 3.94	Rockit WdShis 360.18 Rockit 24" Wdshis	F.400.Nbs. 101.1 F.100.B. 65.
0 150w 2× 15" 165.00 -brd. 200w Ige	CM.8 15.69 K 68 27.73	Elka Elec. Ki-brds Elkapiano 88/cs+lgs 209.52	EX42 7500.00	21" 49.07 22" 55.56	1	6210 10" 2.59 6211 11" 3.13	Satin 375.00 Rockit 24" Wd-	į.
× 12" 190.00 -brd. 200w stackable	ZOOT HORN	Elkarhapsody 490 /cs+lgs 250.32	COMBO DRGANS YC.25D 651.00	22" 62.04	LATIN AMERICAN PERCUSSION Prices to be announced.	6212 12" 3.73 6213 13" 4.61	fibregis 360.18	SEMI-ACOUSTIC V.IN. 122.3
12" 160.00 brd. 150w 2 × 15"	ZOOT-HORN	Elkarhapsody 490 240.18 Elka rhapsody 610/	YC.45D 1225.00	ZILDJIAN BRILLIANT (10" 19,44		16214 14" 5.72	Rockit 24" Wd-fibregis Satin 375 00	Jimmy D'Aquisto P.O.
horn 210.00	BASS BINS BB1 200W ×15"Gauss 195.00	cs+lps. 432.80	PORTABLE SYNTHESIZER	1 13" 25.93	DAVOLI	6215 15" 6.80 6216 16" 8.05	Rockit 24" FgIs 400.00 Rockit 24" FgIs	COUNTRY & WESTERN H.45-6str. jbo. 72.6
org. 100w stackable 18" 210.00	BB2 400W 2×15"Gauss 315 00 BB3 200W 1×15"Gauss 195.00	As above, emplified Elkapiano 88/A 433.85	SY1/case × Exp. 440.00	15" 32.41	RITMÓ	6218 16" 11.05 62185 16" sizzte 11.72	Satin 375 00 Rockit 24" N.P.	H.33-12str.jbo. 77.5
LAVE, MIXERS.	BB4 200W 1×18"Guass 309.00	Elkarhepsody 610/A	SY2/stand × pedal 480.00	16" 34.72 17" 37.04	10 8.14 11 8.79	6220.20" 13.07	Phen, 365.74	CLASSIC
20 60w 4ch/rev 150.00 20 100w 4ch/rev 172 50	MID BINS	FARFISA	PORTABLE ORGANS YC25D 651.00	18" 41.20 18" 48.15	12 9.53 13 11.85	6220S 16" sizzle 13.07 6222 22" 15.66	Rockit 24" N.P. Phen. Satin 402.77	H.C.4 43. H.C.5 32.
idard 130w rev mix 187.50	MB1 150W 2×12"ATC 186.00 MB1 400W 2×12"		YC45D 1225.00	20" 48.16	14 15.00 15 16.20	6224 24" 18.95	Powermate 22" VVd-fgls 317.59 -	DYNELECTRON
100 200w rév 2 input 247.50	Guass 229.00	Pianorgan 324.61 Balfour 403.07	B.P.1 85,00	20" 54.40 20" 54.40	16 18.05	08UM OUTFITS 60 20" 98.93	Powermate 22" Worlgts Satin 334.25	273 151.6
500 200w 18 pou mix 450 00		Beaumont 520:00 Belgrave 636:92		20" 54.40 22" 59.26 22" 65.51	18 26.65 20 31.94 22 39.35	B60 22" 102.28	Powermate 22" Fgls 369.44 Powermate 22" Fgls	274 bs. 151.6 295 bs.f/ls. 151.6
7	t	LBaimprai 710.76 QUIPMENT/KEYBOA	1	1	22 39.35 24 46.29	62 20" 139.10	Personal Per	t .
