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We'd like to take this opportunity to say thanks to all of you who gave us your overwhelming vote of confidence in the new magazine. Over ten thousand of you in the first few weeks!

It is, of course, excellent value for money. In this issue alone we feature four projects, each one of which would probably have been a front cover article in the monthly electronics magazines - and the longer ones would have been spread over two months or more. Another great advantage with building our projects is that we make available the PCB's and front panels - so that the finished project can look as nice as a factory made one. Also this time you'll note that we've made ordering easy for you by making available a complete kit of each section of each project. So now you no longer need to order long lists of components, just one number orders the whole kit for you.

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In this issue we also have the first of our sets of special offers. The three in this issue alone will save you nearly £30! over previous selling prices. And we promise you many more like these i-n the months to come.

Perhaps the most amazing offer this time is the CB set featured on the front cover. A full £30 cheaper than equivalent sets in the shops at the moment. We are importing these directly in order to make the saving and each one will be individually tested in our laboratory before it is dispatched to you. We have also introduced a whole range of CB equipment to complement our new rig, so now you can get all you need from Maplin.

We're already working on issues three and four and we've got lots of exciting and interesting projects and bargains lined up for you. The Maplin Magazine is essential reading for all electronics and computer enthusiasts. Don't miss it place your subscription now.

Cover Picture

The superb colour photograph by W. Sharman shows the 80135 leaving Levisham with the 09:50 from Grosmont for Pickering. Our thanks to Mr Sharman for his permission to use that photograph and the ones in the Train Controller article.

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DIGITAL MULTI -TRAIN CONTROLLER

by Robert Kirsch

- 14 locomotives individually controlled on the same track
- Any 4 locomotives controlled simultaneously
- Automatic short-circuit protection
- Supply always present for carriage lighting etc.
- Remote control and computer interfacing
- Low cost two wire system

ailway enthusiasts have for many years appreciated the need for a control system that enables trains to be driven as if the operator were in the driving cab of the locomotive. This not only means control of speed and direction of that locomotive, but also the ability to move anywhere on the layout without the need for track isolating or switching, thus making the wiring of the layout much simpler.

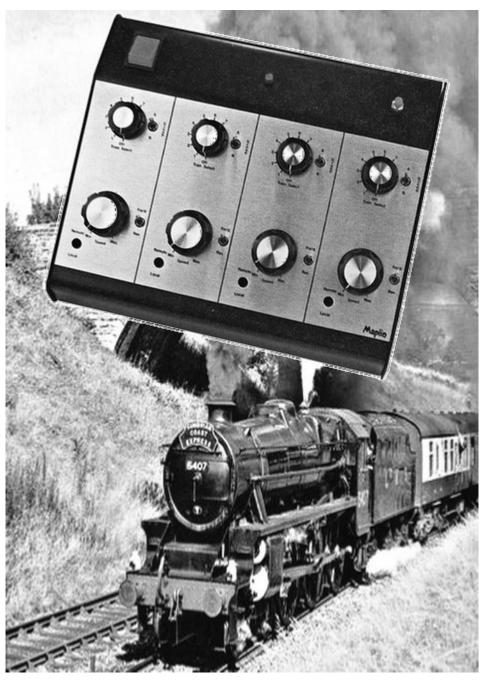
The system described in this article fulfils all these needs by producing a constant 18 volts DC on the track with digital information superimposed on it, to which only the selected train or trains will respond. The permanent track voltage also means that locomotive headlights, carriage lighting and many accessories may be used unaffected by the speed of the trains.

This system can control up to 14 locomotives all on the same track, and any four of these may be driven independently at one time. Provision is also made for any or all, of the four control units to be operated by a 7 bit digital input, thus enabling remote control either from hand-held units (using wire or radio) or from a home computer, giving full control of direction and speed.

Details of the remote control and computer interfacing will be described in later articles.

Circuit Description

Refer to Figures 1 to 5 when following the circuit description.



The most important consideration in the design of a system like this is to keep the receiver module as small as practical to enable it to fit in as many 2 locomotives as possible. This has been achieved by using a small 8 pin IC, the ML 926/7, IC1 as the receiver. Decoding and control is accomplished by IC2, a 40106 CMOS IC leaving two transistors, TR2 and TR3 as input amplifiers, the six transistors TR4 to TR9 for motor control and one transistor, TR1 as a voltage stabiliser.

The ML 926 and ML 927 are pulse position modulation (PPM) receivers

with built-in error detection circuits. There are four outputs from each IC, three of which are decoded by IC2 to control one of the seven receivers. (000 is used as the all off condition.) The fourth output is used to control the direction of travel. A fifth bit is transmitted by the control unit to select either the ML 926 or the ML 927 ICs, thus giving fourteen channels.

As it is only possible to decode one signal at a time the receiver is addressed for one period out of four (called its time slot) and it retains the

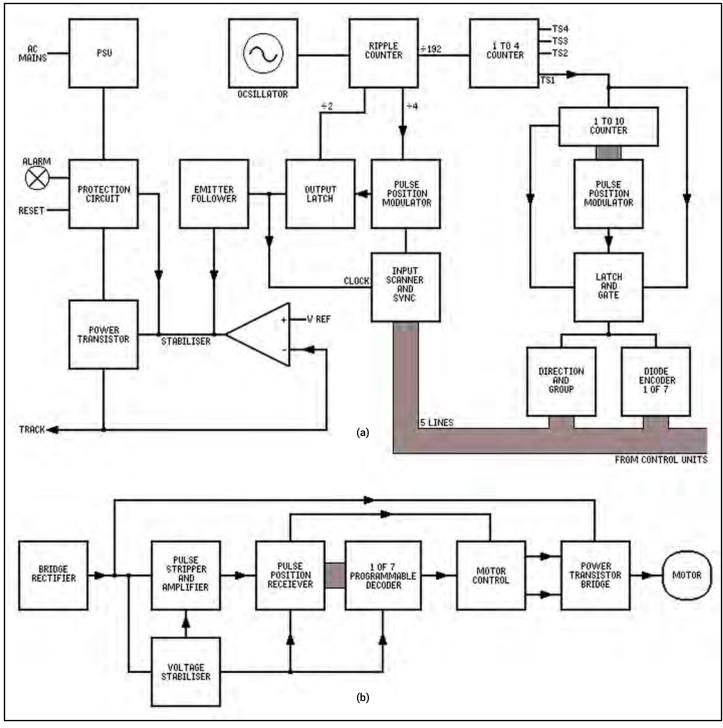


Figure 1. Block diagram (a) Common and control boards. (b) Receiver.

information received until the next address is due.

The speed of a locomotive is control led by al lowing any number of coded time slots (from 1 to 10) to be transmitted during a period of 10 time slots (TS), thus controlling the on to off ratio of pulses fed to the motor. Minimum speed is with one TS pulse and nine blank periods, half speed is with five TS pulses and five blank periods and full speed is with a continuous string of TS pulses being sent thus keeping the motor driven at full power.

The transmitter IC normally used with the ML 926/7 is the SL490 but

several of the built in features of that IC make it undesirable to use in this application.

The PPM system uses a frame of six pulses followed by a sync period. Digital information is transmitted by varying the time between two consecutive pulses in the following ratio: DATA 1 = 2, DATA 0 = 3, SYNC = 6.

The pulse timing is controlled by resetting a counter IC4 after 2, 3 or 6 clock pulses have been received depending on whether the data to be sent is 1,0 or sync. In order to transmit each one of the five data bits in their correct order another counter, IC8 scans the five AND gates IC3c and IC7

in turn and then at the sixth count causes the sync period to be sent at the same time resetting the counter for the next scan. The timing point of the pulse to be transmitted is detected by monitoring the resetting point of this counter. This causes the latch IC3d to be triggered which allows a pulse of twice the clock period to be sent.

The ripple counter, IC5 provides all timing pulses required by the controller. It is fed by the CMOS relaxation oscillator formed by IC6 a,b,c and d. This oscillator is divided by 192 by IC5 to produce a TS trigger pulse approximately every 850µs. Each frame of data takes about 380µs, so that two

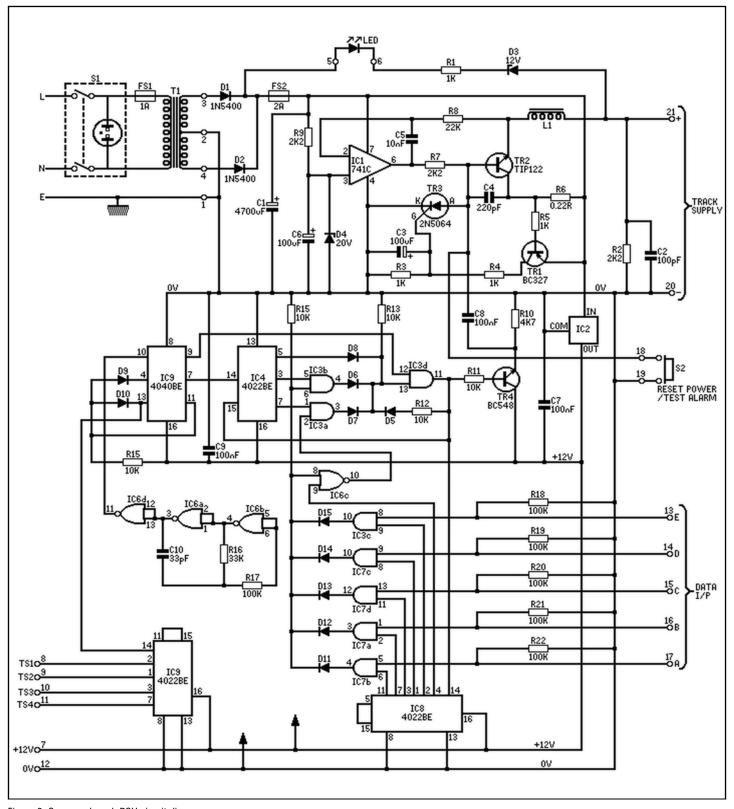
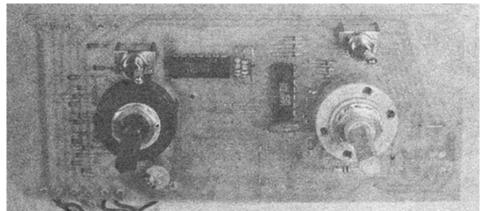


Figure 2. Common board. PSU circuit diagram.



Completed control PCB.

complete frames can be sent in one TS period.

The trigger pulse denoted above is used to clock the counter IC9 and produce four separate, consecutive output pulses, TS1-4 each approximately 850µs long. Each of the four control boards is fed with one of these TS pulses and this pulse is used to step the counter IC1 (control board). The counter steps from one to ten and then resets itself for the next count. The first output from the counter sets the

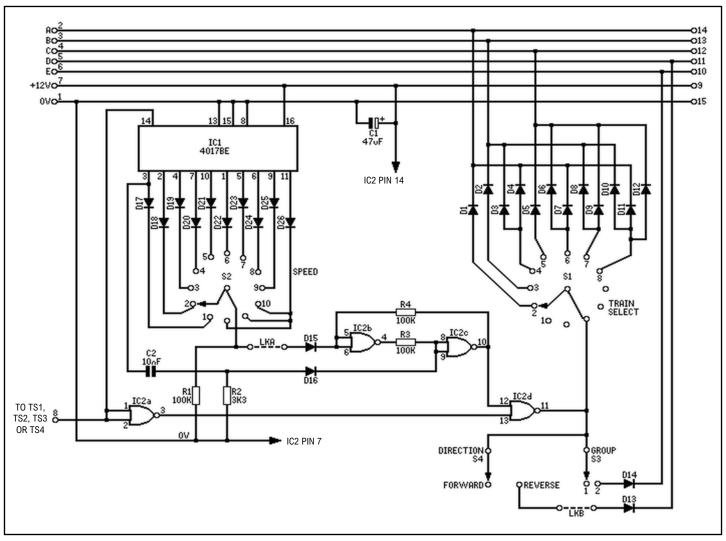


Figure 3. Control board circuit diagram.

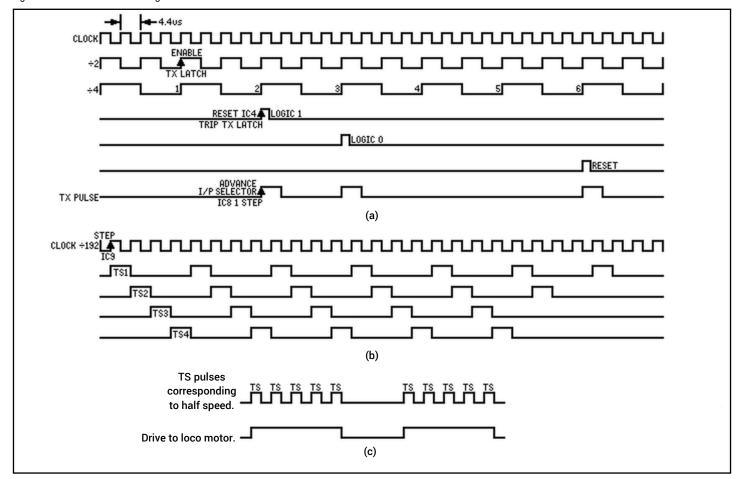


Figure 4. Timing diagram.

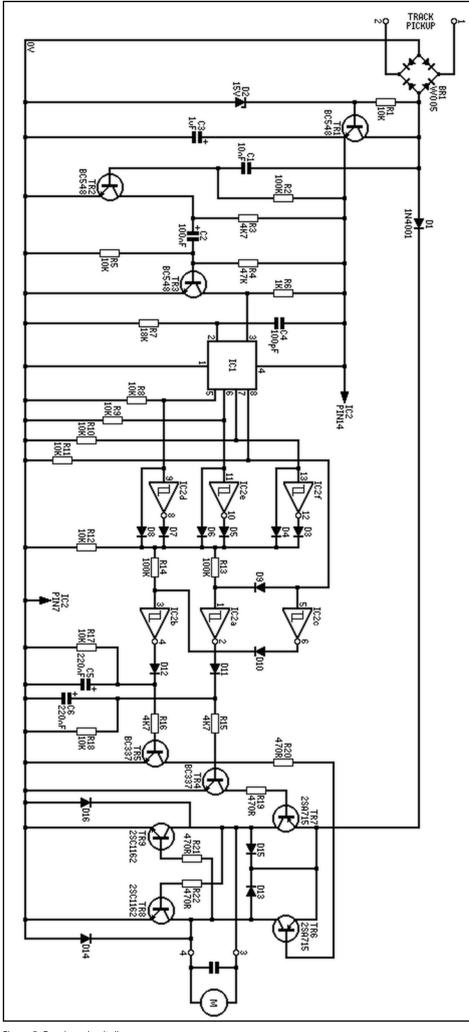


Figure 5. Receiver circuit diagram.

latch IC2b and c which is reset when the counter reaches the number set by the speed control thus holding the latch open for one to ten pulses. The latch gates TS pulses which are fed to the diode encoder. The pulses are connected onto one or more of the three data lines depending on the code of the receiver being addressed. If the reverse switch is operated or group 2 is selected the TS pulse is switched onto the appropriate data lines.

The DC supply fed to the track is stabilised by IC1 (common board) at about 18 volts and data signals from the emitter follower TR4 are superimposed on it and used to control the power Darlington transistor, TR8 which supplies current to the track. In order to protect the controller from damage due to accidental short circuiting of the track the current flowing through R6 is monitored by TR1. When this current exceeds the preset limit the transistor conducts and fires the SCR TR3 thus removing the drive to TR2 and turning off the supply to the track.

The SCR remains latched until it is reset by shorting it with S2. If the fault is still present the circuit will trip immediately and cause no damage.

When the track supply falls more than 12 volts below the power units output, either due to the protection circuit being tripped or due to a fuse failure the indicator LED 1 will light. Provision is also made for a buzzer to be fitted if an audible indication of track supply failure is required. A timer may be used to reset the protection circuit automatically after a short delay and this will be described in a later article.

Construction

Build all PCBs referring to legends and parts list.

Common Board

The track layout and component overlay for the common board are shown in Figure 6. Fit Veropins and PCB mounting fuse holders and solder. Insert and solder all resistors, diodes, capacitors and the choke. Insert the two plastic transistors, regulator and SCR into their correct positions. Push the leads of the power transistor TR2 through the PCB just far enough to allow it to be soldered and bend the leads as shown in Figure 7. Finally, insert and solder all ICs observing the usual CMOS precautions and making sure that they are the correct way round.

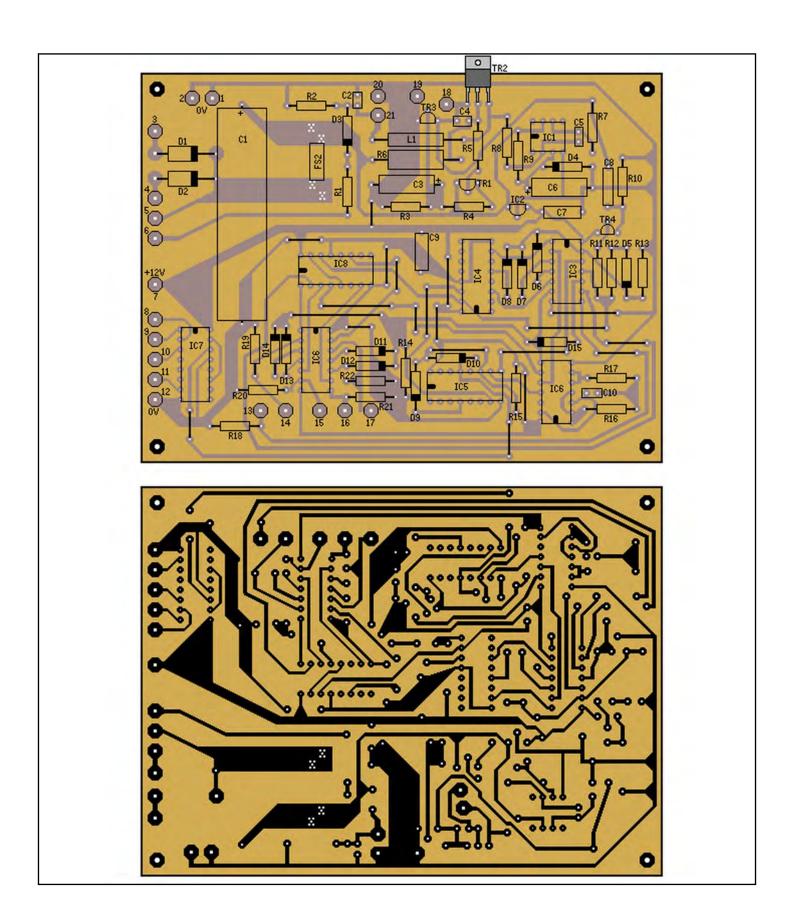
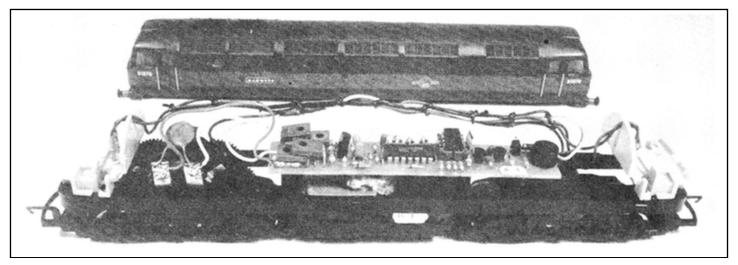
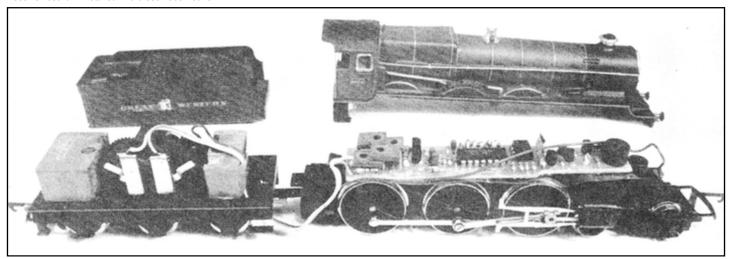


Figure 6. Common board track layout and component overlay.



Receiver board 1 installed in a diesel locomotive.



Receiver board 1 installed in a tender drive locomotive.

Control Board

The track layout and component overlay for the Control Board are shown in Figure 8. Fit and solder all components in order as described above but in this case fit the Veropins from the component side of the PCB to enable ease of wiring when the boards are fitted to the front panel. The rotary switch without the click stops is mounted next to IC1. Note the unused component positions on the board are for the remote control option which may be added later.

Assembly

Mount the transformer, mains switch, fuse holder, LED, push button and terminals on the case. Fit the common board and control boards. (Note that only one control board need be fitted initially.) The self-adhesive penal legend may be used as a template for drilling the front panel.

Wire all boards and components together referring to Figure 13. Insert the fuses noting that the 1 amp antisurge fuse is fitted in the panel fuse holder.

Receiver board

There are initially two receiver boards available to fit varying size locomotives. See Figures 10 and 11. The dimensions of these boards are shown in Figure 9. Fit and solder all capacitors and resistors noting that some resistors do not lay flat on the board. Insert and solder all diodes other than D3 to D8 and fit all transistors taking special care with the positioning of TR6, 7, 8 and 9 as shown in Figures 10b and 11b. Insert and solder IC2.

Decide which channel the receiver is to use and insert the appropriate diodes referring to Figure 12. If the receiver is to be group A then insert an ML 926, if group B an ML 927. Carefully check all soldering and positioning of components before testing.

Testing Procedure

Controller

Switch on power with nothing connected to the output terminals. The neon indicator in the mains switch should now be illuminated. Using a meter set to 20 volts DC or above check that there is approximately 18 volts at the output terminals.

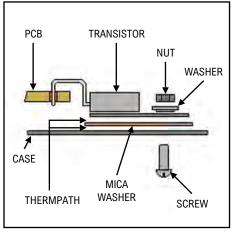


Figure 7. Power transistor mounting

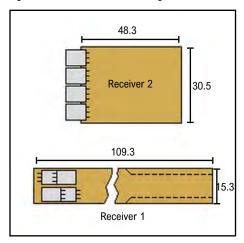
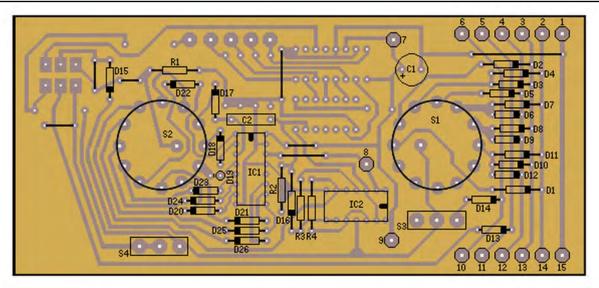


Figure 9. Receiver board dimensions.



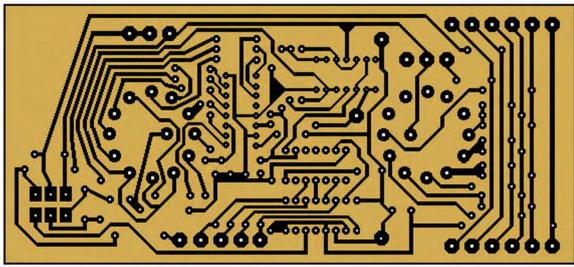
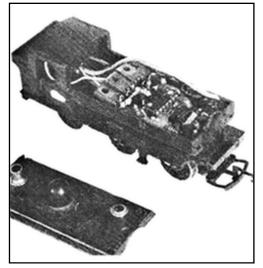


Figure 8. Control board track layout and component overlay.



Receiver board 2 installed in a tank locomotive.

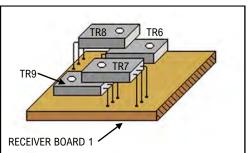
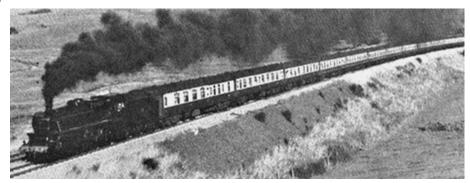


Figure 10(b). Receiver board 1 transistor mounting.



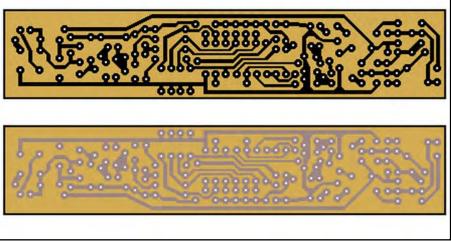


Figure 10(a). Receiver board 1 track layout and component overlay.

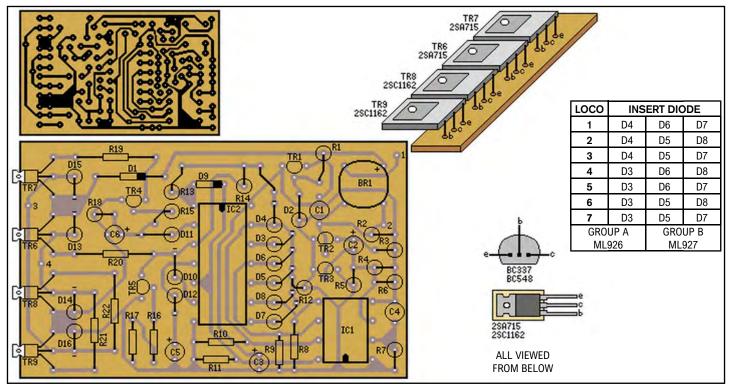


Figure 11(a). Receiver board 2 track layout and component overlay. (b). Receiver board 2 transistor mounting.

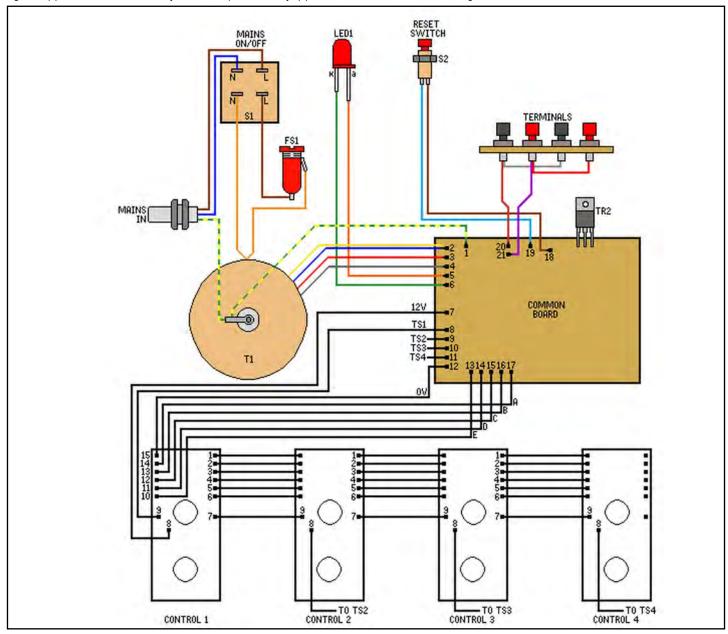


Figure 13. Controller wiring diagram.

Press the reset button and the "Track Supply Fail" LED should light and extinguish when the button is released. If this test is satisfactory, short circuit the output terminals and the LED should again light brightly while the short circuit is present and dimly when the short circuit is removed. Press the reset button. The LED should be extinguished and 18 volts restored to output terminals.

Receiver

Connect the receiver to the control unit as shown in Figure 14. Select the channel number and group of the receiver on a control unit and advance

the speed control. One of the two lamps should light with its brightness depending upon the speed set. Switch over the reverse switch to the opposite position and repeat the test. In this case the other lamp should respond. Switch the control unit to the other channels and groups and ensure that the lights remain extinguished. If these tests are satisfactory the module is ready to be inserted in the locomotive.

Installing Receivers in Locomotives

All locomotives designed for use with conventional control systems have the two sides of the motor connected directly to the wheels on each side of



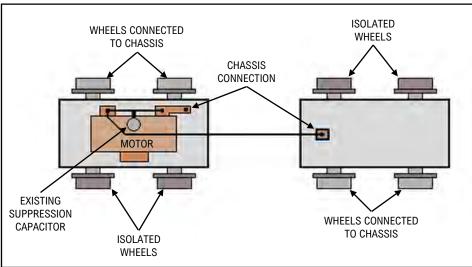


Figure 15. Wiring of a conventional locomotive.

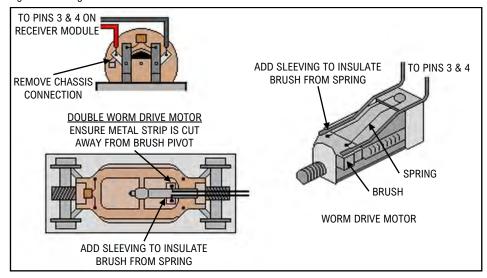


Figure 16. Modifications to various motors.

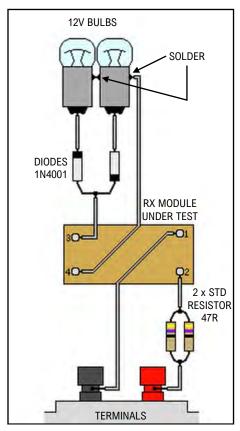


Figure 14. Receiver testing.

the locomotive Figure 15. To install the receiver module, the motor must be completely isolated from the wheels. In many modern models this accomplished by removing a wire link but in some of the older models there is a permanent connection from one side of the motor to the chassis. In all cases by careful modification this connection can be removed. Some examples are shown in Figure 16. It is most important to ensure that the motor is completely isolated and it is worth checking this with a meter set to ohms before installing the module.

In most cases there will be a wire coming from one of the pickups, this is connected to one input of the module and the other input is connected to the chassis at a suitable point as shown in Figure 17. After installation, if it is found that the locomotive travels in the wrong direction in relation to the controller switch, the wires to the motor should be reversed.

To ensure reliable operation of this system, as with any other, the locomotives should be in good condition, and it is often worth replacing brushes and cleaning wheels and pickups before use. The track needs to be kept fairly clean although the receiver will respond to signals as long as there is enough power to drive the motor.

The next article in this series will describe the remote control facilities and computer interfacing.

Future articles will describe track circuiting (train position detection) point control and detection of position, interlocking and control of signals, automatic loop switching, and many other useful circuits as well as constructional hints for the railway modeller.

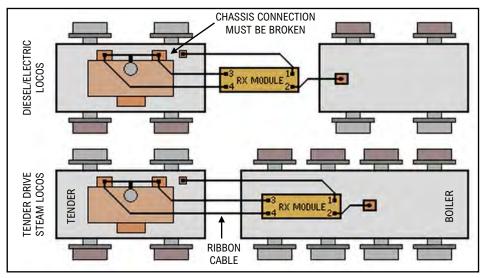


Figure 17. Installation of the receiver into the locomotive.

TRAIN CONTROL I	MODULE P	ARTS LIST		IC6	4001BE		1
Resistors - All ½ w				100	100152		·
R1, R3, R4	100k	Brown Black Yellow	3	Miscellaneous			
R2	3K3	Orange Orange Red	1	L1		ressor choke 2A	1
				T1		Transformer 80VA 18V	1
Capacitors				LED1	LED red		1
C1		/ PC electrolytic	1	FS1		ti-surge 1 amp	1
C2	10nF pol	yester	1	FS2		mm 2 amp	1
				S1		ker switch with neon	1
Semiconductors	4514440			S2	Push sw		1
D1 to D26	1N4148		26			eholder 20 mm	1
IC1	4017BE		1		Fuse clip		2
IC2	4001UB	E	1			lief grommet	1 21
						ided terminal pins	∠ı 1
Miscellaneous	Dotom: -	witch 1 polo 12 way	1		LED clip		1
S1		witch 1 pole 12 way	1			peaker terminals ad 3 amp	3 metre
S2		witch 1 pole 12 way	1			ad 3 amp ribbon cable	3 metre 1 metre
C2 C4	non-click	stop ature toggle switch	1 2			ent wire type 7/02 black	1 metre
S3, S4		ature toggie switch ded terminal pins	2 15			ent wire type 7/02 black ent wire type 7/02 red	1 metre
		mm x 16 mm (for S1)	15			Fransistor mounting kit	1
		mm x 16 mm (for S3)	1		Bolt 6BA		7
	ATIOD OO	10 11111 (101 00)	'		Washer		3
TRAIN COMMON/I	SU PART	SUST				6BA x 1/8"	4
Resistors - all 1/4 W					Nut 6BA		7
R1, R3, R4, R5	1K	Brown Black Red	4		Tag 2BA		2
R2, R7, R9	2K2	Red Red Red	3			compound	1 tube
R6		W) wirewound	1		Stick-on		4
R8	22K	Red Red Orange	1				
R10, R17	4K7	Yellow Violet Red	2	TRAIN RECEIVER	R MODULE I	PARTS LIST	
R11, R12, R14,				Resistors - all 1/4	watt 5% car	rbon	
R15	10K	Brown Black Orange	4	R1, R5, R8 to R1			
R13, R17,		G		R17, R18	10K	Brown Black Orange	9
R18 to R22	100K	Brown Black Yellow	7	R2, R13, R14	100K	Brown Black Yellow	3
R16	33K	Orange Orange	1	R3, R15, R16	4K7	Yellow Violet Red	3
				R4	47K	Yellow Violet Orange	1
Capacitors				R6	1K	Brown Black Red	1
C1		25V axial electrolytic	1	R7	18K	Brown Grey Orange	1
C2	100pF ce		1	R19, R20,			
C3		OV axial electrolytic	1	R21, R22	470R	Yellow Violet Brown	4
C4	220pF ce		1				
C5	10nF cer		1	Capacitors	40.000		4
C6		/ axial electrolytic	1	C1		F ceramic	1
C7, C8, C9	100nF pc		3	C2		5V tantalum	1
C10	33pF cer	amic	1	C3		' tantalum	1
				C4	100pF c		1
Semiconductors	INIT 400		0	C5, C6	220nF 3	5V tantalum	1
D1, D2	IN5400	10	2	Coming advistant			
D3	BZX61C		1	Semiconductors			1
D4	BZY88C	20	1	D1 D2	1N4001	15\/	1
D5 to D15	1N4148		11		BZY88C	ıov	1 14
TR1 TR2	BC327 TIP122		1	D3 to D16 BR1	1N4148 W005		14
TR3		Thyristor	1	IC1		Group A)	1
TR4	BC548	Thyristor	1	'0'		Group A)	1
IC1		(9 nin)	1	IC2	40106BE		1
	UA741C	· · /	1	TR1, TR2, TR3	BC548	_	3
IC2	UA78L12	AVVO	1 2	TR4, TR5	BC337		3 2
IC3, IC7	4081BE 4022BE		3	TR6, TR7	2SA715		2
IC4, IC8, IC9 IC5	4022BE 4040BE		3 1	TR8, TR9	2SC116		2
IUU	4040DE		1	1 110, 110	200110	-	_

WORKING WITH

OP-AMI

by Graham Dixey
C. Eng., M.I.E.R.E.

ot many years ago the OP-AMP was an expensive and specialised device. To give it its full title of 'operational amplifier' is to emphasise that its original role was to perform mathematical operations. If was the active component of the analogue computer, which largely appears to have taken a back seat these days.

The reason for the current popularity of the operational amplifier (or op-amp) is its cheapness and versatility in the form in which it is now to be found; that is as a monolithic integrated circuit. Of course, it can still be used for its original applications such as integration, differentiation, addition, subtraction, etc., but generally the field of application is much wider. It is used in purely linear fashion e.g. in audio amplifiers and instrumentation amplifiers, but it can also be used in pulse circuits and various other more exotic guises.

In this article, some of the op-amps uses in a variety of roles will be examined and will assume the reader has little previous knowledge of either the electronics or mathematics involved. Examples of circuit design will be presented along with the necessary theory.

The Ideal Op-Amp

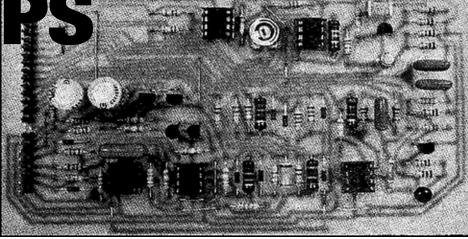
In electronics it is frequently necessary to make sensible approximations in order to present a particular topic intelligibly. It is amazing how very complex and unwieldy formulae often become quite simple when some sort of approximation is made. This is certainly true of op-amps and the resulting formulae are then very readily applied to practical situations. Listing the main features of an ideal op-amp gives us:

- a. infinite gain
- b. infinite input impedance
- c. zero output impedance
- d. infinite bandwidth

This looks a very formidable specification at first sight. Of course, we cannot actually expect to realise these parameters, but the real values are relatively close enough to have little practical significance. For example, a typical voltage gain A might be 200000 which is a lot less than infinity, but if we compare A with A + 1 the difference is insignificant. It is this sort of comparison that allows us to make worthwhile simplifications.

Enter the 741

I decided to base this article on one particular chip, the 741, for several reasons; it is very cheap, easily obtainable and does not need a host of compensating components in order to make it work. It also has a short-circuit proof output. There are other op-amps that can outperform it in one way or another but it



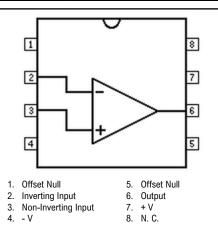


Figure 1. Pin-out diagram of the $\mu A741CP$ op-amp.

will serve well enough to introduce the basic principles of op-amps and their applications.

Figure 1 shows the pin-out diagram for the 8-pin version (there is also a 14-pin version), from which we see that the connections fall into three groups, according to function:

- a. power supplies +V and -V
- b. offset-null terminals
- c. inputs and output

Input and Output

There are two inputs and one output and the usual symbol showing these terminals appears in Figure 2. The input marked with a - sign is known as the 'inverting input' (180° phase-shift between this input and the output); the input marked with a + sign is known as the 'non-inverting input' (0° phase-shift between this input and the output). Figure 3 illustrates

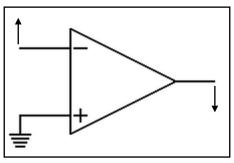


Figure 3(a). Action of inverting input

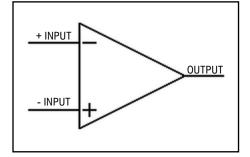


Figure 2. Basic op-amp symbol.

the action of each input considered separately, the other input then being taken to 0V.

The arrows are used to represent signals in a general manner e.g. the 'up-arrow' can signify the positive half-cycle of a sine-wave, a positive DC level, a positive ramp etc. Similarly the 'down-arrow' signifies any negative waveform. So a positive signal applied to the inverting input produces a corresponding negative. Signal at the output and a positive signal applied to the non-inverting input produces a corresponding positive signal at the output.

Suppose now that the inputs are energised simultaneously and, to keep things simple, the signals are of equal amplitude. The two possible configurations are shown in Figure 4.

The question is, of course, what is the direction of the output in each case?

Consider the case of in-phase inputs shown in Figure 4(a). The output changes due to each input will be equal and opposite and the output will therefore remain unchanged.

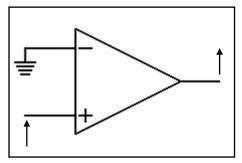
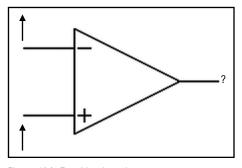


Figure 3(b). Action of non-inverting input



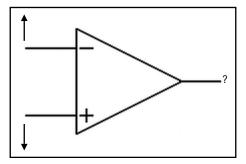


Figure 4(a). Equal in-phase inputs.

Figure 4(b). Equal anti-phase inputs.

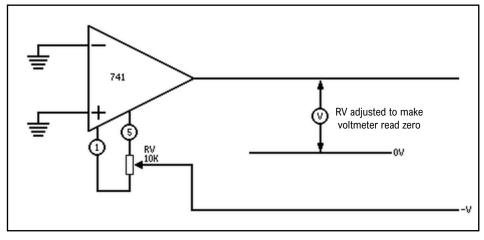


Figure 5. Using the 'offset null' facility.

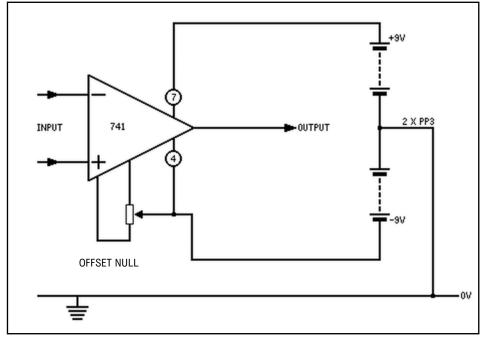


Figure 6. Power supply connections.

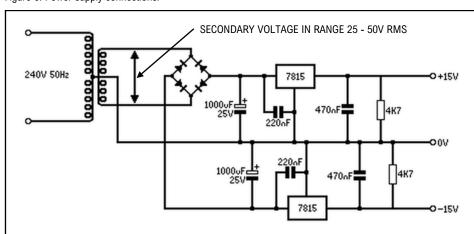


Figure 7. Mains operated dual 15V op-amp power supply.

In the case of anti-phase inputs, the positive signal at the - input will produce a negative output and the negative signal at the + input will also produce a negative output. So the two effects are additive, and a large output change occurs.

These two ways of driving the inputs are known as the differential-mode (anti-phase inputs) and common-mode (in-phase inputs) respectively. From this we can see that a principal characteristic of an op-amp is to amplify the former but reject the latter. This has great practical significance as we shall see in due course.

Offset Null

Having now discussed briefly the signal connections, we can consider the function of the two pins marked offset null.

Suppose we were to connect both inputs to 0V; we should expect the output to be also 0V, since there is nothing to amplify in order to produce an output. We might well be surprised, therefore, to find that the output was not in fact 0V at all but slightly offset from it, either above or below the 0V level. This arises because of the impossibility of manufacturing a perfectly symmetrical amplifier. However, the manufacturers allow for this by providing the 'offset null' facility. This is utilised in practice by connecting a potentiometer between the two offset null pins, with the wiper taken to -V. This would be a skeleton preset and is adjusted to bring the output to zero with both inputs also at zero. Figure 5 illustrates the technique.

Common-Mode Rejection Ratio

As stated previously there is a high gain in the differential mode of operation and zero gain in the common mode. However, the latter statement is not quite true; because of the imperfections already mentioned, the gain in common mode is small but it is not zero. This means that common-mode inputs will produce an output but it will be very small. In many practical situations, the signal is applied differentially but unwanted noise signals are picked up at both + and - inputs and present a common-mode input to the amplifier. Thus

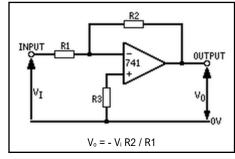


Figure 8. The inverting amplifier.

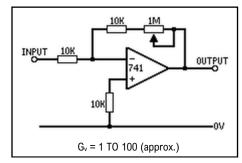


Figure 9. Inverting amplifier with variable gain.

the signal is subject to very high gain and produces a large output, while the unwanted noise voltages have very low gain and produce very little output. How well the amplifier is able to separate signal and noise in this way is expressed by a factor known as the 'Common-Mode Rejection Ratio' (CMRR).

The CMRR can be calculated as follows:

CMRR = 20 log[DIFFERENT MODE GAIN] dB

[COMMON MODE GAIN]

So in practice the gain figures were 200000 and 4 respectively, the CMRR would equal 20 log (200000/4), which gives 94 dB; this would be a very good figure.

Power Supplies

The power supply pins are marked +V and -V since, in general, it is expected that the op-amp will develop outputs that swing either side of 0V. A typical pair of supplies would be ±15 volts, giving a possible output swing of 30 volts peak to peak. However, a convenient arrangement when experimenting consists of two PP3 batteries giving ±9 volts, as shown in Figure 6. PP3 batteries will give adequate current for our purposes; one op-amp takes very little current.

For those who prefer a mains power supply, I have given a low-cost design in Figure 7. It uses a couple of small regulator chips to give ±15 volts at up to 100 mA.

To explore the possibilities of the op-amp fully, access to some test equipment will be required. For example, an oscilloscope for examining waveforms, an audio sine/ squarewave generator for providing inputs, and a multimeter for measuring current and voltage levels. Also some form of breadboard will be required such as the 'solderless plug-in types', or just a piece of Veroboard with an 8-pin IC socket and a few terminal pins.

Amplifier Configurations Inverting

Figure 8 shows an inverting amplifier. The term inverting amplifier implies a 180° phase-shift between input and output. To define the input/output relationship fully the voltage gain must be known as well.

This is given by Voltage gain = R2/R1, which shows that for a certain value of R1, the gain is determined by the choice of R2. Apart from using fixed resistor values, a potentiometer would give continuous control of gain or R2 could be switched to give gain changes in steps.

The unused + input is tied to 0V by R3. The value of this resistor is not usually particularly critical but it can be obtained from the formula R3 = R1 R2/(R1 + R2), which gives the value for best 'drift-free' performance. Unless this is a particular criterion, a good rule of thumb is to let R1 = R3 = 10K and select R2 for the required gain. Figure 9 shows an inverting

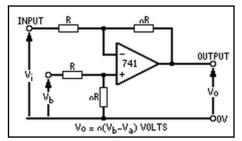


Figure 13. The subtractor amplifier.

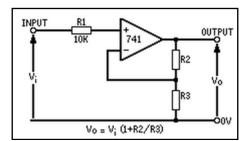


Figure 10. The non-inverting amplifier.

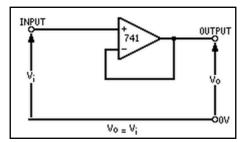


Figure 11. The voltage follower.

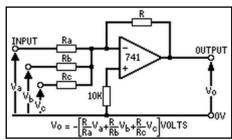


Figure 12. The summing amplifier.

amplifier in which the gain is continuously variable from 1 to 100 (approximately).

Non-inverting

An amplifier may be needed whose gain can be just as easily defined but which has zero phase-shift. An amplifier of this type is shown in Figure 10.

The gain of the non-inverting amplifier is also defined by the ratio of two resistors, R2 and R3. However, the expression for gain is slightly different from the previous case; it is now given by 1 + R2/R3. A very wide range of gain is feasible. The minimum value is clearly 1, which occurs when R2 = 0. If, at the same time, R3 is made equal to infinity (i.e. removed entirely), the circuit becomes that of the voltage follower.

Voltage Follower

Figure 11 shows a voltage follower which is so-called because it has a voltage gain of one and zero phase-shift. A circuit in which the input and output are identical may not, at first, seem very useful. Its value derives from the fact that it has a very high input impedance and a very low output impedance. This means that it can be used as a matching device between points of high and low impedance.

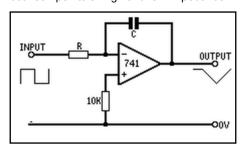


Figure 14. The integrator.

Summing and Subtracting

Sometimes it is necessary to add two or more voltages together, or obtain the difference of two voltages. The summing amplifier (Figure 12) and the subtractor amplifier (Figure 13) meet these requirements.

In the case of the summing amplifier, the gain for each input separately is determined by the ratio R/Ra, R/Rb, etc. If these ratios are all equal to one, then the output voltage is equal, literally, to the sum of the input voltages. But it is obvious that the input voltages can be scaled up (or down) by some factor R/Rx, either equally for all inputs or preferentially.

The same facility for scaling the gains for each of the inputs is also available for the subtractor, as Figure 13 should illustrate.

Integrator

The last basic configuration to examine is the integrator, which is shown in Figure 14.

This circuit performs the mathematical operation of integration. However, there is no need to become involved in integral calculus. In practical terms, the circuit responds to a step input voltage by producing a ramp of opposite sign. The slope of the ramp depends upon the amplitude of the step and the 'integrator gain' 1/RC volts/sec per volt of input.

Figure 14 also shows a full cycle of the square-wave input; the integrator output consists of alternate negative and positive ramps, corresponding to the leading and trailing edges, respectively, of the input. If the input was a continuous square-wave, the output would be a triangular waveform.

Given the right data, it is a simple matter to calculate the amplitude of the output, as follows: if R = 100k and C = 100nF, the integrator gain is $10^7 / 10^5 = 100 \text{V/s}$ per volt of input. This is more conveniently expressed as 0.1 V / ms per volt. If the input was a 100 Hz square-wave of 2 V amplitude, then the slope of the ramp would equal 0.1 V / ms x 2 = 0.2 V / ms. Since the time of a half-cycle at 100 Hz is 5 ms, the amplitude of the output is 0.2 V / ms x 5 ms, which equals 1 volt.

The integrator principle has many applications. One of them appears in Figure 15, the circuit shown performing a time to voltage conversion.

The amplitude of the ramp output is proportional to the duration of a negative input pulse. In the absence of such a pulse, both diodes conduct and hold the output at 0V. The arrival of a pulse reverse-biases both diodes and the ramp starts running. The rate at which it runs is set by RV1, which acts as a form of 'sensitivity control'. Since the ramp runs until the pulse finishes (if RV1 has been set correctly), the final amplitude of the output is proportional to the length of the input pulse.

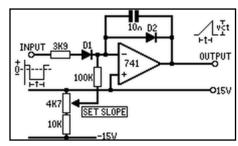


Figure 15. Circuit for time to voltage conversion.

MULTI-MODE STOP DIGITAL WATCH STOPWATCH

- Accurate to 100th of a second.
- Large, eight digit display.
- Times up to 24 hours can be displayed.
- Four modes of operation: Standard, Sequential,
 Split and Rally.

by L. Harrold

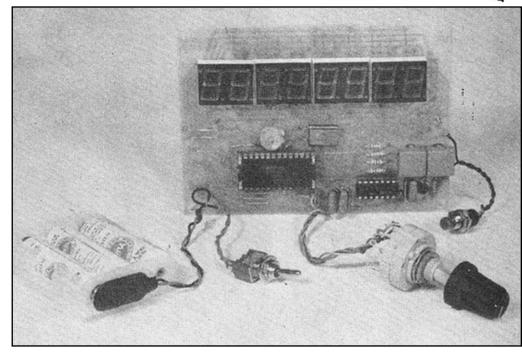
his electronic stopwatch is a comprehensive timer which is more robust than a mechanical stopwatch and can measure accurately to 100th of a second. It has a remote start/stop facility which enables it to be triggered by the interruption of a light beam or the sound of a starting pistol etc.

The stopwatch has a large LED display which can be turned off while the clock is running to save battery power. It has four modes of operation: Standard - each timed event starts from zero, Sequential - the time between each operation of the start/ stop switch is displayed (lap times etc.), Split - the timer counts continuously although timings can be displayed whilst this occurs, Rally - the same as Standard except that the clock is not reset to zero but continues from when it was stopped.

Circuit

The circuit diagram of the stopwatch is shown in Figure 1. The main component is the Intersil ICM 7045 IC which contains an oscillator, high frequency divider, low frequency counter, latches, multiplexor, decoder and control circuitry. The oscillator frequency is set by the external crystal and trimmer capacitor to 6.5536 MHz. This is divided down to 100 Hz to drive the low frequency counter. The counter outputs are connected to the latches so that the display can be held and read while the counter is still running. The outputs from the latches are multiplexed to drive an eight digit common cathode display. The ICM 7045 also contains the seven segment decoder and the digit and segment drivers so that the display can be connected directly.

The 4093 and associated components provide de-bounce circuits for the push switches. When a push switch is operated it discharges the capacitor in less than one millisecond. The two Schmitt trigger gates



change state which takes the appropriate pin of IC1 low. The Schmitt triggers are inhibited until the capacitor has re-charged. The time constant of (R1+R2) and C1 is large compared to the bounce time of the switches.

The remote control input switches 5 volts which turns on the transistor and therefore has the same effect as the start/stop switch. The eight digit display can count up to 23 hours 59 minutes 59.99 seconds. After this the display carries on counting from zero.

The reset button sets the counter to zero, i.e. displays two zeros in the decimal part of the seconds. The seconds, minutes and hours part of the display are blank and remain so until that part of the display is not zero. The display switch turns the LED display on and off.

With the display on the current consumption is 70 to 130 mA, depending on how many digits are on. When the display is off the consumption drops to a

maximum of 2 mA. Therefore if nickel cadmium batteries are used, which have a capacity of 500mA hours, this should give a life of several hundred hours.

The start/stop switch controls the counter and the four position switch selects the mode of operation.

Construction

The components are mounted on a single sided PCB and should be fitted as follows. The LED displays first: Note that on the side of the displays, that the 'M' of the code number is nearest to pin 1. IC holders should be used, especially for IC1, and these are fitted next. When the click switches are viewed from underneath, one side has a flat, and the PCB legend shows correct mounting orientation. The crystal and trimmer capacitor C5 are mounted next. The crystal should be folded over flat next to the PCB. Next the resistors can be fitted and the switches wired.

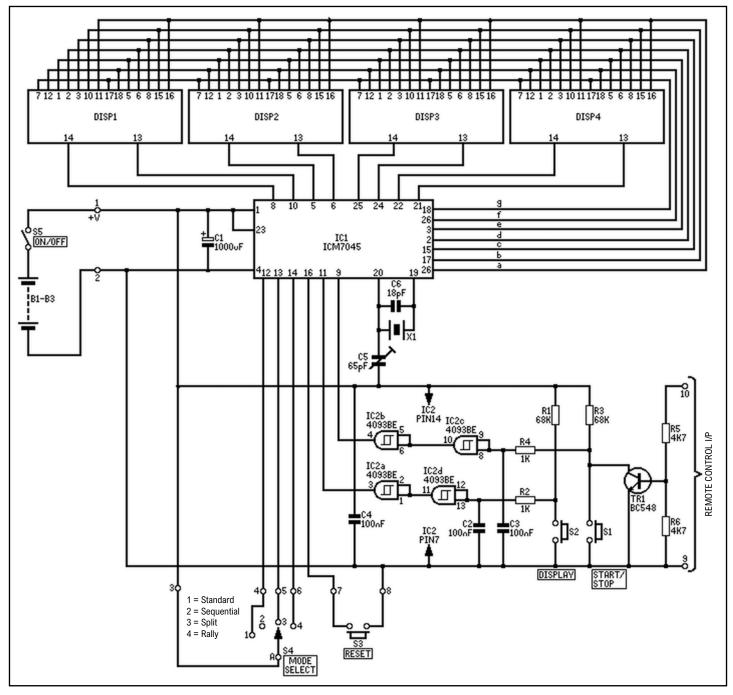


Figure 1. Circuit diagram of the Stopwatch.

Capacitors C2 to C4 and TR1 should be mounted and bent over at 45 degrees to give enough clearance for a front panel. Finally the wire links are wired and soldered, and C1 fitted underneath the PCB. The LED display is improved considerably when viewed through a red filter and it is recommended that one is used.

Setting up

For accurate timing the crystal should run at 6.5536 MHz and is adjusted by C5. If a frequency counter is available, this is easily checked without loading the oscillator as follows. A 10K pull up resistor should temporarily be connected between pin 22 of IC1 and the positive supply. The display should be switched on and the counter reset. The frequency on pin 22 should be 800 Hz. To get the required accuracy, the frequency counter should be switched to period and the period for one cycle

measured as 1250.00 microseconds. Adjust the trimmer capacitor to give the right frequency. If a frequency counter is not available, then C5 should be set half way and the stopwatch checked over several hours, using the radio or speaking clock. C5 can then be adjusted accordingly; more capacitance to slow the stopwatch down.

Operation Standard Mode

- 1. Press the reset switch to zero the counter.
- 2. Start the counter by pressing the start/stop switch.
- Stop the counter by again pressing the start/stop switch. The time is now displayed. When start/stop is pressed again the counter is momentarily reset then starts timing another event. In this mode the display can be turned off.

Sequential Mode

- 1. Reset the counter.
- 2. Start the counter.
- 3. Press start/stop to read the display. This time is held on the display but the counter continues running. When start/stop is next pressed the time since it was last pressed is displayed. This enables lap times to be taken. The display cannot be turned off in this mode, however, if standard mode is selected it can be, but remember to switch back to sequential mode before pressing the start/stop switch.

Split Mode

- 1. Reset the counter.
- 2. Start the counter.
- Press start/stop to read the display. This time is held on the display but the counter continues running. Each time the start/stop is pressed the display

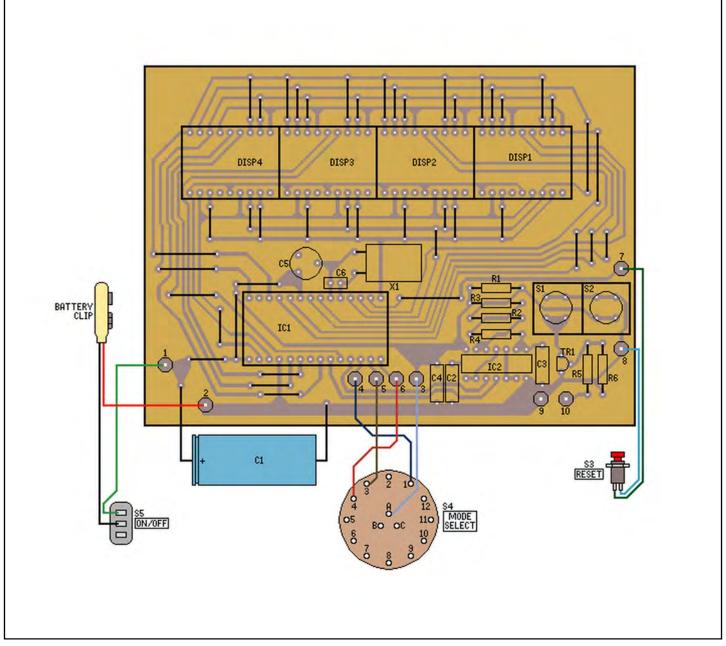


Figure 2. Component overlay and wiring diagram of the Stopwatch.

shows the total time since the start/stop was first pressed. The count can only be stopped by pressing reset. The display can only be blanked if the same procedure as described for the sequential mode is carried out.

Rally Mode

- 1. Reset the counter.
- 2. Start the counter. The reset switch is now automatically disabled thus
- preventing accidental resets during long timing intervals.
- 3. Stop the counter.
- 4. Press start/stop again allowing the counter to continue. The display can be turned off in this mode.

STOPWATCH	PARTS LIS	Т				
Resistors - All	1/2 watt 5%	Metal Film		Miscellaneous	•	
R1, R3	68K	Blue Grey Orange	2	DISP 1-4	DD display type C	4
R2, R4	1K	Brown Black Red	2	S1, S2	Click switch	2
R5, R6	4K7	Yellow Violet Red	2	S3	Push switch	1
				S4	3 pole 4 way rotary switch	1
Capacitors				S5	Sub-min toggle 'A'	1
C1	1000μF	10V axial electrolytic	1	B1, B2, B3	Ni Cad AA	3
C2, C3, C4	100nF	polyester	3		4V5 battery box	1
C5	Trimme	er 65pF	1		PP3 battery clip	1
C6	18pF ce	eramic	1		Single-sided terminal pins	10
					Click cap blue	2
Semiconducto	ors				Knob	1
TR1	BC548		1		Knob cap blue	1
IC1	ICM704	15	1		DIL Socket 28 pin	1
IC2	4093BE		1		DIL Socket 14 pin	1
X1	Crystal	6.5536 MHz	1		Display filter red	1

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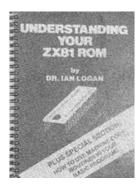
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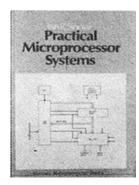
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1981. 144 pages. 217 x 136 mm. Illustrated. Order As WG78K (Book NB496) Price £5.95NV

Software Secrets by Graham Beech



The book covers techniques of programming with particular emphasis on screen output, keyboard input and file handling. The book is intended primarily for Sharp MZ-80K users and about 30 programs and sub-routines are included. The techniques shown are seldom covered in programming books. An understanding of them will help you to produce computer games and other graphics software and show you how to store and process data on cassette or disk.

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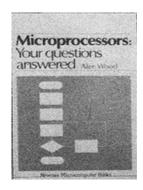
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Amplifying Modes

e have looked at the basic characteristics and configurations of the three amplifying modes possible using a transistor, and we will now consider each mode of operation in greater detail.

Common Emitter

The output impedance of a common emitter amplifier is easily determined and is simply equal to the value of the collector load resistor. The required base bias resistor value can be calculated by taking the collector load value and multiplying it by the typical current gain of the transistor in use (which can be found by referring to the data sheet for the device concerned). This assumes that there is an equal voltage across the collector and base bias resistors, but this is not quite the case with the quiescent output voltage at half the supply voltage, due to the 0.6 volts or so developed across the base-emitter junction of the transistor. This voltage reduces the voltage across the base bias resistor by about 0.6 volts, with a consequent reduction in the base bias current and the collector voltage being a little higher than the ideal voltage.

In practice this can be overcome by using a value slightly lower than the calculated one. For example, if the calculated figure was 1.7 megohms, in practice a 1.5 megohm component should give good results. If a low supply voltage is employed, such as a 3 volt supply for example, the base-emitter voltage becomes a substantial fraction of required collector voltage of 1.5 volts, and this simple method of calculation becomes decidedly inaccurate.

A more accurate method is to take the required quiescent collector current and then divide this by the typical current gain of the transistor to obtain the necessary base current. Taking 0.6 volts from half the supply voltage gives the potential across the bias resistor, and dividing this by the base current gives the bias resistor

value in ohms. This is, of course, just a simple application of Kirchhoffs Voltage Law and Ohm's Law.

A problem when calculating bias resistor values is that the calculations are based on the typical current gain figure for a transistor, whereas in a practical circuit the transistor used could actually have a gain which is considerably higher or lower than the typical figure. The tolerance of the base bias and collector load resistors could also result in errors in the bias levels

These errors are corrected to a certain extent by negative feedback. If the gain of the transistor is higher than the typical figure and (or) the bias resistor has a lower value than its nominal one, the collector voltage will be lower than expected. This reduces the voltage across the base bias resistor and produces a lower base current which tends to increase the collector voltage. Similarly, if the transistor has a current gain which is lower than the typical figure and (or) the bias resistor is slightly high in value, this gives a higher collector voltage than expected. This gives increased voltage across the bias resistor, increased base current, and reduced collector voltage.

This negative feedback will not fully compensate for errors in gain or bias resistor values, but it is normally sufficient to keep the effect of these errors down to a level which renders them of no practical significance. It is in order to obtain the negative feedback that the bias resistor is connected between the collector and base of the transistor, rather than the more obvious method of connecting it between the base and the appropriate supply rail, which would not give any regulating feedback.

The input impedance of a common emitter stage is controlled mainly by the collector current and current gain of the transistor. High gain gives high input impedance, but high collector current gives low input impedance. Approximate input impedance is given by the equation:

The voltage gain of a common emitter stage is roughly equal to:

Load Resistance

25 ÷ collector current in mA

However, voltage gain varies somewhat with changes in supply voltage (higher supply voltages giving higher gains) and this does only give an approximate figure for voltage gain.

Emitter Resistor

The input impedance of a common emitter amplifier can be increased by the inclusion of an emitter resistor, as shown in Figure 1, but the negative feedback that this introduces also reduces the voltage gain of the circuit. There is no obvious feedback path introduced by the emitter resistor, but it does in fact introduce negative feedback. If the input signal takes the base of TR1 more positive, this gives an increase in the collector and emitter currents, and the voltage across R3 increases. This counteracts the increase in base voltage of TR1 to a certain extent and reduces the voltage gain of the circuit. Similarly, a reduction in the base voltage of TR1 gives reduced voltage across R3 and a partial cancelling of the change in input potential. Again, this gives a reduction in the voltage gain of the circuit.

The collector and emitter currents of a transistor are practically the same, and the only difference between the two is that the emitter current is actually equal to the sum of the collector current and the small base current, and is therefore marginally higher than the collector current. When discussing the emitter follower mode the voltage gain of approximately unity from the base to the emitter of the transistor was explained, and the same occurs in this configuration. If R2 and R3 have the same value, any change in voltage across R3 will be matched by a practically identical voltage change across R2, and the circuit has roughly unity voltage gain from the base to the collector as well as from the base to the emitter. If R2 is made higher in value than R3, the voltage change across R2 will be

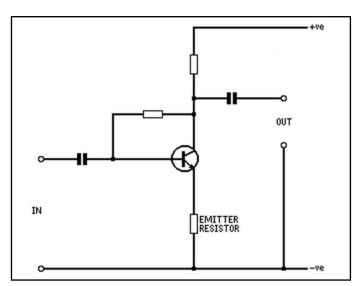


Figure 1. Adding an emitter resistor introduces negative feedback.

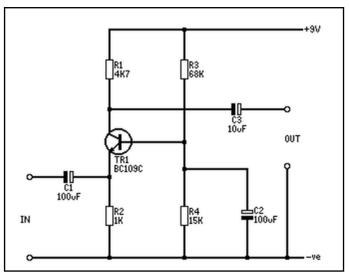


Figure 2. The circuit of a practical common base stage.

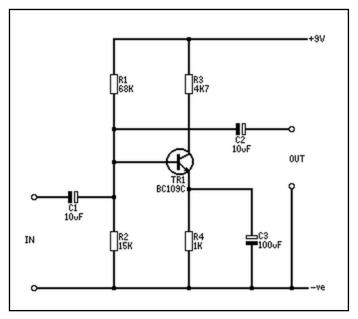


Figure 3. A common emitter stage using potential divider biasing.

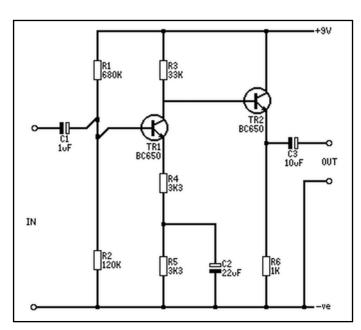


Figure 4. A simple two stage direct coupled preamplifier circuit.

proportionally higher than that across R3. On the face of it this gives the circuit a voltage gain of R2 R3, but this is not the case if R3 is made very low in value when compared to R2.

The reason for this is the innate emitter resistance of TR1 which must be added to any external emitter resistance. This resistance varies with collector current, and is approximately equal to 25 divided by the collector current in milliamps. In the voltage gain equation given earlier the innate emitter resistance was calculated using this method and then divided into the collector load resistance in order to give the voltage gain figure. With an external emitter resistance present, the sum of this resistance and the innate emitter resistance must be divided into the collector load resistance in order to obtain the voltage gain of the circuit.

Input Impedance

In the input impedance equation given earlier the innate emitter resistance of the transistor is first calculated, and is then multiplied by the current gain of the transistor in order to give the input impedance. If an external emitter resistor is present, the sum of this resistance and the innate emitter resistance of the transistor must be multiplied by the current gain of the transistor in order to give the input impedance. This gives the input impedance to the base of the transistor and does not take into account the effect of any components at the input such as biasing and coupling components.

Emitter Follower Mode

The input impedance of an emitter follower stage is calculated in the same way as the input impedance of a common emitter amplifier having an emitter resistor. As the internal emitter resistance of the transistor is often far lower than emitter load resistor's value, simply multiplying the load resistance by the current gain of the transistor usually gives a reasonably accurate figure for input impedance. An important point to note, however, is that the input impedance of any circuit following the amplifier is effectively in parallel with the emitter resistor, and the combined impedance of the emitter resistor and the input impedance of the driven circuit must be used when calculating the input impedance of the stage.

The emitter follower mode gives an output impedance which is approximately equal to the source impedance of the input signal divided by the current gain of the transistor. In practice this often gives a very low output impedance, and the output signal reduces little in amplitude even if it is feeding a quite low impedance load. However, it is important to bear in mind that an AC emitter follower can only give a peak output current equal to the quiescent current of the transistor. Thus, if it is feeding into a load impedance which is much lower than the emitter load resistor value, but much higher than the output impedance of the stage, the maximum peak-to-peak output voltage available will be far less than the supply voltage.

The two bias resistors for an emitter follower stage ideally have values which bias the base to about 0.6 volts more than half the supply voltage, but the shunting effect of the input resistance of the stage must hot be overlooked, and this is effectively connected in parallel with the lower bias resistor and reduces its value. For good predictability of the bias voltage it is preferable to have bias resistors which are low in value when compared to the input resistance of the amplifier, since resistor tolerances are usually much smaller than those of transistor gain figures (where tolerances of around ± 100% are not unknown!).

Unfortunately, the input signal drives a current through the bias resistors as well as into the base of the transistor, and the input impedance of the amplifier is equal to the parallel impedance of the two bias resistors and the input impedance of the transistor. In many cases a high input impedance is needed, and the severe shunting effect of low value bias resistors is undesirable. This may necessitate a compromise and the use of bias resistors of comparatively high values, or as we shall see in a subsequent 'Starting Point' there are alternative forms of buffer amplifier that can be used. Of course, in any circuit where highly accurate biasing is needed a preset resistor can be used in the bias circuit so that the output bias voltage can be set at precisely the required level.

Common Base Stage

We will not consider this type of amplifier in great detail since it is rarely encountered in practice. Figure 2 shows the method of biasing often employed with common base stages, and gives practical circuit values which help to show the mathematics of this type of biasing. This type of biasing can also be used for common emitter amplifiers, as shown in Figure 3.

Taking Figure 2 first, R3 and R4 bias the base of TR1 to a little over 1.5 volts, and the shunting

effect of the input resistance of TR1 does not significantly reduce this as the input resistance is high in relation to the value of R3. There is a voltage drop of about 0.6 volts or so from the base of TR1 to its emitter, and this gives a little under 1 volt across R2. The potential across R1 will be about 4.7 times this voltage as it is 4.7 times higher in value and passes a similar current to R2. This gives approximately the required potential of 4.5 volts across R1.

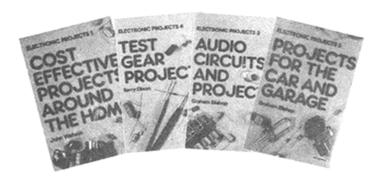
C1 is the input coupling capacitor and needs to have a quite high value as it is feeding into a low input impedance. C2 also needs to have a fairly high value as it must provide a low impedance path to earth for the base of TR1. C3 is the output coupling capacitor, and although the value shown here is a typical one, the value would be chosen to suit the input impedance of the subsequent stage in practice.

The voltage gain of a circuit of this type is comparable to that of a common emitter stage having the same collector load value, bias current, and using the same transistor type. The output impedance is equal to the collector load resistor's value.

The biasing of the common emitter amplifier of Figure 3 operates in exactly the same way as the biasing of the common base stage of Figure 2. The point of this type of biasing is that the current gain of the transistor has very little effect on the bias voltages, and this enables predictable results to be obtained. In Figure 3 emitter resistor R4 has been bypassed by C3, the latter providing a low impedance path from TR1's emitter to earth so that no significant negative feedback is applied over the amplifier. Negative feedback can be applied to this type of circuit by omitting the bypass capacitor, or by having two emitter resistors in series and only bypassing one of them if the full amount of negative feedback is not required.

Sometimes it is possible for one stage of an amplifier to be biased from the output of this is shown in Figure 4. Here an emitter follower output stage is driven direct from . the output of a common emitter stage. The quiescent potential of about 4.5 volts at the collector of TR1 is obviously a suitable bias voltage for TR2. This simple preamplifier has an input impedance of about 100k, a voltage gain of approximately ten, and the output impedance is only about 40 ohms.

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suppression and an ignition booster is shown. Section two encompasses car immobilising and alarm circuits and section three describes ten lighting projects such as interior light extender, lights-on reminder, emergency flasher etc. Section four includes an audio booster, an aerial amplifier, rev counter, wiper delay and several more. Finally section five describes a battery charger, ice warning device, car ice alarm, gauge alarm circuits, parking meter reminder and an accelerometer. Again we can supply PCB's for some of the projects in this book. See catalogue page.

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Specification:

General

Display: 31/2 digit LCD with auto-zero and auto-polarity.

Operating temperature: 0°C to 50°C

Storage temperature: -35°C to 65°C, battery removed

Low battery indicator: "LO BAT" appears on display during last 20% of

Weight including battery: 400 grams

Size: 170 x 89 x 38 mm

Calibration adjustment: 3 readings per second. Accuracies are + (% of reading + no. of digits).

DC Voltage

Ranges: 200mV, 2V, 20V, 200V, 1000V Resolution: 100µV on 200mV range

Accuracy: 0.5% + 1 digit Input impedance: 10 Megohms Normal mode rejection >60dB at 50Hz

Common mode rejection:>100dB at DC and 50Hz

Response time: <1 second Overload protection: 63mA fuse

DC Current

Ranges: 200µA, 2mA, 20mA, 200mA, 2A Resolution: 100nA on 200µA range

Accuracy: 1% + 1 digit on 200µA, 2mA and 20mA ranges, 2% + 2 digits on

200mA and 2A ranges

Burden voltage: 200mV max at full scale except 700mV on 2A range full

Response time: <1 second

Overload protection: A pair of fast switching, high current silicon diodes and

a 2A fuse

AC Voltage

Ranges: 200mV, 2V, 20V, 200V, 750V Resolution: 100µV on 200mV range Accuracy: 45Hz to 400Hz 1% + 5 digits

Conversion type: Average sensing, calibrated to read RMS of sine wave



Input impedance: 10 Megohms <100pF Overload protection: 63mA fuse

AC Current

Ranges: 200µA, 2mA, 20mA, 200mA, 2A Resolution: 100nA on 200µA range Accuracy: 45Hz to 400Hz 3% + 5 digits on 200µA range

2% + 5 digits on 2mA range 3% + 2 digits on other ranges

Burden voltage: 250mV max at full scale, 700mV on 2A range full scale

Response time: <2 seconds

Overload protection: A pair of fast switching, high current silicon diodes and

a 2A fuse

Resistance

Ranges: 200R, 2K, 20K, 200K, 2M, 20M Resolution: 0.1 ohms on 200 ohms range

Accuracy: 0.5% + 1 digit on 2000 range, 0.5% + 2 digits on 2K to 2M ranges,

2% + 1 digit on 20M range

Open circuit voltage: Selectable - high<2.8V, low<0.54V

Overload protection: 63mA fuse

In addition to the various overload protection devices described above, the meter has transient protection on all voltage and resistance ranges up to 6 kilovolts. Also the input to the AC converter is protected against over voltage. The meter requires a standard PP3 battery (not supplied), but there is a socket for connecting a 9V adaptor for mains operation and this input is protected against over voltage and reverse polarity.

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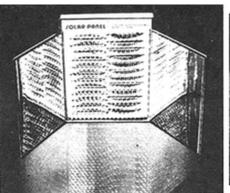
Each solar panel contains crescent shaped silicon solar cells connected so as to supply 6V, 9V or 12V at 50mA when the incident light is about 100mW/sq cm. The cells are mounted in an attractive and sturdy black plastic case. The plastic faceplate comprises hundreds of bubble magnifiers which maximise cell performance as they enhance the light striking the solar cells. Two reflector panels fit on either side of the case and increase cell efficiency even more.

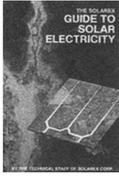
Three solar panels are available 6V, 9V and 12V DC all at 50mA

RK22Y (Solar Panel 6V) Price £7.95 Order As RK23A (Solar Panel 9V) Price £9.95 RK24B (Solar Panel 12V) Price £8.45

Guide To Solar Electricity

This excellent book by the manufacturers of the solar panels described above discusses the solar cell in detail, yet is easy to read and understand.





The book briefly discusses sunlight, then describes the photovoltaic effect, practical solar electric generators, how to use solar cells and applications of solar cells. It is interesting to note from this fascinating book that the solar energy reaching less than one percent of the Sahara desert is more than all the electrical energy used in the world today!

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BASICALLY BASIC

Graham Hall, B. Sc.

BASIC Functions

One of the features of the BASIC language which makes it suitable for such a wide range of applications, is the set of pre-written instructions that can perform commonly used operations. These instructions are called 'Functions'. The functions to be described are the more common ones available on most personal computer systems. The list is not exhaustive, and the way in which they are used in the particular version of BASIC used by your machine may be slightly different from the description here. You should check the users reference manual, for your computer for the complete description of functions available in your machines version of BASIC.

There are three types of functions: math, print and string. Math functions perform mathematical operations, print functions cause operations on terminal output and string functions perform operations on quoted strings or string variables. String functions will be described later in this series.

Math Functions

There are two types of math function - arithmetic and trigonometric. Table 1 lists and summarises the common math functions which are fully described below.

ABS Function

To use the ABS (Absolute value) function the function keyword is followed by an argument enclosed in parenthesis, on a statement line. The result returned is the magnitude, regardless of sign, of the argument. For example the absolute value of both +15 and -15 is 15. The following program demonstrates this:

10 PRINT ABS(15), ABS(-15), ABS(0-10)

20 END RUN

15 15 10

The argument of the function can be any valid BASIC expression, variable or constant. The ABS function is useful for scientific applications where the magnitude of a number is required and not its sign.

EXP Function

The EXP (Exponential) function computes the value of the mathematical constant 'e' raised to the power of the numeric argument specified to the function within parentheses. The constant 'e' is the base of natural logarithms (to six significant digits, e = 2.71828). For example, to raise e to the power of two the EXP function can be written in a program as: 10 PRINT EXP(2). The inverse of the EXP function is the LOG function, which computes the logarithm to the base e of an argument (this is known as the 'natural logarithm'). This relationship can be demonstrated by combining the EXP and LOG functions:

10 PRINT "EXP (2) = " : EXP(2)

20 PRINT "LOG(2) = "; LOG(2)

30 PRINT "LOG (ÉXP(2)) = " ; LOG (EXP(2))

40 PRINT "EXP (LOG(2)) = "; EXP (LOG(2))

50 END RUN

 $EXP(2) = 7.38906 \ LOG(2) = 0.69315 \ LOG(EXP(2)) = 2 \ EXP(LOG(2)) = 2$ Lines 30 and 40 of the above function program are the inverse of each other. They illustrate how the argument to a function can be another function. The EXP function is useful for scientific applications.

INT Function

The argument to the INT (Integer) function can be any valid constant, variable, function or expression. The value returned is the largest integer less than or equal to the argument, i.e. the integer part of the argument is separated from the fractional part. For example:

INT (3.142) = 3, INT (0.69) = 0 and INT (-4.15) = -5

Note the value returned for a negative argument is a greater negative integer.

LOG Function

The LOG (Logarithm) function computes the natural logarithm 24 (logarithm to the base e) of its argument. The argument can be any positive

constant, variable, function or expression which evaluates to a positive number. An error message will be printed if the argument is equal to or less than zero

Some versions of BASIC also have a logarithm function which determines logarithms to the base ten (common logarithm). However, if your version of BASIC does not include this facility it is possible to convert the arguments natural logarithm to another base by dividing the natural logarithm of the argument by the natural logarithm of the new base. For example to find the logarithm of five to the base ten (common logarithm): 10 PRINT "LOGARITHM TO BASE 10 of 5 = ";LOG(5)/LOG(10) 20 END RUN

LOGARITHM TO BASE 10 of 5 = 0.69897

RND Function

The RND (Random) function generates a random number between zero and one (but not including zero or one). The argument of the RND function can be any positive integer, zero or negative integer. The way the argument determines the operation of the RND function differs for different versions of BASIC. Usually, any positive integer within parentheses gives a new random number each time the RND function is used in a program. With zero or a negative integer specified, the same random numbers are generated. This is useful for debugging a program because if the numbers generated by the RND function is varied for each execution, program errors would be difficult to find. Some versions of BASIC do not require the RND function to be specified with an argument. In this case a RANDOMISE statement is included in a program before the RND statement, if different random numbers are required for each program execution. The random numbers generated by the RND function can be modified by expressions involving other BASIC functions and operators. For example, to generate a random integer between one and one hundred:

10 PRINT INT(100 * RND(I)) + 1

The argument of the INT function is '100 * RND(I)' which is an expression consisting of a constant, 100, multiplying a random number generated by the RND function. The result of this combination of functions is a random integer between zero and ninety-nine. The range, is adjusted from one to a hundred by adding the constant one to each number generated.

The RND function is especially useful for games programs and simulations.

SGN Function

The SGN (Sign) function returns a result which depends on the sign of the argument. The argument can be any valid constant, variable or expression. If the argument evaluates to a positive value the SGN function returns a 1; a zero would be returned if the argument evaluates to zero; otherwise a -1 is returned when the argument evaluates to a negative value. An example of this is:

10 ON SGN (x) + 2 GOTO 200,300,400

Here the constant two is added to the result returned by the SGN function. The result is now a positive integer (1,2 or 3) which is used as an argument to the ON GOTO statement to make a branch.

If X is negative, the result of SGN (X) +2 is 1, which directs program control to line 200. If X is 0, the result of SGN (X) +2 is 2, which directs program control to line 300. A branch is made to line 400 when X is positive because then the result of SGN (X) +2 is 3.

SQR Function

The SQR (Square Root) function determines the square root of its argument. The argument can be a positive constant, variable or expression. An error message will be returned if the argument specified is negative. However, some versions of BASIC convert a negative argument to its absolute value and return the square root of the converted value. For example, PRINT SQR(4) will output a 2 to the terminal. The command PRINT SQR(-4) will cause an error message to be output unless the absolute value of the argument is taken by the SQR function.

Trigonometric Functions ATN Function

The ATN (Arctangent) function is a trigonometric function that accepts a numeric argument. The ATN function computes and returns the principal value of the arctangent of the argument in radians (or angular measure). This will be within the range: – π 2 < ATN(x) < π / 2

The relationship between the radian and degree is:

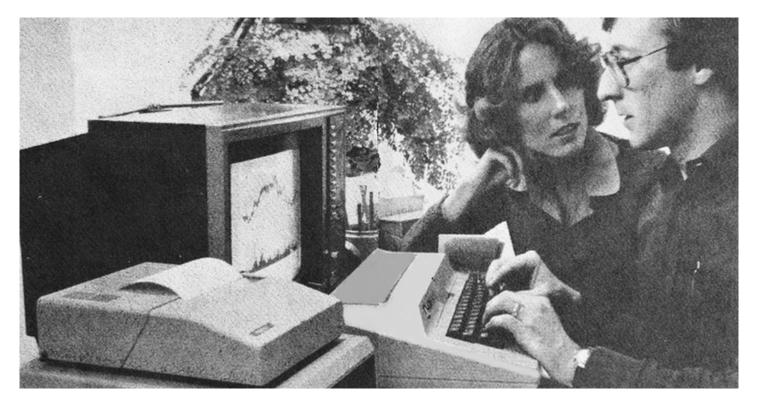
1 degree = π / 180 radians, where π represents the circular constant 3.1415027

To convert the result of the ATN function from radian measure to degrees the value returned is multiplied by 180 / π (i.e. 57.2957795). For example, the command PRINT ATN (10)

prints the arctangent of 10 in radians. The command

PRINT ATN (10) * 57.2957795

will print on the terminal the arctangent of 10 in degrees.



ABS(X) Returns the absolute value of X.

ATN(X) Returns the arctangent of the value X in radian measure.

COS(X) Returns the cosine of the radian value X.

EXP(X) Returns the constant V (2.72828) raised to the power of

X. INT(X) Returns the largest integer value of X.

LOG(X) Returns the natural logarithm of the value X.

RND(X) Returns pseudo random numbers.

SGN(X) Returns an indication of the sign of X.

SIN(X) Returns the sine of the radian value X.

SQR(X) Returns the square root of X.

TAB(X) Positions output to the terminal beginning at column X on the output line.

 $\mathsf{TAN}(\mathsf{X})$ Returns the tangent of the radian value X .

Table 1. Common Math and Print Functions.

The ATN Function is the inverse of the TAN (Tangent) function. This is shown by the following short program:

10 PRINT "ATN(10) = "; ATN(10)

20 PRINT "TAN(ATN(10)) = "; TAN(ATN(10))

30 END

The expression TAN(ATN(10)) will evaluate to 10 because of the inverse relationship between the ATN and TAN functions.

COS Function

The COS (Cosine) function requires an angular argument in radian measure and returns the cosine of the angle. To convert an angle from degrees to radian measure so that it can be used as an argument to the COS function, the angle in degrees is multiplied by the ratio π / 180 (i.e. 0.0174533).

For example, the command PRINT COS (45*0.0174533) will print the cosine of the 45 degree angle.

SIN Function

The SIN (Sine) function requires an angular argument in radian measure and returns the sine of the angle. The same method as described above can be used to convert an angle from degrees to radians. For example, the command PRINT SIN(45* 0.0174533) will print the sine of the 45 degree angle.

TAN Function

The TAN (Tangent) function requires an angular argument in radian measure and returns the tangent of the angle. This is the inverse of the arctangent (ATN) function previously described. For example, to print the tangent of a 30 degree angle the command PRINT TAN (30 * 0.0174533) can be used.

Print Functions TAB Function

The TAB (Tabular) function is used to position output on the terminal. The argument that the TAB function is numeric and moves the start of printing to the specified column. For example, the command PRINT TAB (20); "MESSAGE" outputs the string MESSAGE beginning at the twenty-first column. On most personal computer systems an output line is divided into 72 columns numbered from 0.

User Defined Functions

BASIC allows the programmer to name and formulate a function using the DEF (Define) statement. The DEF statement has the following format:

line number DEF FN n (x) = expression

For example, you may wish to define a function which would return the area of a circle given the radius. Such a function would be;

10 DEF FN A (x) = 3.1415927 * X ^2 (since area of a circle = π x radius squared).

The function name consists of three letters. The first two F and N must always be present but the last can be any letter from A to Z. This allows defined functions in one program (although some systems allow a letter immediately followed by a single number as a function identifier).

The argument to the function is the 'dummy variable' within the parenthesis (x). This reserves memory space for the arguments given to the function later in the program. Any legal variable name can be used as a dummy variable.

The expression on the right hand side of the equal sign is the calculation the function is to perform. The following program demonstrates how the function would be defined and then used to calculate the area of ten circles: 10 REM - CALCULATE AREA OF CIRCLES OF RADIUS 7-10 cm

20 DEF FN A (x) 3.1415927 * X ^ 2

30 PRINT TAB (5); "RADIUS (CM)"; TAB (20); "AREA (CM 2)"

40 FOR X = 1 to 10

50 PRINT TAB (8); X; TAB (22); FN A (x)

60 NEXT X

70 END

The program is composed of the following lines:

Line 10 - The REM statement outlines the programs function. The characters following REM are ignored by the computer.

Line 20- This is the function definition. The function is named FN A and is equal to the expression π X 12, where X is the functions argument. It is advisable to place all function definitions at the beginning of a program so that the program is easier to read and follow.

Line 30 - The TAB function is used to format the output to the terminal. The ,heading 'RADIUS (CM)' will begin at the sixth output line column and 'AREA (CM 2)' will begin at the twenty-first column.

Line 40-The FOR statement initialises the loop index to one and sets the range to ten.

Line 50 - The PRINT statement outputs the value of X (underneath the heading 'RADIUS (CM)' because of the formatting of the TAB function) followed by the value of the area of the circle of radius X computed by the FN A function defined on line 20.

Line 60 - The next statement increments the value of X by one and directs program execution back to line 40.

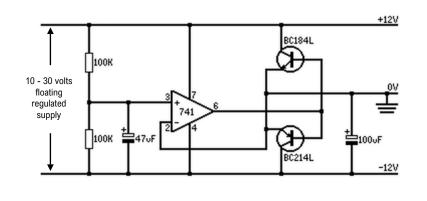
Line 70 - The END statement signifies program completion.

Single rail to dual rail for opamps

Most op-amps require a split power supply of some form because both positive and negative output voltage swings are needed. In some applications it is possible to connect the op-amp across a single supply and bias all the inputs up to half the rail voltage but this implies the use of large numbers of DC blocking capacitors. It is more economical and often better to generate a half-rail voltage using another op-amp and if necessary, a couple of transistors. Provided that the input rails are

floating from earth the new half-rail voltage may be connected to earth, giving in effect a dual supply with centre earth which is ideal for audio applications.

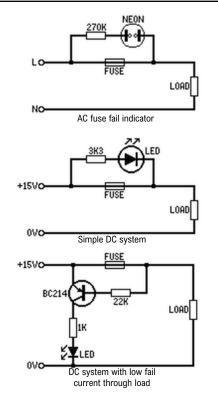
The circuit itself is very obvious. The op-amp is connected as a voltage follower, the input voltage being set at half-rail by the resistor divider and smoothing capacitor. Two transistors are connected to the output of the op-amp to provide current boosting if necessary; the feedback loop being made after these. Note that the maximum voltage supply is limited by the op-amp, in this case 30 volts being the wisest maximum. If the supply is to be used for other op-amps this limit is not relevant.



Fuse failure indication

The failure of a fuse either as a result of a fault or simple ageing and over-heating can be quite alarming because the piece of equipment in question usually stops working with no indication as to why. It is thus useful to arrange for some form of indicator to light when a fuse fails. The simplest indicator is for mains when a neon (together with a 270K resistor if not built into the neon) is strapped across the fuse. Obviously when the fuse blows the voltage at the load end drops and the neon lights. The small leakage current through the neon will be of little consequence to the following circuit, even in the event of a major fault. Failures in DC circuits can be a little more tricky depending on the nature of the following circuits. If a current of say 5 mA is acceptable, even in event of fuse failure, a LED may be connected across the fuse in the same way as the neon. The polarity of the LED should be altered if the fuse is in a negative supply line. If even low current is not acceptable a transistor must be used to drive the LED. A PNP type for a positive rail system can be connected across the fuse with the base connected to the load side. A LED and suitable resistor are added to the collector. If the fuse fails the base voltage falls, switching on the transistor and causing the LED to light.

While on the subject of failures, the usefulness of connecting a small neon across the mains supply as soon as it enters a piece of equipment should not be underestimated. Such a neon will give immediate indication as to tire state of the mains supply thus saving valuable time if the fault is in the mains lead, as it often is.



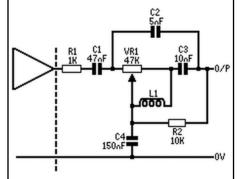
Such miniature neon lamps are cheap to buy and easy to fit. They also provide an added reminder when servicing that mains is supplied even though the equipment is switched off something that it is all too easily forgotten.

Pseudo phaser

Dave Rogers-Walton

Tone stops allow the electronic organ player to select from different fixed filters whilst playing and so are really a type of performance control. There is no reason why a similar facility should not be added to the more usual performance controls (e.g. pitch bend) found on synthesisers. What is needed is some form of one-knob, complex tone control which, unlike standard tone circuits, should be able to shift the balance within the important mid-band as well as at the extremes, so varying the whole character of the sound. The circuit shown does exactly this. It has also been found to have a useful effect at the output of guitar overdrive circuits.

RV1 simultaneously alters the time constants of several high and low-pass signal paths which are then remixed at the output. One of the results of this is the formation of a notch which varies in centre frequency as well as depth, depending or. the setting of RV1. L1 forms resonant



circuits with the capacitors over most of RV1's range but is effectively faded out of circuit towards either end, thus adding another variable element to the frequency response contouring.

Used with a reasonably bright audio input, the perceived loudness is then similar for all settings, so a small turn of this single control can be used to obtain a distinct change in timbre without having to readjust the volume, while a back and forth rotation during a sound gives an effect like a manually swept one-notch phaser. A bypass switch is not needed since with RV1 fully anticlockwise, the tonal response is almost identical to a 'straight through' path. For best results this circuit must: (1) feed into an impedance of 47k or over, for example, a non inverting op-amp, which if given a gain of X5 will also more than make up for the insertion loss of the passive circuit. (2) be driven from a low impedance stage, designated 'A' in the diagram. This may already exist within a piece of equipment (emitter follower, op-amp, etc) in which case the present circuit can simply be added on passively. If the available output impedance is more than a few hundred ohms, however, a simple buffer stage should be included.

READERS LETTERS

Computer Interface Data Wanted

Dear Sir,

I have just purchased your December/February issue from W H. Smith and find it very interesting I own a micro computer, an Acorn Atom and like many micro owners have searched in vain for books or magazines which give practical circuits for use with computer outputs and do not require much knowledge of electronics.

I hope therefore that "Electronics" will publish such articles, not only for the Atari but other micros, and am looking forward to your model train controller.

D. M. GRIFFITHS Nottingham

Bicycle Radio

Dear Sir,

I am a beginner and a few things have got me stumped. Please could you tell me how to make square holes in the front panels of cases. What do you use to cut up Veroboard? In the USA you can buy a "Germanium Crystal Diode". You clip one end to a bike frame, the other to an earphone, and you have a crystal radio. Is this available in the UK? and if so, do you stock it?

DAVID HARRISON Burgess Hill West Sussex

To make square holes, first drill a round one, then file out using a miniature flat warding file. Veroboard can be cut with a sharp knife or deeply scored and snapped off. See our next issue for details of a new book on crystal sets to be published shortly. A suitable diode would be the OA91 with our crystal earpiece. However, don't expect the quality to be to Hi-Fi standards, though reception of whistles, crackles and other assorted garbage should be excellent.

Careful adjustment of the frame should tune different stations, though for best reception of Radio 1 a 70 metre long bicycle will be needed and these are hard to find (to say nothing of cornering difficulties). Raising or lowering the handlebars could prove to be an excellent fine tune control, though it may be best not to re-tune the radio whilst going along.

Price Increases?

Dear Sir,

I note that your price list is liberally sprinkled with "price reduced" symbols. Very good - but just so we can see what you are really doing, why not add a "price increased" symbol?

> R. M. TOBIN Birmingham West Midlands

How many times have you seen a shop window with "Price increased" signs on its window amongst the price reduction signs? If you did see a shop like that I'm sure we'd all think they were being very fair. I am also sure that most people would think they were pretty silly as well. You have to remember that as far as mail order is concerned our price list is our shop window.

More Radio Projects

Dear Sir,

Congratulations on an excellent first number. May I make a suggestion, however, that a proportion, say, up to a quarter of the projects should relate to radio, e.g. a modern communications receiver etc.

> L. W. SMITH Walmer Kent

Suggestions For Future Projects

Dear Sir.

I'm just writing to let you know how much I enjoyed reading the first

issue of "ELECTRONICS" and I am already looking forward to issue No.

May I make a few suggestions for projects in future issues as follows.

- (1) Electrified fence pulser (this will prove useful to gardeners pestered with cats)
- (2) Digital multi meter
- (3) 900 MHz CB rig
- (4) 27 MHz CB rig
- (5) Digital temperature gauge
- (6) Frequency meter up to 50 MHz with possible range extension up to 900 MHz
- (7) Digital wind speed indicator Wishing you every success with future issues.

F. J. BROWN Wirral Merseyside

Multicolour LED Can Be Improved

Dear Sir,

Congratulations on your new magazine-good for Maplin customers who are not necessarily music makers! A pity it is not a monthly.

I have a tip for users of the original multicolour LED (which has gone up by 52% in one go-is this fair?)a much better effect is obtained by painting the surface with two coats of enamel matt varnish. This diffuses the out-coming light very well. Keep up the good work.

C. W. DUDLEY Bromley Kent

The new price of this LED is in fact the price it should always have been, but the manufacturer misquoted us on our first shipment and we passed on this error to keep the price down.

More Suggestions For Stock And Projects

Dear Sir,

LW62S

I W63T

Suggestions for stock items:
(a) To enable readers of book

XW07H "How to Build Your Own Solid State Oscilloscope", to construct this item, it would be advantageous to be able to purchase the cathode ray tubes and their bases, or even a complete kit, through Maplin. It will be seen that the book is currently number 3 in

Train Control Kit

Train Receiver 1-ML926

the Top Twenty. The smaller of the two oscilloscopes has also been deleted from the Maplin catalogue. (b) DIN plugs and sockets:

Add a further 5-pin configuration as projects in future issues as follows: These plugs and sockets are in common use in Philips equipment. Suggestions for project articles in Maplin Publications:

- (a) Passive Infra Red Movement Detector Alarm System.
- (b) Microwave.

E. J. T. HITCHIN Dartford Kent

Maplin Mag Disliked

Dear Sir,

I expect you are interested in reactions to your new magazine "Electronics" which replaces the newsletters, and whose first issue has arrived.

For my part, it is not of much interest to have yet another magazine of relatively low-grade technical difficulty. Nor am I interested in your other music-orientated magazine.

On the other hand, your components catalogue is important to me, and to be able to obtain the up-to-date price lists by sending a stamped-addressed envelope (or by paying £1.00) was perfectly satisfactory.

However, let the first year's subscription stand, but I shall probably not renew it.

Your components service is first-rate, and highly regarded.

J. R. BARKER Bath Avon

We ought to point out that the price list is still available by sending an stamped-addressed envelope or by paying £1 in advance for seven issues.

If you have any interesting comments to make about your hobby in general or Maplin in particular then please write to: The Editor, Maplin Mag, P.O. Box 3, Rayleigh, Essex SS6 8LR. Please write clearly and keep your letters brief and to the point. Thank you.

Price £6.45

Kit Price £5.95

NEW ITEMS USED IN PROJECTS IN THIS MAGAZINE

GA45Y Burglar A GA46A Break Co GA47B External GA72P Train Co GA73Q Train Co GA74R Train Re GA75S Train Re GA76H MPG Me GA77J MPG Me GA77J MPG Me LW57M Burglar A LW58N External LW59P Break Co	larm PSU PCB Price : larm Main PCB Price : intact PCB Price : Horn PCB Price : htrol PCB PCB Price : htrol PCB	£2.40 LV £6.75 LV £1.95 LV £1.60 LV £2.90 QI £2.20 QI £1.35 QI £1.35 QI £1.35 XX £1.75 XX £44.95 XX £2.99 XX	W65V Str W67X MF W68Y Tra W69A Tra R56L 2S R57M ML R58N ML R59P 2S G06G Bu G07H Ex G09K Tra G14Q Ele K45Y Sw	opwatch Kit PG Meter Kit ain Receiver 1-ML927 ain Receiver 2-ML927 sA715 926 927 6C1162 Irglar Alarm Box Iternal Horn Box ain Control Case ectronic Siren vitchpot 1 pole 12 way	Kit Price £5.95 Price £34.95 Price £44.95 Kit Price £5.95 Kit Price £5.95 Price 45p Price £2.45 Price £2.45 Price £12.50 Price £14.50 Price £12.50 Price £19.95 Price £3.75
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PRICE LIST

All prices shown in this list are valid from 15th February 1982 to 15th May 1982

Please note new telephone number for Sales Only (0702) 552911

Prices shown in this list include VAT at 15% where applicable. Items marked NV are rated at 0% and the price shown applies both to inland and export orders. Overseas customers should add up the total cost of all items except those marked NV and deduct 13% to arrive at the total price excluding VAT. Alternatively multiplying the total price (except NV items) by 0.87 will give the total price excluding VAT.

Although postage charges to customers living in the Republic of Ireland and in the UK, but not on the UK mainland, are the same as to mainland addresses we regret that we must levy an additional charge of £5 on each order containing any items marked "Delivery by Carrier".

Will customers from the Republic of Ireland please add 40p and then 35% to the cost of their order now that the Irish pound is not equivalent to sterling, to cover the rate difference and negotiation fees. We will refund any difference; please state cheque or credit note. Alternatively if you pay by bank draft drawn in pounds sterling on a London bank, then you need add nothing extra. Bank drafts drawn in pounds sterling on a London bank should be readily available from your local bank.

All prices are for the unit quantity shown in the catalogue (unless shown otherwise on this list) i.e. each, per pack, per metre etc. All prices include postage and packing. There is a 30p handling charge which must be paid on all orders having a total value of under £4.00.

The price list is intended for use with our 1981 catalogue and applies to all mail orders. Prices in our shop are generally lower on heavy items as mail order prices include postage and packing costs.

Copies of manufacturers' data sheets are available for most IC's - price 40p each.

Notes:

RL31J

NYA Not yet available DISC Discontinued

TEMP Temporarily out of stock

Book NB157.....