					47.49			

	A DC/8410	ROPHONES	
171111	AKSOVIII.	RUPHUMES	

OUIIANO	_	<del></del>		Clas. Baltadeer Nly.st. 241.65		LH2380 176.00	1	January Strange (1
PEARL	ANTORIA CLASSICAL	FRAMUS	ZENTA ELECTRICS	Folkiore Steel St. 272.06 Cust. Balladeer 6st. 256.82	JUMBO FLATTOP	2348 144.00	360 0 / lx stereo, 2p / u dbl. c/way 344,00	BEYER DYNAMIC
PF.200 llk. 41.31 PF.250/6 jbo 49.20	2839 39.3		(NEW MODELS) EG501 21.60	Clas. Nylon string 325.30	J-200 Artist 517,59 Dove Custom 364.25	23488 152.00	db), c/way 344,00 370 3p/∪ stereo d/b:	MICROPHONES
PF.250/12 jb. 51.96	2840 45.3 2841 47.2	7 CLASSIC 2 01010 50.92	EG502 23.92	Conc. cl. nyl. string 256.82 Legend 6st. steel 313.15	Gospei 349.07	SUMBRO ELECT	dble c/way 376 00	DOUBLE RIBBON
FT.155 jbp. 54.13	2850 39.6	01210 6944	EB511 25.20	Legend 6st, steel 313.15 Artist 6st steel 258.35	Heritage Custom 349.07 Hummingbird custom 309.25	GE1 29 22 SG6M 52 80	BASS	M 160 N 96.07 M 160 (C) 98.37
DANA	2855 53,7 2858 sla.grd. 94.4	01510 137.96	heg5006 30.40 HEGB5004 38.40	Country Art. Nyl 258.35	SJ De luxe 276.85	\$G6M 52.80 \$G42M 58.80	4000 1 p/u solid	
R.30 T/pc. 8 23	F2871 Firmes. 94.4		HET5001 32.80	Electric Art. steel 348.15	J-50 228.70	LP2G 58.80	body 296.00	RIBBON
R.105 10.67 F.33 fik. 19.56	1	05011 Dix 6 66.66	HES5000 34.00	Nvl. 348,15	J-45 224.07 J-40 196.29	LPGC 62.80 LPSGC 62.80	4001 2 p/u d/lx steréo solid body 344.00	M 260 N 42.15 M 260 (C) 46.89
1	TAMA 3561 S 120.6	05810 Falcon D/nght 118.51	HEP5002 42.40	Electric Clas. Nyl. 409.01	J-55 276.85	LPSGC 62.80 LS200 68.00	4001/L Lefthand(4001) 416.0	M 260 S.M. 46.99
SCDB.	3550 S 133.3	05550 Falcon	VENDIE	Electric Folklore Steel 355.76	SAXON	SC36W 50.80	4001/8 8str. (4001) 496.00 4005 D/lx hollow body	M 260 N(C)2 49.28 M 500 N 53.25
SCDBR 200.06 L/scl.bs, 250.00	3558 S Jbo. 119.9	Jumbo 147.22	KEMBLE	Electric Pacemaker	CLASSIC HANGE	SC36DN 66.00 SC3 58.00	2 p/u 392.00	M 500 N 53.25 M 500 (C) 56.79
S/scl.bs. 225.00	3550 P Grd. 86 1	05710 Nasv. D/nght 180.55	CLASSICS	12 si. 416.56	810 18.51	JB200 80.00	1	1
	3550 S Grd.	05910 Nashv	G.56 33 33	SIGMA	813 29 16 814 31.25		TWIN NECK 362/12Thinbodys-acoust	MOVING COIL M 55 L.M. 13.58
JOHN BIRCH	concert 88.6	Jumbo 205.00	G.65 37.03 G.90 40.09	Grd. Con. Fk. 6 st.	815 3956	HAWA1IAN 2391 54.80	inc. 360 & 360/12 864.00	M 55 (K) 14.20
	1 YAMAKI	WESTERN 12 STRING	G.120 45.61	GCS6 55.55 Grd Con Fk. 6 st.	816 46.06	2390 24.00	4080 Solid body inc. 480 & 4001 736.00	M 57 20.11
	225 12 str.jbo. 93.5	06011 Dix 12 75.38	G.150 50 92 G.180 61.44	GCR7 79.41	FOLK RANGE	HG308 80.00 HG1180 100.00	480 & 4001 736.00	M 57 v 26.11 1 M 64 N 16.95
ALL STANDARD/	220 12 str.jbo. 83 6 215 12 str.jbo. 75.4		G.220 72.52	Dreadhought 6 st DR7 88.66	812 26 62	Inditac 100.00	Isar Be I	M 64 S.H. 26.78
SINGLE NECK/SIX	120 6 str. jbo. 81.0	2	G.280 89.81	Jumbo 6si DM5 66.82 Sigma Classic CR6 53.89	817 33.33 818 37.50		JW.M.I.	M 67 N 44.70   M 67 (C) 48.24
STRING FROM 260.00	115 6 str. jbo. 62.5 112 6 str. ik. 43.5	5 SOLID BODY 1 10170 FS/74 78.70	GC 3 H/made 111.11 GC 6 H/made 157.40	Sigma Classic CR7 73.75	1	TOD 0540	ACQUSTICSTL STL STR.	M 68 28 45