OOP Out of print

FEB Out of stock, new stock expected in month shown NV Indicates that item is zero rated for VAT purposes

.£4.35 NV

Prices charged will be those ruling on the day of despatch

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TS08J	Parts T Shirt LC	DISC
TS09K	Parts T-Shirt S	
TS10L	Parts T-Shirt M	
TS11M	Parts T-Shirt L	
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Page 15	ALRIALS	
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XQ24B	Mushkiller FM235T	£17.60
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	Mushkiller FM284T	C20 F0
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YX73Q	XtraBoost Amp	£15.80
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YG21X	Ferrite Rod 814	
YG22Y	Ferrite Rod 101	
YG23A	Ferrite Rod 102	£0.73
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LB10L XB54J	Telescope Aerial 54 m	
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RR39N RL34M RH00A RH11M RH44X RQ68Y RQ24B RQ69A RF11M RH35Q XW56L	Book NB189	£6.85 NV .SEPT .£2.15 NV .£1.55 NV .£4.25 NV .£3.25 NV .£7.75 NV .JULY .£1.75 NV .£1.4.95
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RL04E	Book NB071		Page 35		044.051114	LL02C	Verobox 105		XY53H	Wood-End Case 926	
RR00A XW86T	Book NB195 Book AG471		RQ13P RQ14Q	Book Sybex M11 Book Sybex M12		LL03D LL04E	Verobox 106 Verobox 107		XY54J XY55K	Wood-End Case 936 Wood-End Case 947	
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XW74R	Book FT1120		RQ61R	Book R2		LL11M	Verobox 217		111020	24L 11011(1 alloi	
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RQ58N XW43W	Book BP55 Book NB467		XW57M	Book HD177		LH25C LH26D	Verobox 222 Verobox 223		LH52G LH53H	3E Module 6E Module	
XW43W XW91Y	Book WRTV		XW19V XW03D	Book HD166 Book FT574		LH20D LL12N	Verobox 301		LH54J	12E Module	
RQ33L	Book BP52		XW79L	Book C300		LL13P	Verobox 302		LH55K	24E Module	
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LW28F	Book BP46		RQ10L	Book Sybex 16		LH32K	Verobox 708		FX06G	Cool Grille	£0.32
RH57M	Book NB001		RQ09K	Book Sybex 15		LH33L	Verobox 713		FW81C	Handle	
RH60Q XW22Y	Book NB018 Book FT 1042		R139N XW71N	Book Sybex L8 Book M4		LH34M LH35Q	Verobox 716 Verobox 719		FW82D FX03D	HD Strap Handle Inst Handle Plastic	
RQ76H	Book FT716		XW71N XW72P	Book C280		LIIJJQ	VEIODOX / 19	2.03	FX00A	Inst Handle Small	
RQ77J	Book FT732	£5.75 NV	RQ17T	Book Sybex M15	£7.83 NV	Page 42			FX01B	Inst Handle Large	
XW84F	Book AG353		XW78K	Book C281		LF08J	Box AB7		FX02C	Ferrule	
RL10L RL14Q	Book NB084 Book NB101		XW58N RQ41U	Book NB415 Book NB528		LF09K LF10L	Box AB8	£1.25 £1.15	LH08J LH11M	Recess Handle Heavy Duty Handle	
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RQ32K RL15R	Book NB228 Book NB102		XW50E RL45Y	Book MM286 Book HD106		LF13P LF14Q	Box AB12 Box AB13		FX04E FX94C	Cab Corner Large Corner Two Side	
XW29G	Book NB378		IXL431	BOOK 11D 100		XB71N	Box AB15		FX95D	Comer Three Side	
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Page 32 RH62S	Book NB033	CO 77 NV	RQ42V	Book HD585 Book FT1055		LF16S	Box AB24		YL24B	Small Hinge	£1.55
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RF17T	Book NB240		XW24B	Book HD124		XB68Y	Chassis AC86		YL25C	Lockable Catch	
RL23A RH27E	Book N8137 Book BP34		XW59P XW60Q	Book HD154 Book HD762		LF02C LH37S	Case WB1 Vinyl		YL06G XY17T	Butterfly Catch Laminate Japan Teak	
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RF14Q	Book NB274	£4.40 NV	RQ21X	Book Sybex R4		LH42V	Case WB7 Vinyl		RY01B	Black Tygan 22.½ in	
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RL28F XW13P	Book NB150 Book NB429		RL47B XW18U	Book HD109 Book HD170		LH44X LH45Y	Case TP2 Teak Case TP3 Teak		RY03D RY04E	Brown Tygan 22.½ in Covering Cloth 50 in	
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XW36P XW93B	Book AG582		XW23A RL37S	Book HD155 Book Sybex L9		LH70M LH71N	Box DCM5002 Box DCM5004		Page 48		
			XW82D	Book G402		LH72P	Box DCM5007		BL77J	Wire-Wrap Black	
Page 33		00.05.111/		DOVEC		LH73Q	Box DCM5005		BL78K	Wire-Wrap Blue	
XW26D RH41U	Book NB336 Book BP208		Page 38	BOXES		LH74R XQ08J	Box DCM5006 G-Range 2A		BL79L BL80B	Wire-Wrap Green Wire Wrap Natural	
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RF15R	Book NB252		LH20W	ABS Box MB 1		XY63T	Centurion DX3		BL87U	Bell Wire Brown	
RF16S RQ36P	Book NB253 Book BP51		LH21X LH22Y	ABS Box MB 2 ABS Box MB 3		XY64U XY65V	Centurion WX3 Centurion WX4		BL88V BL89W	Bell Wire Green Bell Wire Grey	
RR16S	Book NB262		LH23A	ABS Box MB 4		XY66W	Centurion DX4		BL90X	Bell Wire Orange	£0.50
RQ79L	Book FT546	£4.85 NV	WY03D	ABS Box 2002	£1.15	XY67X	Centurion DX5	£10.45	BL91Y	Bell Wire Pink	£0.50
XW55K XW68Y	Book AG695 Book BP81		LH60Q LH61R	ABS Box 2004 ABS Box 2005		XY68Y XY69A	Centurion DX6 Centurion WX1		BL92A BL93B	Bell Wire Red Bell Wire Violet	
XW09K	Book NB391		LH62S	ABS Box 2006		XY70M	Centurion WX1		BL93B BL94C	Bell Wire White	
XW40T	Book BP74	£2.05 NV	LH63T	ABS Console M1005		XQ11M	Centurion EX1H	£12.74	BL95D	Bell Wire Yellow	
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BL47B	L/C Wire Blue	.£1.18	XR52G	6 mm TE Cable	£1.75	LR45Y	Cable P Clip 1/4	£0.03	WX17T	Mica 220pF	£0.28
BL48C	L/C Wire Brown		XR53H	1 mm Triple & ECC Cable		LR46A	Cable P Clip 5/16		WX18U	Mica 270pF	
BL49D	L/C Wire Green		XR15R	Mm Screened		LR04E	Cable Clip 3/8		WX19V	Mica 330pF	
BL50E BL51F	L/C Wire Grey L/C Wire Orange		XR12N XR13P	Cable Single Black Cable Single Grey		BH18U BH19V	Hiatt Rd 2¾ mm Hiatt Rd 3½ mm		WX20W WX21X	Mica 390pF Mica 470pF	
BL52G	L/C Wire Pink		XR14Q	Cable Single White		BH20W	Hiatt Rd 4 mm		WX22Y	Mica 560pF	
BL53H	L/C Wire Red		XR16S	Single Mic Cable		BH21X	Hiatt Rd 5 mm		WX23A	Mica 680pF	
BL54J	L/C Wire Violet					BH22Y	Hiatt Rd 6 mm		WX24B	Mica 820pF	
BL55K	L/C Wire White		Page 52		CO 40	BH23A	Hiatt Rd 7 mm		WX25C	Mica 1000pF	
BL56L BL00A	L/C Wire Yellow Wire 10M Black		XR18U XR19V	Low Noise Send Low C Cable		BH24B BH36P	Hiatt Rd 8 mm Hiatt Rd 9 mm		WX26D WX27E	Mica 1500pF Mica 1800pF	
BL01B	Wire 10M Blue		XR63T	UR67RF Cable		BH25C	Hiatt Flat 4 mm		WX28F	Mica 2200pF	
BL02C	Wire 10M Brown		XR08J	Twin Mic Cable		BH37S	Hiatt Flat 5 mm		WX29G	Mica 2700pF	
BL03D	Wire 10M Green		XR20W	Lapped Pair		BH38R	Hiatt Flat 7 mm		WX30H	Mica 3600pF	
BL04E	Wire 10M Grey		XR21X	Cable Twin		BH39N	Hiatt Flat 9 mm	£0.32	WX31J	Mica 4700pF	
BL05F	Wire 10M Orange		XR23A	Cable Quad		BH40T	Hiatt Flat 10 mm		WX32K	Mica 6800pF	
BL06G	Wire 10M Pink		XR25C	Multi Core 4-Way	£0.60	BH41U	Hiatt Flat 14 mm	£0.38	WX33L	Mica 8200pF	
BL07H	Wire 10M Red		Dogo 52				CADACITORS		WX34M	Mica 10.000pF	
BL08J BL09K	Wire 10M Violet Wire 10M White		Page 53 XR26D	Multi-Core 6-Way	£0.65	Page 59	CAPACITORS		BX24B BX25C	Polystyrene 22 Polystyrene 33	
BL10L	Wire 10M Yellow		XR27E	Multi-Core 9 Way		WX35Q	Ceramic 1.8	£0.06	BX26D	Polystyrene 47	
XL10L	Wire 11C		XR28F	Multi- Core 15 Way		WX36P	Ceramic 2 2		BX27E	Polystyrene 68	
YR00A	Bicol Green/Red		XR46A	Multi-Core 25 Way		WX37S	Ceramic 2 7		BX28F	Polystyrene 100	
YR01B	Bicol Green/Yellow		XR54J	Multi-Core 36 Way		WX38R	Ceramic 3 3		BX29G	Polystyrene 150	
YR02C	Bicol Grey/Black		BH30H	Scr Stretch-flex Black		WX39N	Ceramic 3 9		BX30H	Polystyrene 220	
YR03D	Bicol Grey/Blue		BH31J	Scr Stretch-flex Blue		WX40T	Ceramic 4 7		BX31J	Polystyrene 330	
YR04E YR05F	Bicol Orange/Black Bicol Orange/Red		BH33L BH34M	Scr Stretch-flex Red		WX41U WX42V	Ceramic 5 6 Ceramic 6 8		BX32K BX33L	Polystyrene 470 Polystyrene 560	
YR06G	Bicol Pink/Black		HQ49D	Twin Stretch-flex		WX43W	Ceramic 8 2		BX34M	Polystyrene 680	
YR07H	Bicol Purple/Red		XR30H	Standard Co-Ax		WX44X	Ceramic 10		BX35Q	Polystyrene 1000	
YR08J	Bicol Red/Black		XR29G	Low Loss Co-Ax		WX45Y	Ceramic 12		BX36P	Polystyrene 1500	
YR09K	Bicol Red/Blue	£0.34	XR31J	Bal Feeder		WX46A	Ceramic 15		BX37S	Polystyrene 2200	
YR10L	Bicol Red/Brown		YR19V	Marker A0		WX47B	Ceramic 18		BX38R	Polystyrene 3300	
YR11M	Bicol Red/Green		YR20W	Marker A1		WX48C	Ceramic 22		BX39N	Polystyrene 4700	
YR12N YR13P	Bicol White/Black		YR21X YR22Y	Marker A2 Marker A3		WX49D WX50E	Ceramic 27 Ceramic 33		BX40T	Polystyrene 5600	
YR14Q	Bicol White/Red Bicol Yellow/Black		YR23A	Marker A4		WX50L WX51F	Ceramic 39		BX41U BX92A	Polystyrene 6800 Polystyrene 10,000	
YR15R	Bicol Yellow/Green		YR24B	Marker A5		WX52G	Ceramic 47		BX93B	Polystyrene 22.000	
YR16S	Bicol Yellow/Red		YR25C	Marker A6		WX53H	Ceramic 56		BX94C	Polystyrene 47.000	
XR32K	Wire 3202 Black		YR26D	Marker A7	£0.09	WX54J	Ceramic 68	£0.06	BX95D	Polystyrene 100.000	
XR33L	Wire 3202 Blue	£0.17	YR27E	Marker A8	£0.09	WX55K	Ceramic 82	£0.06		, ,	
XR34M	Wire 3202 Brown		YR28F	Marker A9		WX56L	Ceramic 100		Page 61		
XR35Q	Wire 3202 Green		YR29G	Marker B0		WX57M	Ceramic 120		BX46A	1% Polysty 100	
XR36P	Wire 3202 Red		YR30H YR31J	Marker B1 Marker B2		WX58N WX59P	Ceramic 150 Ceramic 180		BX47B	1% Polysty 150	
XR37S XR38R	Wire 3202 White Wire 3202 Green/Yellow		YR32K	Marker B3		WX60Q	Ceramic 220		BX49D BX50E	1% Polysty 220 1% Polysty 270	
ANJOIN	Wife 3202 Green/Tellow	20.17	YR33L	Marker B4		WX61R	Ceramic 270		BX51F	1% Polysty 330	
Page 49			YR34M	Marker B5		WX62S	Ceramic 330		BX52G	1% Polysty 390	
XR57M	HC Wire Black		YR35Q	Marker B6	£0.10	WX63T	Ceramic 390		BX53H	1% Polysty 470	
XR58N	HC Wire Green		YR36P	Marker B7		WX64U	Ceramic 470		BX54J	1% Polysty 560	
XR59P	HC Wire Red		YR37S	Marker B8		WX65V	Ceramic 560		BX55K	1% Polysty 750	
XR40T	Extra Flex Black		YR38R	Marker B9		WX66W	Ceramic 680		BX56L	1% Polysty 1000	
XR41U XR43W	Extra Flex Blue Extra Flex Green		YR39N YR40T	Marker C0 Marker C1		WX67X WX68Y	Ceramic 820 Ceramic 1000		BX57M BX58N	1% Polysty 1200 1% Polysty 1500	
XR44X	Extra Flex Red		YR41U	Marker C2		WX69A	Ceramic 1200		BX59P	1% Polysty 1800	
XR45Y	Extra Flex Yellow		YR42V	Marker C3		WX70M	Ceramic 1500		BX60Q	1% Polysty 2200	
XR22Y	EHT Wire	£0.32	YR43W	Marker C4	£0.10	WX71N	Ceramic 1800	£0.06	BX61R	1% Polysty 2700	
BL11M	Strapping Wire 16 swg		YR44X	Marker C5		WX72P	Ceramic 2200		BX62S	1% Polysty 3300	
BL12N	Strapping Wire 18 swg		YR45Y	Marker C6		WX73Q	Ceramic 2700		BX63T	1% Polysty 3900	
BL13P	Strapping Wire 20 swg		YR46A	Marker C7		WX74R	Ceramic 3300		BX64U	1% Polysty 4700	
BL14Q BL15R	Strapping Wire 22 swg Strapping Wire 24 swg		YR47B YR48C	Marker C8 Marker C9		WX75S WX76H	Ceramic 3900 Ceramic 4700		BX65V BX66W	1% Polysty 5600 1% Polysty 6800	
BL16S	EC Wire 14 swg		11400	Warker Co	£0.10	WX77J	Ceramic 10.000		BX85G	1% Polysty 8200	
BL24B	EC Wire 16 swg		Page 54			WX78K	Ceramic 22.000		BX86T	1% Polysty 10.000	
BL25C	EC Wire 18 swg		BF86T	Heat Shrink CP 16	£0.55	YY24B	Monocap 0 001μF		BX87U	1% Polysty 22.000	
BL26D	EC Wire 20 swg		BF87U	Heat Shrink CP 24		YY25C	Monocap 0.0022μF		WW22Y	Carbonate 0.001	£0.09
BL27E	EC Wire 22 swg		BF88V	Heat Shrink CP 32		YY07H	Monocap 0.0047μF		WW23A	Carbonate 0.0015	
BL28F	EC Wire 24 swg		BF89W	Heat Shrink CP 48		YY08J	Monocap 0.01μF		WW24B	Carbonate 0.0022	
BL29G BL39N	EC Wire 26 swg		BF90X YR17T	Heat Shrink CP 64 Heat Shrink CP 95		YY09K YY10L	Monocap 0.022μF Monocap 0 047μF		WW25C WW26D	Carbonate 0.0033 Carbonate 0.0047	
BL40T	EC Wire 30 swg		YR18U	Heat Shrink CP 127		YY11M	Monocap 0.1µF		WW27E	Carbonate 0.0047	
BL41U	EC Wire 32 swg		BL66W	Heat-Resist Sleeve Black		YR73Q	Minidisc 0.01µF		WW28F	Carbonate 0.0082	
BL42V	EC Wire 34 swg		BL69A	Heat-Resist Sleeve Green		YR74R	Minidisc 0.047µF		WW29G	Carbonate 0.01	
BL43W	EC Wire 36 swg	£1.25	BL70M	Heat-Resist Sleeve Red		YR75S	Minidisc 0.1µF		WW30H	Carbonate 0.012	
BL44X	EC Wire 38 swg		BH00A	Systoflex 1 mm Black		YR76H	Minidisc 0.47µF		WW31J	Carbonate 0.015	
BL60Q BL61R	EC Wire 40 swg		BH01B BH02C	Systoflex 1 mm Blue Systoflex 1 mm Green		BX00A BX01B	Disc 0.01µF Disc 0.022µF		WW32K WW33L	Carbonate 0.018 Carbonate 0.022	
BL61R BL62S	EC Wire 42 swg		BH03D	Systoflex 1 mm Red		BX02C	Disc 0.022µF		WW34M	Carbonate 0.022	
BL63T	EC Wire 48 swg		BH04E	Systoflex 1 mm White		BX03D	Disc 0.1µF		WW35Q	Carbonate 0.027	
XR39N	Zip Wire		BH05F	Systoflex 1 mm Yellow	£0.06		r	-	WW36P	Carbonate 0.039	
XR60Q	HD Loudspeaker Cable	£0.36	BH06G	Systoflex 2 mm Black	£0.09	Page 60			WW37S	Carbonate 0.047	£0.11
YG08J	Litz Speaker Leads		BH07H	Systoflex 2 mm Blue		BX05F	HV Disc 10		WW38R	Carbonate 0.056	
XR06G	Ribbon Cable 10-Way		BH08J	Systoflex 2 mm Green		BX06G	HV Disc 47		WW39N	Carbonate 0.068	
XR07H XR65V	Ribbon Cable 20-WayIDC Cable 12-Way		BH09K BH10L	Systoflex 2 mm Red Systoflex 2 mm White		BX07H BX10L	HV Disc 100 HV Disc 470		WW40T WW41U	Carbonate 0.082 Carbonate 0.1	
ANOSV	IDC Cable 12-way		BH11M	Systoflex 2 mm Yellow		BX10L BX12N	HV Disc 1000		WW410	Carbonate 0.12	
Page 50			BH12N	Systoflex 4 mm Black		BX13P	HV Disc 2200		WW42V WW43W	Carbonate 0.15	
XR47B	Twin Mains DS Black	£0.28	BH13P	Systoflex 4 mm Blue	£0.15	BX14Q	HV Disc 4700	£0.22	WW44X	Carbonate 0.18	
XR00A	Twin Mains DS White	£0.17	BH14Q	Systoflex 4 mm Green	£0.15	BX15R	HV Disc 10.000	£0.19	WW45Y	Carbonate 0.22	£0.16
XR61R	Twin 6A Mains Orange		BH15R	Systoflex 4 mm Red		HY18U	1000V Disc 4700pF		WW46A	Carbonate 0.27	
XR62S XR01B	Twin 6A Mains White Min Mains Black		BH16S BH17T	Systoflex 4 mm White Systoflex 4 mm Yellow		BX16S WX00A	Feed Thro Cap Mica 2.2pF		WW47B	Carbonate 0.33	
XR01B XR02C	Min Mains Black Min Mains White		BH42V	Systoflex 6 mm Black		WX00A WX01B	Mica 3.3pF		WW48C WW49D	Carbonate 0 39 Carbonate 0 47	
XR02C XR03D	6A Mains Black		BH43W	Systoflex 10 mm Black		WX01B WX02C	Mica 5pF		WW50E	Carbonate 0 47	
XR04E	6A Mains White		BI65V	Lacing Cord		WX03D	M.ca 10pF		WW51F	Carbonate 0 68	
XR05F	6A Mains Orange	£0.70	BL57M	Spirawrap 1/8 m	£0.18	WX04E	Mica 18pF	£0.27	WW52G	Carbonate 0 82	
XR09K	HD Mains Black	£0.99	BL58N	Spirawrap ¼ m	£0.21	WX05F	Mica 22pF	£0.27	WW53H	Carbonate 1	£0.42
XR10L	HD Mains White		BL59P	Spirawrap ½ m		WX06G	Mica 27pF		BX70M	Polyester 0.01µF	80.03
XR11M	HD Mains Orange		BF91Y	Tie Wrap 92		WX07H	M.ca 33pF		BX71N	Polyester 0.015µF	
XR248 BL71N	Cotton Mains Stretch flex 1A		BF92A BF93B	Tie Wrap 140 Tie-Wrap 186		WX08J WX09K	Mica 39pF Mica 47pF		BX72P	Polyester 0.022µF	
BL71N BL72P	Stretch flex 6A		BF94C	Cable Tie Base		WX10L	Mica 56pF		BX73Q BX74R	Polyester 0.033µF Polyester 0.047µF	
XR48C	4-Core Mains		BH26D	Safix 4		WX10L WX11M	Mica 68pF		BX74R BX75S	Polyester 0.047µF	
			BH27E	Safix 8		WX12N	Mica 82pF		BX76H	Polyester 0.1µF	
Page 51			BH28F	Safix 12		WX13P	Mica IOOpF	£0.28	BX77J	Polyester 0.15µF	£0.11
XR49D	1.0 mm TE Cable		l _			WX14Q	Mica 120pF		BX78K	Polyester 0.22µF	£0.13
XR50E	1.5 mm TE Cable		Page 55		£0 03	WX15R	Mica 150pF		BX79L	Polyester 0.33µF	
XR51F	2.5 mm TE Cable	£U.05	LR44X	Cable P Clip 3/16	£U.U3	WX16S	Mica 180pF	£U.28	BX80B	Polyester 0.47µF	£0.21

BX81C	Polyester 0.68µF		FB33L	Axial 22µF 450V		FF47B	SW Trim 75pF		HF24B	Alligator Clip Red	
BX82D	Polyester 1µF		FB34M	Axial 33µF 6.3V		FF48C	SW Trim 100pF		HF26D	Charger Clip	
BX83E	Polyester 1.5µF	£0.56	FB35Q	Axial 33µF 16V	£0.11	FF49D	SW Trim 150pF		BW69A	Croc Lead Kit	
BX84F	Polyester 2.2µF	£0.64	FB36P	Axial 33µF 40V	£0.12	FF50E	Dilecon 300pF		HF10L	Push-On Receptacle	£0.33
			FB37S	Axial 47µF 4V		FF51F	Dilecon 500pF		HF11M	Push On Blade	£0.33
Page 62			FB38R	Axial 47µF 10V	£0.10	FY77J	FS Crystal 100 kHz	£4 55	HF12N	Push-On Covers	£0.73
WW15R	Mylar 0.001	£0.05	FB39N	Axial 47µF 25V	£0.13	HX62S	FS Crystal 1 MHz	£5 95	YX47B	Comcon Block 5 way	
WW16S	Mylar 0.0022	£0.05	FB40T	Axial 47µF 40V	£0.14	FY78K	FS Crystal 10 MHz	£2 95	YX4;8C	Comcon Terminal	£0.05
WW17T	Mylar 0.0047	£0.05	FB41U	Axial 47µF 63V	£0.17	FY79L	MP Crystal 1 MHz	£4 45	HF02C	Terminal Post Black	£0.35
WW18U	Mylar 0.01	£0.06	FB42V	Axial 47µF 100V	£0.32	FY808	MP Crystal 2 MHz	£3 55	HF03D	Terminal Post Blue	£0.37
WW19V	Mylar 0.022	£0.06	FB43W	Axial 47µF 450V		FY81C	MP Crystal 2.4576 MHz		HF04E	Terminal Post Brown	£0.37
WW20W	Mylar 0.047		FB44X	Axial 68µF 6.3V		FY82D	MP Crystal 4 MHz		H F05F	Terminal Post Green	
WW21X	Mylar 0.1		FB45Y	Axial 68µF 16V		FY83E	MP Crystal 6.144 MHz		HF06G	Terminal Post Grey	
WW83E	Mylar 0.22		FB47B	Axial 100µF 6.3V		FY84F	MP Crystal 18.432 MHz		HF07H	Terminal Post Red	
FF53H	IS Cap 0.01µF		FB48C	Axial 100µF 10V		HX30H	MCR Crystal Brown Pairs		HF08J	Terminal Post White	
FF54J	IS Cap 0.022µF		FB49D	Axial 100µF 25V			•		HF09K	Terminal Post Yellow	
FF55K				•		HX31J	MCR Crystal Red Pair		HF13P		
	IS Cap 0.047µF		FB50E	Axial 100µF 40V		HX32K	MCR Crystal Orange Pair			Press Terminal Black	
FF56L	IS Cap 0.1µF		FB51F	Axial 100µF 63V		HX33L	MCR Crystal Yellow Pair		HF14Q	Press Terminal Blue	
FF57M	IS Cap 0.22µF		FB52G	Axial 100µF 100V		HX34M	MCR Crystal Green Pair		HF15R	Press Terminal Green	
FF58N	IS Cap 0.47µF		FB53H	Axial 100µF 250V		HX35Q	MCR Crystal Blue Pair		HF16S	Press Terminal Red	
BX22Y	Mix D 0.001µF 1500V		FB54J	Axial 150µF 6.3V		FY85G	Colour TV Crystal	£1.20	HF17T	Press Terminal White	
BX42V	Mix D 0.0047μF 1000V		FB55K	Axial 150µF 16V	£0.13				HF18U	Press Terminal Yellow	£0.28
BX43W	Mix D 0.01 1000V		FB56L	Axial 150µF 25V	£0.15	Page 66			BW72P	Quick Term Lever 2 way	
tBX44X	Mix D 0.022µF 1000V		FB58N	Axial 150µF 63V	£0.32	FY86T	Crystal 50 Hz X 2.16		YR92A	Quick Term Type B	£0.62
BX45Y	Mix D 0.047µF 1000V	DISC	F859P	Axial 220µF 6.3V	DISC	FY87U	Crystal 1 Hz X 2.22	£3.15	BW71N	Quick Term Push 4 way	£0.62
BX67X	Mix D 0.1µF 600V	DISC	FB60Q	Axial 220µF 10V	£0.12	HX60Q	Crystal Socket 25u	£0.23			
tBX68Y	Mix D 0.1µF 1000V	£0.65	FB61R	Axial 220µF 16V	£0.14	HX61R	Crystal Socket 6u	£0.45	Page 74		
BX69A	Mix D 0.22µF 1000V	DISC	FB62S	Axial 220µF 25V	£0.18	HX99H	Ceramic Filter 10.7 MHz	£0.60	WL57M	1 mm Plug Black	£0.20
BX90X	Mix D 0.47µF 1000V	DISC	FB63T	Axial 220µF 40V	£0.27				WL58N	1 mm Plug Red	£0.20
BX91Y	Mix D 1.0μF 600V	DISC	FB64U	Axial 220µF 63V			CAR EQUIPMENT		WL59P	1 mm Socket Black	£0.15
WW54J	Tant 0.1µF 35V		FB65V	Axial 220µF 100V		Page 67			WL60Q	1 mm Socket Red	£0.15
WW55K	Tant 0.15µF 35V		FB66W	Axial 330µF 6.3V		HW18U	Car Aerial Pull Up	£1.99	HF38R	2 mm Plug Black	
WW56L	Tant 0.22µF 35V		FB67X	Axial 330µF 10V		YB67X	Car Aerial Root Top	£5.75	HF39N	2 mm Plug Blue	
WW57M	Tant 0.33µF 35V		FB68Y	Axial 330µF 25V		LH99H	Windscreen Aerial		HF40T	2 mm Plug Green	
WW58N	Tant 0.47µF 35V		FB69A	Axial 330µF 63V		XX37S	Car Aerial Booster		HF41U	2 mm Plug Red	
WW59P	Tant 0.68µF 35V		FB70M			RW29G	Plugpak R		HF42V		
				Axial 470µF 6.3V						2 mm Plug White	
WW60Q	Tant 1.0µF 35V		FB71N	Axial 470µF 10V		RW30H	Plugpak S		HF43W	2 mm Plug Yellow	
WW61R	Tant 1.5µF 35V		FB72P	Axial 470µF 16V		HW11M	Cigar Lighter		HF44X	2 mm Socket Black	
WW62S	Tant 2.2µF 35V		FB73Q	Axial 470µF 25V		YX75S	Accessory Socket		HF45Y	2 mm Socket Blue	
WW63T	Tant 3.3µF 35V		FB74R	Axial 470µF 63V		HW12N	Car Accessory Plug		HF46A	2 mm Socket Green	
WW64U	Tant 4.7µF 16V		FB75S	Axial 470µF 100V		YB68Y	Car Lighter Ext Lead		HF47B	2 mm Socket Red	
WW65V	Tant 4.7µF 35V		FB77J	Axial 680µF 16V		YW59P	Car Power Lead		HF48C	2 mm Socket White	
WW66W	Tant 6.8µF 16V		FB78K	Axial 680µF 25V		FQ73Q	Map Light	£0.64	HF49D	2 mm Socket Yellow	
WW67X	Tant 6.8µF 35V	£0.24	FB79L	Axial 680µF 40V	£0.68				HF50E	Wander Plug Black	
WW68Y	Tant 10µF 16V	£0.25	FB80B	Axial 1000µF 6.3V	£0.29	Page 68	1		HF51F	Wander Plug Blue	£0.17
WW69A	Tant 10µF 25V	£0.28	FB81C	Axial 1000µF 10V	£0.25	HW22Y	12V Inspection Lamp	£1.60	HF52G	Wander Plug Green	£0.17
WW70M	Tant 10µF 35V	£0.36	FB82D	Axial 1000µF 16V		FQ76H	Inspection Lamp L86	£2.60	HF53H	Wander Plug Red	
WW72P	Tant 22µF 16V		FB83E	Axial 1000µF 25V		WY10L	Front Fog Lamp		HF54J	Wander Plug White	
WW73Q	Tant 22µF 25V		FB84F	Axial 1000µF 63V		LY07H	Fog Lamp		HF55K	Wander Plug Yellow	
WW74R	Tant 33µF 10V		FB85G	Axial 1500µF 6.3V		LQ13P	Wiper Kit		HF56L	Wander Socket Black	
WW75S	Tant 47µF 10V		FB86T	Axial 1500µF 10V		LY08J	Reversing Lamp		HF57M	Wander Socket Blue	
WW76H	Tant 47µF 16V		FB87U	Axial 1500µF 16V		LQ14Q	Washer Kit		HF58N	Wander Socket Green	
WW78K	Tant 100µF 3V		FB89W	Axial 2200µF 10V		WY09K	Demister		HF59P	Wander Socket Red	
WW79L	Tant 100µF 10V		FB90X	Axial 2200µF 25V		HQ30H	Wiper Control		HF60Q	Wander Socket White	
YY29G						FQ78K	Car Ammeter		HF61R		
	Mini elect 0.1µF 50V Mini elect 0 47µF 50V		FB91Y	Axial 2200µF 40V		1 Q/OK	oai Ailinetei	27.73	;	Wander Socket Yellow	
YY30H	•		FB92A	Axial 2200µF 63V		Dogo 60			HF62S	4 mm Plug Black	
YY31J	Mini elect 1µF 50V		FB93B	Axial 3300µF 6.3V		Page 69		C1 2E	HF63T	4 mm Plug Blue	
YY32K	Mini elect 2.2µF 50V		FB94C	Axial 3300μF 25V		HQ35Q	Charger Ammeter		HF64U	4 mm Plug Brown	
YY33L	Mini elect 4.7µF 25V		FB95D	Axial 4700μF 10V		HW16S	Car Flash 4 Lamp		HF65V	4 mm Plug Green	
YY34M	Mini elect 10µF 16V		FB96E	Axial 4700µF 25V	£1.25	HW17T	Car Flash 6 Lamp		HF66W	4 mm Plug Red	
YY35Q	Mini elect 10µF 25V					FQ79L	Caravan Flasher		HF67X	4 mm Plug White	
YY36P	Mini elect 22µF 16V	£0.18	Page 64	ļ		FQ92A	7-Pin Trailer Plug		HF68Y	4 mm Plug Yellow	
YY37S	Mini elect 47µF 16V	£0.22	FB97F	Reversolytic 1µF	£0.29	FQ93B	7-Pin Trailer Socket		HF69A	4 mm Socket Black	£0.15
			FB00A	Reversolytic 1.5µF	£0.32	XR55K	7-Core Trailer Cable		HF70M	4 mm Socket Blue	£0.15
Page 63			FB01B	Reversolytic 2.2µF	£0.36	FQ94C	Trailer Socket Bolts		HF71N	4 mm Socket Brown	£0.15
FF00A	PC Elect 0.47µF 100V	£0.11	FB02C	Reversolytic 3.3µF	£0.42	YB7CW	Trailer Lamp Cluster		HF72P	4 mm Socket Green	£0.15
FF01B	PC Elect 1µF 100V	£0.11	FB03D	Reversolytic 4.7µF	£0.46	YB71N	Trailer Reflector	£1.45	HF73Q	4 mm Socket Red	£0.15
FF02C	PC Elect 2.2µF 63V	£0.10	FB04E	Reversolytic 6.8µF	£0.54	FQ95D	Sign 50 mph	£0.29	HF74R	4 mm Socket White	£0.17
FF03D	PC Elect 4.7µF 63V	£0.10	FB06G	Reversolytic 10µF	£0.58	FQ96E	Sign GB	£0.29	HF75S	4 mm Socket Yellow	£0.19
FF04E	PC Elect 10µF 35V	£0.10	FB07H	Reversolytic 15µF	£0.66	FQ88V	Plug Top Supp Strut	£0.42	HF34M	4 mm Patch Cord	£1.98
FF05F	PC Elect 10µF 63V	£0.11	FB08J	Reversolytic 22µF	£0.68	FQ89W	Plug Top Supp Angle	£0.50	HQ54J	Screw-Cap Phono Black	£0.12
FF06G	PC Elect 22µF 16V		FB09K	Reversolytic 33µF		FQ90X	In-Line Plug Supp	£0.25	HQ55K	Screw Cap Phono Blue	
FF07H	PC Elect 22µF 63V		FF19V	Can 1000µF 100V	£1.86				HQ58N	Screw Cap Phono Red	
FF08J	PC Elect 47µF 25V		FF20W	Can 1500µF 63V		Page 70)		HQ59P	Screw Cap Phono White	
FF09K	PC Elect 47µF 63V		FF21X	Can 2200µF 40V		HW01B	Supp Cap Small Lucar		HQ60Q	Screw Cap Phono Yellow	
FF10L	PC Elect 100µF 10V		FF22Y	Can 2200µF 63V		HW02C	Supp Cap Large Lucar		HH01B	Screened Phono	
FF11M	PC Elect 100µF 25V		FF24B	Can 3300µF 40V		HW03D	Supp Cap Spade	£0.59	YW06G	Threaded Phono Socket	
FF12N	PC Elect 100µF 63V		FF25C	Can 3300µF 63V		FQ87U	Supp Cap 3µF	£1.12	HH02C	Phono Socket Single	
FF13P	PC Elect 220µF 16V		FF26D	Can 4700µF 25V		FQ91Y	Suppressor Choke		HH03D	Phono Socket Twin	
FF14Q	PC Elect 220µF 63V		FF27E	Can 4700µF 40V		FQ77J	Jumper Leads		BW74R	Phono Socket Quad	
FF15R	PC Elect 470µF 16V		FF28F	Can 4700µF 63V		YL02C	Magnifying Lamp		BW75S	Phono Socket 5-way	
FF16S	PC Elect 470µF 25V		FF29G	Can 4700µF 100V		FQ97F	Anti Glare Strip		BW755	Phono Socket 6-way	
FF59P	PC Elect 470µF 63V		FF30H	Can 6800µF 40V		FQ98G	Luggage Elastic		2.17.011	500mot 0 may	2.00
FF17T	PC Elect 1000µF 16V		FF31J	Can 10.000µF 25V		FQ99H	Ice Scraper		Page 75		
FF18U	PC Elect 1000µF 25V		FF32K	Can 10.000µF 63V		YB72P	Tow Rope		HH04E	Line Phono	ት ሀ ኃባ
FF60Q	PC Elect 2200µF 16V		FF33L	Clip Can 25		FY00A	Keep Clean Kit		HH05F	Phono Connector	
	I O LIGGE ZZUUUF 10V		FF33L FF34M	Clip Can 25		YB94C	Plug Spanner		HF76H	2.5 Plug Plastic	
			: FF34IVI	Clip Can 40		FY01B	Tyre Pressure Gauge				
FB11M	Axial 0.47µF 250V			VIIU Vall 4U					HF77J	2.5 Plug Scr 2.5 Jack Socket	
FB11M FB12N	Axial 0.47μF 250V Axial 1μF 63V	80.03	FF35Q			: XY7/IP			HE201/		
FB11M FB12N FB13P	Axial 0.47μF 250V Axial 1μF 63V Axial 1μF 450V	£0.08 £0.25	FF35Q FF36P	Clip Can 50	£0.45	XY74R	Electric Pump		HF78K		
FB11M FB12N FB13P FB14Q	Axial 0.47µF 250V Axial 1µF 63V Axial 1µF 450V Axial 15µF 63V	£0.08 £0.25 £0.10	FF35Q FF36P FF37S	Clip Can 50 Horiz Clip 25	£0.45 £0.18		Electric Pump		HF79L	2.5 Line Socket	
FB11M FB12N FB13P FB14Q FB15R	Axial 0.47µF 250V Axial 1µF 63V Axial 1µF 450V Axial 15µF 63V Axial 2.2µF 63V	£0.08 £0.25 £0.10	FF35Q FF36P FF37S FF38R	Clip Can 50 Horiz Clip 25 Horiz Clip 35	£0.45 £0.18 £0.18	Page 71	Electric Pump	£18.79	HF79L HF80B	2.5 Line SocketPlug Plastic 3.5	£0.12
FB11M FB12N FB13P FB14Q FB15R FB16S	Axial 0.47µF 250V Axial 1µF 63V Axial 1µF 450V Axial 15µF 63V Axial 2.2µF 63V Axial 2.2µF 450V	£0.08 £0.25 £0.10 £0.30	FF35Q FF36P FF37S FF38R WL68Y	Clip Can 50 Horiz Clip 25 Horiz Clip 35 Trimmer 5.5pF	£0.45 £0.18 £0.30	Page 71 XB44X	Electric Pump Car Speakers Shelf	£18.79 £6.75	HF79L HF80B HF81C	2.5 Line Socket	£0.12
FB11M FB12N FB13P FB14Q FB15R FB16S FB17T	Axial 0.47μF 250V Axial 1μF 63V Axial 1μF 450V Axial 15μF 63V Axial 2.2μF 63V Axial 2.2μF 450V Axial 3.3μF 63V	£0.08 £0.25 £0.10 £0.10 £0.30 £0.10	FF35Q FF36P FF37S FF38R WL68Y WL69A	Clip Can 50 Horiz Clip 25 Horiz Clip 35 Trimmer 5.5pF Trimmer 10pF	£0.45 £0.18 £0.18 £0.30	Page 71 XB44X XB42V	Car Speakers ShelfCar Speakers Door	£18.79 £6.75 £5.85	HF79L HF80B HF81C HF82D	2.5 Line Socket	£0.12 £0.22 £0.14
FB11M FB12N FB13P FB14Q FB15R FB16S FB17T FB18U	Axial 0.47μF 250V	£0.08 £0.25 £0.10 £0.10 £0.30 £0.10 £0.10	FF35Q FF36P FF37S FF38R WL68Y WL69A WL70M	Clip Can 50 Horiz Clip 25 Horiz Clip 35 Trimmer 5.5pF Trimmer 10pF Trimmer 22pF	£0.45 £0.18 £0.18 £0.30 £0.30	Page 71 XB44X XB42V XY73Q	Car Speakers Shelf	£18.79 £6.75 £5.85 £18.25	HF79L HF80B HF81C HF82D HF83E	2.5 Line Socket	£0.12 £0.22 £0.14 £0.15
FB11M FB12N FB13P FB14Q FB15R FB16S FB17T FB18U FB19V	Axial 0.47µF 250V	£0.08 £0.25 £0.10 £0.10 £0.30 £0.10 £0.12 £0.33	FF35Q FF36P FF37S FF38R WL68Y WL69A WL70M WL72P	Clip Can 50	£0.45 £0.18 £0.18 £0.30 £0.30 £0.30 £0.26 £0.29	Page 71 XB44X XB42V XY73Q XQ75S	Car Speakers Shelf	£18.79 £6.75 £5.85 £18.25 £14 70	HF79L HF80B HF81C HF82D HF83E HF84F	2.5 Line Socket	£0.12 £0.22 £0.14 £0.15 £0.21
FB11M FB12N FB13P FB14Q FB15R FB16S FB17T FB18U FB19V FB20W	Axial 0.47μF 250V	£0.08 £0.25 £0.10 £0.10 £0.30 £0.10 £0.12 £0.33 £0.15	FF35Q FF36P FF37S FF38R WL68Y WL69A WL70M WL72P WL71N	Clip Can 50	£0.45 £0.18 £0.18 £0.30 £0.30 £0.26 £0.29 £0.19	Page 71 XB44X XB42V XY73Q XQ75S XQ76H	Car Speakers Shelf	£18.79 £6.75 £5.85 £18.25 £14 70 £19.49	HF79L HF80B HF81C HF82D HF83E HF84F HF85G	2.5 Line Socket	£0.12 £0.22 £0.14 £0.15 £0.21
FB11M FB12N FB13P FB14Q FB15R FB16S FB17T FB18U FB19V FB20W FB21X	Axial 0.47μF 250V	£0.08 £0.25 £0.10 £0.10 £0.30 £0.10 £0.12 £0.33 £0.15 £0.16	FF35Q FF36P FF37S FF38R WL68Y WL69A WL70M WL72P WL71N WL73Q	Clip Can 50	£0.45 £0.18 £0.18 £0.30 £0.30 £0.26 £0.29 £0.19 £0.35	Page 71 XB44X XB42V XY73Q XQ75S XQ76H LY06G	Car Speakers Shelf	£18.79 £6.75 £5.85 £18.25 £14 70 £19.49 £4.65	HF79L HF80B HF81C HF82D HF83E HF84F HF85G HF86T	2.5 Line Socket Plug Plastic 3.5. Plug Scr 3.5. Jack Socket 3.5. Line Socket Plastic 3.5. Line Socket Plastic 3.5. Line Socket Scr 3.5. Jack Plug Plastic. Side Jack Plastic.	£0.12 £0.22 £0.14 £0.15 £0.21 £0.21
FB11M FB12N FB13P FB14Q FB15R FB16S FB17T FB18U FB19V FB20W FB21X FB22Y	Axial 0.47μF 250V	£0.08 £0.25 £0.10 £0.10 £0.30 £0.10 £0.12 £0.33 £0.15 £0.16	FF35Q FF36P FF37S FF38R WL68Y WL69A WL70M WL72P WL71N	Clip Can 50	£0.45 £0.18 £0.18 £0.30 £0.30 £0.26 £0.29 £0.19 £0.35	Page 71 XB44X XB42V XY73Q XQ75S XQ76H LY06G AF00A	Car Speakers Shelf	£18.79£6.75£5.85£18.25£14 70£19.49£4.65£18.70	HF79L HF80B HF81C HF82D HF83E HF84F HF85G HF86T HF87U	2.5 Line Socket	£0.12 £0.22 £0.14 £0.15 £0.21 £0.21 £0.25 £0.37
FB11M FB12N FB13P FB14Q FB15R FB16S FB17T FB18U FB19V FB20W FB21X FB22Y FB23A	Axial 0.47µF 250V	£0.08 £0.25 £0.10 £0.10 £0.30 £0.10 £0.12 £0.33 £0.15 £0.15 £0.16 £0.09 £0.11	FF35Q FF36P FF37S FF38R WL68Y WL69A WL70M WL72P WL71N WL73Q YQ24B	Clip Can 50. Horiz Clip 25. Horiz Clip 35. Trimmer 5.5pF. Trimmer 10pF. Trimmer 22pF. Trimmer 65pF. Trimmer 40pF. Trimmer 500pF. AM Varitune.	£0.45 £0.18 £0.18 £0.30 £0.30 £0.26 £0.29 £0.19 £0.35	Page 71 XB44X XB42V XY73Q XQ75S XQ76H LY06G	Car Speakers Shelf	£18.79£6.75£5.85£18.25£14 70£19.49£4.65£18.70	HF79L HF80B HF81C HF82D HF83E HF84F HF85G HF86T HF87U YW07H	2.5 Line Socket	£0.12 £0.22 £0.14 £0.15 £0.21 £0.21 £0.25 £0.37 £0.43
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BW79L										
	Chro Stereo Jack Socket£0.35	YX40T	Multicon Socket 4-way		HL30H	Mains Plug SA2019A		LB13P	Headphone Adaptor	
HF93B	Stereo Open Socket£0.35	YX41U	Multicon Socket 9-way		HL31J	Mains Socket SA2020		LB72P	Intercom 2-Station	
BW80B	DPDT Jack Socket£0.48	YX42V	Multicon Socket 15-way		HL33L	Mains Plug SA2367		XY78K	FM Intercom Pair	
HH19V HH20W	Line Jack Plastic£0.24 Scr Line Jack£0.38	YX43W YX44X	Multicon Socket 24-way		HL34M HL36P	Mains Socket SA2368 Mains Plug P635		XY77J	4-Channel FM Intercom	£29.95
HH21X	Stereo Line Socket£0.30	YX45Y	Multicon Socket 36-way Multicon Plug Round		HL37S	Mains Socket P636		Page 95		
HH22Y	Scr Stereo Line Socket£0.58	YX46A	Multicon Socket Pin		HL39N	Mains Plug P551		WY11M	Compact PA Amp	£21.50
HH07H	Co-ax Plug Aly£0.24				HL40T	Mains Socket P552		WY12N	10W PA Amp	
HH06G	Co ax Plug Plastic£0.15	Page 81			HL50E	Sleeve 8037		XY81C	40W PA Amp	£65.50
YW08J	Co-ax Plug Imp£0.15	YW10L	Minicon Plug 3-pin		HL51F	Boot 9455		XY82D	60W PA Amp	£106.75
HH08J	Co-ax Socket Pan£0.37	YW11M	Minicon Plug 4-pin		HL52G	Boot 8878	£0.38			
HH09K	Co-ax Socket Flush£0.29	YW12N	Minicon Plug 6-pin					Page 96		04.05
YW09K	Co-ax Line Socket£0.43	YW13P	Minicon Plug 8-pin		Page 86		00.45	AF09K	AM Radio	
HH11M HH13P	Co-ax Connector£0.12 Skeleton Car Plug£0.14	YW14Q YW15R	Minicon Plug 12-pin		RW04E RW01B	Adaptor E		AF10L AF11M	AM/FM Radio AM/FM/Air Radio	
HH12N	Car Plug Plastic£0.49	YW16S	RA Minicon PI 3-pin RA Minicon PI 4-pin		YW38R	Adaptor W		AF17T	5-Band Radio	
HH14Q	Chassis Car Socket£0.24	YW17T	RA Minicon PI 6-pin		YW39N	Adaptor X		AF12N	Teak Clock Radio	
HH15R	Car Line SocketDISC	YW18U	RA Minicon PI 8-pin		RW07H	Adaptor H		AF13P	Silver Clock Radio	
HH16S	FM Aerial Plug£0.17	YW19V	RA Minicon R 12-pin		RW030	Adaptor D				
HH17T	BNC Plug£0.98	YW20W	Minicon Housing 3-pin		RW11M	Adaptor M		Page 97		
HH18U	BNC Socket£0.98	YW21X	Minicon Housing 4-pin		RW06G	Adaptor G	£0.46	AF14Q	Cassette Clock Radio	£45.90
		YW22Y	Minicon Housing 6-pin	£0.12	RW08J	Adaptor J		AF15R	3-Band Radio Recorder	
Page 77		YW23A	Minicon Housing 8-pin		RW00A	Adaptor A		AF16S	4-Band Recorder	
YW00A	BNC Square Socket£0.85	YW24B	Minicon Housing 12-pin		YW34M	Adaptor S		AF27E	GE1305 Equaliser	£77.50
YW01B YW02C	BNC Line Socket£1.10	YW25C YW26D	Minicon Terminal		YW35Q RW05F	Adaptor T		Page 98		
YW03D	BNC Straight Adaptor£1.37 BNC T Adaptor£2.95	YW27E	Minicon Socket 3-way Minicon Socket 4-way		RW09K	Adaptor F		ACOOA	Video Game Console	£99 95
BW81C	Plug PL 259£0.51	YW28F	Minicon Socket 6-way		RW02C	Adaptor C		AC01B	Air Sea Battle Game	
BW82D	UHF Reducer Small£0.17	YW29G	Minicon Socket 8-way		YW37S	Adaptor V		AC02C	Space War Game	
BW83E	UHF Reducer Large£0.17	YW30H	Minicon Socket 12-way		RW12N	Adaptor N			•	
BW84F	UHF Socket Round£0.49	YW31J	Polar Connector 0.1 in		YW33L	Adaptor R		Page 99		
BW85G	Socket S0239£0.53	YW95D	IDC Con 3 way	£0.20	HL53H	Adaptor P		AC03D	Outlaw Game	
BW86T	UHF Elbow Adaptor£1.32	YW96E	IDC Con 4 way	£0.26	YW36P	Adaptor U	£0.99	AC04E	Video Olympics Game	
BW87U	UHF Straight Adaptor£0.59	YW97F	IDC Con 6-way		RW27E	Din Pak P		AC05F	Breakout Game	
BW88V	UHF T Adaptor£1.55	YW98G	IDC Con 8 way		RW26D	Din Pak N		AC06G	Basketball Game	
YW04E	Adaptor 239£1.12	YW99H	IDC Con 12-way		RW15Y	Din Pak 273		AC07H	Surround Game	£18.95
YW05F	Adaptor 259£1.40	YX49D	IDC Insertion Tool		RW44X	Din Pak 262		Dogo 10	0	
YX51F	Audio Connector 2 way£1.15	HL04E	Wafercon Plug 3-pin		RW47B	Din Pak 275		Page 10		C10.0E
YX52G	Audio Connector 3 way£1.35	HL05F	Wafercon Plug 4-pin		RW25C	Din Pak M		AC09K AC10L	Fun With Numbers Game Code Breaker Game	
YX53H	Audio Connector 4-way£1.26	HL06G	Wafercon Plug 6-pin		RWA6A	Din Pak 274		AC10L AC11M	Hunt & Score Game	
YX54J	Audio Connector 5-way£1.55	HL07H	Wafercon Plug 8-pin		RWftR RW14Q	Din Pak B		AC11NI	Miniature Golf Game	
YX55K BW89W	Audio Connector 6-way£1.75	HL08J	Wafercon Plug 12-pin	£0.29	RW43W	Din Pak A		AC13P	Skydiver Game	
DVVOSVV	XLR Line Plug£1.82	Page 82			RW16S	Din Pak 254 Din Pak C		AC14Q	Street Racer Game	
Page 78	ı	HL09K	Wafercon Socket 3-way	£0.11	RW22Y	Din Pak J		AC15R	Bowling Game	
BW90X	XLR Chassis Socket£2.62	HL10L	Wafercon Socket 4-way		INVVZZI	DIII F ak J	20.09	7.0.0.0	Doming Gamemann	
BW91Y	XLR Line Socket£2.15	HL11M	Wafercon Socket 6-way		Page 87			Page 10	1	
BW92A	XLR Chassis Plug£1 45	HL12N	Wafercon Socket 8-way		RW23A	Din Pak K	£0.65	AC16S	Brain Games	£18.95
BW94C	DIN Latch 5-pin A Plug£1 30	HL13P	Wafercon Socket 12-way		RW24B	Din Pak L		AC18U	Golf Game	£18.95
BW98G	DIN Latch Socket 5 pin A£0.69	HL14Q	Wafercon Terminal		RW18U	Din Pak E		AC19V	Slot Racers Game	£18.95
HH24B	DIN L/S Plug£0.10	YW32K	Polarcon 0.2 in		RW19V	Din Pak F		AC21X	Superman Game	£29.95
HH25C	DIN Plug 3-pin£0.16	YW40T	Compactboard		RW17T	Din Pak D		AC22Y	Adventure Game	
HH26D	DIN Plug 4-pin£0.30	YY22Y	CB Pin Blue	£0.37	RW20W	Din Pak G	£1.34	AC24B	Indy 500 Game	
HH27E	DIN Plug 5 pin A£0.15	YY23A	CB Pin Red	£0.37	RW49D	Din Pak 280	£1.55	AC25C	Backgammon Game	£24.95
HH28F	DIN Plug 5-pin B£0.19	YY26D	CB Pin White	£1.26	RW37S	Din Pak 205	DISC		_	
HH29G	DIN Plug 6-pin£0.39	YY27E	AT Pin Black		RW48C	Plug Pak 279		Page 10		000.05
HH30H	DIN Plug 7-pin£0.19	YR63T	CB Plug Extractor		RW50E	Plug Pak 282		AC26D	Space Invaders Game	
HH31J	DIN L/S Socket£0.07	YB08J	Large Patch board		RW51F	Plug Pak 283		AC2?E	Programming Cartridge	
HH32K	DIN Socket 3-pin£0.16	WQ10L	Large Patch Plug		RW28F	Plug Pak Q		AC28F	Chess Game	£24.95
HH33L	DIN Socket 4 pin£0.16	HH39N	Multi-position Plug		RW31J	Plug Pak T		Page 10	2	
HH34M	DIN Socket 5-pin A£0.14	HH38R	Universal Plug	£0.85	RW32K	Plug Pak V		AC20W	Circus Game	£24 95
HH35Q	DIN Socket 5-pin B£0.18	D 02			RW34M	Plug Pak X		AC17T	Human Cannonball	
HH36P	DIN Socket 6-pin£0.21 DIN Socket 7-pin£0.19	Page 83 HH60Q	Std Power Plug 2.1	£0.14	RW35Q	Plug Pak HD Guitar	£4.45	AC23A	Casino Game	
HH37S HH40T	DIN Socket 7-pin£0.19 DIN Line Socket 2-pin£0.15	HH61R	Long Power Plug 2.1			CONSUMER		AC31J	Night Driver Game	
HH41U	DIN Line Socket 3-pin£0.16	HH62S	Std Power Plug 2.5		Page 88			AC32K	Dodge Em	
HH42V	DIN Line Socket 4-pinDISC		Long Power Plug 2.5		AF18U		£6.95		Pele Soccer Game	000.05
HH43W		: HH63T				Canon LC31		AC33L		£29.95
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HH44X	DIN Line Socket 5-pin A£0.16 DIN Line Socket 5-pin B£0.21						£11.85	AC34M AC35Q	Hangman Game Video Checkers	£18.95 £18.95
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HH44X HH45Y HH46A	DIN Line Socket 5-pin A£0.16 DIN Line Socket 5-pin B£0.21 DIN Line Socket 6-pin£0.20 DIN Line Socket 7-pinDISC	HH85G HH86T HH87U HH88V	Power Socket 2.1 Power Socket 2.5 Cassette Socket Nivico Cassette Socket Paros	£0.22 £0.39 £0.46	AF19V AF20W Page 89	Canon LC52 Canon FC42	£11.85 £13.95	AC34M AC35Q AC36P AC29G	Hangman Game Video Checkers Maze Craze Video Game Keyboard	£18.95 £18.95 £24.95 £13.95
HH44X HH45Y HH46A YX90X	DIN Line Socket 5-pin A£0.16 DIN Line Socket 5-pin B£0.21 DIN Line Socket 6-pin£0.20 DIN Line Socket 7-pinDISC PC DIN Socket 2-pin£0.25	HH85G HH86T HH87U HH88V HL17T	Power Socket 2.1 Power Socket 2.5 Cassette Socket Nivico Cassette Socket Paros USA Mains Plug	£0.22 £0.39 £0.46 £0.20	AF19V AF20W Page 89 AF21X	Canon LC52 Canon FC42 Canon LC61T	£11.85 £13.95	AC34M AC35Q AC36P AC29G AC30H	Hangman Game Video Checkers Maze Craze Video Game Keyboard Video Game Paddles	£18.95 £18.95 £24.95 £13.95 £13.95
HH44X HH45Y HH46A	DIN Line Socket 5-pin A£0.16 DIN Line Socket 5-pin B£0.21 DIN Line Socket 6-pin£0.20 DIN Line Socket 7-pinDISC	HH85G HH86T HH87U HH88V HL17T HL18U	Power Socket 2.1	£0.22 £0.39 £0.46 £0.20 £0.27	AF19V AF20W Page 89 AF21X AF22Y	Canon LC52	£11.85 £13.95 £16.95 DISC	AC34M AC35Q AC36P AC29G	Hangman Game Video Checkers Maze Craze Video Game Keyboard	£18.95 £18.95 £24.95 £13.95 £13.95
HH44X HH45Y HH46A YX90X YX91Y	DIN Line Socket 5-pin A. £0.16 DIN Line Socket 5-pin B. £0.21 DIN Line Socket 6-pin £0.20 DIN Line Socket 7-pin DISC PC DIN Socket 2-pin £0.25 PC DIN Socket 5-pin A. £0.25	HH85G HH86T HH87U HH88V HL17T HL18U HL19V	Power Socket 2.1 Power Socket 2.5 Cassette Socket Nivico Cassette Socket Paros USA Mains Plug Flat Pin M/S Flat Pin Connector	£0.22 £0.39 £0.46 £0.20 £0.27 £0.31	AF19V AF20W Page 89 AF21X AF22Y YX88V	Canon LC62	£11.85 £13.95 £16.95 DISC £0.46	AC34M AC35Q AC36P AC29G AC30H	Hangman Game	£18.95 £18.95 £24.95 £13.95 £13.95
HH44X HH45Y HH46A YX90X YX91Y Page 79	DIN Line Socket 5-pin A£0.16 DIN Line Socket 5-pin B£0.21 DIN Line Socket 6-pin£0.20 DIN Line Socket 7-pinDISC PC DIN Socket 2-pin£0.25 PC DIN Socket 5-pin A£0.25	HH85G HH86T HH87U HH88V HL17T HL18U HL19V RW56L	Power Socket 2.1. Power Socket 2.5. Cassette Socket Nivico. Cassette Socket Paros. USA Mains Plug. Flat Pin M/S. Flat Pin Connector. Cassette Lead Crown.	£0.22 £0.39 £0.46 £0.20 £0.27 £0.31 £0.60	AF19V AF20W Page 89 AF21X AF22Y	Canon LC52	£11.85 £13.95 £16.95 DISC £0.46	AC34M AC35Q AC36P AC29G AC30H AC37S	Hangman Game	£18.95 £18.95 £24.95 £13.95 £13.95
HH44X HH45Y HH46A YX90X YX91Y Page 79 YQ48C	DIN Line Socket 5-pin A£0.16 DIN Line Socket 5-pin B£0.21 DIN Line Socket 6-pin£0.20 DIN Line Socket 7-pinDISC PC DIN Socket 2-pin£0.25 PC DIN Socket 5-pin A£0.25 D-Range 25-Way Plug£2.15	HH85G HH86T HH87U HH88V HL17T HL18U HL19V RW56L RW57M	Power Socket 2.1	£0.22 £0.39 £0.46 £0.20 £0.27 £0.31 £0.60 £0.60	AF19V AF20W Page 89 AF21X AF22Y YX88V YX89W	Canon LC52	£11.85 £13.95 £16.95 DISC £0.46	AC34M AC35Q AC36P AC29G AC30H	Hangman Game	£18.95 £18.95 £24.95 £13.95 £13.95 £13.95
HH44X HH45Y HH46A YX90X YX91Y Page 79 YQ48C YQ49D	DIN Line Socket 5-pin A£0.16 DIN Line Socket 5-pin B£0.21 DIN Line Socket 6-pin£0.20 DIN Line Socket 7-pinDISC PC DIN Socket 2-pin£0.25 PC DIN Socket 5-pin A£0.25 D-Range 25-Way Plug£2.15 D-Range 25-Way Socket£2.35	HH85G HH86T HH87U HH88V HL17T HL18U HL19V RW56L RW57M RW58N	Power Socket 2.1	£0.22 £0.39 £0.46 £0.20 £0.27 £0.31 £0.60 £0.60 £0.60	AF19V AF20W Page 89 AF21X AF22Y YX88V YX89W Page 90	Canon LC52	£11.85 £13.95 £16.95 DISC £0.46 £2.75	AC34M AC35Q AC36P AC29G AC30H AC37S	Hangman Game	£18.95 £18.95 £24.95 £13.95 £13.95 £13.95
HH44X HH45Y HH46A YX90X YX91Y Page 79 YQ48C YQ49D YQ50E	DIN Line Socket 5-pin A£0.16 DIN Line Socket 5-pin B£0.21 DIN Line Socket 6-pin£0.20 DIN Line Socket 7-pinDISC PC DIN Socket 2-pin£0.25 PC DIN Socket 5-pin A£0.25 D-Range 25-Way Plug£2.15 D-Range 25-Way Socket£2.35 D-Range 25-Way Cover£2.25	HH85G HH86T HH87U HH88V HL17T HL18U HL19V RW56L RW57M RW58N RW59P	Power Socket 2.1. Power Socket 2.5. Cassette Socket Nivico. Cassette Socket Paros. USA Mains Plug. Flat Pin M/S. Flat Pin M/S. Flat Pin Connector. Cassette Lead Crown. Cassette Lead Hitachi. Cassette Lead Nat Pan. Cassette Lead Nivico.	£0.22 £0.39 £0.46 £0.20 £0.27 £0.31 £0.60 £0.60 £0.60	AF19V AF20W Page 89 AF21X AF22Y YX88V YX89W	Canon LC52	£11.85 £13.95 £16.95 DISC £0.46 £2.75	AC34M AC35Q AC36P AC29G AC30H AC37S Page 10 HF01B	Hangman Game Video Checkers Waze Craze Video Game Keyboard Video Game Paddles Video Game Joysticks ELECTRICAL 4 Terminal Block 5A	£18.95 £18.95 £24.95 £13.95 £13.95 £13.95 £13.95
HH44X HH45Y HH46A YX90X YX91Y Page 79 YQ48C YQ49D	DIN Line Socket 5-pin A£0.16 DIN Line Socket 5-pin B£0.21 DIN Line Socket 6-pin£0.20 DIN Line Socket 7-pinDISC PC DIN Socket 2-pin£0.25 PC DIN Socket 5-pin A£0.25 D-Range 25-Way Plug£2.15 D-Range 25-Way Socket£2.35	HH85G HH86T HH87U HH88V HL17T HL18U HL19V RW56L RW57M RW58N	Power Socket 2.1	£0.22 £0.39 £0.46 £0.20 £0.27 £0.31 £0.60 £0.60 £0.60 £0.60	AF19V AF20W Page 89 AF21X AF22Y YX88V YX89W Page 90	Canon LC52	£11.85 £13.95 £16.95 DISC £0.46 £2.75	AC34M AC35Q AC36P AC29G AC30H AC37S Page 10 HF018 HL55U HL55K HL55K	Hangman Game	£18.95 £18.95 £24.95 £13.95 £13.95 £13.95 £0.33 £0.69 £1.10
HH44X HH45Y HH46A YX90X YX91Y Page 79 YQ48C YQ49D YQ50E YQ51F	DIN Line Socket 5-pin A	HH85G HH86T HH87U HH88V HL17T HL18U HL19V RW56L RW57M RW58N RW58N RW59P RW60Q	Power Socket 2.1. Power Socket 2.5. Cassette Socket Nivico. Cassette Socket Paros. USA Mains Plug. Flat Pin M/S. Flat Pin Connector. Cassette Lead Crown. Cassette Lead Hitachi. Cassette Lead Nat Pan. Cassette Lead Nivico. Cassette Lead Otake-Orion.	£0.22 £0.39 £0.46 £0.20 £0.27 £0.31 £0.60 £0.60 £0.60 £0.60 £0.60 £0.60 £0.60	AF19V AF20W Page 89 AF21X AF22Y YX88V YX89W Page 90 AF02C Page 91 AF03D	Canon LC52	£11.85 £13.95 £16.95 DISC £0.46 £2.75 £645.00	AC34M AC35Q AC36P AC29G AC30H AC37S Page 10 HF01B HL54J HL55K HL56L HL57M	Hangman Game Video Checkers Wideo Game Keyboard Video Game Paddles. Video Game Joysticks ELECTRICAL 4 Terminal Block 5A Terminal Block 15A Terminal Block 0A Terminal Block Connector. 5 Amp Plug	£18.95 £18.95 £24.95 £13.95 £13.95 £13.95 £13.95 £13.95 £13.95
HH44X HH45Y HH46A YX90X YX91Y Page 79 YQ48C YQ49D YQ50E YQ51F WQ14Q	DIN Line Socket 5-pin A£0.16 DIN Line Socket 5-pin B£0.21 DIN Line Socket 6-pin£0.20 DIN Line Socket 7-pinDISC PC DIN Socket 2-pin£0.25 PC DIN Socket 5-pin A£0.25 D-Range 25-Way Plug£2.15 D-Range 25-Way Socket£2.35 D-Range 25-Way Cover£2.25 D-Range Latch£0.33 PCB Connectors 45£0.07	HH85G HH86T HH87U HH88V HL17T HL18U HL19V RW55L RW57M RW55M RW59P RW60Q RW61R	Power Socket 2.1 Power Socket 2.5 Cassette Socket Nivico Cassette Socket Paros USA Mains Plug Flat Pin M/S Flat Pin Connector Cassette Lead Crown Cassette Lead Hitachi Cassette Lead Nat Pan Cassette Lead Nivico Cassette Lead Otake-Orion. Cassette Lead Paros	£0.22 £0.39 £0.46 £0.20 £0.27 £0.60 £0.60 £0.60 £0.60 £0.60 £0.60 £0.60 £0.60 £0.65 £0.75	AF19V AF20W Page 89 AF21X AF22Y YX88V YX89W Page 90 AF02C Page 91 AF030 AF28F	Canon LC52	£11.85 £13.95 £16.95 DISC £0.46 £2.75 £645.00 DISC £50.00	AC34M AC35Q AC36P AC29G AC30H AC37S Page 10 HF01B HL54J HL55K HL56L HL57M RW67X	Hangman Game Video Checkers Video Craze Video Game Keyboard Video Game Paddles Video Game Joysticks ELECTRICAL 4 Terminal Block 5A Terminal Block 30A Terminal Block Connector 5 Amp Plug	£18.95 £18.95 £24.95 £13.95 £13.95 £13.95 £13.95 £13.95 £14.95 £1.10 £1.47 £0.59 £0.79
HH44X HH45Y HH46A YX90X YX91Y Page 79 YQ48C YQ49D YQ50E YQ51F WQ14Q WQ15R	DIN Line Socket 5-pin A£0.16 DIN Line Socket 5-pin B£0.21 DIN Line Socket 6-pin£0.20 DIN Line Socket 7-pinDISC PC DIN Socket 2-pin£0.25 PC DIN Socket 5-pin A£0.25 D-Range 25-Way Plug£2.15 D-Range 25-Way Socket£2.35 D-Range 25-Way Cover£2.25 D-Range Latch£0.33 PCB Connectors 45£0.07 PCB Connectors Vertical£0.07	HH85G HH86T HH87U HH88V HL17T HL18U HL19V RW56L RW55M RW59P RW60Q RW61R RW61R RW62S	Power Socket 2.1. Power Socket 2.5. Cassette Socket Nivico. Cassette Socket Paros. USA Mains Plug. Flat Pin M/S. Flat Pin Connector. Cassette Lead Crown. Cassette Lead Hitachi. Cassette Lead Nat Pan. Cassette Lead Nat Pan. Cassette Lead Otake-Orion. Cassette Lead Otake-Orion. Cassette Lead Paros. Cassette Lead Paros. Cassette Lead Paros.	£0.22 £0.39 £0.46 £0.20 £0.27 £0.31 £0.60 £0.60 £0.60 £0.60 £0.60 £0.60 £0.60 £0.65 £0.75 £0.60	AF19V AF20W Page 89 AF21X AF22Y YX88V YX89W Page 90 AF02C Page 91 AF03D	Canon LC52	£11.85 £13.95 £16.95 DISC £0.46 £2.75 £645.00 DISC £50.00	AC34M AC35Q AC36P AC29G AC30H AC37S Page 10 HF01B HL54J HL55K HL56L HL57M RW67X HL58N	Hangman Game	£18.95 £18.95 £18.95 £13.95 £13.95 £13.95 £13.95 £13.95 £13.95
HH44X HH45Y HH46A YX90X YX91Y Page 79 YQ48C YQ49D YQ50E YQ51F WQ14Q WQ15R WQ16S	DIN Line Socket 5-pin A	HH85G HH86T HH87U HH88V HL17T HL18U HL19V RW56L RW57M RW58N RW59P RW60Q RW61R RW62S RW62S RW63T	Power Socket 2.1. Power Socket 2.5. Cassette Socket Nivico. Cassette Socket Paros. USA Mains Plug. Flat Pin M/S. Flat Pin M/S. Flat Pin Connector. Cassette Lead Crown Cassette Lead Hitachi. Cassette Lead Nat Pan. Cassette Lead Nivico. Cassette Lead Otake-Orion. Cassette Lead Paros. Cassette Lead Philips. Cassette Lead Philips. Cassette Lead Sanyo	£0.22 £0.39 £0.46 £0.20 £0.27 £0.31 £0.60 £0.60 £0.60 £0.60 £0.60 £0.60 £0.60 £0.65 £0.75 £0.60	AF19V AF20W Page 89 AF21X AF22Y YX88V YX89W Page 90 AF02C Page 91 AF03D AF28F AF04E	Canon LC52	£11.85 £13.95 £16.95 DISC £0.46 £2.75 £645.00 DISC £50.00	AC34M AC35Q AC36P AC29G AC30H AC37S Page 10 HF01B HL54J HL55L HL57M RW67X HL58N HL59P	Hangman Game Video Checkers Maze Craze Video Game Keyboard Video Game Paddles Video Game Joysticks ELECTRICAL 4 Terminal Block 5A Terminal Block 15A Terminal Block OA Terminal Block Connector 5 Amp Plug 13 Amp Plug Nylon Rubber 13A Plug 15A Plug Nylon	£18.95 £18.95 £24.95 £13.95 £13.95 £13.95 £13.95 £10.89 £1.10 £1.47 £0.59 £0.79 £0.99
HH44X HH45Y HH46A YX90X YX91Y Page 79 YQ48C YQ49D YQ50E YQ51F WQ14Q WQ15R WQ15R FL83E FL84F FL85G	DIN Line Socket 5-pin A	HH85G HH86T HH87U HH88V HL17T HL18U HL19V RW55M RW55M RW55P RW60Q RW61R RW62S RW63T RW64U	Power Socket 2.1. Power Socket 2.5. Cassette Socket Nivico. Cassette Socket Paros. USA Mains Plug. Flat Pin M/S. Flat Pin M/S. Flat Pin M/S. Cassette Lead Crown. Cassette Lead Hitachi. Cassette Lead Nat Pan. Cassette Lead Nat Pan. Cassette Lead Otake-Orion. Cassette Lead Paros. Cassette Lead Paros. Cassette Lead Paros. Cassette Lead Paros. Cassette Lead Sharp. Cassette Lead Sharp.	.£0.22 .£0.39 .£0.46 .£0.46 .£0.20 .£0.27 .£0.31 .£0.60 .£0.60 .£0.60 .£0.60 .£0.60 .£0.65 .£0.65 .£0.65 .£0.60 .£0.60	AF19V AF20W Page 89 AF21X AF22Y YX88V YX88W Page 90 AF02C Page 91 AF03D AF28F AF04E Page 92	Canon LC52	£11.85£13.95£13.95£16.95DISC£0.46£2.75£645.00£65.00	AC34M AC35Q AC36Q AC39G AC30H AC37S Page 10 HF01B HL54J HL55K HL56L HL55TM RW67X HL58B HL59B HL59D HL60Q	Hangman Game Video Checkers	£18.95 £18.95 £24.95 £13.95 £13.95 £13.95 £13.95 £13.95 £10.99 £1.10 £1.47 £0.59 £0.79 £0.99 £1.67
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HL80B	Cooker Outlet C	£2.10	BF49D	Isobolt M4 12 mm	£0.33	LW20W	Mixer Mounting Tube 16	DISC	HB43W	DR Drive Scale	£9.75
H181C	Cooker Outlet T		BF50E	Isobolt M4 25 mm		WH48C	Mains Warning Label	£0.15	HB45Y	Aluminium Dial	£4.75
HL82D	Flex Outlet Unswitched		BF51F	Isobolt M3 6 mm		XX31J	PCB Guides		HB46A	White Pointer	
HL83E HL84F	Switched Flex Outlet Clock Connector S		BF52G BF53H	Isobolt M3 12 mmIsobolt M3 25 mm		XH39N XH40T	Transfer 1/8 in Black Transfer 1/8 in Red		HB47B HB48C	Ball Drive Pointer Spring Short	
HL85G	Clock Connector B		BF54J	Isobolt M2.5 6 mm		XH41U	Transfer 1/8 in White		HB49D	Spring Medium	
HL86T	Blanking Plate		BF55K	Isobolt M2.5 12 mm		XH42V	Transfer 1/4 in Black		HB50E	Spring Long	
HL87U	20A Plate Switch		BF56L	Isonut M5		XH43W	Transfer ¼ in Red		RX95D	Pulley ½ in	£0.14
HL88V	20A Water Heater Switch		BF57M	Isonut M4		XH44X	Transfer ¼ in White				
HL89W HL90X	Light Switch ST Single		BF58N BF59P	Isonut M3Isonut M2 5		XH45Y XH46A	Panel Transfer Black Panel Transfer Red		Page 11	MICROPHONES	
HL91Y	Light Switch DT Single Light Switch Dual		LR59P	Isonut M2		XH47B	Panel Transfer White		LB92A	Phone Coil	£0.85
HL92A	Light Switch Triple		BF60Q	Isowasher M5		XIII-7 D	Tallol Hallstor William	21.55	LB93B	Crystal Mic Insert	
HL93B	Light Switch Quad		BF61R	Isowasher M4			KNOBS		LB68Y	Lapel Mic	
	ŭ		BF62S	Isowasher M3		Page 11			YW69A	Stick Mic	
Page 10			BF63T	Isowasher M2.5		RW75S	Knob BK12		YB31J	Cassette Mic Jacks	
FQ10L	250W Rotary Dimmer		LR60Q	Isowasher M2		RW77J	Knoh PN20		YB32K	Cassette Mic DIN	
FQ12N	2SOW Push Dimmer Single		BF42V	Isoshake M5		RX99H	Knob RN92		YB33L	Electret Cassette Mic	
FQ13P FQ14Q	250W Push Dimmer Double. 250W Touch Dimmer		BF43W BF44X	Isoshake M4		RW87U RW86T	Knob KB4		WF35Q LH86T	Dynamic Ball Mic Long Stem Mic	
XX35Q	Remote Control Dimmer		BF44X BF45Y	Isoshake M3Isoshake M2.5		RX09K	Knob R78		LHOUI	Long Stern Mic	
XX36P	Dimmer Control Box		LR61R	Isoshake M2		HB23A	Knob K1		Page 11	18	
FQ15R	Security Dimmer		2.1.0.11	ioconano inziminimi	20.00	HB24B	Knob K2		LH87U	Dynamic Stereo Mics	£10.25
FQ16S	Auto Security Switch	£13.25	Page 11	0		HB19V	Knob RK401	£0.95	WF05F	Communications Mic	£5.75
YB09K	Fi Pattress 16 mm Single		LR62S	Isotag M5		HB57M	Knob RK403		YW70M	Diff Comm Mic	
YB10L	FI Pattress 25 mm Single		LR63T	Isotag M4		RW88V	Knob MI		YW77J	Mic Holder Screw-Fix	
YB11M	FI Pattress 25 mm Double		LR64U	Isotag M3		RW89W	Knob M2		YW78K	Mic Holder Adhesive	
YB12N YB13P	FI Pattress 35 mm Double Steel Pattress 47 mm		LR65V LR66W	Isotag M2 5Isotag M2		RW90X RX00A	Knob M3 Knob M4		YW79L XY72P	Mic Holder Magnetic Base Station Mic	
YB14Q	Sur Pattress 20 mm Single		BF68Y	Self Tapper No 8 x 3/8 in		RX10L	Knob R81		LB69A	Tie-Clip Mic	
YB15R	Sur Pattress 29 mm Single		BF69A	Self Tapper No 8 x ½ in		RX11M	Knob 82		2500/1	Tio One International	
YB16S	Sur Pattress 29 mm Double.		LR67X	Self Tapper No 6 x 3/8 in					Page 11	19	
YB17T	Sur Pattress 47 mm Double.	£2.75	BF67X	Self Tapper No 6 x 1/2 in		Page 11			YW71N	UM Tie-Clip Mic	
YB18U	Conversion Pattress	£2.50	BF65V	Self Tapper No 4 x 3/8 in		RW78K	Knob F10		YB34M	Low-Cost Elect Mic	
P	20		BF66W	Self Tapper No 4 x ½ in		HB26D	Knob F11		YB35Q	Electrot Mic Burel 7	
Page 10		CO 65	BF64U	Self Tapper No 2 x 3/16 in.		RX01B	Knob NK2		WF34M YB36P	Electret Mic Dual-Z	
FQ00A FQ01B	Ceiling Switch 1-way Ceiling Switch 2-way		LR68Y BF70M	Self Tapper No 2 x 3/8 in Nylon 2BA ½ in		RX02C YX01B	Knob PK2 Knob K7A		YB37S	Unisound Mic EM82D Unisound Mic EM83D	
FQ01B	Lampholder 702		BF71N	Nylon 2BA 1 in		YX02C	Knob K7B		10373	Unisound wile Liviosp	
FQ03D	Lampholder 254 CG		BF72P	Nylon 4BA ½ in		YX03D	Knob K7C		Page 12	20	
FQ04E	Lampholder 252 ½		BF73Q	Nylon 4BA 1 in		YX04E	Knob K70		WY06G	Super Cardioid Mic	£23.55
LB63T	Bayonet Lampholder		BF74R	Nylon 4BA 1½ in		HB28F	Knob R51	£0.52	WY07H	Stereo Electret Mic	
FQ05F	Ceiling Rose		BF75S	Nylon 6BA ½ in		HB29G	Knob R52		YB38R	Unisnd Mic DMI500D	
FQ06G	BC Adaptor		BF76H	Nylon 6BA 1 in		RX07H	Knob R76		LB94C	Screen S15	
FQ07H	Starter 80W		BF77J	Nylon 8BA ½ in		RX08J	Knob R77		LB95D	Mic Unit U15	
YB19V RW69A	Time Switch		BF78K BF79L	Nylon Nut 2BA Nylon Nut 4BA		HB30H HB31J	Knob R53 Knob R54		LB35Q YW72P	Mic Windshield Gooseneck Mic Stand 8 i	
YB20W	Room Thermostat		BF80B	Nylon Nut 6BA		YR64U	Knob K8A		LH88V	Gooseneck Mic Stand 12	
XY08J	Extn Lead 5A		BF81C	Nylon Nut 8BA		YR65V	Knob K8B		WF36P	Gooseneck Mic Stand 21	
XY09K	Extn Lead 13A		BF82D	Nylon Washer 2BA		YR66W	Knob K8C		YW73Q	Plastic Gooseneck Base	£0.65
			BF83E	Nylon Washer 4BA		HB34M	Knob K105L	£0.95	YW74R	Metal Gooseneck Base	£3.25
_	HARDWARE		BF84F	Nylon Washer 6BA		HB35Q	Knob K106L		WF37S	Bracket For Gooseneck S	Stand. £1.95
Page 10		20.00	BF85G	Nylon Washer 8BA		HB32K	Knob K105		D 40		
BF00A	Bolt 2BA ½ in		WH18U	Nylon C/S Screw M3 x 12 r		HB33L	Knob K106		Page 12 LB96E		C2 25
BF01B	Bolt 2BA 1 in Bolt 4BA ¼ in		WH19V	Nylon Nut M3		HB36P	Knob K15			Table-Top Mic Stand Cast Base Mic Stand	
								CO 75			
BF02C BF03D			BF15R	Spring Clip		HB37S	Knob K24		YW75S YW76H		
BF03D	Bolt 4BA 1/2 in	£0.28	YW94C	Batten Clip	£0.04	HB38R	Knob K30	£0.72	YW76H	Extra Height Mic Stand	£6.95
BF03D BF04E	Bolt 4BA ½ in Bolt 4BA 1 in	£0.28 £0.30	YW94C LB99H	Batten ClipBlack Woodscrew No 4 ½ i	£0.04 n£0.15	HB38R HB39N	Knob K30 Knob K44	£0.72 £0.69			£6.95 £13.45
BF03D	Bolt 4BA 1/2 in	£0.28 £0.30 £0.33	YW94C LB99H BH44X	Batten Clip	£0.04 n£0.15 £0.12	HB38R	Knob K30	£0.72 £0.69 £0.79	YW76H XB45Y	Extra Height Mic Stand 5-Foot Mic Stand	£6.95 £13.45
BF03D BF04E LR52G	Bolt 4BA ½ in	£0.28 £0.30 £0.33 £0.12 £0.14	YW94C LB99H	Batten ClipBlack Woodscrew No 4 ½ i	£0.04 n£0.15 £0.12 £0.35	HB38R HB39N HB40T	Knob K30 Knob K44 Knob K45	£0.72 £0.69 £0.79	YW76H XB45Y XB46A	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm	£6.95 £13.45
BF03D BF04E LR52G BF05F BF06G BF07H	Bolt 4BA ½ in	£0.28 £0.30 £0.33 £0.12 £0.14	YW94C LB99H BH44X YL23A FW10L FW11M	Batten Clip Black Woodscrew No 4 ½ i Plastic Fixing Hand Wheel Bolt Spade 2BA Spade 4BA	£0.04 n£0.15 £0.12 £0.35 £0.26 £0.23	HB38R HB39N HB40T HB41U Page 11	Knob K30 Knob K44 Knob K45 Knob K46	£0.72 £0.69 £0.79 £1.15	YW76H XB45Y XB46A Page 12	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL	£6.95 £13.45 £12.65
BF03D BF04E LR52G BF05F BF06G BF07H LR53H	Bolt 4BA ½ in	£0.28 £0.30 £0.33 £0.12 £0.14 £0.38 £0.63	YW94C LB99H BH44X YL23A FW10L FW11M FW13P	Batten Clip	£0.04 n£0.15 £0.12 £0.35 £0.26 £0.23	HB38R HB39N HB40T HB41U Page 11 RX16S	Knob K30 Knob K44 Knob K45 Knob K46	£0.72 £0.69 £0.79 £1.15	YW76H XB45Y XB46A Page 12 LB97F	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S	£6.95 £13.45 £12.65
BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF08J	Bolt 4BA ½ in Bolt 4BA 1 in Bolt 4BA 1½ in Bolt 6BA ½ in Bolt 6BA ½ in Bolt 6BA 1 in Bolt 6BA 1 in Bolt 6BA 1½ in Bolt 8BA ½ in	£0.28 £0.30 £0.33 £0.12 £0.14 £0.38 £0.63 £0.28	YW94C LB99H BH44X YL23A FW10L FW11M FW13P FW14Q	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing Hand Wheel Bolt Spade 2BA Spade 4BA Studding 2BA Studding 4BA	£0.04 n£0.15 £0.12 £0.35 £0.26 £0.23 £0.32	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T	Knob K30	£0.72 £0.69 £0.79 £1.15	YW76H XB45Y XB46A Page 12 LB97F YB39N	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5	£6.95 £13.45 £12.65 £2.45 £3.45 £8.43
BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF08J BF09K	Bolt 4BA ½ in Bolt 4BA 1 in Bolt 4BA 1½ in Bolt 6BA ¼ in Bolt 6BA ½ in Bolt 6BA 1 in. Bolt 6BA 1 in. Bolt 6BA 1½ in Bolt 8BA ¼ in Bolt 8BA ½ in Bolt 8BA ½ in	£0.28 £0.30 £0.33 £0.12 £0.14 £0.38 £0.63 £0.28 £0.24	YW94C LB99H BH44X YL23A FW10L FW11M FW13P FW14Q FW15R	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing Hand Wheel Bolt Spade 2BA Spade 4BA Studding 2BA Studding 4BA Studding 4BA	£0.04 n£0.15 £0.12 £0.35 £0.26 £0.23 £0.32 £0.30 £0.30	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y	Knob K30 Knob K44 Knob K45 Knob K46 5 Collet Knob Black Collet Knob Grey 15 mm Collet Cap Black	£0.72 £0.69 £1.15 £1.15	YW76H XB45Y XB46A Page 12 LB97F YB39N XB30H	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer	£6.95 £13.45 £12.65 £2.65 £3 45 £8 43 £8 65
BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF08J BF09K LR54J	Bolt 4BA ½ in Bolt 4BA 1 in. Bolt 4BA 1½ in Bolt 6BA ¼ in Bolt 6BA ½ in Bolt 6BA 1 in Bolt 6BA 1½ in Bolt 6BA 1½ in Bolt 8BA ½ in Bolt 8BA ½ in C/S Screw 2BA ½ in	£0.28 £0.30 £0.33 £0.12 £0.14 £0.38 £0.63 £0.28 £0.24 £0.14	YW94C LB99H BH44X YL23A FW10L FW11M FW13P FW14Q FW15R FW30H	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing. Hand Wheel Bolt. Spade 2BA. Spade 4BA. Studding 2BA. Studding 4BA. Studding 4BA. Studding 6BA. 4BA Spacer 1/8 in	£0.04 n£0.15 £0.12 £0.35 £0.26 £0.23 £0.32 £0.30 £0.30 £0.30	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL46A	Knob K30 Knob K44 Knob K45 Knob K46 Sollet Knob Black Collet Knob Grey 15 mm Collet Cap Black 15 mm Collet Cap Blue	£0.72 £0.69 £1.79 £1.15 £0.38 £0.43 £0.05	YW76H XB45Y XB46A Page 12 LB97F YB39N	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5	£6.95 £13.45 £12.65 £3 45 £8 43 £8 65 £22 88
BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF08J BF09K	Bolt 4BA ½ in Bolt 4BA 1 in Bolt 4BA 1½ in Bolt 6BA ¼ in Bolt 6BA ½ in Bolt 6BA 1 in. Bolt 6BA 1 in. Bolt 6BA 1½ in Bolt 8BA ¼ in Bolt 8BA ½ in Bolt 8BA ½ in	£0.28 £0.30 £0.33 £0.12 £0.14 £0.38 £0.63 £0.28 £0.24 £0.14	YW94C LB99H BH44X YL23A FW10L FW11M FW13P FW14Q FW15R FW30H FW31J	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing. Hand Wheel Bolt. Spade 2BA Spade 4BA. Studding 2BA. Studding 4BA. Studding 6BA. 4BA Spacer 1/8 in. 4BA Spacer ¼ in.	£0.04 n£0.15£0.12£0.35£0.26£0.32£0.32£0.30£0.30£0.35	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y	Knob K30 Knob K44 Knob K45 Knob K46 Collet Knob Black Collet Knob Grey 15 mm Collet Cap Black 15 mm Collet Cap Blue 15 mm Collet Cap Green	£0.72 £0.69 £0.79 £1.15 £0.38 £0.43 £0.05 £0.05	YW76H XB45Y XB46A Page 12 LB97F YB39N XB30H XB29G	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer	£6.95 £13.45 £12.65 £3.45 £8.43 £8.65 £22.88 £19.77
BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF08J BF09K LR54J LR55K	Bolt 4BA ½ in. Bolt 4BA 1 in. Bolt 4BA 1½ in. Bolt 6BA ¼ in. Bolt 6BA ½ in. Bolt 6BA 1½ in. Bolt 6BA 1½ in. Bolt 6BA 1½ in. C/S Screw 2BA ½ in. C/S Screw 4BA ½ in.	£0.28 £0.30 £0.33 £0.12 £0.14 £0.38 £0.63 £0.28 £0.24 £0.14 £0.14 £0.14 £0.17	YW94C LB99H BH44X YL23A FW10L FW11M FW13P FW14Q FW15R FW30H	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing. Hand Wheel Bolt. Spade 2BA. Spade 4BA. Studding 2BA. Studding 4BA. Studding 4BA. Studding 6BA. 4BA Spacer 1/8 in	£0.04 n£0.15£0.12£0.35£0.26£0.32£0.30£0.30£0.30£0.38	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL454 WL47B	Knob K30 Knob K44 Knob K45 Knob K46 IS Collet Knob Black Collet Knob Grey 15 mm Collet Cap Black 15 mm Collet Cap Blue	£0.72 £0.69 £1.15 £0.38 £0.43 £0.05 £0.05 £0.05 £0.05	YW76H XB45Y XB46A Page 12 LB97F YB39N XB30H XB29G LB66W YB30H	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer M.m Phaser Fuzz Box	£6.95 £13.45 £12.65 £3.45 £8.43 £8.65 £22.88 £19.77
BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF08J BF09K LR54J LR55K BF10L BF11M LR56L	Bolt 4BA ½ in. Bolt 4BA 1 in. Bolt 4BA 1½ in. Bolt 6BA ¼ in. Bolt 6BA ½ in. Bolt 6BA ½ in. Bolt 6BA 1½ in. Bolt 6BA 1½ in. Bolt 8BA ½ in. Bolt 8BA ½ in. C/S Screw 2BA ½ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ½ in. C/S Screw 4BA ½ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ¼ in.	£0.28 £0.30 £0.33 £0.12 £0.14 £0.38 £0.63 £0.28 £0.24 £0.14 £0.14 £0.17 £0.17 £0.17	YW94C LB99H BH44X YL23A FW10L FW11M FW13P FW14Q FW15R FW30H FW31J FW31J FW32K FW32K FW34M	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing. Hand Wheel Bolt. Spade 2BA. Spade 4BA. Studding 2BA. Studding 4BA. Studding 4BA. Studding 6BA. 4BA Spacer 1/8 in. 4BA Spacer ½ in. 4BA Spacer ½ in. 6BA Spacer ½ in. 6BA Spacer ½ in.	£0.04 n£0.15 £0.12 £0.35 £0.26 £0.23 £0.32 £0.30 £0.30 £0.30 £0.30 £0.35 £0.48 £0.48 £0.48 £0.48	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL46A WL47B WL48C WL48C WL49D WL50E	Knob K30 Knob K44 Knob K45 Knob K46 Sollet Knob Black Collet Knob Grey 15 mm Collet Cap Black 15 mm Collet Cap Grey 15 mm Collet Cap Grey 15 mm Collet Cap Red 15 mm Collet Cap Red 15 mm Collet Cap Yellow	£0.72 £0.69 £0.79 £1.15 £0.38 £0.43 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05	YW76H XB45Y XB46A Page 12 LB97F YB39N XB30H XB29G LB66W YB30H Page 12	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer M.m Phaser Fuzz Box	£6.95 £13.45 £12.65 £12.65 £8 43 £8 65 £22 88 £19 77 £15 25
BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF09K LR54J LR55K BF10L BF11M LR56L BF12N	Bolt 4BA ½ in. Bolt 4BA 1 in. Bolt 4BA 1½ in. Bolt 6BA ½ in. Bolt 6BA ½ in. Bolt 6BA ½ in. Bolt 6BA ½ in. Bolt 8BA ½ in. Bolt 8BA ½ in. C/S Screw 2BA ½ in. C/S Screw 4BA ½ in. C/S Screw 4BA ½ in. C/S Screw 4BA ½ in. C/S Screw 6BA ½ in. C/S Screw 6BA ½ in. C/S Screw 6BA ½ in.	.£0.28 .£0.30 .£0.33 .£0.12 .£0.14 .£0.38 .£0.63 .£0.28 .£0.24 .£0.14 .£0.14 .£0.17 .£0.17 .£0.19	YW94C LB99H BH44X YL23A FW10L FW13P FW14Q FW15R FW30H FW31J FW32K FW33L FW34M FW35Q	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing Hand Wheel Bolt Spade 2BA Studding 2BA Studding 2BA Studding 4BA Studding 6BA 4BA Spacer 1/8 in 4BA Spacer ½ in 4BA Spacer ½ in 6BA Spacer ½ in 6BA Spacer ½ in 6BA Spacer ½ in 6BA Spacer ½ in	£0.04 n£0.15 £0.12£0.35£0.26£0.32£0.30£0.30£0.30£0.35£0.48£0.48£0.48£0.48£0.48£0.49	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL46A WL47B WL48C WL49D WL49D WL50E WL51F	Knob K30 Knob K44 Knob K45 Knob K46 Collet Knob Black Collet Knob Grey 15 mm Collet Cap Black 15 mm Collet Cap Blue 15 mm Collet Cap Green 15 mm Collet Cap Red 15 mm Collet Cap Red 15 mm Collet Cap Pellow 15 mm Collet Cap Yellow	£0.72 .£0.69 .£0.79 .£1.15 .£0.38 £0.43 .£0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05	YW76H XB45Y XB46A Page 12 LB97F YB39N XB30H XB29G LB66W YB30H Page 12 XB41U	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer Stereo Mixer Fuzz Box 23 Fuzz-Waa Pedal	£6.95 £13.45 £12.65 £2.85 £3.45 £8.43 £8.65 £22.88 £19.77 £15.25
BF03D BF04E LR52G BF05F BF00G BF07H LR53H BF08J BF09K LR54J LR55K BF10L BF11M LR56L BF12N BF13P	Bolt 4BA ½ in Bolt 4BA 1 in Bolt 4BA 1 in Bolt 6BA ¼ in Bolt 6BA ½ in Bolt 6BA 1 in Bolt 6BA 1 in Bolt 6BA 1 in Bolt 8BA ½ in Bolt 8BA ½ in C/S Screw 4BA ¼ in C/S Screw 6BA ½ in	£0.28 £0.30 £0.33 £0.12 £0.14 £0.38 £0.28 £0.28 £0.14 £0.14 £0.17 £0.17 £0.17 £0.32 £0.9 £0.99 £0.19	YW94C LB99H BH44X YL23A FW10L FW11M FW13P FW14Q FW15R FW30H FW31J FW32K FW34M FW35Q LR69A	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing Hand Wheel Bolt Spade 2BA Spade 4BA Studding 2BA Studding 4BA Studding 4BA Studding 6BA 4BA Spacer 1/8 in 4BA Spacer ½ in 6BA Spacer ½ in	£0.04 n£0.15 £0.12 £0.35 £0.26 £0.23 £0.30 £0.30 £0.30 £0.30 £0.30 £0.30 £0.30 £0.35 £0.48 £0.48 £0.32 £0.32 £0.32 £0.32 £0.32	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL46X WL49D WL48C WL49D WL50E WL51F WL51F	Knob K30	£0.72 £0.69 £0.79 £1.15 £0.38 £0.43 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05	YW76H XB45Y XB46A Page 12 LB97F YB39N XB30H XB29G LB66W YB30H Page 12 XB41U XB34M	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer M.m Phaser Fuzz Box 23 Fuzz-Waa Pedal Vibra Chorus	£6.95 £13.45 £12.65 £12.65 £12.65 £13.45 £8.43 £8.65 £19.77 £15.25 £29.50 £57.30
BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF08J BF09K LR54J LR55K BF11DL BF11M LR56L BF12P LR00A	Bolt 4BA ½ in. Bolt 4BA 1 in. Bolt 4BA 1 in. Bolt 6BA ¼ in. Bolt 6BA ¼ in. Bolt 6BA 1 in. Bolt 6BA 1 in. Bolt 6BA 1½ in. Bolt 8BA ½ in. C/S Screw 2BA ½ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ¼ in. C/S Screw 6BA ½ in.	.£0.28 .£0.30 .£0.33 .£0.12 .£0.14 .£0.38 .£0.63 .£0.28 .£0.24 .£0.14 .£0.17 .£0.17 .£0.32 .£0.09 .£0.19 .£0.29	YW94C LB99H BH44X YL23A FW10L FW11M FW15R FW30H FW31J FW32K FW33L FW34M FW35Q LR69A LR70M	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing. Hand Wheel Bolt. Spade 2BA. Spade 4BA. Studding 2BA. Studding 4BA. Studding 6BA. 4BA Spacer 1/8 in. 4BA Spacer ½ in. 6BA Spacer 1/8 in. 6BA Spacer ½ in. 6BA Spacer ½ in. 6BA Spacer ½ in. 6BA Spacer ½ in. 8BA Spacer ½ in. 8BA Spacer ½ in.	£0.04 n£0.15 £0.12 £0.35 £0.26 £0.23 £0.32 £0.30 £0.30 £0.35 £0.48 £0.48 £0.48 £0.48 £0.48 £0.32 £0.35 £0.48 £0.32	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL46A WL47B WL48C WL49D WL50E WL51F WL52G WL53H	Knob K30 Knob K44 Knob K45 Knob K46 Sollet Knob Black Collet Knob Grey 15 mm Collet Cap Black 15 mm Collet Cap Gree 15 mm Collet Cap Grey 15 mm Collet Cap Red 15 mm Collet Cap Red 15 mm Collet Cap Red 15 mm Collet Pointer Black 15 mm Collet Pointer Blue	£0.72 £0.69 £1.15 £0.38 .£0.43 .£0.05 .£0.05 .£0.05 .£0.05 .£0.05 .£0.05 .£0.05 .£0.05 .£0.05 .£0.05	YW76H XB45Y XB46A Page 12 LB97F YB39N XB30H XB29G LB66W YB30H Page 12 XB41U XB34M YB88V	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer M.m Phaser Fuzz Box 23 Fuzz-Waa Pedal Wibra Chorus Mini Compressor	£6.95 £13.45 £12.65 £12.65 £2.45 £8.45 £8.65 £22.88 £19.77 £15.25 £25.50 £27.30
BF03D BF04E LR52G BF05F BF00G BF07H LR53H BF08J BF09K LR54J LR55K BF10L BF11M LR56L BF12N BF13P	Bolt 4BA ½ in. Bolt 4BA 1 in. Bolt 4BA 1 in. Bolt 6BA ¼ in. Bolt 6BA ¼ in. Bolt 6BA ½ in. Bolt 6BA ½ in. Bolt 8BA ½ in. Bolt 8BA ¼ in. C/S Screw 2BA ½ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ½ in. C/S Screw 4BA ½ in. C/S Screw 6BA ½ in.	.£0.28 .£0.30 .£0.33 .£0.12 .£0.14 .£0.38 .£0.28 .£0.28 .£0.24 .£0.14 .£0.14 .£0.17 .£0.32 .£0.09 .£0.19 .£0.09	YW94C LB99H BH44X YL23A FW10L FW113P FW13P FW31J FW32K FW33L FW34M FW35Q LR69A LR70M LR71N	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing. Hand Wheel Bolt. Spade 2BA Spade 4BA. Studding 2BA. Studding 2BA. Studding 4BA. Studding 4BA. Studding 6BA. 4BA Spacer 1/8 in. 4BA Spacer ½ in 6BA Spacer ½ in 6BA Spacer ½ in 6BA Spacer ½ in.	£0.04 n£0.15 £0.12£0.35 £0.26 £0.23 £0.30 £0.30 £0.30 £0.30 £0.35 £0.48 £0.48 £0.48 £0.48 £0.48 £0.48 £0.48 £0.30 £0.35 £0.48 £0.48 £0.48 £0.48 £0.48	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL46X WL49D WL48C WL49D WL50E WL51F WL51F	Knob K30	£0.72 £0.69 £0.79 £1.15 £0.38 £0.43 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05	YW76H XB45Y XB46A Page 12 LB97F YB39N XB30H XB29G LB66W YB30H Page 12 XB41U XB34M	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer Fuzz Box Fuzz Box Pruz-Waa Pedal Vibra Chorus Mini Compressor Echo Chamber Echo Chamber Tape	£6.95 £13.45 £12.65 £12.65 £12.65 £8.43 £8.65 £22.88 £19.77 £15.25 £29.50 £57.30 £67.33 £4.99
BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF08J BF09K LR54J LR55K BF10L BF11M LR56L BF11M LR56L BF12N BF13P LR00A	Bolt 4BA ½ in. Bolt 4BA 1 in. Bolt 4BA 1 in. Bolt 6BA ¼ in. Bolt 6BA ¼ in. Bolt 6BA 1½ in. Bolt 6BA 1½ in. Bolt 6BA 1 in. Bolt 6BA ½ in. C/S Screw 2BA ½ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ¼ in. C/S Screw 6BA ¼ in. C/S Screw 6BA ¼ in. C/S Screw 6BA ½ in. C/S Screw 6BA 1 in. C/S Screw 6BA ½ in. C/S Screw 6BA ½ in. Panel Screw. C/S Panel Screw. Nut 2BA.	.£0.28 .£0.30 .£0.30 .£0.33 .£0.12 .£0.14 .£0.38 .£0.63 .£0.28 .£0.24 .£0.14 .£0.17 .£0.17 .£0.32 .£0.09 .£0.19 .£0.03 .£0.29 .£0.03 .£0.05 .£0.05	YW94C LB99H BH44X YL23A FW10L FW11M FW15R FW30H FW31J FW32K FW33L FW34M FW35Q LR69A LR70M	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing. Hand Wheel Bolt. Spade 2BA. Spade 4BA. Studding 2BA. Studding 4BA. Studding 6BA. 4BA Spacer 1/8 in. 4BA Spacer ½ in. 6BA Spacer 1/8 in. 6BA Spacer ½ in. 6BA Spacer ½ in. 6BA Spacer ½ in. 6BA Spacer ½ in. 8BA Spacer ½ in. 8BA Spacer ½ in.	£0.04 n£0.15 £0.12£0.35 £0.26 £0.23 £0.30 £0.30 £0.30 £0.30 £0.35 £0.48 £0.48 £0.48 £0.48 £0.48 £0.48 £0.48 £0.30 £0.35 £0.48 £0.48 £0.48 £0.48 £0.48	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL46A WL47B WL49D WL50E WL50E WL50E WL52G WL53H WL53H	Knob K30 Knob K44 Knob K45 Knob K46 Collet Knob Black Collet Knob Grey 15 mm Collet Cap Black 15 mm Collet Cap Black 15 mm Collet Cap Green 15 mm Collet Cap Red 15 mm Collet Cap Red 15 mm Collet Cap Yellow 15 mm Collet Pointer Black. 15 mm Collet Pointer Black. 15 mm Collet Pointer Black.		YW76H XB45Y XB46A Page 12 LB97F YB39N XB30H XB29G LB66W YB30H Page 12 XB41U XB34M YB88V XB33L	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer M.m Phaser Fuzz Box 23 Fuzz-Waa Pedal Vibra Chorus Mini Compressor Echo Chamber	£6.95 £13.45 £12.65 £12.65 £12.65 £8.43 £8.65 £22.88 £19.77 £15.25 £29.50 £57.30 £67.33 £4.99
BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF08J BF08J BF08L LR55K BF10L BF11M BF12N BF12N BF12N BF13P LR00A BF14Q LR75S BF16S BF16S BF16S BF16S	Bolt 4BA ½ in. Bolt 4BA 1 in. Bolt 4BA 1 in. Bolt 6BA ¼ in. Bolt 6BA ¼ in. Bolt 6BA ½ in. Bolt 6BA ½ in. Bolt 6BA 1½ in. Bolt 8BA ½ in. Bolt 8BA ½ in. C/S Screw 2BA ½ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ¼ in. C/S Screw 6BA ½ in. Panel Screw. C/S Panel Screw. Nut 2BA. Nut 4BA.	.£0.28 .£0.30 .£0.33 .£0.12 .£0.14 .£0.38 .£0.63 .£0.28 .£0.14 .£0.14 .£0.14 .£0.14 .£0.17 .£0.32 .£0.09 .£0.19 .£0.35 .£0.29 .£0.03 .£0.05 .£0.19 .£0.19	YW94C LB99H BH44X YL23A FW10L FW113P FW13P FW31J FW32K FW33L FW32K FW35Q LR69A LR70M LR71N LR72P	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing. Hand Wheel Bolt. Spade 2BA. Spade 4BA. Studding 2BA. Studding 2BA. Studding 4BA. Studding 4BA. Studding 6BA. 4BA Spacer 1/8 in. 4BA Spacer 1/8 in. 4BA Spacer ½ in. 6BA Spacer ½ in. 7BBA Spacer ½ in. 8BA Spacer ¼ in. Threaded Spacer 4BA. Threaded Spacer 6BA.	£0.04 n£0.15 £0.12£0.35£0.26£0.30£0.30£0.30£0.30£0.30£0.30£0.35£0.48£0.48£0.48£0.48£0.32£0.35£0.48£0.32£0.35	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL46A WL47B WL49D WL50E WL51F WL50E WL51F WL52G WL53H WL53H WL54J WL55L RX18U	Knob K30 Knob K44 Knob K45 Knob K45 Knob K46 Collet Knob Black 15 mm Collet Cap Black 15 mm Collet Cap Blue 15 mm Collet Cap Grey 15 mm Collet Cap Grey 15 mm Collet Cap Red 15 mm Collet Cap Red 15 mm Collet Pointer Blue 15 mm Collet Pointer Blue 15 mm Collet Pointer Blue. 15 mm Collet Pointer Grey. 15 mm Collet Pointer Red 15 mm Collet Pointer Red 15 mm Collet Pointer Red 15 mm Collet Pointer Net.	£0.72£0.69£0.15£0.38£0.43£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05	YW76H XB45Y XB46A Page 12 LB97F YB39N XB30H XB29G LB66W YB30H Page 12 XB41U XB34M YB88V XB33L LB67X XY80B	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer M.m Phaser Fuzz Box 23 Fuzz-Waa Pedal Vibra Chorus Mini Compressor Echo Chamber Tape BBD Echo Machine	£6.95 £13.45 £12.65 £12.65 £12.65 £8.43 £8.65 £22.88 £19.77 £15.25 £29.50 £57.30 £67.33 £4.99
BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF08J BF09K LR54J LR55K BF10L BF11M LR56L BF12N BF13P LR00A BF13P LR00A BF14Q LR75S BF16S BF16S BF17T BF18U	Bolt 4BA ½ in. Bolt 4BA 1 in. Bolt 4BA 1 in. Bolt 6BA ½ in. Bolt 6BA ½ in. Bolt 6BA ½ in. Bolt 6BA ½ in. Bolt 6BA 1½ in. Bolt 8BA ½ in. Bolt 8BA ½ in. C/S Screw 4BA ½ in. C/S Screw 6BA ½ in. C/S Panel Screw. C/S Panel Screw. Nut 2BA. Nut 4BA. Nut 4BA.	.£0.28 .£0.30 .£0.33 .£0.12 .£0.14 .£0.38 .£0.28 .£0.28 .£0.28 .£0.24 .£0.14 .£0.17 .£0.32 .£0.19 .£0.09 .£0.19 .£0.05 .£0.05 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19	YW94C LB99H BH44X YL23A FW10L FW11M FW13P FW14Q FW15R FW30H FW31J FW32K FW33L FW34M FW35Q LR69A LR70M LR71N LR72P	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing. Hand Wheel Bolt. Spade 2BA Spade 4BA. Studding 2BA. Studding 4BA. Studding 6BA. 4BA Spacer 1/8 in. 4BA Spacer ½ in. 6BA Spacer ½ in. 6BA Spacer ½ in. 6BA Spacer ½ in. 8BA Spacer 6BA. Threaded Spacer 6BA.	£0.04 n£0.15 £0.12£0.35£0.26£0.32£0.30£0.30£0.35£0.48£0.48£0.48£0.48£0.32£0.35£0.49£0.28£0.28£0.28	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL46A WL49D WL50E WL51F WL52G WL53H WL55K WL55K WL55K WL56L RX18U RX19V	Knob K30 Knob K44 Knob K45 Knob K46 Collet Knob Black Collet Knob Grey 15 mm Collet Cap Black 15 mm Collet Cap Blue 15 mm Collet Cap Green 15 mm Collet Fointer Blue 15 mm Collet Pointer Grey 15 mm Collet Pointer Ked 15 mm Collet Nut Cover 15 mm Collet Nut Cover	£0.72 £0.69 £1.15 £0.38 £0.43 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05 £0.05	YW76H XB45Y XB46A Page 12 LB97F YB39N XB30H XB29G LB66W YB30H Page 12 XB41U XB34M YB88V XB38L LB67X XY80B	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer Stereo Mixer Tuzz Box 23 Fuzz-Waa Pedal Vibra Chorus. Mini Compressor Echo Chamber Tape BBD Echo Machine	£6.95 £13.45 £12.65 £13.45 £8.43 £8.65 £22.88 £19.77 £15.25 £29.50 £57.30 £21.20 £67.33 £4.99 £72.50
BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF08J BF09K LR54J LR55K BF10L BF11M LR56L BF12N BF13P LR00A BF149 LR00A BF149 BF18S BF18S BF18S BF18S BF18S BF18S BF18S BF18S	Bolt 4BA ½ in. Bolt 4BA 1 in. Bolt 4BA 1 in. Bolt 6BA ¼ in. Bolt 6BA ¼ in. Bolt 6BA ½ in. Bolt 6BA 1½ in. Bolt 6BA 1½ in. Bolt 8BA ½ in. C/S Screw 2BA ½ in. C/S Screw 4BA ½ in. C/S Screw 4BA ½ in. C/S Screw 4BA ½ in. C/S Screw 6BA ½ in. C/S Panel Screw. Nut 2BA. Nut 4BA. Nut 6BA. Nut 6BA.	.£0.28 .£0.30 .£0.33 .£0.12 .£0.14 .£0.38 .£0.63 .£0.28 .£0.14 .£0.14 .£0.14 .£0.17 .£0.32 .£0.09 .£0.19 .£0.35 .£0.29 .£0.03 .£0.09 .£0.19 .£0.10 .£0.11	YW94C LB99H BH44X YL23A FW10L FW11M FW13F FW30H FW30H FW30H FW30L FW34M FW35Q LR69A LR70M LR71M LR72P	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing. Hand Wheel Bolt. Spade 2BA. Spade 2BA. Studding 2BA. Studding 4BA. Studding 6BA. 4BA Spacer 1/8 in. 4BA Spacer ½ in 6BA Spacer 6BA Threaded Spacer 6BA.	£0.04 n£0.15 £0.12 £0.35 £0.26 £0.23 £0.32 £0.30 £0.30 £0.30 £0.30 £0.30 £0.35 £0.48 £0.48 £0.32 £0.35 £0.49 £0.28 £0.35 £0.49 £0.28 £0.36 £0.49 £0.28	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL46A WL49D WL50E WL59D WL50E WL53H WL54J WL55K WL54J WL55K WL56L RX18U RX19V RX20W	Knob K30		YW76H XB45Y XB46A Page 12 LB97F YB39N XB39H XB29G LB66W YB30H Page 12 XB41W XB34M YB88V XB33L LB67X XY80B Page 12 YB40T	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer M.m Phaser Fuzz Box 23 Fuzz-Waa Pedal Vibra Chorus Mini Compressor Echo Chamber Tape BBD Echo Machine BBD Echo Machine 24 Cry Guitar Pick-Up	£6.95 £13.45 £12.65 £13.45 £8.43 £8.65 £22.88 £19.77 £15.25 £25.50 £21.20 £67.33 £4.99 £72.50
BF03D BF04E LR526 BF05F BF06G BF07H LR53H BF08J BF08J BF08L LR55K BF10L BF11M LR56L BF12N BF12N BF13P LR00A BF14Q LR75S BF14Q BF18S BF18S BF18S BF18S BF18S BF18S BF18S BF18S	Bolt 4BA ½ in. Bolt 4BA 1 in. Bolt 4BA 1 in. Bolt 6BA ¼ in. Bolt 6BA ¼ in. Bolt 6BA ¼ in. Bolt 6BA 1½ in. Bolt 6BA 1½ in. Bolt 8BA ½ in. Bolt 8BA ½ in. C/S Screw 2BA ½ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ¼ in. C/S Screw 6BA ½ in. D/S Screw 6BA ½ in. C/S Screw 6BA ½ in. D/S Screw 6BA	.£0.28 .£0.30 .£0.33 .£0.12 .£0.14 .£0.38 .£0.28 .£0.24 .£0.14 .£0.14 .£0.14 .£0.17 .£0.32 .£0.09 .£0.19 .£0.29 .£0.03 .£0.29 .£0.03 .£0.05 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.29 .£0.03	YW94C LB99H BH44X YL23A FW10L FW11M FW13P FW14Q FW15R FW36L FW35L FW32K FW35Q LR69A LR70M LR71N LR72P Page 11 FW16S FW17T FW18S	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing. Hand Wheel Bolt. Spade 2BA. Spade 4BA. Studding 2BA. Studding 4BA. Studding 6BA. 4BA Spacer 1/8 in. 4BA Spacer 1/8 in. 6BA Spacer 1/8 in. 6BA Spacer 1/8 in. 6BA Spacer 1/8 in. 8BA Spacer 1/8 in. 8BA Spacer ½ in. 6BA Spacer 1/8 in. 8BA Spacer ½ in. 8BA Spacer ½ in. 1 Standoff Spacer 6BA. 1 Standoff Short. Standoff Medium. Standoff Medium.	£0.04 n£0.15 £0.12 £0.35 £0.26 £0.23 £0.30 £0.30 £0.30 £0.35 £0.48 £0.48 £0.48 £0.32 £0.35 £0.48 £0.59 £0.59	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL46A WL47B WL50E WL51F WL50E WL53H WL53H WL53H WL55L RX18U RX19V RX20W RX21X	Knob K30 Knob K44 Knob K45 Knob K45 Knob K46 Collet Knob Black 15 mm Collet Cap Black 15 mm Collet Cap Blue 15 mm Collet Cap Grey 15 mm Collet Cap Red 15 mm Collet Cap Red 15 mm Collet Cap Red 15 mm Collet Pointer Blue 15 mm Collet Pointer Blue. 15 mm Collet Pointer Blue. 15 mm Collet Pointer Green 15 mm Collet Pointer Grey. 15 mm Collet Pointer Grey. 15 mm Collet Pointer Red 15 mm Collet Pointer Red 15 mm Collet Pointer Selle. 15 mm Collet Pointer Selle. 15 mm Collet Selt 15 mm Collet Selt 15 mm Collet Skirt 15 mm Collet Skirt	£0.72£0.69£0.15£0.38£0.43£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05	YW76H XB45Y XB46A Page 12 LB97F YB39N XB30H XB29G LB66W YB30H Page 12 XB41U XB34M YB88V XB33L LB67X XY80B Page 12 YB40T YB41U	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer M.m Phaser Fuzz Box 23 Fuzz-Waa Pedal Vibra Chorus Mini Compressor Echo Chamber Tape BBD Echo Machine 24 Cry Guitar Pick-Up Nylon Mag Pick-Up	£6.95 £13.45 £12.65 £12.65 £12.65 £13.45 £8.65 £22.88 £19.77 £15.25 £21.20 £67.33 £4.99 £72.50 £3.93 £7.30
BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF08J BF08L LR54J LR55K BF10L BF11M LR56L BF12N BF13P LR00A BF14Q LR75S BF16S BF17T BF18U BF19V BF2V BF2V BF2V BF2V BF2V BF2V BF2V BF2	Bolt 4BA ½ in. Bolt 4BA 1 in. Bolt 4BA 1 in. Bolt 6BA ¼ in. Bolt 6BA ¼ in. Bolt 6BA ¼ in. Bolt 6BA 1½ in. Bolt 6BA 1½ in. Bolt 8BA ¼ in. C/S Screw 2BA ½ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ½ in. C/S Screw 4BA ½ in. C/S Screw 6BA ½ in. NUT 4BA. Nut 6BA. Nut 8BA. Nut 8BA. Washer 2BA.	.£0.28 .£0.30 .£0.33 .£0.12 .£0.14 .£0.38 .£0.28 .£0.28 .£0.24 .£0.14 .£0.14 .£0.17 .£0.32 .£0.19 .£0.09 .£0.19 .£0.05 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19	YW94C LB99H BH44X YL23A FW10L FW11M FW15F FW30H FW31J FW32K FW33L FW34M FW35Q LR69A LR70M LR71N LR72P Page 11 FW16S FW17T FW18U LR03D	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing. Hand Wheel Bolt. Spade 2BA Spade 2BA Studding 2BA. Studding 2BA. Studding 4BA. Studding 6BA. 4BA Spacer 1/8 in. 4BA Spacer ½ in. 6BA Spacer ½ in. 6BA Spacer ½ in. 6BA Spacer ½ in. 6BA Spacer 1/8 in. 8BA Spacer ½ in. 18BA Spacer ¼ in. 18BA Spacer	£0.04 n£0.15 £0.12£0.35 £0.26 £0.30 £0.30£0.30£0.30£0.35 £0.48 £0.48 £0.48 £0.48 £0.48 £0.35 £0.49 £0.35 £0.59	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL46A WL47B WL49D WL50E WL50E WL51F WL52G WL53H WL53H WL55B WL53H WL54J WL55K WL56L RX18U RX19V RX20W RX21X WL43W	Knob K30 Knob K44 Knob K45 Knob K45 Knob K46 Collet Knob Black Collet Knob Grey 15 mm Collet Cap Black 15 mm Collet Cap Black 15 mm Collet Cap Green 15 mm Collet Cap Grey 15 mm Collet Cap Red 15 mm Collet Cap Red 15 mm Collet Cap Red 15 mm Collet Pointer Bluek. 15 mm Collet Pointer Bluek. 15 mm Collet Pointer Green. 15 mm Collet Pointer Green. 15 mm Collet Pointer Grey. 15 mm Collet Pointer Ked 15 mm Collet Pointer Ked 15 mm Collet Nut Cover 15 mm Collet Nut Cover 15 mm Collet Skitr 15 mm Collet Skitr 15 mm Collet Skitr Collet Rd Nut 3/8 in	£0.72£0.69£0.79£1.15£0.38£0.43£0.05£0.19£0.19£0.19£0.19£0.17	YW76H XB45Y XB46A Page 12 LB97F YB39N XB39H XB29G LB66W YB30H Page 12 XB41W XB34M YB88V XB33L LB67X XY80B Page 12 YB40T	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer M.m Phaser Fuzz Box 23 Fuzz-Waa Pedal Vibra Chorus Mini Compressor Echo Chamber Tape BBD Echo Machine BBD Echo Machine 24 Cry Guitar Pick-Up	£6.95 £13.45 £12.65 £13.45 £8.43 £8.65 £22.88 £19.77 £15.25 £29.50 £57.30 £4.99 £72.50 £3.93 £7.30 £3.93 £7.30 £8.45
BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF08J BF08J BF08L LR55K BF10L BF11M LR56L BF12N BF12N BF13P LR00A BF14Q LR75S BF14Q BF18S BF18S BF18S BF18S BF18S BF18S BF18S	Bolt 4BA ½ in. Bolt 4BA 1 in. Bolt 4BA 1 in. Bolt 6BA ¼ in. Bolt 6BA ¼ in. Bolt 6BA ¼ in. Bolt 6BA 1½ in. Bolt 6BA 1½ in. Bolt 8BA ½ in. Bolt 8BA ½ in. C/S Screw 2BA ½ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ¼ in. C/S Screw 6BA ½ in. D/S Screw 6BA ½ in. C/S Screw 6BA ½ in. D/S Screw 6BA	.£0.28 .£0.30 .£0.33 .£0.12 .£0.14 .£0.38 .£0.28 .£0.28 .£0.28 .£0.24 .£0.14 .£0.17 .£0.37 .£0.19	YW94C LB99H BH44X YL23A FW10L FW11M FW13P FW14Q FW15R FW30H FW31J FW32K FW34M FW35Q LR69A LR70M LR71N LR72P Page 11 FW16S FW17T FW16S FW17T FW18S FW17T FW18S FW17T FW18S FW17T FW18S FW17T	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing Hand Wheel Bolt Spade 2BA Studding 2BA Studding 2BA Studding 4BA Studding 6BA 4BA Spacer 1/8 in 4BA Spacer ½ in 6BA Spacer ½ in 6BA Spacer ½ in 6BA Spacer ½ in 8BA Spacer ½ in Standoff Spacer 4BA Threaded Spacer 6BA 1 Standoff Short Standoff Medium Standoff Medium Standoff Medium Terry Clip ½ in Terry Clip ½ in Terry Clip ½ in	£0.04 n£0.15 £0.12£0.35£0.26£0.30£0.30£0.30£0.30£0.35£0.48£0.48£0.48£0.32£0.35£0.49£0.28£0.35£0.49£0.35£0.49£0.35£0.49£0.35£0.49£0.36£0.78£0.78£0.79	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL46A WL47B WL50E WL51F WL50E WL53H WL53H WL53H WL55L RX18U RX19V RX20W RX21X	Knob K30 Knob K44 Knob K45 Knob K45 Knob K46 Collet Knob Black 15 mm Collet Cap Black 15 mm Collet Cap Blue 15 mm Collet Cap Grey 15 mm Collet Cap Red 15 mm Collet Cap Red 15 mm Collet Cap Red 15 mm Collet Pointer Blue 15 mm Collet Pointer Blue. 15 mm Collet Pointer Blue. 15 mm Collet Pointer Green 15 mm Collet Pointer Grey. 15 mm Collet Pointer Grey. 15 mm Collet Pointer Red 15 mm Collet Pointer Red 15 mm Collet Pointer Selle. 15 mm Collet Pointer Selle. 15 mm Collet Selt 15 mm Collet Selt 15 mm Collet Skirt 15 mm Collet Skirt		YW76H XB45Y XB46A Page 12 LB97F YB39N XB30H XB29G LB66W YB30H Page 12 XB41U XB34M YB88V XB33L LB67X XY80B Page 12 YB40T YB41U YB42V YL08J YL08J YL08J	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer M.m Phaser Fuzz Box 23 Fuzz-Waa Pedal Vibra Chorus Mini Compressor Echo Chamber Tape BBD Echo Machine 24 Cry Guitar Pick-Up Nylon Mag Pick-Up Steel Mag Pick Up Pickup Transl.AJ21 Pickup Transl.AJ51	£6.95 £13.45 £12.65 £13.45 £8.43 £8.65 £22.88 £19.77 £15.25 £25.50 £21.20 £67.33 £4.99 £72.50 £3.93 £7.30 £7.30 £7.30 £7.25
BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF08J BF09K LR54J LR55K BF10L BF11M LR56L BF12N BF13P LR00A BF14Q LR75S BF16S BF17F BF18U BF19V BF20W BF21W BF21W BF22W BF22Y	Bolt 4BA ½ in. Bolt 4BA 1 in. Bolt 4BA 1 in. Bolt 6BA ½ in. Bolt 6BA 1½ in. Bolt 8BA ½ in. C/S Screw 4BA ½ in. C/S Screw 6BA ½ in. C/S Panel Screw. C/S Panel Screw. Nut 2BA. Nut 4BA. Nut 8BA. Nut 8BA. Washer 2BA. Washer 4BA. Washer 4BA.	.£0.28 .£0.30 .£0.30 .£0.33 .£0.12 .£0.14 .£0.38 .£0.63 .£0.28 .£0.24 .£0.14 .£0.17 .£0.17 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.19 .£0.09 .£0.19 .£0.09 .£0.19 .£0.09 .£0.09 .£0.09 .£0.09 .£0.09 .£0.09	YW94C LB99H BH44X YL23A FW10L FW11M FW15F FW30H FW31J FW32K FW33L FW34M FW35Q LR69A LR70M LR71N LR72P Page 11 FW16S FW17T FW18U LR03D	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing. Hand Wheel Bolt. Spade 2BA Spade 2BA Studding 2BA. Studding 2BA. Studding 4BA. Studding 6BA. 4BA Spacer 1/8 in. 4BA Spacer ½ in. 6BA Spacer ½ in. 6BA Spacer ½ in. 6BA Spacer ½ in. 6BA Spacer 1/8 in. 8BA Spacer ½ in. 18BA Spacer ¼ in. 18BA Spacer	£0.04 n£0.15 £0.12 £0.35 £0.26 £0.23 £0.30 £0.30 £0.30 £0.35 £0.48 £0.48 £0.48 £0.32 £0.35 £0.49 £0.59 £0.78 £0.05	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL46A WL49D WL50E WL51F WL52G WL53H WL54J WL55K WL56L RX18U RX19V RX20W RX21X WL43W WL43W	Knob K30 Knob K44 Knob K45 Knob K46 Collet Knob Black Collet Knob Grey 15 mm Collet Cap Black 15 mm Collet Cap Blue 15 mm Collet Cap Green 15 mm Collet Cap Green 15 mm Collet Cap Green 15 mm Collet Cap Red 15 mm Collet Cap Hollow 15 mm Collet Pointer Blue 15 mm Collet Pointer Blue. 15 mm Collet Pointer Grey 15 mm Collet Nut Cover 15 mm Collet Nut Cover 15 mm Collet Skirt 15 mm Collet Rd Nut 3/8 in Collet Rd Nut 10 mm		YW76H XB45Y XB46A Page 12 LB97F YB39N XB30H Page 12 XB41U XB34M YB88V XB33L LB67X XY80B Page 12 YB40T YB40T YB41U YB42V YL08J YL09K YL10J	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer M.m Phaser Fuzz Box 23 Fuzz-Waa Pedal Vibra Chorus Mini Compressor Echo Chamber Tape BBD Echo Machine 24 Cry Guitar Pick-Up Nylon Mag Pick-Up Steel Mag Pick Up Pickup Transl.AJ151 Pickup Transl.AJ151	£6.95 £13.45 £12.65 £13.45 £8.43 £8.65 £22.88 £19.77 £15.25 £29.50 £57.30 £21.20 £67.33 £4.99 £72.50 £3.93 £7.30 £21.20 £7.30 £7.25 £7.30
BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF08J BF09K LR54J LR55K BF10L BF11M LR56L BF12N BF13P LR00A BF14Q LR75S BF16S BF16S BF18U BF19V BF20W	Bolt 4BA ½ in. Bolt 4BA 1 in. Bolt 4BA 1 in. Bolt 6BA ½ in. Bolt 6BA ½ in. Bolt 6BA ½ in. Bolt 6BA ½ in. Bolt 6BA 1½ in. Bolt 6BA 1½ in. Bolt 8BA ½ in. C/S Screw 2BA ½ in. C/S Screw 4BA ½ in. C/S Screw 4BA ½ in. C/S Screw 4BA ½ in. C/S Screw 6BA	.£0.28 .£0.30 .£0.33 .£0.12 .£0.14 .£0.38 .£0.28 .£0.28 .£0.28 .£0.14 .£0.14 .£0.17 .£0.35 .£0.19	YW94C LB99H BH44X YL23A FW10L FW11M FW13P FW14Q FW15R FW30H FW31J FW32K FW33L FW34M FW35Q LR69A LR70M LR71N LR72P Page 11 FW16S FW17T FW16S FW17T FW183D LR73Q FW59P LR93D LR73Q LR03D LR73Q LR03D LR74B LR74B	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing. Hand Wheel Bolt. Spade 2BA Spade 2BA Studding 2BA. Studding 2BA. Studding 6BA. 4BA Spacer 1/8 in. 4BA Spacer ½ in. 6BA Spacer ½ in. 6BA Spacer ½ in. 6BA Spacer ½ in. 6BA Spacer ½ in. 8BA Spacer ½ in. Standoff Medium. Standoff Medium. Standoff Medium. Standoff Long. Terry Clip ½ in. Terry Clip ½ in. Terry Clip ½ in. Grommet Small. Grommet Large. SR Grommet 3P 4.	£0.04 n£0.15 £0.12£0.35£0.26£0.30£0.30£0.30£0.35£0.48£0.48£0.48£0.48£0.35£0.49£0.35£0.49£0.28£0.77£0.10£0.05£0.06£0.06	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45R WL46A WL47B WL49D WL50E WL51F WL52G WL53H WL55K WL54J WL55K WL54J WL55K WL54J WL54J WL54J WL54J WL54J WL54J RX18U RX19V RX20W RX21X WL43W WL43W WL44X RX22Y YG09K YG10L	Knob K30 Knob K44 Knob K45 Knob K45 Knob K46 Collet Knob Black Collet Knob Grey 15 mm Collet Cap Black 15 mm Collet Cap Blue 15 mm Collet Cap Green 15 mm Collet Cap Vellow 15 mm Collet Cap Vellow 15 mm Collet Pointer Blue 15 mm Collet Pointer Grey 15 mm Collet Nut Cover 15 mm Collet Nut Cover 15 mm Collet Skirt 15 mm Collet Skirt 15 mm Collet Skirt 15 mm Collet Rd Nut 3/8 in Collet Rd Nut 10 mm Slide Knob A Slide Knob B Slide Knob B	£0.72£0.69£0.15£0.38£0.43£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05£0.05	YW76H XB45Y XB46A Page 12 LB97F YB39N XB30H Page 12 XB41U XB34M YB88V XB33L LB67X XY80B Page 12 YB40T YB40T YB41U YB42V YL08J YL10L YL10L YL10L YL10L	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer Stereo Mixer M.m Phaser Fuzz Box 23 Fuzz-Waa Pedal Vibra Chorus. Mini Compressor Echo Chamber Tape BBD Echo Machine 24 Cry Guitar Pick-Up Nylon Mag Pick-Up Steel Mag Pick Up Pickup Transl.AJ21 Pickup Transl.AJ51 Pickup Transl.AJ51 Pickup Transl.AJ15 Pickup Switch	£6.95 £13.45 £12.65 £13.45 £8.43 £8.65 £22.88 £19.77 £15.25 £29.50 £57.30 £21.20 £67.33 £4.99 £72.50 £3.93 £7.30 £1.95 £1.95 £1.95 £1.95 £1.95 £1.95
BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF08J BF09K LR55K BF10L BF11M LR56L BF11M LR56L BF11N BF13P LR00A BF14Q LR75S BF14Q BF14Q BF14Q BF14Q BF14Q BF14C BF15C BF15C BF17T BF18U BF19V BF20W BF21X BF22Y BF23A LR76H BF24B BF25C	Bolt 4BA ½ in. Bolt 4BA 1 in. Bolt 4BA 1 in. Bolt 6BA ¼ in. Bolt 6BA ¼ in. Bolt 6BA ½ in. Bolt 6BA 1½ in. Bolt 6BA 1½ in. Bolt 8BA ½ in. C/S Screw 2BA ½ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ¼ in. C/S Screw 6BA ¼ in. C/S Screw 6BA ½ in. Nut 8BA. Nut 6BA. Nut 6BA. Nut 6BA. Washer 2BA. Washer 6BA Washer 6BA. Washer 6BA. Washer 8BA. Cup Washer. Shake 2BA. Shake 4BA.	.£0.28 .£0.30 .£0.30 .£0.33 .£0.12 .£0.14 .£0.38 .£0.63 .£0.28 .£0.24 .£0.14 .£0.17 .£0.17 .£0.32 .£0.09 .£0.19 .£0.19 .£0.19 .£0.10 .£0.19 .£0.10	YW94C LB99H BH44X YL23A FW10L FW11M FW13P FW14Q FW15H FW35H FW35H FW35L LR69A LR70M LR71N LR72P Page 11 FW18U LR03D LR30D FW15P FW15P FW160Q LR30D FW59P FW60Q LR478 FW60Q FW6	Batten Clip. Black Woodscrew No 4 1/2 i Black Woodscrew No 4 1/2 i Plastic Fixing. Hand Wheel Bolt. Spade 2BA. Spade 4BA. Studding 2BA. Studding 4BA. Studding 6BA. 4BA Spacer 1/8 in. 4BA Spacer 1/8 in. 4BA Spacer 1/8 in. 6BA Spacer 1/8 in. 6BA Spacer 1/8 in. 6BA Spacer 1/8 in. 6BA Spacer 1/8 in. 8BA Spacer 1/8 in. 8BA Spacer 1/8 in. 8BA Spacer 6BA. Threaded Spacer 6BA. 1 Standoff Short. Standoff Medium. Standoff Long. Terry Clip 1/2 in. Grommet Small. Grommet Small. Grommet Small. Grommet SR Grommet 3P 4. SR Grommet 3P 4.	£0.04 n£0.15 £0.12 £0.35 £0.26 £0.23 £0.32 £0.30 £0.30 £0.30 £0.35 £0.48 £0.48 £0.48 £0.48 £0.32 £0.35 £0.49 £0.26 £0.30 £0.30 £0.35 £0.49 £0.28 £0.30	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL46A WL47B WL50E WL51F WL52G WL53H WL53H WL55L RX18U RX19V RX20W RX21X WL43W WL44X RX22Y YG09K YG10L YG11M	Knob K30 Knob K44 Knob K45 Knob K45 Knob K46 Collet Knob Black 15 mc Collet Cap Black 15 mm Collet Cap Blue 15 mm Collet Cap Blue 15 mm Collet Cap Grey 15 mm Collet Cap Ked 15 mm Collet Cap Red 15 mm Collet Cap Red 15 mm Collet Pointer Blue 15 mm Collet Pointer Blue 15 mm Collet Pointer Blue. 15 mm Collet Pointer Blue. 15 mm Collet Pointer Grey. 15 mm Collet Pointer Grey. 15 mm Collet Pointer Grey. 15 mm Collet Indicator 15 mm Collet Indicator 15 mm Collet Nati Cover 15 mm Collet Skirt 15 mm Collet Skirt 15 mm Collet Rd Nut 3/8 in Collet Rd Nut 10 mm Slide Knob A Slide Knob C Black Slide Knob C Black	£0.72£0.69£0.15£0.38£0.43£0.05£0.19£0.16£0.16£0.16£0.15£0.19£0.20	YW76H XB45Y XB46A Page 12 LB97F YB39N XB39H XB29G LB66W YB30H Page 12 XB41U XB34M YB88V XB33L LB67X XY80B Page 12 YB40T YB41U YB42V YL08J YL09K YL10L YL07H LB78K	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer M.m Phaser Fuzz Box 23 Fuzz-Waa Pedal Wibra Chorus Mini Compressor Echo Chamber Tape BBD Echo Machine BBD Echo Machine 24 Cry Guitar Pick-Up Nylon Mag Pick-Up Steel Mag Pick Up Pickup Transl.AJ51 Pickup Transl.AJ51 Pickup Transl.AJ51 Pickup Transl.AJ51 Pickup Transl.AJ51 Pickup Switch Guitar Strings Nylon	£6.95 £13.45 £12.65 £13.45 £8.43 £8.43 £19.77 £15.25 £29.50 £27.30 £21.20 £67.33 £4.99 £72.50 £3.93 £7.30 £9.95 £9.95 £9.95 £9.50
BF03D BF04E LR526 BF05F BF06G BF07H LR53H BF08J BF08J BF08J LR55K BF10L BF11M LR56L BF12N BF12N BF13P LR00A BF14Q LR75S BF14S	Bolt 4BA ½ in. Bolt 4BA 1 in. Bolt 4BA 1 in. Bolt 6BA ¼ in. Bolt 6BA ¼ in. Bolt 6BA ¼ in. Bolt 6BA 1 in. Bolt 6BA 1 in. Bolt 6BA 1 in. Bolt 6BA 1½ in. CS Screw 2BA ½ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ½ in. C/S Screw 6BA ½ in. NUS Screw 6BA ½ in. NUS Screw 6BA ½ in. NUS Screw 6BA ½ in. Panel Screw. NUS Screw 6BA ½ in. Panel Screw. Nut 2BA. Nut 4BA. Nut 4BA. Nut 4BA. Nut 4BA. Nut 4BA. Nut 6BA. Nut 8BA. Washer 2BA. Washer 4BA. Washer 4BA. Cup Washer. Shake 2BA. Shake 4BA. Shake 6BA.	.£0.28 .£0.30 .£0.33 .£0.12 .£0.14 .£0.38 .£0.63 .£0.28 .£0.14 .£0.14 .£0.14 .£0.14 .£0.17 .£0.19 .£0.19 .£0.05 .£0.19 .£0.05 .£0.19 .£0.10 .£0.19 .£0.10 .£0.19 .£0.10 .£0.19 .£0.10 .£0.19 .£0.10	YW94C LB99H BH44X YL23A FW10L FW11M FW13P FW14Q FW15R FW32K FW32K FW33L FW34M FW35Q LR69A LR70M LR71N LR72P Page 11 FW16S FW17T FW18U LR03D LR73Q FW59P FW60Q LR47B LR47B LR47B LR49D	Batten Clip. Black Woodscrew No 4 ½ i Plastic Fixing. Hand Wheel Bolt. Spade 2BA Spade 2BA Studding 2BA. Studding 2BA. Studding 4BA. Studding 6BA. 4BA Spacer 1/8 in. 4BA Spacer 1/8 in. 6BA Spacer 6BA Spacer ½ in. Threaded Spacer 6BA. 1 Standoff Short. Standoff Medium. Standoff Medium. Standoff Long. Terry Clip 1½ in. Grommet Small. Grommet Large. SR Grommet 5M 4. SR Grommet 5M 3. SR Grommet 5M 4. SR Grommet 5M 4. SR Grommet 5M 4.	£0.04 n£0.15 £0.12 £0.35 £0.26 £0.23 £0.30 £0.30 £0.30 £0.35 £0.48 £0.48 £0.32 £0.30 £0.35 £0.48 £0.10 £0.35 £0.49 £0.35 £0.49 £0.05 £0.07 £0.10 £0.07	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL46A WL47B WL50E WL50E WL51F WL50E WL53H WL53H WL55L RX18U RX19V RX20W RX21X WL43W WL44X WL43W WL44X WL43W WL44X YG10L YG11M RX24B	Knob K30 Knob K44 Knob K45 Knob K45 Knob K46 Collet Knob Black Collet Knob Grey 15 mm Collet Cap Black 15 mm Collet Cap Blue 15 mm Collet Cap Blue 15 mm Collet Cap Red 15 mm Collet Pointer Blue 15 mm Collet Pointer Blue. 15 mm Collet Pointer Green 15 mm Collet Pointer Grey. 15 mm Collet Pointer Red 15 mm Collet Pointer Selice 15 mm Collet Rd Nut Cover 15 mm Collet Rd Nut 3/8 in Collet Rd Nut 3/8 in Collet Rd Nut 10 mm Slide Knob A Slide Knob C Black Slide Knob C Black Slide Knob F Black		YW76H XB45Y XB46A Page 12 LB97F YB39N XB30H XB29G LB66W YB30H Page 12 XB41U XB34W XB33L LB67X XY80B Page 12 YB41U YB42V YL08J YL08J YL09K YL10H	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer Stereo Mixer M.m Phaser Fuzz Box 23 Fuzz-Waa Pedal Vibra Chorus Mini Compressor Echo Chamber Tape BBD Echo Machine 24 Cry Guitar Pick-Up Nylon Mag Pick-Up Steel Mag Pick Up Pickup Transl.AJ21 Outlar Strings Nylon Guitar Strings Nylon Guitar Strings Nylon	£6.95 £13.45 £12.65 £13.45 £8.43 £8.65 £22.88 £19.77 £15.25 £27.30 £21.20 £67.33 £4.99 £72.50 £3.93 £7.30 £8.45 £27.95 £11.95 £11.95 £11.95
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BF03D BF04E LR52G BF05F BF06G BF07H LR53H BF08J BF09K LR55A LR55K BF10L BF11M LR56L BF11M LR56L BF11P LR00A BF14Q LR75S BF18P LR00A BF14Q LR75S BF18P BF18P BF2W BF20W BF20W BF21X BF22W BF23A LR76H BF24B BF24B BF24B BF24B BF24B BF26C BF26B BF26B BF27E	Bolt 4BA ½ in. Bolt 4BA 1 in. Bolt 4BA 1 in. Bolt 6BA ¼ in. Bolt 6BA ¼ in. Bolt 6BA ½ in. Bolt 6BA 1½ in. Bolt 6BA 1½ in. Bolt 6BA 1½ in. Bolt 8BA ½ in. C/S Screw 4BA ½ in. C/S Screw 4BA ½ in. C/S Screw 4BA ¼ in. C/S Screw 4BA ½ in. C/S Screw 6BA ½ in. NUT 8BA. Washer 4BA. Washer 4BA. Washer 4BA. Washer 4BA. Washer 4BA. Washer 4BA. Washer 6BA. Shake 6BA. Shake 6BA. Shake 6BA. Shake 6BA. Shake 6BA.	.£0.28 .£0.30 .£0.33 .£0.12 .£0.14 .£0.38 .£0.63 .£0.28 .£0.14 .£0.14 .£0.17 .£0.17 .£0.17 .£0.19 .£0.10	YW94C LB99H BH44X YL23A FW10L FW11M FW13P FW14Q FW15S FW30H FW31J FW32L FW34M FW35Q LR69A LR70M LR71N LR72P FW16S FW17T FW18U LR03D LR30G FW59P FW60Q LR40G FW48C LR48C LR49D LR46F	Batten Clip. Black Woodscrew No 4 1/2 i Black Woodscrew No 4 1/2 i Plastic Fixing. Hand Wheel Bolt. Spade 2BA. Studding 2BA. Studding 2BA. Studding 4BA. Studding 6BA. 4BA Spacer 1/8 in. 4BA Spacer 1/8 in. 4BA Spacer 1/8 in. 6BA Spacer 1/2 in. 6BA Spacer 1/2 in. 6BA Spacer 1/3 in. 8BA Spacer 1/3 in. 8BA Spacer 1/3 in. 8BA Spacer 1/3 in. 8BA Spacer 1/3 in. Standed Spacer 6BA. 1 Standoff Short. Standoff Medium. Standoff Long. Terry Clip 1/2 in. Terry Clip 1/2 in. Grommet Small. Grommet Small. Grommet Small. SR Grommet 3P 4. SR Grommet 5M-3. SR Grommet 5M-3. SR Grommet 5M-3. SR Grommet 7K 2. Sealing Grommet.	£0.04 n£0.15 £0.12 £0.35 £0.26 £0.23 £0.32 £0.30 £0.30 £0.30 £0.30 £0.35 £0.48 £0.48 £0.32 £0.35 £0.49 £0.28 £0.35 £0.49 £0.28 £0.30 £0.30 £0.30	HB38R HB39N HB40T HB41U Page 11 RX16S RX17T WL45Y WL46A WL47B WL50E WL51F WL52G WL53H WL55K WL55K WL56L RX18U RX19V RX20W RX21X WL43W WL44X RX22Y YG09K YG10L YG11M RX24B RX25C RX26D	Knob K30 Knob K44 Knob K45 Knob K45 Knob K46 Collet Knob Black 15 mc Collet Cap Black 15 mm Collet Cap Blue 15 mm Collet Cap Blue 15 mm Collet Cap Grey 15 mm Collet Cap Grey 15 mm Collet Cap Red 15 mm Collet Pointer Blue 15 mm Collet Pointer Blue 15 mm Collet Pointer Blue. 15 mm Collet Pointer Blue. 15 mm Collet Pointer Grey. 15 mm Collet Pointer Red. 15 mm Collet Pointer Red. 15 mm Collet Nitt Cover. 15 mm Collet Skirt. 16 mm Collet Skirt. 17 mm Collet Skirt. 18 mm Collet Skirt. 18 mm Collet Skirt. 19 mm Collet Skirt. 19 mm Collet Skirt. 10 mm Collet Skirt. 11 mm Collet Skirt. 12 mm Collet Skirt. 13 mm Collet Skirt. 14 mm Collet Skirt. 15 mm Collet Skirt. 15 mm Collet Skirt. 16 mm Collet Skirt. 17 mm Collet Skirt. 18 mm Collet Skirt. 18 mm Collet Skirt. 19 mm Collet Skirt.		YW76H XB45Y XB46A Page 12 LB97F YB39N XB30H XB29G LB66W YB30H Page 12 XB41U XB34W XB33L LB67X XY80B Page 12 YB41U YB42V YL08J YL08J YL09K YL10H	Extra Height Mic Stand 5-Foot Mic Stand Boom Arm MUSICAL 22 Pre-Amp EQ2S Pre-Amp CS5 Mono Mic Mixer Stereo Mixer Stereo Mixer M.m Phaser Fuzz Box 23 Fuzz-Waa Pedal Vibra Chorus Mini Compressor Echo Chamber Tape BBD Echo Machine 24 Cry Guitar Pick-Up Nylon Mag Pick-Up Steel Mag Pick Up Pickup Transl.AJ21 Outlar Strings Nylon Guitar Strings Nylon Guitar Strings Nylon	£6.95 £13.45 £12.65 £13.45 £8.43 £8.65 £22.88 £19.77 £15.25 £27.30 £21.20 £67.33 £4.99 £72.50 £3.93 £7.30 £8.45 £27.95 £11.95 £11.95 £11.95
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	Fluted Lampholder Red		BY68Y	DD Display Type C	£1.98	BR25C	S Tab Pedal Sustain£1.10	RX35Q	2 in Pan Meter 1 A	
	LES Cover Amber		_			BY08J	S Tab Piano£1.10	RX36P	2 in Pan Meter 50V	
YY01B	LES Cover Blue		Page 13			BY09K	S Tab Presets Cancel£1.10	RX37S	2 in Pan Meter 300V	
YY02C	LES Cover Green		XX08J	4-Dig Display Cmn Cath.		BY10L	S Tab Presets to Rotor£1.10	RX52G	2 in Pan Meter 'S'	
YY03D	LES Cover Purple	£0.06	BY70M	4 Dig Display Cmn Anod		BY11M	S Tab Reed 4£1.10	RX53H	2 in Pan Meter 'VU'	£6.65
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YY05F	LES Cover White		FR32K	Filter Amber	£0.85	BY12N	S Tab Rotor Fast£1.10	Page 14		
YY06G	LES Cover Yellow	£0.06	FR33L	Filter Green	£1.20	BY13P	S Tab Rotor To Mam£1.10	YG17T	Meter MS45 100µA	DISC
RX82D	Pan Neon Amber	£0.75	FR34M	Filter Red	£0.85	BR27E	S Tab Salicet 4£1.10	YG18U	Meter MS45 1 mA	DISC
RX83E	Pan Neon Red	£0.75	FR35Q	Filter Yellow	£0.65	BR28F	S Tab Saliconal 8£1.10	YG19V	Meter MS45 VU	£4.45
RX81C	Square Neon Red		FY89W	Liquid Crystal Display		BR29G	S Tab Saxophone 16'£1.10	RX54J	Large Panel Meter	
RX98G	Square Neon Green			. , , , ,		BR30H	S Tab Solo Del Trem£1.10	RX55K	Illuminating Kit	
RX70M	Wire Neon		Page 13	1		BR31J	S Tab String 4£1.10	RX92A	Meter MI 15V	
WQ13P	Wire Bulb 12V		WL35Q	Opto-isolator	£0.69	BR32K	S Tab String 8'£1.10	RX87U	Meter MI 60V	
WL74R	LES Bulb 6V		YY62S	Dual Opto-Isolator		BR33L		RX88V	Meter MI 300V	
			YY63T			i	S Tab Sub Bass 16'£1.10			
WL75S	LES Bulb 12V			Quad Opto-Isolator		BY14Q	S Tab Sustain Acc£1.10	RX89W	Meter MI 1A	
RX84F	Neon Bulb	£0.99	WQ70M	Darlington Isolator		BY15R	S Tab Sustain Solo£1.10	RX90X	Meter MI 5A	
_			YY64U	SCR Isolator		BR34M	S Tab Tremulant£1.10	RX91Y	Meter MI 15A	
Page 12			QQ10L	Triac Isolator	£1.55	BR35Q	S Tab Trumpet 8'£1.10	RX93B	Meter MI 25A	£7.95
WL76H	Bulb MES 3.5V					BR36P	S Tab Tuba 16'£1.10			
WL77J	Bulb MES 6V 0.24W	£0.36	Page 13	2		BY16S	S Tab Vibrato£1.10		PCB EQUIPMENT	
WL78K	Bulb MES 6V 6W	£0.31	YH70M	IR Emitter TIL38	£0.49	BR37S	S Tab Vox Angeleca 8'£1.10	Page 14	43	
WL79L	Bulb MES 6.5V	£0.25	YH71N	Photodiode TIL100	£0.89	BR38R	S Tab Vox Humana 8£1.10	FL01B	SRBP 0.1 in Type 2	DISC
WL80B	BUIb MES 12V 1.2W	£0.28	YY65V	Infra Red Source	£0.38	BY17T	Mar Key Tab Cello 16'£2.95	FL02C	SRBP 0.1 in Type 3	£0.99
WL81C	Bulb MES 12V 2.2W		YY66W	Infra-Red Sensor	£0.31	BY18U	Mar Key Tab Clar 8'£2.95	YR80B	SRBP 0.1 in Type 4	DISC
WL82D	Bulb MES 24V		BL23A	MS4A		BY19V	Mar Key Tab Clrion 4'£2.95	FL06G	Vero 14354	
LQ10L	Portable Lamp		QF30H	BPX25		BY20W	Mar Key Tab Clav£2.95	FL07H	Vero 10345	
XY71N	Caravan Lamp					BY21X	Mar Key Tab D/B to Rtr£2.95	FL08J	Vero 10346	
LQ11M	12V Tube		Page 13	3		BY22Y	Mar Key Tab Drb to Rt£2.95	FL09K	Vero 10347	
LL15R	240V Inspection Lamp		HQ61R	MEL 12	£0.38			FL10L	Vero 10348	
			YQ62S	Xenon Tube		BY23A	Mar Key Tab Delay Vbr Slo£2.95		Vero 21002	
XQ15R	Bulkhead					BY24B	Mar Key Tab Diap 8'£2.95	YR81C		
XR64U	Festoon Cable		YQ63T	Trigger Transformer		BY25C	Mar Key Tab Diap 16'£2.95	FL53H	Vero 10401	
YW45Y	Festoon Lampholder		XR56L	1 mm Light Guide		BY26D	Mar Key Tab Dbar Acc£2.95	FL17T	Verostrip	
HB52G	Pygmy Bulb Blue		XL11M	Laser Tube		BY27E	Mar Key Tab Dbar Solo£2.95	FL19V	DIP Board	
HB53H	Pygmy Bulb Green	£0.90	HY19V	5KV Laser PCB		BY28F	Mar Key Tab Dulc 8'£2.95	HQ48C	Vero V-Q Board	
HB54J	Pygmy Bulb Red	£0.90	HQ63T	Lens	£2.15	BY29G	Mar Key Tab Flute 1'£2.95	FL25C	Tool 2022	£1.29
HB55K	Pygmy Bulb White		HQ64U	Lens Holder	£0.69	BY30H	Mar Key Tab Flute 2'£2.95	FL26D	Tool 2150	£1.75
HB56L	Pygmy Bulb Yellow					BY31J	Mar Key Tab Flute 2.2/3'£2.95	FL27E	Tool 2151	£1.95
XY25C	Stay Put Lamp			ORGAN PARTS		BY32K	Mar Key Tab Flute 4'£2.95	FL20W	Pin 2140	
YB29G	Spot Holder		Page 13	4		BY33L	Mar Key Tab Flute 5.1/3'£2 95	FL21X	Pin 2141	
10200	opot Holdor	20.00	QL02C	SAM 77	£1.20	BY34M	Mar Key Tab Flute 8'£2.95	FL23A	Pin 2144	
Page 12	07					BY35Q		FL24B	Pin 2145	
XY00A		£12.05	Page 13	5		:	Mar Key Tab Flute 16'£2.95	12270	11112140	20.01
	3-Bank Lampholder		XB10L	DM02	£14 82	BY36P	Mar Key Tab French Horn 8'£2.95	D 4	4.4	
XB31J	BC Clip-On Holder Single		XB10L XB11M	DM02T		BY37S	Mar Key Tab Gedkt 8'£2.95	Page 14		00.05
XB32K	BC Clip-On Holder Twin		VDIIIN	DIVIOZ I	£10.02	BY38R	Mar Key Tab Gedkt 16'£2.95	FL80B	Pin 0266 Pack of 10	
WF25C	Spot Lamp Amber		D 40	•		BY39N	Mar Key Tab Honky Tonk£2.95	FL81C	Pin 1657 Pack of 10	
WF26D	Spot Lamp Blue	£2.85	Page 13		05.50	BY40T	Mar Key Tab Horn 8'£2.95	FL82D	Track Pin	
WF27E	Spot Lamp Clear	£2.35	XL08J	Short Spring Line				FL28F	4 Way Tag	
WF28F	Spot Lamp Green	£2.85	XB84F	Long Spring Line		Page 13	39	FL29G	Mounting Strip	£0.32
WF29G	Spot Lamp Red	£2.85	XB85G	MES Driver Module		BY41U	Mar Key Tab Mix 16'£2.95	FL11M	Tag Board	£0.94
WF30H	Spot Lamp Violet	£2.85	YL17T	Reverb PSU Module	£4.73	BY42V	Mar Key Tab Oboe 8'£2.95	YL11M	Vero Plug Block	£4.95
WF22Y	Gooseneck Lamp		XB17T	Mid Keyboard 49 Note C	-C£20.87	BY43W	Mar Key Tab Octave 4'£2.95	YR83E	Euro Breadboard	
WL32K	Mini LED Red		XB13P	KB Mounting Strip	£0.39	BY44X	Mar Key Tab Pedal Sustain£2.95	YR84F	Prof Plug Block	
WL33L	Mini LED Green			•		BY45Y	Mar Key Tab Piano£2.95		· · · · · · · · · · · · · · · · · · ·	
WL34M	Mini LED Orange		Page 13	7		BY46A	Mar Key Tab Plano£2.95	Page 14	15	
			XB14Q	Keyboard 48-Note	£23 94			YR85G	Bus-Strip Plug Block	£2.05
YY38R	Mini LED Yellow		XB15R	Keyboard 49 Note		BY47B	Mar Key Tab Prsts To Rr£2.95		Plug Block Contact Strip	
YY39N	Mini LED Clip		XB16S			BY48C	Mar Key Tab Reed 4'£2.95	YR86T		
WL27E	LED Red			Keyboard 61 Note		BY49D	Mar Key Tab Reverb£2.95	YR87U	Plug Block PCB	
WL28F	LED Green		XB94C	Contact Block 1WG		BY50E	Mar Key Tab Rtr Fst£2.95	XB43W	Seno Etch System	
WL29G	LED Orange	£0.33	X801B	Contact Block GJ	£0.37	BY51F	Man Kay Tab Din Ta Main CO OF	XY10L	UV Exposure Box	£41.32
140						; 61511	Mar Key Tab Rtr To Main£2.95			
WL30H	LED Yellow	£0.17	X802C	Contact Block GB2		BY52G	Mar Key Tab Rtf 10 Main£2.95	BW19V	Photo-Etch PCB	£2.95
WL30H YY40T	LED Yellow		XB03D	Contact Block GC3	£0.63				Photo-Etch PCB	
	LED Clip	£0.02	XB03D XB04E	Contact Block GC3 Earth Bar	£0.63 £0.23	BY52G BY53H	Mar Key Tab Salict 4'£2.95 Mar Key Tab Salic 8'£2.95	BW19V	Photo-Etch PCB	
YY40T QW96E	LED Clip Square LED Red	£0.02 £0.36	XB03D	Contact Block GC3	£0.63 £0.23	BY52G BY53H BY54J	Mar Key Tab Salict 4'£2.95 Mar Key Tab Salic 8'£2.95 Mar Key Tab Sax 16'£2.95	BW19V	Photo-Etch PCB Photo-Etch Drafting Pack	
YY40T QW96E YH60Q	LED Clip Square LED Red Square LED Green	£0.02 £0.36 £0.36	XB03D XB04E	Contact Block GC3 Earth Bar	£0.63 £0.23 £1.10	BY52G BY53H BY54J BY55K	Mar Key Tab Salict 4'£2.95 Mar Key Tab Salic 8'£2.95 Mar Key Tab Sax 16'£2.95 Mar Key Tab Strng 4'£2.95	BW19V BW20W Page 14	Photo-Etch PCB Photo-Etch Drafting Pack	£1.95
YY40T QW96E YH60Q YH61R	LED ClipSquare LED RedSquare LED GreenSquare LED GreenSquare LED Yellow	£0.02 £0.36 £0.36 £0.40	XB03D XB04E XB00A	Contact Block GC3 Earth Bar Gold Wire	£0.63 £0.23 £1.10	BY52G BY53H BY54J BY55K BY56L	Mar Key Tab Salict 4'£2.95 Mar Key Tab Salic 8'£2.95 Mar Key Tab Sax 16'£2.95 Mar Key Tab Strng 4'£2.95 Mar key Tab Strng 8'£2.95	BW19V BW20W Page 14 XX12N	Photo-Etch PCBPhoto-Etch Drafting Pack 46 Etch Crystals	£1.95
YY40T QW96E YH60Q YH61R YH62S	LED ClipSquare LED RedSquare LED GreenSquare LED YellowSquare LED ClipSquare LED Clip	£0.02 £0.36 £0.36 £0.40 £0.07	XB03D XB04E XB00A XB86T	Contact Block GC3 Earth BarGold Wire Space-sound Mid Range	£0.63 £0.23 £1.10	BY52G BY53H BY54J BY55K BY56L BY57M	Mar Key Tab Salict 4'	BW19V BW20W Page 14 XX12N WF10L	Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid	£1.95 £1.25 £2.25
YY40T QW96E YH60Q YH61R YH62S YY41U	LED ClipSquare LED RedSquare LED GreenSquare LED YellowSquare LED ClipLarge LED Red	£0.02 £0.36 £0.36 £0.40 £0.07 £1.49	XB03D XB04E XB00A XB86T Page 13	Contact Block GC3 Earth BarGold WireSpace-sound Mid Range	£0.63 £0.23 £1.10 £52.66	BY52G BY53H BY54J BY55K BY56L BY57M BY58N	Mar Key Tab Salict 4'	BW19V BW20W Page 14 XX12N WF10L HX02C	Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen	£1.95 £1.25 £2.25 £1.35
YY40T QW96E YH60Q YH61R YH62S	LED ClipSquare LED RedSquare LED GreenSquare LED YellowSquare LED ClipSquare LED Clip	£0.02 £0.36 £0.36 £0.40 £0.07 £1.49	XB03D XB04E XB00A XB86T Page 13 XB87U	Contact Block GC3 Earth BarGold WireSpace-sound Mid Range 8 Rotating Horns Unit	£0.63 £0.23 £1.10 £52.66	BY52G BY53H BY54J BY55K BY56L BY57M BY58N BY59P	Mar Key Tab Salict 4'	BW19V BW20W Page 14 XX12N WF10L HX02C HX03D	Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover	£1.95 £1.25 £2.25 £1.35 £0.88
YY40T QW96E YH60Q YH61R YH62S YY41U YY42V	LED Clip	£0.02 £0.36 £0.36 £0.40 £0.07 £1.49	XB03D XB04E XB00A XB86T Page 13 XB87U FL66W	Contact Block GC3 Earth Bar Gold Wire Space-sound Mid Range 8 Rotating Horns Unit Stop Tab Black	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75	BY52G BY53H BY54J BY55K BY56L BY57M BY58N BY59P BY60Q	Mar Key Tab Salict 4'	Page 14 XX12N WF10L HX02C HX03D HX00A	Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Small Single	£1.95 £1.25 £2.25 £1.35 £0.88 £0.48
YY40T QW96E YH60Q YH61R YH62S YY41U YY42V	LED Clip	£0.02 £0.36 £0.36 £0.40 £0.07 £1.49 £0.21	XB03D XB04E XB00A XB86T Page 13 XB87U FL66W FL67X	Contact Block GC3 Earth Bar Gold Wire Space-sound Mid Range 8 Rotating Horns Unit Stop Tab Black Stop Tab Blue	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.75	BY52G BY53H BY54J BY55K BY56L BY57M BY58N BY59P BY60Q BY61R	Mar Key Tab Salict 4'	Page 14 XX12N WF10L HX02C HX03D HX00A WF38R	Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Small Single PCB SRBP Med Single	£1.95 £1.25 £2.25 £1.35 £0.88 £0.48 £0.96
YY40T QW96E YH60Q YH61R YH62S YY41U YY42V Page 12 YY45Y	LED Clip	£0.02 £0.36 £0.36 £0.40 £0.07 £1.49 £0.21	XB03D XB04E XB00A XB86T Page 13 XB87U FL66W FL67X FL68Y	Contact Block GC3 Earth Bar Gold Wire Space-sound Mid Range 8 Rotating Horns Unit Stop Tab Black Stop Tab Blue Stop Tab Green	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.75 £0.75	BY52G BY53H BY54J BY55K BY56L BY57M BY58N BY59P BY60Q BY61R BY62S	Mar Key Tab Salict 4'	Page 14 XX12N WF10L HX02C HX03D HX00A WF38R WF39N	Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Small Single PCB SRBP Med Single PCB SRBP Large Single PCB SRBP Large Single	£1.95 £1.25 £2.25 £1.35 £0.88 £0.48 £0.96
YY40T QW96E YH60Q YH61R YH62S YY41U YY42V Page 12 YY45Y YY46A	LED Clip	£0.02 £0.36 £0.36 £0.40 £0.07 £1.49 £0.21	XB03D XB04E XB00A XB86T Page 13 XB87U FL66W FL67X FL68Y FL69A	Contact Block GC3 Earth Bar Gold Wire Space-sound Mid Range 8 Rotating Horns Unit Stop Tab Black Stop Tab Blue Stop Tab Green Stop Tab Grey	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.75 £0.75	BY52G BY53H BY54J BY55K BY56L BY57M BY58N BY58N BY59P BY60Q BY61R BY62S BY63T	Mar Key Tab Salict 4'	Page 14 XX12N WF10L HX02C HX03D HX00A WF38R WF38N HX01B	Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Small Single PCB SRBP Med Single PCB SRBP Large Single PCB SRBP Large Single PCB F Glass Small Single	£1.95£1.25£2.25£1.35£0.88£0.48£0.96£1.25£0.85
YY40T QW96E YH60Q YH61R YH62S YY41U YY42V Page 12 YY45Y YY46A YY47B	LED Clip	£0.02 £0.36 £0.36 £0.40 £0.07 £1.49 £0.21 £0.20 £0.25 £0.37	XB03D XB04E XB00A XB86T Page 13 XB87U FL66W FL67X FL68Y FL69A FL70M	Contact Block GC3 Earth Bar Gold Wire Space-sound Mid Range Rotating Horns Unit Stop Tab Black Stop Tab Blue Stop Tab Grey Stop Tab Grey Stop Tab Ivory	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.75 £0.75 £0.75 £0.75	BY52G BY53H BY54J BY55K BY56L BY57M BY58N BY59P BY60Q BY61R BY62S BY63T BY64U	Mar Key Tab Salict 4'	BW19V BW20W Page 14 XX12N WF10L HX02C HX03D HX00A WF38R WF38N HX01B WF40T	Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Small Single PCB SRBP Med Single PCB SRBP Large Single PCB FG Jass Small Single PCB F Glass Mad Single	£1.95£1.25£2.25£1.35£0.88£0.48£0.96£1.25£1.25£1.75
YY40T QW96E YH60Q YH61R YH62S YY41U YY42V Page 12 YY45Y YY46A YY47B YY46A YY47B	LED Clip	£0.02 .£0.36 £0.36 £0.40 £0.07 .£1.49 £0.21 £0.20 £0.25 £0.25 £0.27	XB03D XB04E XB00A XB86T Page 13 XB87U FL66W FL67X FL68Y FL69A FL70M FL71N	Contact Block GC3 Earth Bar Gold Wire Space-sound Mid Range 8 Rotating Horns Unit Stop Tab Black Stop Tab Blue Stop Tab Green Stop Tab Grey Stop Tab Ivory Stop Tab Naroon	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75	BY52G BY53H BY54J BY55K BY56L BY57M BY58N BY58N BY59P BY60Q BY61R BY62S BY62S BY64U FL76H	Mar Key Tab Salict 4'	BW19V BW20W Page 14 XX12N WF10L HX02C HX03D HX00A WF38R WF39N HX01B WF40T WF41U	Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Small Single PCB SRBP Med Single PCB SRBP Large Single PCB F Glass Med Single PCB F Glass Med Single PCB F Glass Med Single PCB F Glass Large Single	£1.95 £1.25 £2.25 £1.35 £0.88 £0.48 £0.96 £1.25 £0.85 £1.75
YY40T QW96E YH60Q YH61R YH62S YY41U YY42V Page 12 YY45Y YY46A YY47B YY48C YY49D	LED Clip Square LED Red Square LED Green Square LED Vellow Square LED Clip Large LED Red Large LED Red Shape LED R1 Red Shape LED R1 Green Shape LED R1 Orange Shape LED R1 Yellow Shape LED S R4 Red Shape LED S R4 Red Shape LED R5 R5 R6	£0.02 £0.36 £0.36 £0.40 £0.07 £1.49 £0.21 £0.20 £0.25 £0.37 £0.20 £0.27	XB03D XB04E XB00A XB86T Page 13 XB87U FL66W FL67X FL68Y FL69A FL70M FL71N FL72P	Contact Block GC3 Earth Bar Gold Wire Space-sound Mid Range 8 Rotating Horns Unit Stop Tab Black Stop Tab Blue Stop Tab Green. Stop Tab Grey Stop Tab Maroon Stop Tab Maroon Stop Tab Maroon	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75	BY52G BY53H BY54J BY55K BY56L BY57M BY58N BY58N BY69D BY61R BY62S BY63T BY64U FL76H BR46A	Mar Key Tab Salict 4'	BW19V BW20W Page 14 XX12N WF10L HX02C HX03D HX00A WF38R WF39N HX01B WF40T WF41U WF42V	Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Manll Single PCB SRBP Med Single PCB SRBP Large Single PCB F Glass Small Single PCB F Glass Med Single PCB F Glass Manl Single PCB F Glass Med Double	£1.95 £1.95 £1.25 £2.25 £1.35 £0.88 £0.96 £1.25 £0.85 £1.75 £2.75
YY40T QW96E YH60Q YH61R YH62S YY41U YY42V Page 12 YY45Y YY46A YY47B YY48C YY49D YY50E	LED Clip	£0.02 £0.36 £0.36 £0.40 £0.07 £1.49 £0.21 £0.20 £0.25 £0.27 £0.27 £0.27	XB03D XB04E XB00A XB86T Page 13 XB87U FL66W FL67X FL68Y FL69A FL70M FL71N FL72P FL73Q	Contact Block GC3 Earth Bar Gold Wire Space-sound Mid Range 8 Rotating Horns Unit Stop Tab Black Stop Tab Blue Stop Tab Breen Stop Tab Green Stop Tab Green. Stop Tab Green. Stop Tab Green. Stop Tab Hory Stop Tab Maroon Stop Tab Rorange	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75	BY52G BY53H BY55K BY55K BY56L BY57M BY58N BY59P BY60Q BY61R BY62S BY63T BY64U FL76H BR46A XX13P	Mar Key Tab Salict 4'	BW19V BW20W Page 14 XX12N WF10L HX02C HX03D HX00A WF38N WF38N HX01B WF40T WF41U WF42V XB90X	Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Small Single PCB SRBP Large Single PCB SRBP Large Single PCB F Glass Small Single PCB F Glass Small Single PCB F Glass Large Single PCB F Glass Med Double	£1.95 £1.25 £2.25 £1.35 £0.88 £0.48 £0.96 £1.25 £0.85 £1.75 £1.75 £1.39
YY40T QW96E YH60Q YH61R YH62S YY41U YY42V Page 12 YY45Y YY46A YY47B YY48C YY49D YY50E YY51F	LED Clip	£0.02 £0.36 £0.36 £0.40 £0.07 £1.49 £0.21 £0.20 £0.25 £0.37 £0.27 £0.20 £0.20 £0.20	XB03D XB04E XB00A XB86T Page 13 XB87U FL66W FL67X FL68Y FL69A FL70M FL71N FL72P FL73Q FL74R	Contact Block GC3 Earth Bar Gold Wire Space-sound Mid Range Rotating Horns Unit Stop Tab Black Stop Tab Blue Stop Tab Blue Stop Tab Green Stop Tab Grey Stop Tab Grey Stop Tab Grey Stop Tab Maroon Stop Tab Bred Stop Tab Maroon Stop Tab Maroon Stop Tab Maroon Stop Tab Maroon Stop Tab Red Stop Tab Red Stop Tab White	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75	BY52G BY53H BY53H BY55K BY56L BY57M BY58P BY60Q BY61R BY62S BY63T BY64U FL76H BR46A XX13P BR41U	Mar Key Tab Salict 4'	BW19V BW20W Page 14 XX12N WF10L HX02C HX03D HX00A WF38R WF39N HX01B WF40T WF41U WF42V XB90X BW21X	Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Small Single PCB SRBP Med Single PCB SRBP Large Single PCB F Glass Small Single PCB F Glass Med Single PCB F Glass Med Double Fixicircuit Track Tape 31	£1.95 £1.25£2.25£1.35£0.88£0.48£0.48£0.48£1.25£1.25£1.25£2.35£2.35£2.35£2.35£2.35£2.35
YY40T QW96E YH601R YH61R YH62S YY41U YY42V Page 12 YY45Y YY46A YY47B YY48C YY49D YY501F YY51F YY52G	LED Clip Square LED Red Square LED Green Square LED Vellow Square LED Clip Large LED Red Large LED Red Shape LED R1 Green Shape LED R1 Green Shape LED R1 Green Shape LED R2 Red Shape LED S2 Green Shape LED S2 Green Shape LED L3 Red Shape LED L3 Red Shape LED L3 Green	£0.02£0.36£0.36£0.40£0.40£0.07£1.49£0.21£0.20£0.25£0.37£0.20£0.25£0.27£0.20£0.26	XB03D XB04E XB00A XB86T Page 13 XB87U FL66W FL67X FL68Y FL69M FL71N FL72P FL73P FL73P FL74R FL75S	Contact Block GC3 Earth Bar Gold Wire Space-sound Mid Range 8 Rotating Horns Unit Stop Tab Black Stop Tab Blue Stop Tab Green. Stop Tab Grey Stop Tab Maroon. Stop Tab Maroon. Stop Tab Carge Stop Tab Red. Stop Tab Red. Stop Tab White Stop Tab White	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75	BY52G BY53H BY54J BY55K BY56L BY578N BY59P BY60Q BY61R BY62S BY63T BY64S BY64T BR46A XX13P BR41U 8R42V	Mar Key Tab Salict 4'	BW19V BW20W Page 14 XX12N WF10L HX02C HX03D HX00A WF38R WF39N HX01B WF40T WF41U WF42V XB90X BW21Y BW22Y	Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Small Single PCB SRBP Med Single PCB SRBP Med Single PCB FGlass Small Single PCB F Glass Med Single PCB F Glass Med Single PCB F Glass Med Double Fixicircuit Track Tape 31 Track Tape 31 Track Tape 40	£1.95£1.25£2.25£1.35£0.48£0.96£1.25£0.85£0.85£1.75£2.75£1.39£8.75£0.91
YY40T QW96E YH60R YH61R YH62S YY41U YY42V YY45Y YY46A YY47B YY48C YY49D YY50E YY51F YY526 YY53H	LED Clip Square LED Red Square LED Green Square LED Clip Large LED Red Shape LED R1 Red Shape LED R1 Green Shape LED R1 Orange Shape LED R1 Yellow Shape LED S2 Red Shape LED S2 Red Shape LED S3 Red Shape LED S3 Green Shape LED L3 Red Shape LED L3 Red Shape LED L3 Red Shape LED L3 Green	£0.02£0.36£0.36£0.36£0.40£0.07£1.49£0.21£0.20£0.25£0.37£0.27£0.27£0.26£0.26	XB03D XB04E XB004E XB00A XB86T Page 13 XB87U FL66W FL67X FL69A FL70M FL71M FL72P FL73Q FL73Q FL74R FL75S BR05F	Contact Block GC3 Earth Bar Gold Wire Space-sound Mid Range 8 Rotating Horns Unit Stop Tab Black Stop Tab Blue Stop Tab Green Stop Tab Green Stop Tab Green Stop Tab Horoy Stop Tab Maroon Stop Tab Wardon Stop Tab Carnge Stop Tab Welle Stop Tab Yellow S Tab Acc Del Tremolo	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75	BY52G BY53H BY53H BY55K BY56L BY57M BY58N BY59P BY60Q BY61S BY62S BY63T BY64U FL76H BR46A XX13P BR41U 8R42V XB18U	Mar Key Tab Salict 4'	BW19V BW20W Page 14 XX12N WF10L HX02C HX03D HX00A WF38R WF38N HX01B WF40T WF41U WF42V XB90X BW21X BW21X BW22Y BW23A	Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Med Single PCB SRBP Med Single PCB SRBP Large Single PCB F Glass Small Single PCB F Glass Med Double Fixicircuit Track Tape 31 Track Tape 40 Track Tape 50	£1.95£1.25£2.25£1.35£0.48£0.48£0.48£0.95£1.25£0.85£1.75£2.75£2.75£2.75£2.75£2.75£2.91£0.91£0.91
YY40T QW96E YH601R YH61R YH62S YY41U YY42V Page 12 YY45Y YY46A YY47B YY48C YY49D YY501F YY51F YY52G	LED Clip Square LED Red Square LED Green Square LED Vellow Square LED Clip Large LED Red Large LED Red Shape LED R1 Green Shape LED R1 Green Shape LED R1 Green Shape LED R2 Red Shape LED S2 Green Shape LED S2 Green Shape LED L3 Red Shape LED L3 Red Shape LED L3 Green	£0.02£0.36£0.36£0.36£0.40£0.07£1.49£0.21£0.20£0.25£0.37£0.27£0.27£0.26£0.26	XB03D XB04E XB004E XB04E XB87U FL66W FL67X FL68Y FL69A FL71N FL71N FL72P FL73Q FL74R FL75S BR05F 8R47B	Contact Block GC3 Earth Bar Gold Wire Space-sound Mid Range 8 Rotating Horns Unit Stop Tab Black Stop Tab Blue Stop Tab Blue Stop Tab Green Stop Tab Grey Stop Tab Ivory Stop Tab Wory Stop Tab Orange Stop Tab Red Stop Tab White Stop Tab White Stop Tab Vellow S Tab Acc Del Tremolo S Tab Bass Guitar	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75	BY52G BY53H BY54J BY55K BY56L BY578N BY59P BY60Q BY61R BY62S BY63T BY64S BY64T BR46A XX13P BR41U 8R42V	Mar Key Tab Salict 4'	BW19V BW20W Page 14 XX12N WF10L HX02C HX03D HX00A WF38R WF39N HX01B WF40T WF41U WF42V XB90X BW21X BW21X BW224 BW23A BW24B	Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Small Single PCB SRBP Med Single PCB SRBP Large Single. PCB F Glass Med Single Track Tape 31 Track Tape 40 Track Tape 50 Track Tape 50 Track Tape 52	£1.95£1.25£2.25£1.35£0.48£0.48£0.96£1.25£1.75£2.75£1.75£2.75£1.35£1.75£2.75£1.30£1.31
YY40T QW96E YH60R YH61R YH62S YY41U YY42V YY45Y YY46A YY47B YY48C YY49D YY50E YY51F YY526 YY53H	LED Clip Square LED Red Square LED Green Square LED Clip Large LED Red Shape LED R1 Red Shape LED R1 Green Shape LED R1 Orange Shape LED R1 Yellow Shape LED S2 Red Shape LED S2 Red Shape LED S3 Red Shape LED S3 Green Shape LED L3 Red Shape LED L3 Red Shape LED L3 Red Shape LED L3 Green	£0.02£0.36£0.36£0.36£0.40£0.07£1.49£0.21£0.20£0.25£0.37£0.27£0.27£0.27£0.20£0.27£0.20£0.27£0.21£0.26£0.26£0.26£0.26	XB03D XB04E XB00A XB86T Page 13 XB87U FL66W FL67X FL68Y FL69A FL71N FL72P FL73Q FL74R FL75S BR05F BR47B BR47B BR67X	Contact Block GC3 Earth Bar	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75	BY52G BY53H BY53H BY55K BY56L BY57M BY58N BY59P BY60Q BY61S BY62S BY63T BY64U FL76H BR46A XX13P BR41U 8R42V XB18U	Mar Key Tab Salict 4'	BW19V BW20W Page 14 XX12N WF10L HX02C HX03D HX00A WF38R WF39N HX01B WF40T WF41U WF42V XB90X BW21X BW21X BW22Y BW23A BW24B BW25C	Photo-Etch PCB Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover Resist Remover PCB SRBP Small Single PCB SRBP Med Single PCB F Glass Med Single PCB F Glass Med Single PCB F Glass Med Double Fixicircuit Track Tape 31 Track Tape 40 Track Tape 50 Track Tape 52 Track Tape 62	£1.95£1.25£2.25£1.25£1.35£0.88£0.48£0.96£1.25£0.85£1.25£1.39£1.39£8.75£0.91£0.91£0.91£1.32
YY40T QW96E YH61R YH61R YH62S YY41U YY42V YY45Y YY46A YY47B YY48C YY49D YY50E YY51F YY52S YY53H YY54J	LED Clip Square LED Red Square LED Green Square LED Vellow Square LED Clip Large LED Red Shape LED R1 Red Shape LED R1 Green Shape LED R1 Orange Shape LED R1 Yellow Shape LED S2 Green Shape LED S3 Green Shape LED L3 Red Shape LED L3 Red Shape LED L3 Green Shape LED L4 Red Shape LED L3 Yellow Shape LED L4 Green	£0.02£0.36£0.36£0.36£0.40£0.07£1.49£0.21£0.25£0.25£0.27£0.27£0.27£0.26£0.26£0.26£0.26£0.26	XB03D XB04E XB00A XB86T Page 13 XB87U FL66W FL67X FL69A FL71M FL71M FL71M FL72P FL73Q FL73Q FL74S BR05F 8R47B BR67X BR06G	Contact Block GC3 Earth Bar	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.7	BY52G BY53H BY53H BY55K BY56L BY57M BY58N BY59P BY60Q BY61S BY62S BY63T BY64U FL76H BR46A XX13P BR41U 8R42V XB18U	Mar Key Tab Salict 4' £2.95 Mar Key Tab Salic 8' £2.95 Mar Key Tab Sax 16' £2.95 Mar Key Tab Strng 4' £2.95 Mar Key Tab Strng 8' £2.95 Mar Key Tab Sus Acc. £2.95 Mar Key Tab Sus Solo £2.95 Mar Key Tab Sus Solo £2.95 Mar Key Tab Sus Solo £2.95 Mar Key Tab Tuba 16' £2.95 Mar Key Tab Vuba 16' £2.95 Mar Key Tab Vox Ang 8' £2.95 Mar Key Tab Vox Hum 8 £2.95 Key Tab £0.90 ST Strip £1.35 Draw Bar Red £1.35 Draw Bar White £1.35 Contact Pedal Board £63.00	BW19V BW20W Page 14 XX12N WF10L HX02C HX03D HX00A WF38R WF39N HX01B WF40T WF41U WF42V XB90X BW21X BW21X BW22Y BW23A BW24B BW26D BW26D	Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Med Single PCB SRBP Med Single PCB SRBP Large Single PCB F Glass Med Single PCB F Glass Med Double Fixicircuit Track Tape 31 Track Tape 40 Track Tape 50 Track Tape 62 Track Tape 62 Track Tape 80 Track Tape 100	£1.95£1.25£2.25£1.35£0.48£0.48£0.48£0.96£1.25£0.85£1.75£1.75£1.39£8.75£0.91
YY40T QW96E YH60Q YH61R YH62S YY41U YY42V Page 12 YY45V YY46A YY49D YY50E YY51F YY51F YY52G YY53H YY55K	LED Clip Square LED Red Square LED Green Square LED Clip Large LED Red Large LED Red Shape LED R1 Red Shape LED R1 Green Shape LED R1 Orange Shape LED R1 Yellow. Shape LED R1 Green Shape LED R1 S2 Green Shape LED R1 Green Shape LED R1 S4 Red Shape LED L3 Red Shape LED L3 Red Shape LED L3 Green Shape LED L3 Hollow Shape LED L4 Green Shape LED T4 Red Shape LED T4 Red Shape LED T4 Red	£0.02£0.36£0.36£0.36£0.40£0.07£1.49£0.21£0.25£0.25£0.27£0.27£0.27£0.26£0.26£0.26£0.26£0.26	XB03D XB04E XB004E XB00A XB86T Page 13 XB87U FL66W FL67X FL69A FL70M FL71M FL71P FL73Q FL74R FL74R FL75S BR05F 8R47B BR67X BR06G BR07H	Contact Block GC3 Earth Bar	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.10 £0.1	BY52G BY53H BY54J BY55K BY56L BY57M BY58N BY59P BY602 BY61R BY62S BY63T BY64U FL76H BR46A XX113P BR41U 8R42V XB18U XB19V	Mar Key Tab Salict 4' £2.95 Mar Key Tab Salic 8' £2.95 Mar Key Tab Sax 16' £2.95 Mar Key Tab Strng 4' £2.95 Mar Key Tab Strng 8' £2.95 Mar Key Tab Sus Acc. £2.95 Mar Key Tab Sus Solo £2.95 Mar Key Tab Sus Solo £2.95 Mar Key Tab Sus Solo £2.95 Mar Key Tab Tuba 16' £2.95 Mar Key Tab Vuba 16' £2.95 Mar Key Tab Vox Ang 8' £2.95 Mar Key Tab Vox Hum 8 £2.95 Key Tab £0.90 ST Strip £1.35 Draw Bar Red £1.35 Draw Bar White £1.35 Contact Pedal Board £63.00	BW19V BW20W Page 14 XX12N WF10L HX02C HX03D HX00A WF38R WF39N HX01B WF40T WF41U WF42V XB90X BW21X BW21X BW22Y BW23A BW24B BW25C	Photo-Etch PCB Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover Resist Remover PCB SRBP Small Single PCB SRBP Med Single PCB F Glass Med Single PCB F Glass Med Single PCB F Glass Med Double Fixicircuit Track Tape 31 Track Tape 40 Track Tape 50 Track Tape 52 Track Tape 62	£1.95£1.25£2.25£1.35£0.48£0.48£0.48£0.96£1.25£0.85£1.75£1.75£1.39£8.75£0.91
YY40T QW96E YH60Q YH61R YH62S YY41U YY42V YY45Y YY46A YY47B YY48C YY49D YY50E YY51F YY50E YY51F YY54J YY554J YY554J YY556L YY57M	LED Clip Square LED Red Square LED Green Square LED Clip Large LED Red Shape LED R1 Red Shape LED R1 Green Shape LED R1 Orange Shape LED R2 Red Shape LED R3 Feen Shape LED S2 Red Shape LED S3 Green Shape LED S3 Green Shape LED L3 Red Shape LED L3 Red Shape LED L3 Red Shape LED L3 Green Shape LED L3 Green Shape LED L3 Green Shape LED L3 Green Shape LED L4 Green Shape LED L5 Green Shape LED L5 Yellow Shape LED T4 Red Shape LED T4 Red Shape LED T4 Yellow Shape LED T4 Yellow Shape LED T4 Yellow Shape LED T5 Red	£0.02£0.36£0.36£0.36£0.40£0.07£1.49£0.21£0.20£0.25£0.37£0.27£0.27£0.21£0.20£0.25£0.27£0.27£0.21£0.26	XB03D XB04E XB00A XB86T Page 13 XB87U FL66W FL67X FL69A FL71M FL71M FL71M FL72P FL73Q FL73Q FL74S BR05F 8R47B BR67X BR06G	Contact Block GC3 Earth Bar	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.10 £0.1	BY52G BY53H BY53H BY55K BY56L BY57M BY58N BY59P BY60Q BY61B BY62S BY63T BY64U FL76H BR46A XX13P BR41U 8R42V XB18U XB19V	Mar Key Tab Salict 4'	BW19V BW20W Page 14 XX12N WF10L HX02C HX03D HX00A WF38N WF38N HX01B WF40T WF41U WF42V XB90X BW21X BW21X BW21X BW22Y BW23A BW24B BW25C BW26D BW26D BW27E	Photo-Etch PCB Photo-Etch Drafting Pack 16 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Small Single PCB SRBP Med Single PCB SRBP Large Single. PCB F Glass Med Single PCB F Glass Med Double Fixicircuit Track Tape 31 Track Tape 50 Track Tape 62 Track Tape 62 Track Tape 80 Track Tape 100 Track Tape 100 Track Tape 100	£1.95£1.25£2.5£1.35£0.48£0.48£0.96£1.25£1.35£1.75£1.75£1.75£2.75£1.39£8.75£0.91£0.91£1.32£1.32£1.32
YY40T QW96E YH601R YH61R YH62S YY41U YY42V YY45Y YY46S YY47B YY48C YY49D YY50E YY51F YY52G YY53H YY55K YY55K YY55K YY55K YY55K YY58N	LED Clip Square LED Red Square LED Green Square LED Clip Large LED Red Shape LED RI Red Shape LED RI Green Shape LED RI Oreen Shape LED RI Oreen Shape LED RI Oreen Shape LED RI Oreen Shape LED RI Green Shape LED RI Green Shape LED S2 Red Shape LED S2 Red Shape LED LI Green Shape LED T4 Green Shape LED T4 Green Shape LED T4 Green Shape LED T4 Green Shape LED A5 Red Shape LED A5 Red Shape LED A5 Red	£0.02 £0.36 £0.40 £0.40 £0.21 £0.20 £0.27 £0.27 £0.27 £0.26 £0.26 £0.26 £0.26 £0.27 £0.26	XB03D XB04E XB004E XB00A XB86T Page 13 XB87U FL66W FL67X FL69A FL70M FL71M FL71P FL73Q FL74R FL74R FL75S BR05F 8R47B BR67X BR06G BR07H	Contact Block GC3 Earth Bar	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.10 £0.1	BY52G BY53H BY54J BY55K BY56L BY57M BY58N BY59P BY602 BY61R BY62S BY63T BY64U FL76H BR46A XX113P BR41U 8R42V XB18U XB18U XB19U XB96E	Mar Key Tab Salict 4' £2.95 Mar Key Tab Salic 8' £2.95 Mar Key Tab Sax 16' £2.95 Mar Key Tab Strng 4' £2.95 Mar Key Tab Strng 8' £2.95 Mar Key Tab Sus Acc. £2.95 Mar Key Tab Sus Solo £2.95 Mar Key Tab Sus Solo £2.95 Mar Key Tab Sus Solo £2.95 Mar Key Tab Tuba 16' £2.95 Mar Key Tab Vuba 16' £2.95 Mar Key Tab Vox Ang 8' £2.95 Mar Key Tab Vox Hum 8 £2.95 Key Tab £0.90 ST Strip £1.35 KT Strip £1.35 Draw Bar Red £1.35 Draw Bar Red £1.35 Contact Pedal Board £2.30 Free-Standing Pedal Board £63.00 10 £2.95 32-Note Pedal Unit Front Panel £2.95 21-35.41	BW19V BW20W Page 14 XX12N WF10L HX02C HX03D HX00A WF38R WF39N HX01B WF40T WF41U WF42V XB90X BW21X BW22Y BW23A BW25C BW26D BW26D BW26D BW27E BW28F	Photo-Etch PCB Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Small Single PCB SRBP Med Single PCB SRBP Mass Med Single PCB F Glass Med Single PCB F Glass Med Single PCB F Glass Med Double. Fixicircuit Track Tape 31 Track Tape 40 Track Tape 40 Track Tape 50 Track Tape 62. Track Tape 80 Track Tape 100 Track Tape 100 Track Tape 100 Track Tape 125	£1.95£1.25£2.25£2.25£1.35£0.88£0.48£0.96£1.25£0.85£1.75£1.39£2.75£1.39£0.91£0.91£0.91£1.32£1.32£1.32£1.32£1.32£1.33
YY40T QW96E YH60R YH61R YH62S YY41U YY42V Page 12 YY45C YY46A YY47B YY50E YY51S YY53H YY55C YY53H YY55L YY57M YY57M YY57M YY57M YY57M YY43W	LED Clip Square LED Red Square LED Green Square LED Vellow Square LED Clip Large LED Red Shape LED R1 Red Shape LED R1 Green Shape LED R1 Green Shape LED R1 Green Shape LED R2 Red Shape LED R3 Red Shape LED S2 Green Shape LED L3 Green Shape LED L3 Green Shape LED L3 Green Shape LED L4 Green Shape LED L5 Green Shape LED L5 Green Shape LED L4 Green Shape LED T4 Green Shape LED T5 Green Shape LED T5 Green Shape LED T6 Green Shape LED T6 Green Shape LED T7 Green Shape LED T8 Green Shape LED T9 Green	£0.02£0.36£0.36£0.40£0.07£1.49£0.21£0.22£0.25£0.27£0.26£0.26£0.26£0.26£0.26£0.26£0.26£0.26£0.27£0.27£0.21£0.29	XB03D XB04E XB00A XB86T Page 13 XB87U FL66W FL67X FL69A FL70M FL71M FL72P FL73Q FL73Q FL74S BR05F 8R47S BR06G BR07H BR08J BY00A	Contact Block GC3 Earth Bar	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.10 £0.75 £0.10 £0.1	BY52G BY53H BY54J BY55K BY56L BY57M BY58N BY59P BY60Q BY61R BY62S BY63T BF44U SR42V XB18U XB19V Page 14 XB99H XB99H XB99E XB92Y	Mar Key Tab Salict 4'. £2.95 Mar Key Tab Salic 8'. £2.95 Mar Key Tab Sax 16'. £2.95 Mar Key Tab Strng 4'. £2.95 Mar Key Tab Strng 8'. £2.95 Mar Key Tab Sb-Bss 16'. £2.95 Mar Key Tab Sus Acc. £2.95 Mar Key Tab Sus Solo. £2.95 Mar Key Tab Sus Solo. £2.95 Mar Key Tab Turpt 8'. £2.95 Mar Key Tab Tuba 16'. £2.95 Mar Key Tab Vox Ang 8'. £2.95 Mar Key Tab Vox Hum 8. £2.95 Key Tab. £0.90 ST Strip. £1.35 KT Strip. £1.35 Draw Bar Red. £1.35 Draw Bar White. £1.35 Contact Pedal Board. £2.20 Pedal Unit Front Panel £2.95 32-Note Pedal Board £135.41 Control Lever £7.73	BW19V BW20W Page 14 XX12N WF10L HX002C HX03D HX00A WF38R WF39N HX01B WF40T WF41U WF42V XB90X BW21X BW22Y BW23A BW24B BW25C BW26D BW27E BW26D BW27E BW27E BW27E BW28F BW29G	Photo-Etch PCB Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover Resist Remover PCB SRBP Small Single PCB SRBP Med Single PCB SRBP Med Single PCB F Glass Med Single PCB F Glass Med Double Fixicircuit Track Tape 31 Track Tape 40 Track Tape 50 Track Tape 62 Track Tape 80 Track Tape 80 Track Tape 100 Track Tape 125 Track Tape 125 Track Tape 150 Track Tape 150 Track Tape 150 Track Tape 150	£1.95£1.25£2.25£1.35£0.48£0.48£0.48£0.48£1.25£0.85£1.75£1.39£1.75£1.39£1.75£1.39£1.32£1.32£1.32£1.32£1.32£1.32£1.32£1.32£1.32£1.35£1.85£1.85
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YY40T QW96E YH60R YH61R YH62S YY41U YY42V Page 12 YY45V YY45A YY47B YY50E YY51F YY55A YY55A YY55A YY55A YY55A YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY59P YY60L YY59P YY60L YY59P YY60A YY60A YY60	LED Clip Square LED Red Square LED Green Square LED Green Square LED Clip Large LED Red Large LED Red Shape LED R1 Red Shape LED R1 Green Shape LED R1 Green Shape LED R1 Green Shape LED R1 Green Shape LED R3 Green Shape LED R4 Green Shape LED R5 Green Shape LED R6 Shape LED R6 Shape LED R7 Green Shape LED R7 Green Shape LED R8 Shape LED R9 Shape LED	£0.02£0.36£0.36£0.36£0.40£0.07£1.49£0.21£0.22£0.25£0.37£0.27£0.20£0.26£0.26£0.26£0.26£0.26£0.26£0.26£0.26£0.26£0.26£0.26£0.26£0.26£0.26£0.26£0.26£0.26£0.26£0.26£0.27JULY 82JULY 82JULY 82£0.16£0.19£0.59£0.59£0.54£0.59£0.54£0.59£0.54£0.59£1.95£1.97	XB03D XB04E XB004 XB06T XB00A XB86T XB87U FL66W FL67X FL69A FL70M FL71P FL73Q FL73Q BR05F 8R47B BR05F 8R47B BR05F 8R47B BR05F 8R47B BR05F BR07H BR08J BR09K 8R68Y BR10L BR12N BR11P BR14Q BR15R	Contact Block GC3	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.10 £1.10	BY52G BY53H BY54J BY55K BY56L BY576L BY576L BY690 BY61R BY62S BY63T BY64U FL76H BR46A XX13P BR41U 8R42V XB18U XB19V Page 12 XB21X XB20W XY28F Page 14 RW74R LB80B L879L RW73Q Y047B RW99F RW91Y RW99B RW91Y RW93B RW94C RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D	Mar Key Tab Salict 4' £2.95 Mar Key Tab Salic 8' £2.95 Mar Key Tab Sax 16' £2.95 Mar Key Tab Strng 4' £2.95 Mar Key Tab Strng 8' £2.95 Mar Key Tab Sus Acc. £2.95 Mar Key Tab Sus Acc. £2.95 Mar Key Tab Sus Acc. £2.95 Mar Key Tab Sus Solo £2.95 Mar Key Tab Sus Solo £2.95 Mar Key Tab Trmpt 8' £2.95 Mar Key Tab Vox Ang 8' £2.95 Mar Key Tab Vox Ang 8' £2.95 Mar Key Tab Vox Hum 8 £2.95 Key Tab £0.90 ST Strip £1.35 Draw Bar Red £1.35 Draw Bar Red £1.35 Draw Bar White £1.35 Contact Pedal Board £63.00 10 Pedal Unit Front Panel £2.95 32-Note Pedal Board £1.35 Draw Bar White £1.35 Control Lever £7.73 Piano Pedal £9.85 Swell Pedal £8.50	BW19V BW20W Page 14 XX12N WF10L HX02C HX03D HX00A WF38R WF39N HX01B WF40T WF41U WF42V XB90X BW21X BW22Y BW23A BW24B BW25C BW26D BW27E BW28F BW29G BW30H BW31J BW35C BW30H BW31J BW32K BW39C BW30H BW31J BW32K BW36P BW37S BW38R Page 14 BW41U HX45V HX46A HX47B HX48C HX49D HX63T HX64U HX65V	Photo-Etch PCB Photo-Etch PCB Photo-Etch Drafting Pack 16 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Small Single PCB SRBP Med Single PCB SRBP Large Single. PCB F Glass Med Single Track Tape 31 Track Tape 31 Track Tape 80 Track Tape 62 Track Tape 62 Track Tape 62 Track Tape 100 Track Tape 100 Track Tape 100 Track Tape 150 Track Tape 150 Pad 100 Pad 100 Pad 150 Pad 200 Pad 300 Pad 400 Pad 500 Pad 400 Pad 500 Pad 600 17 IC Pads 200 Pad 600 Pad 600 17 IC Pads 200 Parsfer Sheet 1 Transfer Sheet 2 Transfer Sheet 3 Transfer Sheet 5 Transfer Sheet 6 Transfer Sheet 7 Transfer Sheet 7 Transfer Sheet 7 Transfer Sheet 8	£1.95£1.25£2.25£1.35£0.48£0.48£0.48£0.49£1.35£1.75£1.39£1.75£1.39£1.75£1.39£1.32£1.32£1.32£1.32£1.32£1.32£1.32£1.32£1.32£1.32£1.32£1.35£1.50£1.50
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YY40T QW96E YH60R YH61R YH62S YY41U YY42V Page 12 YY45V YY45A YY47B YY50E YY51F YY55A YY55A YY55A YY55A YY55A YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY57M YY58L YY59P YY60L YY59P YY60L YY59P YY60A YY60A YY60	LED Clip Square LED Red Square LED Green Square LED Green Square LED Clip Large LED Red Large LED Red Shape LED R1 Red Shape LED R1 Green Shape LED R1 Green Shape LED R1 Green Shape LED R1 Green Shape LED R3 Green Shape LED R4 Green Shape LED R5 Green Shape LED R6 Shape LED R6 Shape LED R7 Green Shape LED R7 Green Shape LED R8 Shape LED R9 Shape LED		XB03D XB04E XB004 XB06T XB00A XB86T XB87U FL66W FL67X FL69A FL70M FL71P FL73Q FL73Q BR05F 8R47B BR05F 8R47B BR05F 8R47B BR05F 8R47B BR05F BR07H BR08J BR09K 8R68Y BR10L BR12N BR11P BR14Q BR15R	Contact Block GC3	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £1.10	BY52G BY53H BY54J BY55K BY56L BY576L BY576L BY690 BY61R BY62S BY63T BY64U FL76H BR46A XX13P BR41U 8R42V XB18U XB19V Page 12 XB21X XB20W XY28F Page 14 RW74R LB80B L879L RW73Q Y047B RW99F RW91Y RW99B RW91Y RW93B RW94C RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D RW95D	Mar Key Tab Salict 4' £2.95 Mar Key Tab Salic 8' £2.95 Mar Key Tab Sax 16' £2.95 Mar Key Tab Strng 4' £2.95 Mar Key Tab Strng 8' £2.95 Mar Key Tab Sus Acc. £2.95 Mar Key Tab Sus Acc. £2.95 Mar Key Tab Sus Acc. £2.95 Mar Key Tab Sus Solo £2.95 Mar Key Tab Sus Solo £2.95 Mar Key Tab Trmpt 8' £2.95 Mar Key Tab Vox Ang 8' £2.95 Mar Key Tab Vox Ang 8' £2.95 Mar Key Tab Vox Hum 8 £2.95 Key Tab £0.90 ST Strip £1.35 Draw Bar Red £1.35 Draw Bar Red £1.35 Draw Bar White £1.35 Contact Pedal Board £63.00 10 Pedal Unit Front Panel £2.95 32-Note Pedal Board £1.35 Draw Bar White £1.35 Control Lever £7.73 Piano Pedal £9.85 Swell Pedal £8.50	BW19V BW20W Page 14 XX12N WF10L HX02C HX03D HX00A WF38R WF39N HX01B WF40T WF41U WF42V XB90X BW21X BW22Y BW23A BW24B BW25C BW26D BW27E BW28F BW29G BW30H BW31J BW35C BW30H BW31J BW32K BW39C BW30H BW31J BW32K BW36P BW37S BW38R Page 14 BW41U HX45V HX46A HX47B HX48C HX49D HX63T HX64U HX65V	Photo-Etch PCB Photo-Etch PCB Photo-Etch Drafting Pack 16 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Small Single PCB SRBP Med Single PCB SRBP Large Single. PCB F Glass Med Single Track Tape 31 Track Tape 31 Track Tape 80 Track Tape 62 Track Tape 62 Track Tape 62 Track Tape 100 Track Tape 100 Track Tape 100 Track Tape 150 Track Tape 150 Pad 100 Pad 100 Pad 150 Pad 200 Pad 300 Pad 400 Pad 500 Pad 400 Pad 500 Pad 600 17 IC Pads 200 Pad 600 Pad 600 17 IC Pads 200 Parsfer Sheet 1 Transfer Sheet 2 Transfer Sheet 3 Transfer Sheet 5 Transfer Sheet 6 Transfer Sheet 7 Transfer Sheet 7 Transfer Sheet 7 Transfer Sheet 8	£1.95£1.25£2.25£2.25£0.48£0.48£0.96£1.25£0.85£1.39£2.75£1.39£2.75£1.39£1.32
YY40T QW96E YH60Q YH61R YH62S YY41V Page 12 YY42V Page 12 YY46A YY49D YY50E YY55E YY55E YY55E YY55K YY56L YY57M YY54X YY54X YY54X YH55K YY56L YY57M YY54X YH55K YY56L YY57M YY58N YY43W YY44X YH55K YH56L YH57M YY61R YY61R YY61R YY61R YY61R YY61R YY63Q YG33M YG35Q Page 12 FR36P FR37S FR38R FR39N FR40T	LED Clip Square LED Red Square LED Green Square LED Green Square LED Clip Large LED Red Large LED Red Shape LED R1 Red Shape LED R1 Green. Shape LED R1 Green. Shape LED R1 Green Clipite Green		XB03D XB04E XB00A XB06T XB00A XB86T Page 13 XB87U FL66W FL67X FL68Y FL69A FL70M FL72P FL73Q FL73Q BR05F BR07H BR08J BY00A BY01B BY02C BY03D BR09K 8R68Y BR10L BR11M BR12M BR15M BR12M BR15M BR12M BR15M BR12M BR15M BR12M BR15M BR14M BR15M BR15M BR15M BR15M BR15M BR12M BR15M BR20W BR21X BY05F BY06G BR22Y BY07H BR23A	Contact Block GC3	£0.63 £0.23 £1.10 £52.66 £79.30 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £0.75 £1.10	BY52G BY53H BY54H BY55H BY56L BY578N BY58P BY69D BY61R BY62S BY63T BY64U FL76H BR46A XX139 BR41U 8R42V XB18U XB19V Page 14 XB99H XB96E XB22Y XB21X XB20W XY28F Page 14 RW74R LB80B L879L RW747B RW97F RW98G RW99T RW95D	Mar Key Tab Salict 4¹	BW19V BW20W Page 14 XX12N WF10L HX02C HX03D HX00A WF38R WF39N HX01B WF40T WF41U WF42V BW22Y BW22Y BW22Y BW25C BW26D BW27E BW26B BW27E BW28F BW29B BW30H BW31J BW32K BW31L BW34M BW35Q BW36P BW3	Photo-Etch PCB Photo-Etch PCB Photo-Etch Drafting Pack 46 Etch Crystals Etcher Fluid PCB Pen Resist Remover PCB SRBP Small Single PCB SRBP Med Single PCB SRBP Large Single. PCB F Glass Med Single PCB F Glass Med Double Fixicircuit Track Tape 31 Track Tape 30 Track Tape 40 Track Tape 50 Track Tape 62 Track Tape 62 Track Tape 80 Track Tape 100 Track Tape 100 Track Tape 100 Pad 125 Pad 100 Pad 075 Pad 100 Pad 125 Pad 150 Pad 200 Pad 300 Pad 400 Pad 500 Pad 600 47 IC Pads 200 Drafting Template Transfer Sheet 1 Transfer Sheet 2 Transfer Sheet 3. Transfer Sheet 4 Transfer Sheet 5. Transfer Sheet 6 Transfer Sheet 6 Transfer Sheet 7. Transfer Sheet 8 Transfer Sheet 8 Transfer Sheet 8 Transfer Sheet 8	£1.95£1.25£2.25£2.25£0.48£0.48£0.96£1.25£0.85£1.39£2.75£1.39£2.75£1.39£1.32