ALL TWIN NECKS		10200 5/155 127 77	GC 10 H/made 212.96	Srgma Dreadnought 12 st. DR.12-7 90 75	JUMBO FLATTOP	TOP GEAR	K. 230 15.69 K410 25.87	M 69 N 33.85
FROM 450.00	ANTORIA 756 Herald 74.5	11010 Nashv.	FOLK	Jumbo 12 st. DM 12-5 73.75	819 36.11 820 40.27	D/GUILD NOUGHT	K 440 19.90	M 69 (C) 36.14 M 69 S.M. 36.14
1 11311144020	757 Gt.Wstn.Std. 58.3		FG.75 39.30		821 40.74	ACOUSTIC	K. 450 20.83	M 69 N(C)2 38.44
	758 Gt.Wstn.	\$tan.D/lx 230.55	FG.11 ON 43.57	EKO Rio Bravo 6 st. 56.73	822 12 str. 41.20 823 40.74	D-55NT "T.V." 8/wd   392.00 D-50NT Bluegrass	K 520 27.73 K. 530 30.09	M 81 LM 17 55 M 81 (K) 18.17
1	Art Jbo 103.7 695 Nishvtli 6 40.2		FG.160 Jumbo 53.95 FG.170 55.12	Rio Bravo 12 st 62.70	824 53.70	Special R/wd 328.00	KDG 70 31.94	M 88 N 81 04
BOOSEY & HAWKES	697 D'ngt 69.4	10980 Jan Akkerman 508.33	FG.200 N Jumbo 67.22	Renger 6 st. 39 76 Ranger 6 st. Elec. 46.66	825 57 40	D-44MBL Bluegrass Jubilee Map 312.00	K. 550 27.73 KDG, 68 61.00	M 88 (C) 83.33 M 101 N 44 70
DOOGE   & HAWKES	307 FK. 37.3	j	FG 260 Jumbo, 12 st. 76.57 FG 280 Jumbo 76.98	Ranger 12 st 46.44	SOLID RANGE	G-41NT Jumbo 17" Body 304.00	K 475 20.83	M 101 (C) 48.24
DI GIORGIO	627 LI/h 47 2	12002 J7156 2 85.18	FG.300 N Jumbo 99 07	Ranger 12 st. elec. 51 94	830 55 20	G-75NT %body 296 00	1	M 111 N 56.82
No 16 Signorina Classic 36.25 No 28 Classico Classic 43.52	627 B co ibo. 40.7	12510 Nashv.	FG. 360 Jumbo 101.65	Studio RM 6st tk 29.99 Colorado 6 st. tk. 16.63	631 52 99	G-378L Arched Back Map 248.00	NYLON STRINGS KC. 265 13.64	M 201 N 47.62 M 201 (C) 49.09
No 36 Belsom Classic 66.22	627/12 Bicojbo. 48.1 79 Calif.tk. 34.7		FG, 580 Jumbo 123.79 FG, 1500 H/made 336.11	Sombrero 6st 46.90	SELMER QUITARS	D-40NT Bluegrass Jubiles	KC 333 16.62	M 410 N (T) 24.22
No 30 Amazon Classic 50.92	628 Calif jbo 47.2	Stan D/Ix 368.51	FG 2000 H/made 379.62	Sombrero 12 st 54,16 Studio L 6st lk 16 83	Hancher 6 st. C × W 25.69	Nat 248.00 D-40\$B Bluegrass Jubilee	KDG. 50 22.17	M 410 N(C) 25.69 M 410N(T)S 25.69
TAKEHARU	628/12 Calif.jbo. 53.7 684/6 L I/h 53.7		FG295 80.00 FG700S With Handmade	Navajo 6 st. 28.81	Rancher 12 str.	c/hrst 248.00	ELECTRIC GTRS.	M: 410 M(T)S2 25.69
GT230A small 49.00 GT 308 small 49.00	684/6 Sup. (bp. 50.0	SEMI-ACCOUSTIC	Case 179.00	Navajo 12 st 33.79 El Dorado 6si 78.89	C = W 31.48	D-40NT L/H Bluegrass Jubilea 272.80	K. 220 27 31 KE. 120 23.10	M. 410 N(C)S 27 14 M. 411 N(T) 26.32
GT 86 32.30	648/12Sup.jbo. 56.9 693 Gnt.Jm.d/I 52.7		FG1000With Bandmade Case 259.00	El Dorado 12st. 88.23	JUMBO ELECTRIC PLATTOP	D-40C New Bluegrass	KE8. 130 27 31	M 411 N(C) 27 77
GT 120 37.00	696 Gnt.Jm 50.0	) JAZZ	FG1200 With Handmade	El Guacho cutaway Acoustic 6st 88.72	J-160E 280.00	Jubilee 304.00	1	M 411 N(T)S 27.78
GT 180 49.00 WT 100 jumbo 36.35	698 MGLWst.bs 71.7 698 Gt Wst.jbo 61.5		Case 289.00	El Paso Jumbo 6si 67.39	GIBSON 12st FLATTOP	Professione Cutaway D-35NTL/h Bluegrass	WOODS (BOLTON)	M 411 N(T)S2 27.78 M 411 N(C)S 29.24