HX68Y	Transfer Sheet 11		XQ03D	3800 Front Panel		BB26D	Motor Switch PCB		WR14Q	Fuse 11/4 3 A	
HX83E HX84F	Transfer Sheet 12 Transfer Sheet 13		BF96E BF98G	3800 Sp Ext I/P Bracket 3800 VCA Bracket		BB27E BB18U	Light Mod Board Heatsink DR 2		WR15R WR16S	Fuse 1¼ 5 A Fuse 1¼ 10 A	
HX44X	Transfer Kit		BF99H	3800 Intface Mtg Bracket		XB77J	Disco Cabinet		WR17T	Fuse 11/4 15 A	
			BB67X	3600 VCF Mtg Bracket		BB81C	Disco Pre-Amp Tone PCB		HQ31J	Plug Fuse 2 A	
Page 14	PROJECTS IS		BY85G XQ04E	3800 Rear Panel 3800 Cabinet		BB19V BB20W	Disco PSU PCB 100W Amp Board		HQ32K HQ33L	Plug Fuse 3 A Plug Fuse 5 A	
XF11M	MES12	£2.00 NV	YQ46A	Synth Demo Tape		XY26D	Heatsink Mtg Plate		HQ34M	Plug Fuse 13 A	
XH24B	MES15		XF41U	Synth Guide Book		XY27E	Heatsink Cover		HB51F	Fuse Wire	
XH27E XH18U	MES16 MES22		XF42V XF43W	5600S Patch Chart		BB22Y BB24B	FET-Ceramic PU Board Disco Fader Board		HW04E HW05F	RF Supp Choke 1 A RF Supp Choke 2 A	
XH06G	MES24		XF10L	ETI Top Project No 5		BB25C	VUM & HP Amp Board		HW06G	RF Supp Choke 3 A	
XH20W	MES25		BB76H	Touch Organ PCB		XH23A	MES42		_		
XF03D XH51F	MES26 MES30		Dogo 15	:=		XB37S	Sound To Light Case	£11.50	Page 17 HW13P	'6 Mains Trans Suppressor	CO 65
XH07H	MES32		Page 15 XH18U	MES22	£0.25 NV	Page 16	64		HW07H	Delta Cap	
XH48C	MES33	£0.40 NV	BY78K	Piano PSU/Voice PCB	£4.45	LR13P	HQ Mixer PCB No 2		YR90X	RC Network	£1.39
XH21X XF04E	MES37 MES41		BY79L	Piano Top Oct PCB		LR14Q	HQ Mixer PCB No 3		YW46A	Door Contact Reed	
XH23A	MES42		BY80B XF03D	Piano Two-Oct PCB MES26		LR15R LR34M	HQ Mixer PCB No 4 HQ Mixer PCB No 24		YW50E YW51F	Window Foil Foil Terms	
XH49D	MES47		BB28F	RC Coder PCB		2.10	114 1111/01 1 05 110 2 111111111		YW47B	Surface BA Reed	
XH19V	MES49		BB29G	RC Xm.tter PCB		Page 16			YW48C	Door Loop	
XHOOA XH02C	MES51 MES52		BB30H BB31J	RC Receiver PCB RC Interface PCB		LR16S LR35Q	HQ Mixer PCB No 5 HQ Mixer PCB No 25		YW49D YB91Y	BA Junction Box Pressure Mat	
XH04E	MES53		BB32K	RC Decoder PCB		LR21X	HQ Mixer PCB No 6		XY33L	Smoke Detector Type 1	
XH31J	MES54		BB33L	RC Relay Drive PCB	£0.94	LR22Y	HQ Mixer PCB No 7	£1.75			
XH33L	MES55		BB34M	RC Servo Drive PCB		LR23A	HQ Mixer PCB No 8	£1.60	D4	RECORD AND TAPE	
XH35Q XH26D	MES56 MES71		BB35Q BB36P	RC Servo Amp PCB RC Tone Gen PCB		Page 16	36		Page 17 XQ00A	Auto Changer	£22.50
XH50E	MES93		BB37S	RC Tone Decoder PCB		LR24B	HQ Mixer PCB No 9	£0.99	XB23A	Rim Drive Turntable	
XF36P	Maplin Catalogue	£1.25 NV	YQ03D	McM Encoder PCB		LR42V	HQ Mixer PCB No 29		XB25C	Belt Drive Turntable	£34.50
XF08J	MES120		YQ04E	McM Receiver PCB		LR25C LR26D	HQ Mixer PCB No 10 HQ Mixer PCB No 14		Dogo 17	70	
LW50E	Electronics For All	£29.93	YQ05F YQ07H	McM Rcvr Dcdr PCB McM Transmitter PCB		LINZUD	TIQ WILKEI FOD NO 14	21.07	Page 17 FQ17T	Cartridge Slide MP60	£2.68
Page 15	50		YQ06G	McM Stereophoner PCB		Page 16			FQ18U	Cartridge Slide 710	
BR45Y	AS314		XQ06G	Piano Cabinet Black		LW35Q	50W Amp Kit	£14.96	FQ19V	Cartridge Slide BDS95	
BR88V YL20W	Mk/Space Adaptor Kit Master Tuning Module		XY11M YQ08J	Piano Cabinet Teak		Page 16	sa .		LB75S FQ20W	Drive Wheel BSR Spindle Auto BSR	
BB00A	Divider Board A		YQ09K	McM Elect Ig/Cnv PCB McM Flasher PCB		HQ68Y	50W Hi-Fi PCB	£2.85	FQ21X	Spindle Manual BSR	
BB01B	Divider Board B	£3.20	YQ19V	LM380 Amp PCB		LW32K	150W Power Amp Kit		YW58N	BSR Drive Belt	£2.20
BB02C	Tone Board A		YQ20W	20W Amp PCB		Dana 47	70		FQ22Y	Carrier Kit SL75K	
BB03D BB07H	Tone Board B Control Board A		YQ18U YQ21X	Tone Con PCB Sound/Light Convert PCB		Page 17 BY74R	Michron Mkll PCB	DISC	FQ23A FQ24B	Cartridge Carrier SL95 Carrier Kit SL95K	
BB08J	Control Board B		TUZIA	Sound/Light Convert FCB	£2.10	YB92A	Michron Mkll Case		FQ25C	Cartridge Car Zero 100	
BB09K	Sawtooth Board A		Page 15	i6		LW37S	Michron Mkll Clock Kit	£19.40	FQ26D	Cartridge Car SP25II	
BB10L	Sawtooth Board B		XH20W	MES25		D 47	70		FQ28F	Cartridge Car SP25V	
BB11M BB04E	Gate Board Tone Board C		BB16S XH19V	Orgn/Gtar Bass PCB MES49		Page 17 XL07H	MA1003	DISC	FQ29G LB76H	Carrier Kit SP25VK Dr Wheel Garrard Large	
BB05F	Tone Board D		XL13P	OrumsetteKit		YL19V	LC Clock Module		FQ30H	Dr Wheel Garrard Small	
BB06G	Tone Board E		XX16S	Drumsette 1 PCB		ļ <u>.</u>			FQ31J	Spindle Man Short	
BB12N	Pedal PCB A		XX17T	Drumsette 2 PCB		Page 17 LW39N	73 Burglar Alarm Kit	nisc	FQ32K	Spindle Man Long	
BB15R BB13P	Mother Board A A/B Switch Board		IY01B tLY02C	Drumsette Frnt Panel Drumsette Rear Panel		LW38R	Ultrasonic Detector Kit		FQ33L FQ34M	Spindle Auto Short Spindle Auto Long	
BB14Q	MES Amp Board A		tHY02C	Drumsette Bkt Set		XH49D	MES47		YB43W	SP25IV Tone Arm	
BB77J	Divider MO & Frq Gen		XB98G	Drumsette Cabinet	DISC	YQ52G	Ultrasonic Tx PCB		FQ35Q	CB weight SP25IV	
BB78K	Pedal PCB B		D 15			YQ53H BY92A	Ultrasonic Rx PCB Burglar Alarm PCB		FQ36P YB44X	Garrard Drive Belt SP25IH Motor	
BB79L BB80B	32-Note Pedal Voice Pedal Diode PCB		Page 15 XH48C	MES33	£0.40 NV	BY93B	External Alarm F>CB		YB45Y	SP25IV Motor	
HQ72P	Auto Ogn Gen/Clk PCB		FL94C	Hi-Fi Amp Sel Mthr PC		BY95D	Alarm Box Bracket	DISC			
HQ73Q	Auto Ogn Crd Cdr PCB		FL95D	Hi-Fi Amp Sel PCB	£2.29	XY14Q	External Alarm Box		Page 17		00.50
HQ74R HQ75S	Auto Ogn Auto St PCB Auto Ogn PA/PSU PCB	£5.95	FL96E FL97F	Hi-Fi Amp Eql Mthr PC Hi-Fi Amp Eql PCB		XY13P BB72P	Burglar Alarm Box Sine/Square Gen PCB	bisc	HR01B	Headshell Cartridge BSR X5M	
YLOOA	Organ Mixer PCB		FL98G	Hi-Fi Amp Pk Det PCB		BB73Q	Audio Osc Frt Panel		HK02C	Cartridge BSR X5H	
YL18U	Power Supply 2G05	£1.35	FL99H	Hi-Fi Amp PSU PCB	£1.65	XH24B	MES15		HRC4E	Cartridge BSR SX6M	£4.25
YL21X	32 Note Pedal PSU PCB		XX32K	H/Phones Socket Bracket		XH27E XX40T	MES16 Ignition PCB		HR05F	Cartridge BSR SX6H	
XX38R XH00A	Downbeat Indicator PCB MES51		XY21X XY22Y	Hi-Fi Amp Chassis Hi-Fi Amp Screen		XX41U	Ignition Mounting Plate		YX76H YX77J	Drive Belt 46 mm Drive Belt 57 mm	
XH02C	MES52		XY23A	Hi-Fi Amp Front Panel			· g		YX78K	Drive Belt 66 mm	
XH04E	MES53		XY24B	Hi-Fi Amp Cover Black	£6.95	Page 17		00.00 NN/	YX79L	Drive Belt 76 mm	
XH31J	MES54		D 15	.0		XH26D BB82D	MES71 Keyboard PCB		YX80B HR06G	Drive Belt 90 mm Cartridge Acos 104	
XH33L	MES55	£0.30 NV	Page 15 LW40T	Tuner Metalwork Kit	£42.88	BB83E	VDU Logic PCB		HR09K	Cartridge BSR SC12M	
Page 15	52		LW41U	Tuner PSU Module		BB98G	VDU PSU PCB	£2.98	HR10L	Cartridge BSR SC12H	£3.40
XF11M	MES12		LW42V	Tuner Switching Mod	£18.95	XY12N XX05F	VDU Front Panel UHF Mod No 2		YX83E	Cartridge Philps GP215	£4.55
BB41U BB44X	Synth Mixer PCB Synth VCA PCB		Page 15	19		XF44X	Magnum Booklet		Page 18	80	
BY87U	Synth Preset Mtg Board		LW45Y	TV Sound Tuner		YQ44X	Magnum 1 PCB	£2.95	FY75S	Cartridge Rigonda 2SB	
BY88V	Synth 1979 Kybd Cont		LW44X	Tuner Head EF5600U		YQ45Y	Magnum 2 PCB	£2.95	HR11M	Cartridge Sono 9TAHC	
BY89W BB40T	Synth Binary Encoder Synth PSU Mk 2 PCB		LW43W LW46A	Tuner IF Module AM Tuner			PROTECTION		HR12N HR13P	Cartridge Sono 3509 Cartridge Sono 3549	
BY90X	Synth Sample & Noise PCB.		LW48C	Stereo Tuner Kit		Page 17			HR14Q	Cartridge Sono 3559	
BB43W	Synth Trns Gen 1 PCB		YQ00A	IF Tuner Mono Module		RX96E	Safuseholder 20		HR17T	Cartridge Sono V100	£5.98
BB45Y	Synth Trns Gen 2 PCB		YQ10L	12/30V PSU Module	£6.70	RX97F RX49D	Safuseholder 1¼ in Chassis F/H 20 mm		YX81C	Cartridge QLM30	
BY81C BY82D	Synth Trns Rept PCB Synth Rvrb & Phs PCB		Page 16	60		RX50E	Chassis F/H 11/4 in		YX82D HR15R	Cartridge QLM36 Cartridge Goldring G850	
BY83E	Synth VC Pn & Anc PCB		XH07H	MES32	£0.20 NV	WH49D	Fuse Clip	£0.02	HR16S	Cartridge Goldring G800	
BB38R	Synth Oscillator PCB		BB55K	Dyn Noise Filter PCB		RX51F	F/H Car 50 A				
BB48C	Synth Ext I/Fs PCB		XB05F	Dyn Noise Filter Metalwork	£9.95	WR93R WR00A	Fuse 20 mm 50 mA Fuse 20 mm 100 mA		Page 18 FQ38R	Cartridge Goldring G800H	£0.40
BB65V BB64U	3600 VCF PCB 4600 Hinge		Page 16	51		WR94C	Fuse 20 mm 150 mA		FQ39N	Cartridge Goldring G800E	
BB63T	Synth Ext I/P Bracket		XH21X	MES37		WR01B	Fuse 20 mm 250 mA		FQ40T	Cartridge Tenorel T2001D	£4.85
BB49D	Synth Oscltr Mtg Bracket	£0.67	XX03D	10 Channel GE PCB		WR02C WR03D	Fuse 20 mm 500 mA Fuse 20 mm 1 A		FQ41U	Cartridge Tenorel T2001ED.	£9.95
BB52G	Synth Mixer Chassis		XB74R XB75S	10 Channel Eqlsr Metalwor 10 Channel Eqlsr Woodwor		WR04E	Fuse 20 mm 15 A		Page 18	12	
BB51F BB56L	Synth Pwr Sply Heatsink Synth Mixer Mtg Bracket		HY21X	Clock Timer PCB		WR05F	Fuse 20 mm 2 A		HR25C	Stylus GP91SC DD	£0.98
BB58N	Synth Trns 1 Env Bracket		HW30H	Clock Timer Case	£12.90	WR06G	Fuse 20 mm 3 A		HR28F	Stylus GP93 DD	£1.10
BB59P	Synth Trns 2 Mtg Bracket	£1.20	LW31J	Clock Timer Kit		WR07H WR18U	Fuse 20 mm 5 A Fuse A/S 500 mA		HR65V	Stylus GP95 DD	
BB60Q BB61R	Synth VCA Mtg Bracket Synth VCF Mtg Bracket		XY32K XY34M	Cassette Mechanism Stereo Tape Module		WR19V	Fuse A/S 500 mA Fuse A/S 1 A		HR31J HR66W	Stylus GP104 DD Stylus Acos SM6	
BF95D	Joy Lever PCB		YQ30H	Tape Switch Board		WR20W	Fuse A/S 2 A	£0.12	YX05F	Stylus ADCRK8	£6.45
XQ01B	5600 Front Panel	£13.50	YQ33L	Tape Switch Bracket	£0.51	WR95D	Fuse 11/4 50 mA		YX06G	Stylus ADC RSQ30	£7.85
BY84F	5600 Rear Panel		YQ31J XX350	Tape PSU PCB		WR08J WR96E	Fuse 1¼ 100 mA Fuse 1¼ 150 mA		YX07H YX08J	Stylus ADC RSQ36	
XQ02C XB79L	5600 Cabinet Teak 5600 Cabinet		XY35Q XY36P	Cassette Parts Kit Cassette Recorder Kit		WR09K	Fuse 11/4 250 mA		YX08J YX09K	Stylus AT6 Stylus AT70	
VDISE	. 501. 5550 00011151	200.10				WR10L	Fuse 11/4 500 mA	£0.06	YX10L	Stylus ATS1 IE	£5.70
Page 15		00.55	Page 16		00 40 111	WR11M	Fuse 11/4 1 A		HR68Y	Stylus VM8	
BY86T BB47B	3800 Interface PCB Synth Otpt Stge PCB		XF04E XB76H	MES41 Disco Front Panel		WR12N WR13P	Fuse 1¼ 1.5 A Fuse 1¼ 2 A		HR39N HR71N	Stylus BSR TC8 D Stylus BSR ST4 DD	
20-10	- j o.pt otgo i ob								1	y	,

HR42V	Stylus BSR ST10£0.70	Page 187		WR40T	Cermet 1K		FX59P	Slide Pot Log 500K	
HR45Y	Stylus BSR ST15£0.99		52A£1.87	WR41U WR42V	Cermet 5K		FX76H	Dual Slide Lin 5K	
HR47B HR74R	Stylus BSR ST17 DD£0.89 Stylus BSR ST21£0.95		£2.45 £4.65	WR42V WR43W	Cermet 10K Cermet 50K		FX77J FX80B	Dual Slide Lin 10K Dual Slide Lin 100K	
HR75S	Stylus Decca Deram£2.45		oox£9.68	WR44X	Cermet 100K		HBQ2C	Dual Slide Log 10K	
YX11M	Stylus Dual DN201£4.95		ead£11.80	WR45Y	Cermet 1M		HB04E	Dual Slide Log 50K	
YX12N	Stylus Garrard GA150£9.65		Head£4.55	WR46A	15-Turn Cermet 500R		HB05F	Dual Slide Log 100K	
HR76H	Stylus D110E£4.55		Head£2.55	WR47B	15-Turn Cermet 1K		HB07H	Dual Slide Log 500K	
HR77J HR48C	Stylus D110H£1.95 Stylus D110SR£1.95		е Head£4.75 Гrack RP£15.50	WR48C WR49D	15-Turn Cermet 5K 15-Turn Cermet 10K		FX07H XB09K	Slide Bezel Joystick Pot	
HR49D	Stylus D120SR£2.45	TQUIX Tape Hu TWO-	11ack Kr	WR50E	15-Turn Cermet 50K		XB06G	Joystick Pot Joystick Mounting Plate	
HR78K	Stylus Hitachi ST101£4.85	Page 188		WR51F	15 Turn Cermet 100K		HQ50E	2-Axis Joystick	
HR79L	Stylus Hitachi ST103£5.70	FQ68Y Tape Head Tw	o-Track Erase£8.95	BW06G	Edge Control Pot			·	
YX13P	Stylus Hitachi ST104£4.35		Track RP£15.25	BW07H	Edge Knob Small Black		Page 19		
YX14Q	Stylus JVC DT2IS£4.35		Track Erase£8.85	BW08J	Edge Knob Small Grey		FX21X	Thermistor VA1055S	
FQ54J	Stylus Victor DT33£4.35		t£4.65 t£5.39	BW09K	Edge Knob Large Black		FX22Y FX42V	Thermistor VA1056S Thermistor VA1066S	
YX15R HR81C	Stylus JVC DT36£4.35 Stylus LV65977D£1.25	I Q/ZF 3-Head Diacke	t	BW10L FW00A	Edge Knob Large Grey Pot Lin 1K		FX43W	Thermistor VA1067S	
HR83E	Stylus NP EPS36£1.85	RESI	STORS	FW01B	Pot Lin 4K7		FX62S	Thermistor R53	
HR84F	Stylus NP EPS52£4.55	Page 189		FW02C	Pot Lin 10K		WH23A	Thermistor G16	
YX16S	Stylus NP EPS53£4.75	•	£0.03	FW03D	Pot Lin 22K	£0.37	WH24B	Thermistor G23	
YX17T	Stylus Philips AG3306£0.99		£0.02	FW04E	Pot Lin 47K		HB10L	LDRORP12	
HR87U	Stylus Philips GP200DD£1.10		£0.03	FW05F	Pot Lin 100K		HB11M	LDR0RP60	
HR89W	Stylus Philips GP205£1.25	C IW Res	£0.05	FW06G FW07H	Pot Lin 220K Pot Lin 470K		HB12N HB09K	LDRORP61 LDR RPY58A	
YX18U HR90X	Stylus Philips GP213£1.10 Stylus Philips GP400£4.35	Page 190		FW07H	Pot Lin 1M		HDOSK	LDIX IXF 130A	L 1.01
YX19V	Stylus Philips GP400Mk2£4.32		£0.05	FW09K	Pot Lin 2M2			SEMICONDUCTORS	j
YX20W	Stylus Philips GP401Mk2£5.95	T 1% Res	£0.09	FW21X	Pot Log 4k7		Page 19	06	
			£0.25	FW22Y	Pot Log 10K	£0.37	QB00A	AA119	
Page 18		W W/W Min Res.	£0.19	FW23A	Pot Log 22K		QB01B	AC126	
HR93B	Stylus RIG-2SB DD£1.22	Page 191		FW24B	Pot Log 47K		QB02C	AC127	
HR51F	Stylus BF40D£1.25		£0.24	FW25C	Pot Log 100K		QB03D QB04E	AC128 AC141	
HR96E YX22Y	Stylus DM500/7£4.95 Stylus Sanyo ST10J£4.35		£0.29	FW26D FW27E	Pot Log 220K Pot Log 470K		QB04L QB05F	AC142	
HR95D	Stylus Sansui£4.35	P 25 W/W Res	£1.49	FW28F	Pot Log 1M		QB06G	AC176	
YX23A	Stylus Sansui SN41£4.35	V HV Res 1M-33	M£0.12	FW29G	Pot Log 2M2		QB07H	AC187	£0.26
YX24B	Stylus Sanyo ST7D£4.75	:	£0.22	_	-		QB08J	AC188	
HR97F	Stylus Sanyo 2611£3.95		swg£3.35	Page 19			QB10L	ACY19	
FQ48C	Stylus Sony ND128£1.85		£0.85	FW41U	Sw Pot Lin 4K7		QB11M	ACY20	
YX25C HR98G	Stylus Sharp 706 £4.75		£0.85	FW42V FW43W	Sw Pot Lin 10K Sw Pot Lin 22K		QB12N BL30H	ACY21 AD140	
HR99H	Stylus Sharp 706£4.75 Stylus Sharp 717£4.35	i	£0.85	fW44X	Sw Pot Lin 47K		BL31J	AD149	
HR60Q	Stylus 9TAHC DD£0.99		£0.85	FW45Y	Sw Pot Lin 100K		BL32K	AD161	
HR61R	Stylus Sonotone V100£4.75	YY17T Resnet 4K7	£0.85	FW46A	Sw Pot Lin 220K		BL33L	AD161/162 MP	
YX26D	Stylus Sonotone V101£4.35		£0.85	FW47B	Sw Pot Lin 470K		BL34M	AD162	
FQ45Y	Stylus 2509£0.99		£0.85	FW48C	Sw Pot Lin 1M		QQ00A	ADC0804LCN	
FQ43W	Stylus 2529 DD£1.30		£0.85	FW49D	Sw Pot Lin 2M2		QB19V	AF139	
HR53H HR55K	Stylus KS40A DD£0.99 Stylus KS4 IB DD£1.35		set 100R£0.10	FW62S	Sw Pot Log 4K7 Sw Pot Log 10K		QB20W QR45Y	AF239 AS314	
HR57M	Stylus KS41C DD£1.10		set 220R£0.10	FW63T FW64U	Sw Pot Log 22K		QB21X	AY-1-0212	
YX27E	Stylus Sony XL15£4.35		set 470R£0.10	FW65V	Sw Pot Log 47K		HQ52G	AY-1-1320	
YX28F	Stylus Sony ND126£4.75		set 1K£0.10	FW66W	Sw Pot Log 100K		HQ51F	AY-1-5050	£1.99
FQ49D	Stylus Sony ND133£4.85		set 2K2£0.10	FW67X	Sw Pot Log 220K		YY98G	AY-3-1270	
FQ50E	Stylus Sony ND134£2.95		set 4K7£0.10	FW68Y	Sw Pot Log 470K		YY89W	AY-3-1350	
FQ51F	Stylus Tenorel N200ID£2.37		set 10K£0.10	FW69A	Sw Pot Log 1M		WQ17T	AY-3-8115	
YX29G	Stylus Tenorel N2001DM£2.75		set 22K£0.10 set 47K£0.10	FW70M	Sw Pot Log 2M2		WQ18U	AY-5-1013A	
FQ52G YX30H	Stylus Tenorel N2001ED£7.45		set 100K£0.10	FW50E FW51F	W/W Pot 10R W/W Pot 20R		QB24B QB25C	AY-5-1224 AY-5-1230	
FQ53H	Stylus Tetrad 51£2.15 Stylus Toshiba N3C£1.75		set 220K£0.10	FW51F	W/W Pot 50R		WQ19V	AY-5-2376	
YX31J	Stylus Toshiba N55£4.35		set 470K£0.10	FW71N	W/W Pot 100R		QB26D	AY-5-4007D	
YX32K	Stylus Toshiba N58£4.85	WR64U Hor S-Min Pre	set 1M£0.10	FW72P	W/W Pot 200R		QB27E	BA102B	
YX21X	Stylus Toshiba N550£4.35		et 100R£0.11	FW73Q	W/W Pot 500R	£1.85	QQ12N	BA243	
			et 220R£0.11	FW93B	W/W Pot 1K		QQ13P	BAR28	
Page 18			et 470R£0.11 et 1K£0.11	FW96E	W/W Pot 2K		QB28F	BAX13	
YB47B LX03D	Record Care Kit C106£4.95 Music Centre Kit C113£6.45		et 2K2£0.11	FW94C FW95D	W/W Pot 5K W/W Pot 10K		QB29G QB30H	BAX16 BB110G	
LX06G	Cleaning Arm C100£3.25		et 4K7£0.11	FX18U	W/W Pot 50K		QB31J	BC107B	
LH89W	Cleaning Arm C108£4.55	WR71N Vrt S-Min Pres	et 10K£0.11	FW84F	Dual Pot Lin 4K7		QB32K	BC108C	
FR44X	Roller Pack C93£0.35		et 22K£0.11	FW85G	Dual Pot Lin 10K	£0.99	QB33L	BC109C	
YW80B	Roller Pack C96£0.48		et 47K£0.11	FW86T	Dual Pot Lin 22K		QB34M	BC117	
YW81C	Cleaning Cloth C104£0.78		et 100K£0.11 et 220K£0.11	FW87U	Dual Pot Lin 47K		Q835Q	BC119	
FR48C YW82D	Dust Off C101£0.99 Cleaner C92£4.65		et 470K£0.11	FW88V FW89W	Dual Pot Lin 100K Dual Pot Lin 220K		QB36P QB37S	BC139 BC140	
YX93B	Stylus Microscope£2.45		et 1M£0.11	FW90X	Dual Pot Lin 470K		QB38R	BC141	
YW83E	Stylus Brush C103£0.12			FW91Y	Dual Pot Lin 1M		QB39N	BC142	£0.34
YW84F	Stylus Brush C97£0.28	Page 192	000 0011	FW92A	Dual Pot Lin 2M2	£0.99	QB40T	BC143	
FR46A	Stylus Cleaner C95£0.80		00R£0.14	FX08J	Dual Pot Log 4K7		QB44X	BC154	
YB55K	Cleaning Kit C116£2.42		220R£0.14 170R£0.26	FX09K	Dual Pot Log 10K		QB48C	BC160	
Page 18	85		K£0.26	FX10L FX11M	Dual Pot Log 22K Dual Pot Log 47K		QB49D QB50E	BC161 BC168C	
FR52G	Anti-Stat Fluid 69S£0.49		K2£0.26	FX11Ni FX12N	Dual Pot Log 100K		QB50E	BC169C	
LX10L	Anti-Stat Mat C119£1.95	WR83E Hor Skeleton	łK7£0.26	FX13P	Dual Pot Log 220K		QB52G	BC177	£0.20
LX04E	Anti-Stat Gun£5.25		0K£0.26	FX14Q	Dual Pot Log 470K	£1.10	QB53H	BC178	
FQ60Q	Spirit Level 44£3.65		2K£0.26	FX15R	Dual Pot Log 1M		QB54J	BC179	
FR49D	Stylus Balance PX1£2.45		FK£0.26 00K£0.26	FX16S	Dual Pot Log 2M2		QB55K	BC182L	
YW85G FR50E	Record Grip C206£1.28 Gram Speed Indicator£0.09		20K£0.26	FX40T FX97F	L/S Control 20R L/S Control 50R		QB561 QB57M	BC183L BC184L	
YW86T	Cassette Kit C115£1.85		70K£0.26	FX97F FX98G	L/S Control 100R		QB58N	BC204	
YB56L	Cassette Kit C107£4.25		M£0.26	FX99H	L/S Control 200R		QB59P	BC209C	
RB04E	Cass Head Clnr C118£1.25	WR91Y Hor Skeleton 2	M2£0.26	YG04E	Rheostat 50R	£4.90	QB60Q	BC212L	£0.10
YW87U	Cleaning Stick C109£0.23		IM7£0.26	YG05F	Rheostat 100R	£4.90	QB61R	BC213L	
YW88V	Tape Cleaning Fluid£0.58		00R£0.24	YG06G	Rheostat 150R		QB62S	BC214L	
Dage 10	86		20R£0.24 70R£0.24	YG07H	Rheostat 200R	£4.90	QB63T	BC301/5	
Page 18 FR54J	Cassette Cleaner Tape£0.55		K£0.24	Page 19	14		QB64U QB65V	BC301/5/302/5 MP BC302/5	
YW89W			K2£0.24	FX32K	Slide Pot Lin 5K	£0.79	QB66W	BC327	
FR62S	Straight Demagnetiser£3.35	WW05F Vrt Skeleton 4	K7£0.24	FX33L	Slide Pot Lin 10K		Q867X	BC328	
FQ62S	Curved Demagnetiser£3.85	WW06G Vrt Skeleton 1	0K£0.24	FX34M	Slide Pot Lin 25K		QB68Y	BC337	£0.15
YW90X	Cassette Splicer£4.25		2K£0.24	FX35Q	Slide Pot Lin 50K	£0.79	QB69A	BC338	£0.15
YW91Y	Splicing Block£1.85		7K£0.24	FX36P	Slide Pot Lin 100K		QB70M	BC441	
LX17T	Splicing Tape£0.65		00K£0.24	FX37S	Slide Pot Lin 250K		QB71N	BC441/461 MP	
RB03D FR60Q	Cassette Case£0.23 Index Cards£1.40		20K£0.24 70K£0.24	FX38R FX53H	Slide Pot Log 5K		QB72P QQ14Q	BC461 BC547	
RB01B	Cassette Fast Winder£2.35		M£0.28	FX53H FX54J	Slide Pot Log 5K Slide Pot Log 10K		QB73Q	BC548	
FR59P	Test Cassette 53£4.98	WW13P Vrt Skeleton 2	M2£0.24	FX54J FX55K	Slide Pot Log 25K		QQ15R	BC549	
YG25C	Cassette Tape C60£0.61	WW14Q Vrt Skeleton 4	M7£0.24	FX56L	Slide Pot Log 50K	£0.79	QQ16S	BC557	£0.11
YG26D	Cassette Tape C90£0.65		£0.98	FX57M	Slide Pot Log 100K	£0.79	QQ17T	BC558	
		WR39N Cermet 500R	£0.98	FX58N	Slide Pot Log 250K	£0.79	QQ18U	BC559	£0.11