WT 200 jumbo 50 90	684 E.Sup.Elc. 56.4		FOLK & PICK UP	STUDENT GUITARS	8-45-12N Deluxe 284.25	Nat 237.60	WELSON	M 412 N(T)S 29.67
VITTORO	698 E.G1 Wst Elec. 72.5 2374 sem-Ac.id 97.0		FG 110 E 53 05 FG. 160 E 64.53	Dulcet Nyl. st. 12.60	GIBSON LTD ED.	D-35NT Bluegrass Nai 216.00	Laguerra	M 412 N(T)S2 29.67 M 550 L.M. 12 75
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Jaguar (500) 280.00	2386 L I/h 127.3		SG 30 77 26 SG. 35 93.64	DOCETT!	SUMMERFIELD	R/wd J 480.00	Granada 49.50 Castilla 56.10	CALREC AUDIO
Strat/trem. 232.00	2376 Dixie f/bs.bs. 98.1	UL77 R'N.R.G. 247	SG. 40 104 52	ROSETTI	SOMMERFIELD	F-50BL Navarre Map 17" J 392 00	Castills 56.10 Sevilla 74.81	durana anni anti
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T/cstr /Trem. 271.00	Natural 97.2		\$8. 35 Bass 93.64	9198 16.66 9225 20.36	730 Seville 16 66	17" S/brst J 384 00 F-48NT Navarre Mahog 17" J 328 00	FOLK FT/25 30.26	CM450D 45.00
T/cstr. Cust 196.00 T/cstr./Trem.	2375 Lsibsi I/h 89 8 2375 W Rockimo		SBL, 55 136 03 SBL, 75 159.09	9625N 11.61	CIMARICLASSIC	17" J 328 90	FT/27 36.30	CONDENSOR
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Bronco 112.00 M/mstr. 103.00	R'wd fb. 81 0	238 M Fit. Med. 697	1	FT335 70.37 FT350 85.88	387 49 61 388 45.83	F-30NT Aragon 151/4 Nat F 192.00	Serenata VIII 34.65	CM656D 34 32 CB7D 33.25
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T/estr. 234 00	2365 B Dixie bs 76 8 2365 Dxmstr. 58.3		MARTIN	FT5708L 97.22	P35 122 22 P45 152.77	Nat F 211.20	Fantom 36 53.36 Fantom 39 58.31	CC54 11.58
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STEEL STRUNG	2354 W/stk.l/bs 80.0 2354 BW/stk.bs 70 8	1	ARDSTEGUI No.2 18 52	EC20 41.20	P700 217.59	17" Jumbo R/wd 504.00	Dyno II 70.95 Vedette 81.41	CAPSULES
F-16 38.95 F-25 45.35 F-35 49.80	2394 W/sik nat 77.3	MUSIMA '	No 4 20.37	EC24 56.94 ET255 103.60	P800 254.62	F-4128L Custom Flamed Map 17" Jumbo 448.00	Super Jazz 95 70	CCO1 23 38 CCO3 23.38
F-35 49.80	2347 W/sik.jn. 96.3 2338 W/sik.sid. 94.0	) 1612 N 13.56 1612 S 13.24	No.6 22.22	EA260 87.96	379.02	F-212XLNT Extra Lge Mahog	Red Flame 75.36 Black Pearl 81.41	CC50 23.28
F-45 50.85 F-55-12 61.90 F-85- 62.00	2383 W/sik ctm 1101	1	OSCARTELLER	EA250 84.00 ET275 91 67	MASARUKOHNO M.K.10 370.37	17" Jumbo 336.00 F-212XLNTL/H Extra Lge Mahog		CC51 23.28 COMBINATION
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BASS	2350 B Mem.bs. 72.6	MORIDAIRA	CALABERT OS 18 52	RAVER ELEC. SOL.	IBANEZ + CIMAR	Folk 224 00 G-312NT FI/sd 16"	BASS	
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Precision f/Is 186.00 Jazz bs. 223.00	2351 DX Mam.d/I 91.6	845 class. 38.25	É 69 45	DYNELECTRON	65 llk. 44 90 615 mb 50 92	D/nght 296.00	Starfire Bass 61.05	Sennheiser MD413N 40.95 Sennheiser MD416N 51.45
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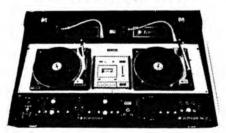
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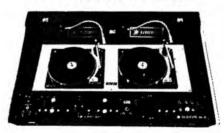
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