Q874R	BC650		YG37S	CL8960		WQ53H	MVAM115		QQ27E	VK10KM	
QF00A QF01B	BCY70		QH30H WQ22Y	Cl060		WQ54J WQ55K	NE531 NE544		QQ28F QQ29G	VK1010 VK1011	
QF03D	BD131		WQ221 WQ23A	CI260		QH66W	NE555		WQ96E	VN46AF	
QF04E	BD131/132 MP		WQ23A WQ24B	C206D		QH67X	NE556		WQ90L WQ97F	VN66AF	
QF05F	BD132		WQ25C	C226D		WQ56L	NE565		WQ98G	VN88AF	
QF06G	BD135		QL14Q	C246D		QH68Y	NE566		QQ11M	VQ1000CJ	
QF75S	BD136	£0.40	QQ01B	DAC0801LCN	£2.45	QH69A	NE567	£1.60	QL37S	W005	£0.33
QF07H	BD139	£0.40	YY82D	DF412		YY87U	NE571	£4.77	QL38R	W01	
QF08J	BD140		QQ21X	DV1202W		YY68Y	NE5534A		QL39N	W02	
WH15R	BD711		QQ22Y	DV1205W		YY67X	NE5539		QL40T	W04	
WH16S	BD712		QQ23A	DV1210W		YG38R	NSM4000A		QL41U	ZN414	
QF09K	BF115		QQ24B	DV1220W		QH70M	0A47		QL42V	ZS120	
QF10L	BF167		QQ25C	DV1230W		QH71N	OA90		QL43W	ZTX107	
QF11M QF15R	BF180 BF200	,	QQ26D	DV1240W ER1400		QH72P QH73Q	0A91 0A95		QL44X QL45Y	ZTX108 ZTX109	
QF16S	BF244		WQ26D WQ27E	ER3401		QH74R	0A200		Q146A	ZTX300	
QF17T	BF258		WQ27E	HSCH1001		QH75S	OA202		QL47B	ZTX301	
QF18U	BF259		YH59P	ICL7109		QH77J	OC28		QL48C	ZTX302	
QF19V	BF337		YY75S	ICL7660CPA		QH78K	OC35		QL50E	ZTX304	
QQ19V	BF494		YY93B	ICM7045IPI		QH82D	0C45		QL54J	ZTX326	
QQ20W	BF495		YY94C	ICM7216DIPI		QH83E	OC70		QL56L	ZTX330	
QF20W	BFW10	£1.43	YY95D	ICM7226BIPI		QH84F	0C71	£0.31	QL57M	ZTX331	£0.28
QF21X	BFX29		YH63T	ICM 7555		QH85G	OC72		QL60Q	ZTX500	
QF22Y	BFX30	£0.35	QH32K	IR122A		QH87U	0C81	£0.42	QL62S	ZTX502	£0.19
QF23A	BFX84		QH33L	IR1220		QH89W	0C83		QL64U	ZTX504	
QF24B	BFX85	£0.31	BH45Y	J005		QH91Y	OC170	£0.95	QL66W	ZTX530	£0.29
QF25C	BFX87		BL36P	J02		QH92A	0C171		QL67X	ZTX531	
QF260	BFX88		BH46A	J04		QH93B	PN3643		QL68Y	ZTX541	
QF27E	BFY50		BH47B	K01		WQ57M	PW01		QL69A	ZTX542	
QF28F	BFY51		BH48C	K04		WQ58N	PW06		QL70M	Z5J	
QF29G QF30H	BFY52 BPX25		YY74R WQ29G	L200 LF347		WQ59P QL00A	R0 3-2513		QW00A QW01B	Z80-CPU Z80-CTC	
QF31J	BRY39		WQ290 WQ30H	LF351		QL00A	SAM77		QW01B QW03D	Z80-PIO	
QF32K	BSX20		WQ3011	LF353		QL02C	SC146D		QW03D QW04E	Z80-SI0	
QF32N	BSX21		YY69A	LF13741		WQ60Q	SFF96364		QL71N	1N914	
QF34M	BSY95A		QH35Q	LH0042C		QL06G	SG1495D		QL71N QL72P	1N916	
QF35Q	BT109		QH36P	LM301A		QL000	SG3402		QL72P	1N4001	
QF37S	BU205		QH37S	LM308		WQ61R	SH120A		QL74R	1N4002	
QF38R	8U206		WQ32K	LM334		YH66W	SL490		QL75S	1N4003	
QF39N	BU208		YY73Q	LM335Z		QL08J	ST2		QL76H	1N4004	
QF41U	BY126		QH38R	LM377		QL09K	S005		QL77J	1N4005	
QF42V	BY127	£0.13	QH39N	LM379S	£5.29	QL10L	S04	£0.52	QL78K	1N4006	£0.06
QF43W	BY164	£0.76	QH40T	LM38C	£0.75	WQ62S	TAA550	£0.35	QL79L	1N4007	£0.07
QF44X	BY206	£0.30	QH41U	LM381	£1.90	QL11M	TAG1/100	£1.45	QL80B	1N4148	£0.04
QF45Y	BZX61C4V7		YY84F	LM382		QL12N	TAG1/600		QL81C	1N5400	
QF46A	BZX61C5V1		WQ33L	LM383		BL35Q	TBA651		QL82D	1N5401	
QF47B	BZX61C5V6		WQ34M	LM384		QL13P	TBA810P		QL83E	1N5402	
QF48C	BZX61C6V2		WQ35Q	LM387		WQ63T	TBA820M		QL84F	1N5404	
QF490	BZX61C6V8		WQ36P	LM389		YY79L	TCA350Z		QL85G	1N5406	
QF50E	BZX61C7V5		YY85G	LM1818		WQ64U	TCA4500A		QL86T	1N5407	
QF51F	B2X61C8V2		YY99H	LM1830		WH20W	TDA1022		QL87U	1N5408	
QF52G	BZX61C9V1		YY71N	LM1871		YY76H	TDA1024		QL88V	18921	
QF53H	BZX61C10		YY72P	LM1872		YY70M	TDA2005M		QH46A	1458C	
QF54J QF55K	BZX61C11 BZX61C12		WQ38R WQ37S	LM2917 LM1820		WQ66W WQ67X	TDA2006 TDA2030		QW05F QR00A	1702 1000ns 2N697	
QF56L	BZX61C13		QH42V	LM3900		YY86T	TDA2030		QR01B	2N706	
QF57M	BZX61C15		WQ39N	LM3909		QH5R	TIP31A		QR03D	2N708	
QF58N	BZX61C16		WQ40T	LM3911		QL16S	TIP32A		QR04E	2N1302	
QF59P	BZX61C18		WQ41U	LM3914		WQ71N	TIP33A		QR05F	2N1303	
QF60Q	BZX61C20		YY96E	LM3915		WQ72P	TIP34A		QR06G	2N1304	
QF61R	BZX61C22		YY97F	LM3916	£3.46	QL17T	TIP41A		QR09K	2N1711	
QF62S	BZX61C24		YH64U	LM13600N	£1.39	QL18U	TIP42A		QR10L	2N1893	
QF63T	BZX61C27	£0.17	YY81C	M083	£4,75	WQ73Q	TIP122	£0.65	QR11M	2N2219	£0.31
QF64U	BZX61C30		WH22Y	M087		WQ74R	TIP127		0R12N	2N2369A	
QF65V	BZX61C33		YY90X	M108		QL19V	TIS43		QR13P	2N2484	
QF66W	BZX61C36		YY91Y	M147		WQ75S	TL170C		QR14Q	2N2646	
QF67X	BZX61C39		HQ71N	M251		WQ76H	TLI72C		QR15R	2N2647	
QF68Y	BZX61C43		QH64U	M252		YY77J	TL430C		QR16S	2N2904	
QF69A QF70M	BZX61C47 BZX61C51		WH21X XL07H	M254 MA1003		YY78K YY88V	TL497A TMS1121		QR17T QR18U	2N2905 2N2906	
QF71N	BZX61C56		XL14Q	MA1023		QL20W	μA709C		QR19V	2N2907	
QF72P	BZX61C62		QH43W	MCR102		BL22Y	μA723C T099		QR20W	2N2926 Orange	
QF73Q	BZX61C68		QH44X	MC1303		QL21X	μA723C 1099 μA723C 14-pin DIL		QR21X	2N2926 Yellow	
QF74R	BZX61C75		QH45Y	MC1310P		QL22Y	μA741C 8-pin DIL		QR22Y	2N2926 Green	
QH00A	BZY88C2V7		QH47B	MC1496		QL23A	μΑ741C 14-pin DIL		QR23A	2N3053	
QH01B	BZY88C3V0		QH48C	MC3302P	08.03	QL24B	μA747C	£0.75	QR24B	2N3054	£0.66
QH02C	BZY88C3V3		QH49D	MC3340P	£1.27	QL25C	μA748C	£0.52	BL45Y	2N3055	
QH03D	BZY88C3V6		_			QL26D	μA78L05AWC		QR25C	2N3525	
QH04E	BZY88C3V9		Page 19		Dicc	WQ77J	μΑ78L12AWC		QR26D	2N3702	
QH05F	BZY88C4V3		QH50E	MC3360P		QL27E	μΑ78L15AWC		QR27E	2N3703	
QH06G	BZY88C4V7 BZY88C5V1		WQ42V	MCM4027 250ns MC6800P		QL28F QL29G	μΑ78M05UC μΑ78M12UC		QR28F	2N3704 2N3705	
0H07H	BZY88C5V6		WQ43W WQ44X	MC6802P		QL29G QL30H	μΑ78M12UC μΑ78M15UC		QR29G QR30H	2N3706	
QH08J QH09K	BZY88C6V2		WQ44X WQ45Y	MC6810AP 450ns		WQ78K	µА78MGU1С		QR31J	2N3706	
QH101	BZY88C6V8		WQ451 WQ46A	MC6821P		0L31J	μA7805UC	£0.78	QR32K	2N3707	
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QH12N	8ZY88C8V2		WQ48C	MC6850P		QL32K	μA7815UC		QW07H	2N3772	
QH13P	BZY88C9V1		WQ49D	MC6852P		WQ79L	μA78GU1C		QR35Q	2N3773	
QH14Q	BZY88C10	£0.09	WQ50E	MC6875L		QL34M	μA7805KC		QR36P	2N3819	
QH15R	BZY88C11		HQ61R	MEL12		QL35Q	μA7815KC	£1.65	QR37S	2N3823	
QH16S	BZY88C12		QH54J	MJE340	£0.75	WQ808	μA78H05KC	£6.49	QR38R	2N3866	
QH17T	BZY88C13	£0.09	WQ51F	MJE350	£1.15	WQ81C	μA78H12KC	£6.49	QR39N	2N3903	£0.17
QH18U	BZY88C15		QH55K	MJE2955 = TIP2955		WQ82D	μΑ78H15KC		QR40T	2N3904	
QH19V	BZY88C16		QH56L	MJE3055 = TIP3055		WQ83E	μA78HGKC		QR41U	2N3905	
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QH21X	BZY88C20		BL38R	MJ2955		WQ85G	μΑ79L05AWC		QR43W	2N4058	
QH22Y	BZY88C22		QH58N	MJ3001		WQ86T	μΑ79L12AWC		QR44X	2N4060	
QH23A QH24B	BZY88C24 8ZY88C27		YY92A YH67X	MK50395 ML922		WQ87U WQ88V	μΑ79L15AWC μΑ79M05UC		QR45Y	2N4061 2N4062	
QH24B QH25C	BZY88C30		YH68Y	ML928		WQ89W	μΑ79M12UC		QR46A QR47B	2N4062 2N4871	
QH260	CA3046		YH69A	ML929		WQ90X	μΑ79M15UC		QR49D	2N5458	
YH58N	CA3080E		QH59P	MPF102		WQ90X WQ91Y	μA79MGU1C		QR50E	2N5459	
QH27E	CA3089E		QH60Q	MPSA14		WQ92A	μA7905UC		QR51F	2N6073	
QH28F	CA3130T		QH61R	MPSA65		WQ93B	μA7912UC		QW08J	2N6609	
QH29G	CA3140T	£0.99	QH62S	MPS3638		QL36P	μA7915UC		QQ30H	2SA872	£0.30
WQ20W	CA3189E	£1.95	0H63T	MPS3638A	£0.18	WQ94C	μA79GU1C	£1.25	QQ31J	2S8716	£0.30
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Page 198	QW38R	4055 BE	£0.85	QX77J	7409	£0.34	YF60Q	74LS156	£0.57	QH36P LM301A	£0.27
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DX23A 4066 BE	QW40T	4060 BE	£1.20	QX44X	7411	£0.24	YF63T	74LS160	£0.72		
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BR02C	5W Amp PCB	£1.45				WQ59P	R0-3-2513	£8.95	Page 27	70	
YY70M	TDA2005M	£8.25	Page 24		C2 00	YH38R	8038 CCPD	£4.69	YW54J WF24B	15W Cone Tweeter	
Page 230	1		FY90X YY93B	Crystal 6.5536 MHz ICM7045IPI		Page 26	2		WF33L	Multi-Cell Tweeter Free Stand Tweeter	
WQ67X	TDA2030		QB25C	AY-5-1230	£5.27	YQ65V	8038 PCB		WF43W	Dome Tweeter	£5.45
	15W Amp Kit 15W Amp PCB		Page 24	a		QW80B QQ01B	4151 DAC0801LCN		WF44X WF02C	Rectangular Tweeter Crossover 2-Way	
	15W Amp Bracket		YY88V	TMS1121	£8.95	QQ01B QQ00A	ADC0804LCN		WF02C WF03D	Crossover 3-Way	
YQ38R	30/2 PSU PCB	£1.40	YY92A	MK50395		YH59P	ICL7109	£16.55		•	
YQ37S	15W Amp Module	£6.49	QB26D	AY-5-4007D	£6.90	WQ38R	LM2917	£2.29	Page 27 WF45Y	71 Escutcheon Crossover	C4 00
Page 231			Page 25	0		Page 26	3		WF46A	Controlled Crossover	
WQ66W	TDA2006		YY94C	ICM7216DIPI		YQ67X	LM2917 PCB		WF47B	Low-Cost 4in Speaker	£1.98
	MC1303		YY95D YH63T	ICM7226BIPI		QW94C	7106		WB27E	Rd Speaker CM420	
	LM381LM381 PCB		111031	ICM7555	£1.25	QW95D BY76H	7107 7106/7 PCB		YW55K YW56L	Plastic Car Grille Metal Car Grille	
5.10 12	2.1100 02.11.11.11.11.11.11		Page 25	1		WR29G	Transkt 3 lead T018		WF48C	Heavy Duty Car Speaker	
Page 232			QH66W	NE555		WR30H	Transkt 4-Lead T018		WF50E	Elliptical Speaker CM641	
	LM382 NE571		QH67X QH68Y	NE556		WR31J WR32K	Transkt 3-Lead T05 IC Socket 8-Lead		WF18U WF23A	Elliptical Speaker CM742	
	TDA3410		WQ56L	NE565		WR33L	IC Socket 10-Lead		WY13P	Elliptical Speaker CM852 Elliptical Speaker LT853	
	LM387										
D 000			Page 25		04.60	Page 26		00.00	Page 27		00.05
Page 233 QH49D	MC3340P	£1 27	QH69A WQ39N	NE567 LM3909		WR24B WR25C	Kit T03 Kit T066		WF00A WF52G	Rd Speaker LT530 Rd Speaker LT610	
	LM1818		YY76H	TDA1024		WR27E	Kit S055		WF08J	Rd Speaker CM820	
	AY-1-0212		YH43W	8211 CPA		WR26D	Kit TO 126		WF11M	Rd Speaker LT830	£7.30
	M083 M087		WQ32K YH39N	LM334 8069 DCQ		WR23A	Kit (P) Plastic		WF12N	Rd Speaker LT840	
VVIIZZI	10007		WQ62S	TAA550		BL17T BL18U	DIL Socket 8-pin DIL Socket 14-pin		WF53H WY15R	20W Squawker40W Squawker	
Page 234						BL19V	DIL Socket 16-pin		XQ77J	Fane 50 4R	
	AY-1-5050		Page 25		04.05	HQ76H	DIL Socket 18-pin		XB26D	Fane 50 8R	
	Piano IC Kit AY-1-1320		YY78K YY77J	TL497A TL430C		HQ77J HQ78K	DIL Socket 20 pin DIL Socket 22 pin		XQ78K XB27E	Disco 80 4R Disco 80 8R	
	M251		YY75S	ICL7660CPA		BL20W	DIL Socket 24-pin		XQ79L	Forte 1250TC 8R	
tQH64U	M252	£8.95	XX02C	4195		BL21X	DIL Socket 28-pin	£0.24	XQ80B	Forte 1250TC 16R	
	M254		XX04E	15V Supply PCB		HQ38R	DIL Socket 40-pin		XQ81C	Forte Cl285TC 8R	
YY90X	M108	£18.25	BL22Y QL21X	μA723C T099 μA723C 14-pin DIL		YX50E XX14Q	ZIF Socket 24 Way Soidercons		XQ82D	Forte Cl285TC 16R	£28.45
Page 235	;		QLZIX	p/1/200 14 pii/ biz		YG27E	Header 14-pin		Page 27	73	
	M147		Page 25			YG28F	Header 16-pin	£0.63	XQ83E	C15 Bass 8R	
	AY-3-1350 TDA1022		YQ39N YQ40T	0.1A Reg PSU PCB 0.5/1A Reg V PSU PCB		YG29G	Header 24-pin		XQ84F	C15 Bass 16R	
	76489		YQ41U	0.5/1A Reg -V PSU PCB		FR25C	Insertion Tool	£0.80	XB28F XQ05F	Power L/S Cabinet 15 inch Power Cab	
			YQ54J	0.5/1A Vareg Pos PCB		Page 26	5		AF33L	Mini Speaker System	
Page 236			YQ55K	0.5/1A Vareg Neg PCB		FL56L	Transistor Cover		AF34M	5W Speaker in Cab	
	TCA350Z76477		YY74R	L200	£2.69	HQ79L	Heatsink 92F		AF35Q	15W Speaker Pair	£33.50
	Sound Effects PCB		Page 25	6		HQ80B FL78K	Heatsink 18F Heatsink Clip-On		Page 27	74	
			QQ02C	6502		WR34M	T05 Chassis Heatsink		AF31J	20W Speaker Pair	£63.00
Page 238		00.05	WQ43W	MC6800P MC6802P		FL59P	Vaned Heatsink T03		AF32K	PA Speaker in Cab	
	SH120A CA3089E		WQ44X WQ46A	MC6821P		FL58N FL57M	Vaned Heatsink Plas Pwr. Vaned Heatsink IC		XY79L YL15R	Ceiling Speaker Bracket Minor 5	
	CA3189E		WQ48C	MC6850P		HQ70M	Heatsink 2E		YL16S	Bracket Bek 100	
_			WQ49D	MC6852P		FL41U	Heatsink 4Y		WY14Q	Speaker Selector	
Page 239 WQ37S	LM1820	£1 80	WQ50E QW00A	MC6875L Z80 CPU		HQ69A	50W Hi-Fi Heatsink	£1.95		SWITCHES	
	TBA651		QW00A	Z80 PI0		Page 26	6		Page 27		
WQ64U	TCA4500A	£3.35	QW04E	Z80-SI0	£19.00	HQ81C	8W Hi-Fi Heatsink	£1.17	FH97F	SPST Ultra Min Toggle	£0.66
QH45Y	MC1310P	£2.30	QW01B	Z80-CTC	£4.50	FL42V	Flat Heatsink		FH98G	SPDT Ultra Min Toggle	
BR03D	Decoder PCB	£1.72	Page 25	7		FL54J FL55K	Heatsink 10DN Heatsink 10DNDR		FH99H FH00A	DPDT Ultra Min Toggle Sub-Min Toggle A	
Page 240			YH40T	8080A	£4.95	FL77J	Heatsink 6W-1		FF70M	Sub-Min Toggle J	
	AY-3-8115		YH41U	8085A		YB26D	Heatsink 60DN		FH01B	Sub-Min Toggle B	
QL41U	ZN414	£1.25	YH46A YH47B	8224 8228		FL79L HQ00A	Thermpath Small Thermpath		FH02C FH03D	Sub-Min Toggle C Sub-Min Toggle D	
Page 241			YH50E	8255A		WY08J	Standard Fan		FH04E	Sub-Min Toggle E	
	MC1496		YH49D	8251					FF71N	Sub-Min Toggle K	£2.35
	SG1495D SG3402		YH48C	8250		D 00	SPEAKERS		FH05F	Sub-Min Toggle F	
	CA3046		YH51F YH44X	8279 8212		Page 26 HY12N	Ultrasonic Transducer	£6.20	FH06G FH07H	Sub-Min Toggle G Sub-Min Toggle H	£1.10 £1.25
			YH45Y	8216		FL39N	Buzzer 6V		FF72P	Sub-Min Toggle L	
Page 242		C2 2E	YH34M	8T28		FL40T	Buzzer 12V		FH08J	4-Pole SM Toggle	£2.35
	SL490 ML922		YH35Q YH36P	8T95 8T97 = 74LS367		FL38R FL37S	AC Bell Bell X Former		FH39N	Toggle Switch	
			YH37S	8T98		FQ08J	Bell Push		YL01B FH10L	Toggle Switch Cover Std Toggle SPST	
Page 243		00.40	WQ19V	AY-5-2376		FQ09K	Nameplate Bell Push	£0.55	FH11M	Std Toggle SPDT	£0.57
	ML928 ML929		Page 25	8		YB25C	Baby Siren		FH12N	Std Toggle DPDT	
	LM1871		WQ18U	AY-5-1013A	£5.98	LH96E LH97F	Plastic Siren Star War Siren		FH16S FH17T	H/D Toggle Type 1 H/D Toggle Type 4	
	LM1871 Xmitter PCB		QQ04E	6402	£5.80				FH18U	H/D Toggle Type 7	
Dogo 244			WQ60Q	SFF96364		Page 26			FH19V	H/D Toggle Type 8	
Page 244 YY72P	LM1872	£5.20	QQ03D YH31J	MC6845 5101-L1		LH98G XQ71N	Hawaii Five-0-Siren Re-entrant Horn Sounder		FH20W	H/D Toggle Type 9	£4.30
	LM1872 Receiver PCB		QW11M	2102 450ns		XQ71N	Megaphone		Page 27	76	
	NE 544		WQ45Y	MC6810AP 450ns		XY76H	Pistol Grip Megaphone	£44.95	FH13P	Duck Bill Toggle	£0.55
	Servo Driver PCB TL172C		QW12N QQ05F	2114 450ns		XQ73Q	Car PA 8W		FH14Q	Long-Arm Toggle Locking	
WQ/OII	11.17.20	20.70	WQ42V	4118 250ns MCM4027 250ns		XQ74R	Car PA 15W	£12.95	FH15R YX56L	Long-Arm Toggle Flasher Chrome Bar Toggle	
Page 245						Page 26			YX64U	Min Rocker SPST	£0.69
	TL170C CL8960		Page 25		C420	YW52G	2m Piezo Tweeter		YX65V	Min Rocker DPDT	£1.15
	LM183C		QW93B QQ06G	4116 250ns4164 250ns		WF54J WF09K	Direct Rad Piezo Piezo Horn Flush		FH21X FH22Y	Hekla Switch Black Hekla Switch Blue	
YY73Q	LM335Z	£1.23	QW05F	1702 1000ns		WF55K	Piezo Horn Recessed		FH23A	Hekla Switch Green	
WQ40T	LM3911	£13.10	QW13P	2708 450ns	£2.75	WF56L	Wide Angle Piezo	£7.90	FH24B	Hekla Switch Luminous	DISC
Page 246			QQ07H	2716 450ns	£3.23	LB23A	Mag Earpiece 2.5 mm		FH25C	Hekla Switch Red	
	AY-3-1270	£8.30	Page 26	0		LB248 LB25C	Mag Earpiece 3.5 mm Crystal Earpiece		FH26D FH27E	Hekla Switch White Hekla Switch Yellow	
WQ41U	LM3914	£2.41	QQ08J	2732 450ns		YW57M	Stethoscope	£0.75	FH30H	SPST Rocker	
	LM3915		QQ09K	2764 450ns		WB04E	L/S lo Z 388	£0.85	FH31J	SPOT Rocker	£0.49
	LM3916 LM3914 PCB		XY84F XY85G	SoftySofty PSU		WB05F	L/S Lo Z 458 L/S Lo Z 508		YR68Y	Rocker Neon	
		.	XY83E	EPROM Eraser		WB08J W809K	L/S Lo Z 568		YR69A FH34M	Rocker Switch DP DPDT Rocker	
Page 247		00.05			-	WB13P	L/S Lo Z 668	£0.89	YR70M	Dual Rocker Neon	
					CO 00	WF57M			XX26D	DIL Switch SPST Dual	£1.20
	AY-5-1224					i					
	4 Dig Clock PCB A		YH52G			VVI JOIN	o mon i wooldi		XX28F XX29G		
YY82D QB248		£6.45 £3.30		WQ26D WQ27E	WQ27E ER3401	WQ26D ER1400£9.99 WQ27E ER3401£19.58	WQ26D ER1400£9.99 YW53H WQ27E ER3401£19.58 WF58N	WQ26D ER1400£9.99 YW53H L/S Lo Z 768 WQ27E ER3401£19.58 WF58N 3 inch Tweeter	WQ26D ER1400£9.99 YW53H L/S Lo Z 768£0.99 WQ27E ER3401£19.58 WF58N 3 inch Tweeter£1.45	Page 261 WF57M H-Z L/S 64 R	Page 261 WF57M H-Z L/S 64 R. £0.99 XX26D DIL Switch SPST Dual WQ26D ER1400. £9.99 YW53H L/S Lo Z 768. £0.99 XX27E DIL Switch SPST Octl WQ27E ER3401. £19.58 WF58N 3 inch Tweeter. £1.45 XX28F DIL Switch SPDT Single

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Page 27	7	BW14Q FH61R	Sm Latch Button Chrome Ret Latch Button Black		LH80B LH94C	Clamp Meter DMM200		FY49D FY50E	Needle File Flat Ward Needle File Hand	
FF73Q	Rotary SW12B£0.70	FH62S	Ret Latch Button Grey		LH95D	DMM100		FY51F	Needle File Half Round	
FF74R	Rotary SW6B£0.70	FH63T	Ret Latch Button Red					FY52G	Needle File Round	
FF75S	Rotary SW4B£0.70	FH64U	Ret Latch Button White		Page 29			BR63T	Junior Hacksaw	
FF76H	Rotary SW3B£0.70	FH87U	Magic Light Button Bi		YL12N	HV Probe		BR64U	6m Hacksaw Blades	
FH42V FH43W	Rotary SW12£0.70 Rotary SW6£0.70	FH88V FH89W	Magic Light Button Green. Magic Light Button Orange		YL13P YL14Q	Shunt 25A Shunt 100A		FY54J FY55K	Wire Brush Wet & Dry Fine	
FH44X	Rotary SW4£0.70	FH90X	Magic Light Button Yellow		XY75S	Ham Multimeter		FY56L	Wet & Dry Med	
FH45Y	Rotary SW3£0.70	BW15R	Latch Bush Blue		WY18U	SWR Meter 310		FY57M	Wet & Dry Course	
FF83E	Thumb Wheel Decimal£4.95	BW16S	Latch Bush Green					HX04E	Polish Block	
FF84F	Thumb Wheel BCD£4.55	BW17T	Latch Bush Orange		Page 29		04475	FY02C	Utility Knife	
FF86T	Thumb Wheel Mounting Kit£1.35	BW18U	Latch Bush Yellow	£0.39	WY19V	SWR Meter 110		FY03D	Retractable Knife	
YR77J YR78K	Push Wheel BCD£5 45 Push Wheel Spacer£0.48	Dogo 2	00		WY20W WY21X	Transtest UH74 SWR Meter 178		FY04E YW64U	Knife Blades Snap-Off Blade Knife	
YR79L	Push Wheel End Cheeks£0.46	Page 2 YX94C	Ultra Min Relay SPDT	£0.83	YB04E	Grid Dip Meter		10040	Snap-On Blade Knile	£0.99
FH40T	Key Switch£3.60	YX95D	Ultra Min Relay DPDT		.50.2	ond bip motorminini		Page 30)2	
FH57M	Rotary Mains£0.75	YX96E	3A Min Relay			TOOLS		FY05F	Scalpel Handle	£1.75
FH95D	Roller Micro-switch£1.15	YX97F	10A Mains Relay	£1.65	Page 29			FY06G	Scalpel Bid Type 2	£0.46
	_	YX98G	5A Mains Relay	£3.20	LH15R	Hobby Box		BR59P	Punch 3/8 in	
Page 27		D 0	0.4		FR22Y BR48C	Storage Drawer Hex Trimmer		BR60Q	Punch 7/16 in	
FH46A FH47B	Maka Shaft£1.10 Maka Wafer 1P 12 way£1.06	Page 2 YX99H	12V 30A Relay	£2 15	BR51F	Trim Tool		BR61R BR62S	Punch ½ in Punch 9/16 in	
FH48C	Maka Wafer 2P 6 way£1.06	FX23A	Open Relay 6V		BR49D	Preset Trimmer		BR80B	Punch 5/8 in	
FF81C	Maka Wafer 2P 9 way£1.25	FX24B	Open Relay 12V		BR50E	Trim TT5		BR81C	Punch ¾ in	
FH50E	Maka Wafer 4P 3 way£1.10	FX26D	2p Sub Mm Relay 6V		FY07H	Min Screwdriver Set	£0.85	BR83E	Punch 1 in	
FH51F	Maka Wafer 6P 2 way£1.17	FX27E	2p Sub Mm Relay 12V		BR58N	Jewellers Screwdriver Se		BW00A	Punch 1½ in	£6.49
FH52G	Maka Wafer 1P 12 way MB£0.75	tFX28F	2p Sub Mm Relay 24V		BR79L	Interchangeable Driver Se		FY53H	Mini Vice	
FH53H	Maka Wafer 2P 6 way MB£1.05	FX30H	4p Sub-Min Relay 12V	£3.95	YW60Q	Mm Tool Set		LH79L	Reliant Kit	
FF82D FH54J	Maka Wafer 2P 9 way MB£0.29 Maka Mains£0.63	Page 2	25		FY08J	Utility Set	L4.49	BW03D BW02C	Reliant Drill	
FH55K	Maka Screen£0.05	HY20W	Relay Flat 12V	£2 43	Page 29	7		YW65V	Titan Drill Mini Mains Drill	
FF87U	Click Switch£0.30	FX48C	Power Relay 12V		YX74R	Min Screwdriver	£0.10	XB12N	Drill Stand	
FF88V	Click Cap Black£0.18	FX49D	Power Relay 230V AC		BR52G	Small Screwdriver	£0.34	BR84F	Reliant Collar	
FF89W	Click Cap Blue£0.18	YB89W	Car Relay Single	DIS	8R53H	Large Screwdriver		BW04E	Drill Power Supply	
FF90X	Click Cap Green£0.18	FX50E	Reed Relay 6 to 9V		YG24B	Driver S2				
FF91Y	Click Cap Grey£0.18	FX51F	Reed Relay 9 to 12V		FY10L FY12N	Driver S3 Driver S5		Page 30		00.40
FF92A FF93B	Click Cap Ivory£0.18 Click Cap Red£0.18	FX73Q FX74R	Reed Relay 12 to 18V Reed Relay 18 to 30V		FY12N FY13P	Driver S5 Driver S6		BR65V BR66W	Twist Burr 0.8 mm Twist Burr 1.4 mm	
FF94C	Click Cap White£0.18	17/41	Need Nelay TO to 30V		FY15R	Pozidriver P1		BR85G	HS Twist Drill 0.8 mm	
FF95D	Click Cap Yellow£0.18	Page 2	86		FY17T	Pozidriver P2		BR86T	HS Twist Drill 1 mm	
FF61R	Keyboard Switch£0.23	FX88V	DIL Reed Relay 1p 5V	£1.95	BR71N	Mains Tester		BR87U	HS Twist Drill 1.4 mm	
FF62S	Key Top 1 Position£0.18	FX89W	DIL Reed Relay 1p 2V	£2.15	LH75S	Spiral Driver	£4.25	YY28F	Long Life Drill 1 mm	
FF63T	Key Top 2 Position£0.38	FX90X	DIL Reed Relay 2p 5V		YW92A	Ratchet Socket Set		LH77J	20 Piece Tool Kit	
FF64U	Key Top 3 Position£0.56	FX91Y	DIL Reed Relay 2p 2V		WY04E	Cushion Grip Driver Set		LH78K	40 Piece Tool Kit	
FF65V	ASCII Transparency£1.35	FX92A	DIL Reed Relay 1p C/0 5V.		FY19V BR75S	Low Cost Min Cutters		LH76H	Wishbone Sharpener	
YR71N	Switch Contact Sheet£1.49	FX93B FX68Y	DIL Reed Relay 1p C/0 12\ Reed SW Standard		DK/ 33	Ins Min Cutters	L0.93	YW66W HQ02C	Pin Drill HS Drill 1/16 in	
Page 27	9	FX69A	Reed SW Compact		Page 29	18		HQ03D	HS Drill 5/64 in	
FF77J	SP Slide£0.12	FX70M	Reed SW Miniature		BR70M	Box Joint Min Cutter	DISC	HQ04E	HS Drill 3/32 in	
FH35Q	Sub Min Slide£0.15	FX71N	Magnet Small		FY20W	Box Joint End Cutter	£5.60	HQ05F	HS Drill 7/64 in	
FF79L	Long Chrome Slide£0.22	FX72P	Magnet Large		FY21X	Low-Cost Cutters		HQ06G	HS Drill 1/8 in	£0.29
FH36P	Std Slide Switch£0.15	HB13P	Sw Former Stan One		FY76H	Large Low Cost Cutters		HQ07H	HS Drill 9/64 in	
FH38R	4 Pole Slide£0.69	HB17T	Sw Former Min One		BR74R	Side Cutters		HQ08J	HS Drill 5/32 in	
YR67X FH59P	HQ Push Switch£0.39 Push Switch£0.17	HB15R	Sw Former Comp One	£0./5	FY22Y BR72P	Box Joint Side Cutters Side Cutters S55		HQ09K	HS Drill 11/64 in	
FH60Q	Break Push£0.23		TEST GEAR		FY23A	High Leverage Cutter		HQ10L HQ11M	HS Drill 3/16 in HS Drill 13/64 in	
FH91Y	Motor Start Press£0.43	Page 2			YW67X	Tweezers		HQ12N	HS Drill 7/32 in	
FF96E	Square Push Black£0.77	HF19V	Test Prod Black	£0.45	FY24B	Low Cost Min Pliers	£4.60	HQ13P	HS Drill 15/64 in	
FF97F	Square Push Green£0.77	HF20W	Test Prod Red	£0.45	BR78K	Ins Min Snipe		HQ14Q	HS Drill 1/4 in	£0.75
FF98G	Square Push Red£0.77	YX57M	Min Probe Black		BR69A	Box Joint Min Pliers		HQ15R	HS Drill 17/64 in	
FF99H	Square Push Yellow£0.77	YX58N	Min Probe Blue		BR77J	Bright Pliers		HQ16S	HS Drill 9/32 in	
YW41U	Square Push Lock Black£0.75	YX59P YX60Q	Min Probe Green Min Probe Red		FY25C FY26D	Low Cost Pliers Box Combined Pliers		HQ17T	HS Drill 19/64 in	
YW42V YW43W	Square Push Lock GreenDISC Square Push Lock Red£0.75	YX61R	Min Probe Yellow		11200	DOX COMBINED FILETS	20.00	HQ18U HQ 19V	HS Drill 5/16 in HS Drill 21/64 in	
YW44X	Square Push Lock Yellow£0.75	HF21X	Probe Clips		Page 29	9		HQ20W	HS Drill 11/32 in	
FH41U	Pushlock SPCO£1.20	HF30H	Pistol Probe Black		FY27E	Low-Cost Long Pliers		HQ21X	HS Drill 23/64 in	
FH66W	Pushlock DPCO£1.45	HF31J	Pistol Probe Red		BR92A	Combination Pliers		HQ22Y	HS Drill 3/8 in	£1.49
FH94C	Pressil Switch£0.28	HF22Y	Low Cost Test Probe		BR73Q	Long Snipe Pliers		HQ23A	HS Drill 25/64 in	
	_	HF32K	Moulded Test Probe		BR90X	Box Radio Pliers Low Cost Electrician Plier		HQ24B	HS Drill 13/32 in	
Page 28		HF33L YR94C	4 mm Test Probe AVO type Test Lead		FY28F FY29G	Low Cost HD Pliers		HQ25C	HS Drill 27/64 in	
FH92A FH93B	Press Toe Switch Type 1£1.20 Press Toe Switch Type 2£1.95	YR93B	Test Lead Kit		BR91Y	Electricians Pliers		HQ26D HQ27E	HS Drill 7/16 in HS Drill 29/64 in	
LB64U	Foot Switch 2.5 mm Jack£4.25	FY73Q	Logic Probe		FY30H	Pincers		KQ28F	HS Drill 15/32 in	
FH37S	Mains Push£1.10		-		FY31J	Crimp Tool		HQ29G	HS Drill 1/2 in	£2 75
LB91Y	Flasher Unit 2-Way£4.95	Page 2			BR76H	End Action Strippers		FY58N	Round Tape Rule	DISC
LQ00A	Beginners Morse Key£1.90	FY88V	Continuity Probe		BR93B	Wire Strippers 3A		FY59P	Retractable Rule	
LQ01B	Professional Morse Key£5.40	FL61R BW05F	Signal Injector Scope Probe BNC		BR94C BR95D	Wire Strippers 8B Wire Strippers 9		FY60Q	Feeler Gauge Imp	
HY00A HY01B	Touch Pads Rectangle£0.22 Touch Pads Triangle£0.27	BR89W	Scope Probe 4 mm		BR96E	Shipmaster		FY61R	Feeler Gauge Metric	£0.97
YR88V	Solenoid 12V£4.75	FY74R	IC Test Clip		BR97F	Blade L5361		Page 30	04	
YR89W	Solenoid 240V AC£4.85	YB21X	Safe Bloc		XXI1M	Blade L4421		FY62S	Iron CX	£5.95
		YR95D	Lo-Cost Scope Probe					FY63T	Element CX	
Page 28		_			Page 30			FR30H	Bit 6/1106	£0.89
FH67X	Latch Switch 2-pole£0.46	Page 2		Disc	FY32K	Hand Wrap Tool		FY64U	Bit 1100	
FH68Y	Latch Switch 4-pole £0.59	XB82D XB83E	Calscope Super 6 Scopex 14D-10		HY16S HY17T	Vero-wire Pen Vero-wire Spool		FY65V	Bit 1101	
FH69A FH70M	Latch Switch 6-pole£0.99 Latch Switch 8-pole£1.45	VDOOF	300pox 17D-10		FY33L	Vero-wire Comb		FR31J FY66W	Bit 7/1101 Bit 1102	
FH71N	Latch Switch 10 pole£1.25	Page 2	90		FY34M	Allen Keys AF		FY67X	Bit 1103	
BW11M	Latch Soft 2 pole£0.60	XY05F	500 MHz Frequency Count		FY35Q	Allen Keys Metric		FR01B	Element Type CN	
BW12N	Latch Soft 4 pole£1.20	LH05F	Transistor Tester HFE	£15.20	YR82D	Mm Spanner Set	£2.10	FR02C	Handle Type CN	£0.85
FH72P	Latch Dummy£0.32	YB82D	LCR Bridge		FY36P	Mm Spanner 24		FR03D	Bit 102	£0.84
FH74R	Mains Latch Switch£1.49	YB81C	Seesure Signal Gen		FY37S	Mm Spanner 68		FR04E	Bit 104	
FH75S	Latch Bracket Single£0.13	YW93B FL60Q	Low Cost Multimeter Pocket Multimeter		FY38R FY39N	Ring Spanner 02 Ring Spanner 46		FR05F	Bit 106	
FH76H FH78K	Latch Bracket 2-way£0.38 Latch Bracket 4-way£0.39	1 LUUU	r oonet munimicicl		YW61R	Box Spanner Set		FR06G	Bit 820	
FH80B	Latch Bracket 6-way£0.55	Page 2	91		YW62S	PSD6 Spanner Set		FR07H FR08J	Bit 821 Bit 822	
FH82D	Latch Bracket 8-way£0.59	YB83E	Small Multimeter	£15.95	FY45Y	Crescent Wrench 160		FR12N	Iron X25	
FH84F	Latch Bracket 10-way£0.69	YW68Y	Multimeter Type 320	£16.25	FY46A	Crescent Wrench 210		FR13P	12V Iron MLX12	
		LH93B	Taut-Band Multimeter		_			FR14Q	Element X25	£2.75
Page 28		YB87U	100K Multi-tester	£44.00	Page 30		04.05	FR15R	Element MLX12	
FL31J	Rd Latch Button Black£0.14	Page 2	92		FY40T FY41U	Box Spanner 2BA Box Spanner 4BA		FR16S	Bit No 50	
FL32K FL33L	Rd Latch Button Green£0.14	YB84F	Micro-test 80	£19 09	FY41U FY42V	Box Spanner 4BA Box Spanner 6BA		FR17T	Bit No 51	
FL33L FL34M	Rd Latch Button Grey£0.14 Rd Latch Button Red£0.14	YB85G	Super-tester 680G		FY43W	Box Spanner 8BA		FR18U FR20W	Bit No 52 Stand ST3	
FL35Q	Rd Latch Button White£0.14	YB86T	Super-tester 680R		FY44X	Quick Grips		FR11M	Sponge	
FL36P	Rd Latch Button Chrome£0.22				FY47B	Adjustable Wrench	£3.20	FY68Y	Kit SK3	
BW13P	Sm Latch Button Black£0.11	Page 2	93		YW63T	Needle File Set		1		
DWIJI										

Page 30	05	Page 308	HX18U Choke 7.5 mH£0.66	HX80B Trans Coil 3T Yellow£2.20
FY69A	Kit SK4£8 45	LB40T 9.5 Coil Former£0.60	HX19V Choke 10 mH£0.29	HX89W Trans Coil 4T Blue£2.17
WY05F	Rechargeable Iron£26.95	LB17T Former 351£0.24	HX22Y Choke RFC5£2.10	HX90X Trans Coil 4T Red£2.17
YX67X	B50 Bit Round£2.95	LB18U Former 450£0.16	HX23A Choke RFC9A£2.20	HX91Y Trans Coil 4T White£2.45
YX68Y	B50 Bit Angled£3.45	LB19V Former 722/1£0.13	WH25C Choke 0.22µH£0.48	HX92A Trans Coil 4T Yellow£2.20
YX69A	B50 Bit Flattened£3.65	LB20W Former 722/2£0.13	WH27E Choke 0.47µH£0.53	HX93B Trans Coil 5T Blue£1.70
YX70M	B50 Lamp£0.85	LB21X Former 722/8£0.13	WH29G Choke 1.0µH£0.45	HX94C Trans Coil 5T Red£2.17
YX71N	B50 Holder£0.62	LB22Y Former 722/4'£0.13	WH30H Choke 1.5μH£0.45	HX95D Trans Coil 5T White£2.11
YX72P	B50 Sponge£0.29	LB41U Dust Core Type 4£0.10	WH31J Choke 2.2μH£0.45	HX96E Trans Coil 5T Yellow£2.16
FR10L	Heat Sink Tweezers£0.19	LB42V Dust Core Type 6£0.11	WH32K Choke 3.3µH£0.45	
FR23A	Solder Sucker£4.50	LB43W Dust Core Type 8£0.17	WH33L Choke 4.7μH£0.49	Page 312
FR24B	Sucker Tiplet£1.55	LB44X Former Base£0.12	WH34M Choke 6.8μH£0.55	HX82D Min Tr LT44£0.55
FR26D	Desolder Tool£7.25	LB36P Screening Can 10£0.10	WH35Q Choke 10.0µH£0.45	LB14Q Mm Tr LT700£0.55
HY13P	Desolder Nozzle Type 2£0.89	LB37S Screening Can 13DISC	WH36P Choke 15.0µH£0.61	YR91Y Mm Tr LT800£0.33
FR63T	Desolder Washer Type 2£0.24	LB39N Screening Can 15£0.14	WH37S Choke 22.0µH£0.48	WB00A Sub-Min Tr 6V£1.30
FR27E	Desolder WasherDISC	LB38R Screening Can 14DISC	WH38R Choke 33.0µH£0.48	WB01B Sub-Min Tr 9V£1.30
FR28F	Desolder Nozzle£1.55	LB62S A/P Beads£0.35	WH39N Choke 47.0µH£0.48	WB02C Sub-Min Tr 12V£1.40
FR29G	Solda-Mop£0.90	HX05F Small Pot Core£1.30	WH41U Choke 100µH£0.54	WB06G Min Tr 6V£3.15
FR21X	Solder D622£0.75	HX06G Core Type 2£1.45	WH45Y Choke 470µH£0.55	WB11M Min Tr 9V£4.25
FY70M	1/2 kg Reel Solder£10.85	"	WH47B Choke 1 mH£0.75	WB10L Min Tr 12V£3.35
FY71N	Alum Solder 1m Pack£0.43	Page 309	HX29G Crystal Set Coil PCC1£1.95	WB15R Min Tr 15V£3.35
		HX07H Bobbin Type 2£0.75	, in the second	LY03D Tr 10VA 15V£4.95
Page 30	06	HX08J Clips Type 2£0.04	Page 311	WB16S Min Tr 20V£3.35
FY72P	Conductive Paint£5.35	HX09K Type 3 Core£1.85	HX42V Toko YRCS 11098£0.46	WB20W Min Tr 24V£3.35
LH04E	Freeze it£1.75	HX10L Type 3 Bobbin£0.42	YG30H Toko YRCS12374£0.44	WB21X Min Tr 36VDISC
LH03D	Switch Cleaner£1.82	HX11M Type 3 Clips£0.04	HX43W Toko YHCS 11100£0.46	WB25C Tr 12V 1A£6.55
YB77J	Servisol£1.66	HX12N Large Pot Core£0.99	YG31J Toko CSK3464£0.47	WB26D Tr 12V 2A£7.75
LH02C	Aero Klene£1.55	HX13P Bobbin Type 4£0.10	YG32K Toko YMCS17104£0.47	WB03D Tr 9V 1 1/2A£6.25
YB73Q	Aero Duster£1.75	HX14Q Mounting System Type 4£0.89	HX97F Toko ACS 34342£0.59	WB12N Tr 20V 1A£8.25
YB74R	Silicone Grease£1.98	HW23A GE Coil L15£1.95	HX98G Toko ACS 34343£0.46	WB17T Tr 28V 1 1/2A£9.95
YB75S	Plastic Seal£1.55	HX58N GE Coil L9£2.20	YG39N Toko KAC8448£0.48	XB38R Tr 32032/6 1/2A£23.2
YB76H	Foam Cleanser£2.35	HX57M GE Coil L8£2.20	YG36P Toko KAC8449£0.46	HX59P Transformer Mounting Plate£0.66
YB78K	Excel Polish£1.70	HW24B GE Coil L14£1.90	LB00A IFT 13£1.48	
YB79L	Anti-Static Spray£1.45	HX56L GE Coil L7£2.20	LB01B IFT 14£1.75	Page 313
YB80B	Fire Extinguisher£4.85	HX55K GE Coil L6£2.20	LB03D IFT 16£1.72	WB07H Tr 34V 1A£7.85
FL43W	Evostik Impact£0.99	HX54J GE Coil L5£2.25	LB04E IFT 17£1.75	WB22Y Tr 34V HP£8.15
		HW25C GE Coil L12£1.99	LB02C IFT 15£1.81	LW34M 15/22V Power Tran£13.9
Page 30	07	HW26D GE Coil L11£1.99	LB05F IFT 18 465 kHz£2.19	LW33L Tr 240V Isotran£4.95
FL46A	Cyanoacrylate£1.55		LB06G IFT 18 1.6 MHz£1.68	HX81C Pulse Transformer£2.65
LQ02C	Potting Compound£3.55	Page 310	HX28F Toc 1£1.99	WB28F Clock Transformer£1.75
FL44X	Araldite Rapid£2.25	HX24B Choke 0.5H£1.15	HX69A Trans Coil IT Blue£2.57	YX66W Line Transformer£3.35
FL45Y	Double Bubble Sachet£0.25	HX25C Choke 1H£1.15	HX70M Trans Coil IT Red£2.17	L870M Mic Xformer MX5DISC
FL47B	PVC Tape Black£0.35	HX26D Choke 2H£1.15	HX71N Trans Coil IT White£2.95	LB71N Mic Xformer MX6DISC
FL48C	PVC Tape Blue£0.35	HX27E Choke 4H£1.15	HX72P Trans Coil IT Yellow£2.26	LR05F Mic Xfrm Typ2 20-30RDISC
FL49D	PVC Tape Brown£0.35	LR07H Filter Pot Core£2.15	HX73Q Trans Coil 2T Blue£2.17	LR06G Me XfmTyp2 200-600R£19.4
FL50E	PVC Tape Green£0.35	XX30H Equaliser Pot Core£1.99	HX74R Trans Coil 2T Red£2.20	YX84F Z-Changer£7.85
FL51F	PVC Tape Red£0.35	HW27E Choke 10 H£1.55	HX75S Trans Coil 2T White£1.48	-
FL52G	PVC Tape White£0.35	HW28F Choke 5µH HC£0.48	HX76H Trans Coil 2T Yellow£1.88	Page 314
VDOOLL	PVC Tape Yellow£0.35	HX15R Choke 1.5 mH£0.48	HX77J Trans Coil 3T Blue£2.17	YG12N Min Motor£2.45
үкээн	•	HX16S Choke 2.5 mH£0.54	HX78K Trans Coil 3T Red£2.17	YG13P Small Motor£1.25
YR99H				

NEW ITEMS PRICE LIST

WG17T The S-100 Bus Handbook

The following is a list of all items introduced prior to this price list, but since publication of our 1981/82 catalogue and includes all special items for projects that appeared in the March 1981 to February 1982 issues of Electronics & Music Maker.

AERIALS & AMATEUR RADIO YG41U 27 MHz Rubber Duck.....Price £4.75 2m Scanning Receiver.....Price £54.95 YK00A **BATTERIES** HW31J Nicad PP3... PP3 Nicad Charger.....Price £6.95 HW32K HY32K Large Battery Holder.....Price £1.85 **BOOKS. MAGAZINES AND LEAFLETS** Analog Subscription.....Price £9.00 GG24B Practical Electronics Handbook WG01B by Ian Sinclair.....Price £4.70 WG02C Newnes Book of Video by K. G. Jackson.....Price £6.90 WG03D Introduction To PascalPrice £10.75 by Rodnay Zaks..... A Basic Approach to BASIC WG04E by Henry Mullish.....Price £9.85 Atari BASIC by Albrecht.....Price £7.95 WG05F WG06G Consumers Guide To Personal Computing & Microcomputers by Freiberger.....Price £8.25 WG07H Beat The Odds by Hans Sagan......Price £7.00 WG08.I BASIC With Business Applications by Lott.....Price £9.89 WG09K Introduction to Computer Music by Bateman.....Price £15.60 Basic Electricity by C. Ryan.....Price £6.65 WG10L Electronics by H. Kybett......Price £5.85 BASIC by Albrecht Price.....£7.35 WG11M WG12N BASIC for Home Computers WG13P by Albrecht......Price £6.75 TRS80 BASIC by Albrecht.....Price £7.70 WG14Q Using CP/M by Fernandez.....Price £6.65 WG15R

Flowcharting by N. Stern.....Price £6.85

WG16S

	by D. BurskyPrice £13.25
WG18U	Telephone Accessories You Can
****	Build by J. H. GilderPrice £6.45
WG19V	60 Challenging Problems with BASIC
*****	Solutions by D. SpencerPrice £5.75
WG20W	The Best Book On CB by E. Herbert. Price £5.40
WG20W	Z80 & 8080 Assembly Language
WOZIX	Programming by K. SpracklenPrice £6.75
WG22Y	Intel Memory BookPrice £19.35
WG23A	Intel 8080/8085 BookPrice £16.95
WG24B	8086 Primer by S. MorsePrice £7.65
WG25C	Writing Interactive Compilers &
WGZGC	
MOOCD	Interpreters by P. BrownPrice £13.45
WG26D	Foundations of Programming with Pascal by L. MoorePrice £6.24
WG27E	
WG2/E	What To Do After You Hit Return by
MOOOF	The People's Computer CompanyPrice £13.45
WG28F WG29G	VMOS Projects by R. A. PenfoldPrice £2.15
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HOME SECURITY

SYSTEM

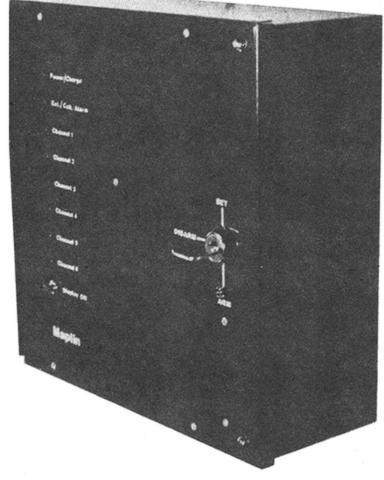
Dave Goodman

- Six independent channels with two groups per channel
- Two or four wire operation with line sensing of open or short circuit or resistance change (jumping)
- Tamper-proof main cabinet
- External horn loop control has its own open/short circuit and jumping protection
- Presettable entry and exit delay timers

his new home security system offers a high degree of protection for domestic or commercial premises coupled with excellent long-term reliability. The unit is mains operated, but will run off its small internal nickel-cadmium rechargeable battery pack for 2 to 3 days depending on the size of the system. The internal battery is continuously charged when the mains is present and changeover from mains to battery and vice-versa has no effect on the system. CMOS circuitry is used throughout to minimise current drain.

There are sockets for six separate plugin channels so that for example all downstairs windows could be connected to one input, all downstairs doors to another, all upstairs windows to another and perhaps shed and garage doors and windows to another. When setting the system you know immediately where to look for the window left open accidentally if the system will not set. Or parts of the system only may be set. For example, during the late evenings, the shed and garage circuit only could be set. Whatever your requirements this system offers the fullest possible flexibility for complete security.

The external horn is also fully protected when fitted with dry batteries. Its prominent position alone will deter most burglars, but any attempt to tamper with it will set it off. If the wires to it are cut or tampered with, the horn will sound. Even ripping the box off the wall will not stop the alarm. The recommended dry batteries will sound the alarm at full power for at least four hours even if the wires are cut.



The alarm is extremely easy to build, with internal wiring kept to an absolute minimum. Operation is by a single keyswitch and exit and entry delays may be preset to suit your requirements. There is an LED for each channel, giving monitoring facilities and an internal sounder giving 'alarm condition' tones. Even the main cabinet is protected, by a micro-switch fitted to the PSU PCB.

Circuit Description Mains PCB

The key switch S9, which is shown in Figure 1 with its contacts made, controls the 'disarm' and 'set' conditions of the alarm unit. TR1 is conducting and thus inhibiting the exit delay timer oscillator IC1 c and d, and IC2, a 14 stage counter/divider, is held reset.

The oscillator IC1 c and d is frequency variable between 25 Hz (40 ms) and 10 kHz (100 us). This clock signal is divided down by IC2 by 8192 giving a minimum time out period of 0.8 seconds and a maximum period of 5.5 minutes. So allowing for variations in tolerances, IC1 c, d and IC2 function as an exit delay timer presettable by RV1 giving periods of between 0 and 6 minutes.

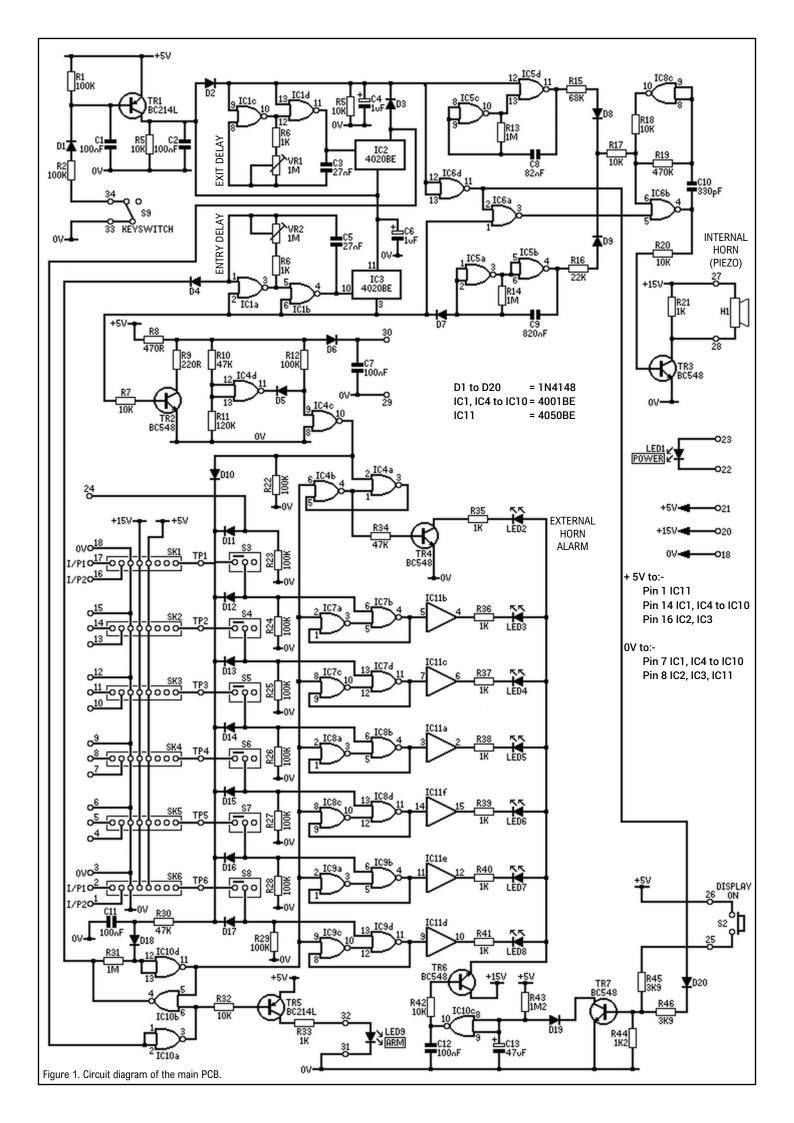
IC1 a, b and IC3 function as described above but are used as an entry delay timer, presettable by RV2.

In the disarm mode IC2 pin 3 is at 0V and D2 is conducting. Consequently exit delay tone modulator IC5 c and d is inhibited. IC10 a output is high, holding TR5 and LED 9 ('ARM' LED) off. Latch IC10 b and d output is high. Entry delay timer is held off via D4 and IC10 b output low. Counter IC3 pin 3 is low and alarm tone modulator IC5 a and b is inhibited via D7 conducting.

Latches IC7, 8 and 9 have normally high outputs connected to LED buffer IC11 preventing channel LEDs 3 to 8 from turning on. A positive trigger pulse greater than 25 ms in duration present at any of the inputs to the latches from switches S3 to 8 allows the channel LEDs to turn on for the duration of the triggering signal.

Switch S2 operates TR7 which discharges C13 and operates TR6, the LED display. TR6 remains on for the time constant set by R43 and C13, approximately 90 seconds.

Operating switch S9 (contacts open) in the 'set' mode turns TR1 off. This removes the inhibit on the exit delay oscillator IC1 c and d allowing it to run at the frequency determined by RV1. IC2 divides this signal and IC2 pin 3 goes high. While IC2 is counting, D2 is not conducting and IC5 c and d run at a frequency of approximately 8 Hz. The inhibit on the tone generator IC6 b and c is removed allowing it to run at approximately 3 kHz modulated at 8 Hz.



At the end of the timing period, IC2 pin 3 goes high, inhibiting IC5 d and IC6 d. IC10 a goes low, TR5 conducts and the 'ARM' LED turns on. IC10 d inhibit is removed and a positive trigger pulse from switches S3 to 8 latches IC10 d low. The appropriate IC7, 8 or 9 goes low and latches, operating a channel LED.

This same trigger pulse also removes the inhibit on the entry delay oscillator IC1 a and b via IC10 b and d. Consequently it begins to run at the frequency set by RV2. IC3 divides the clock signal and when pin 3 goes high the oscillator stops running, TR2 conducts, latching IC4 a and b, and operating LED 2.

Alarm tone modulator IC5 a and b runs at 0 to 5 Hz and modulates the 3 kHz tone oscillator IC6b and c developing the alarm tone signal at H1.

Power Supply

The power supply is shown in Figure 2. T1, BR1 and C2 provide 15 volts to the LED arrays, speaker output stages and charging circuit. C1 is a $0.1\mu F$ interference suppressor, which removes transient spikes from the mains.

LED1, R3, R1, TR1 and D1 form a constant current source for charging the six 1.2 volt nickel cadmium batteries used for power failure standby.. The alarm current requirement is very low so that fully charged batteries will provide enough power for a few days. The trickle charge is set by R1 to 4 mA and is temperature stabilised by LED1.

The supply voltage at pin 7 is approximately 15 volts and the battery supply is 7.5 volts. D2 will normally be reversed biased when mains voltage is applied and REG1 will deliver +5 volts at 100 mA. LED1 also serves as a mains pilot light.

Removing the mains supply extinguishes LED1, removes the charging current and forward biases D2. Pin 7 drops to +7.5 volts while pin 8 remains at +5 volts. C3 and 4 ensure that no spurious spikes are produced during changeover to battery standby. The batteries should be checked periodically. If standby power is not required, short circuit pins 4 and 5 together to light LED1.

Break Contact Module

The break contact module shown in Figure 3 works on a balanced line system. The line (contact) inputs, 1 and 2, are set for +2.5 volts measured on TPA and TPB and adjusted with RV1 and RV2.

Up to five switch contacts (and 22K resistors) are used on each input allowing ten contacts per module as shown on Figure 18. The number used is dependant on the system mode chosen.

IC1 has R3 connected between input and inverting output. The gate is therefore used in its linear region and the output (at the test points) will be balanced at half the supply.

A high or low voltage swing, at the inputs, is detected by IC1 a and d, and the

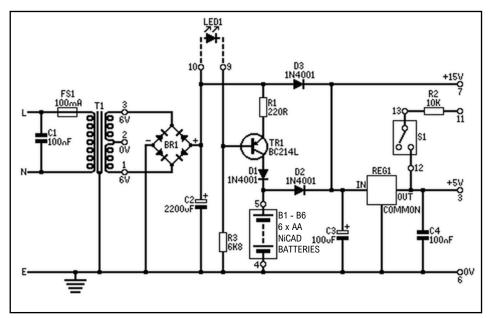


Figure 2. Circuit diagram of the power supply.

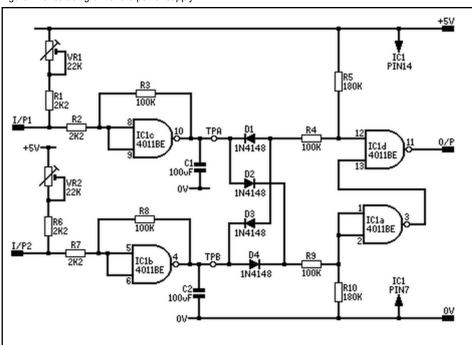


Figure 3. Circuit diagram of the Break Contact Module.

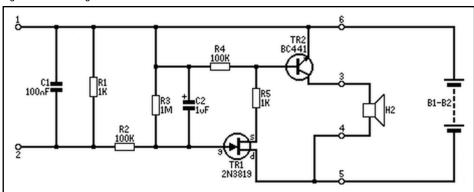


Figure 4. Circuit diagram of the External Horn PCB.

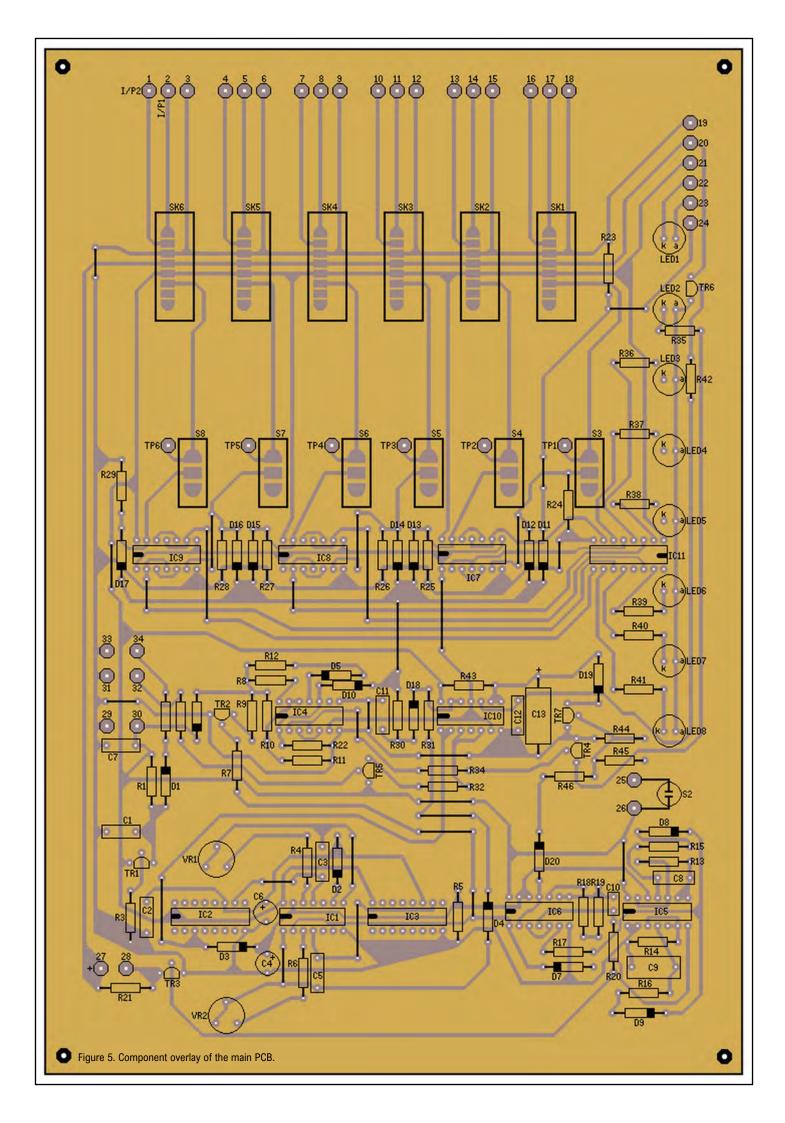
output, normally low, will pulse high for the duration of the input change.

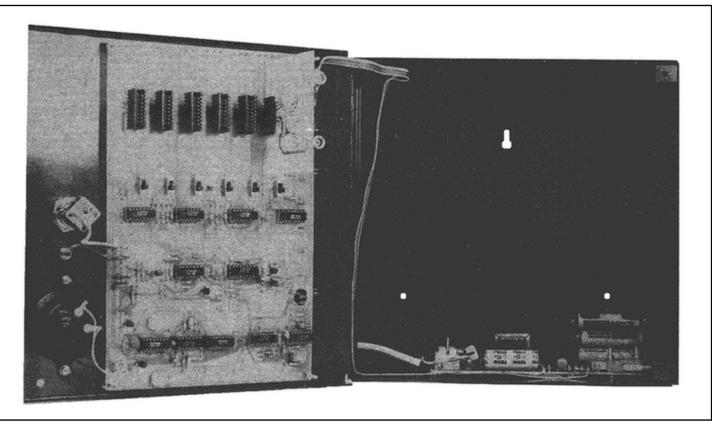
External Horn

The external horn circuit is shown in Figure 4. R1 terminates the security loop connected from pins 1 and 2 to pins 30 and 29 on the main PCB. A current, set at 3 mA, is generated in the loop and cutting, short

circuiting or reversing, will bias TR1 into conduction. TR2 will switch on and the battery pack then supplies H2.

Returning the loop back to its normal condition would appear to bias TR1 off and prevent H2 from operating. This does not happen, owing to detection circuit IC4 c, d (Figure 1) R10, R11, R12 and D6 switching, and dropping the loop current down to 1





Pic A. . Internal view of the control box with Main PCB fitted to the door and the PSU mounted in the base of the box.

mA. The horn will continue to sound until the main alarm key switch is turned off.

Please note that with internal batteries connected, the horn will sound immediately, until the security loop is connected. So when fitting the system, the loop must be wired to the main alarm first, and then connect the batteries (see Figure 9).

Construction Assembly and Setting Up Main PCB

Refer to the parts list 1 and Figure 10. Use 24 swg enamelled copper wire to make the 28 link straps and fit these first. Next, fit the Veropins and the diodes. (The black tips are shown as white blocks on the legend.) Fit all resistors and capacitors. Note that electrolytic and tantalum types are polarised

and have a '+' sign which must be correctly orientated. Fit transistors and IC sockets. Fit the two cermet presets RV1 and 2, and turn fully clockwise, to 0 on the legend. Connect a 1K test resistor RT across pins 29 and 30. (Note, this will be removed when using the external horn PCB, but must remain in place if the external PCB is not in use.)

Refer to Figures 11 and 13 when mounting the channel LEDs. LEDs 1 to 8 are mounted to the PCB from the track side. Figure 13 shows the lead designations. Place the correctly orientated LED into position and insert a spacing strip 8 mm x 1.5 mm (spare Veroboard etc) between the legs. Bend the legs under the PCB, to hold in position and solder one leg only. Repeat for all eight LEDs.

Figure 12 shows the mounting procedure for fitting the PCB to the inside cabinet lid. Place five 1 inch x 6BA CSK screws through the lid, tighten down with five 6BA nuts and washers. Place five 6BA x ¼ inch spacers over the screws and offer the PCB to the lid, positioning the channel LEDs in the holes provided. With LEDs correctly positioned, remove the PCB and solder the eight remaining LED legs. Recheck all component values and positions. Check for dry joints, solder splashes and short circuits on the track face. If all is in order, mount the PCB on to the lid and hold with five 6BA washers and nuts.

Push switch S2 mounts through the PCB and lid and is wired to adjacent pins 25 and 26. Mount LED 9 and connect to pins 31 and

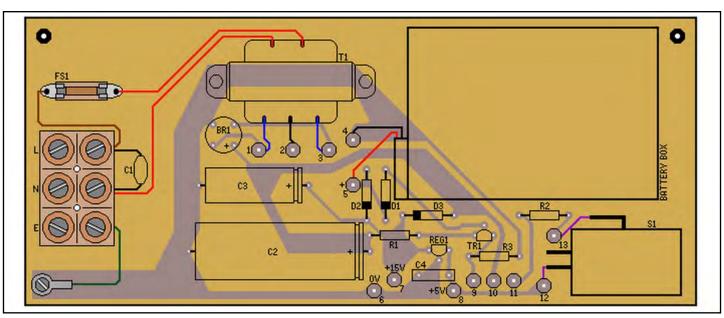


Figure 6. Component overlay of the PSU PCB.

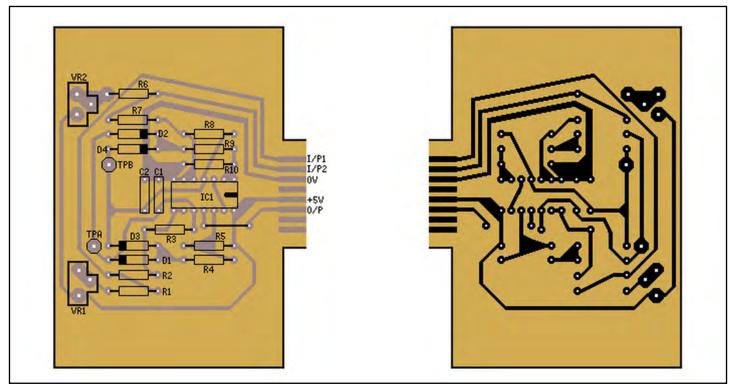


Figure 7. Track layout and component overlay of the Break Contact Module.

32 (Figure 10). Mount key switch S9 and the Piezo horn HI using two $\frac{1}{4}$ inch x 6BA CSK nuts, bolts, washers. Wire H1 to pins 27 and 28

Power Supply Unit

Next refer to the parts list and Figure 12 and 13 for the PSU assembly. Mount the three resistors, three diodes, BR1, TR1, and REG 1. Ensure correct orientation of these components before soldering. Fit the 13 Veropins, C2 and C3 noting the polarity. Mount T1 with two 6BA ¼ inch bolts, nuts and washers. Mount FS1 using a ¼ inch x 6BA nut and bolt and a three-way terminal block, using two 1 inch x 6BA bolts, nuts and washers. Wire T1 to FS1 and the terminal block 'N'. Wire the opposite end of FS1 to terminal block 'L'. Place heat shrink sleeving over C1 leads, and fit to terminal block 'N' and 'L'. The battery clip (PP3) is

connected to pin 5 (+ve lead red) and pin 4 (-ve lead black). The T1 secondaries connect to adjacent pins 1, 2 and 3.

Insert three 6BA x 1/2 inch CSK screws through the cabinet base holes (Figure 15), at front left, rear left and rear right hand side. The two front right hand side holes are for mounting the micro switch. Insert two 1 inch x 6BA CSK screws and tighten all five with 6BA washers and nuts. Place the PSU PCB over the five screws and position the micro switch with the roller arm behind the angle bracket. Tighten down with two 6BA washers and nuts. Place a 6BA tag washer over the front left screw, and two 6BA washers over the remainder. Tighten down with three 6BA nuts. Connect a piece of wire from the 6BA (chassis earth) tag washer to terminal block 'E'. Wire the micro switch (S1) to adjacent pins 12 and 13.

Break Contact Module

Refer to the parts list and Figure 7 for the break contact PCB. The board is very simple to construct and requires no explanation. Once assembled, and checked, plug into any one of the six channel sockets on the main PCB. Ensure switches S3 to S8 are 'out' of circuit.

External Horn

Refer to the parts list and Figures 8, 9 and 17 for the external horn PCB and wiring. Again, the construction is simple. Note the orientation of the tantalum C2 and the FET TR1. The crinkly heatsinks fits over TR2. Do not connect to main PCB at this stage.

Testing

Place a 20 mm, 100 mA fuse into FS1 position. Connect a length of three-way mains cable to the PSU terminal block.

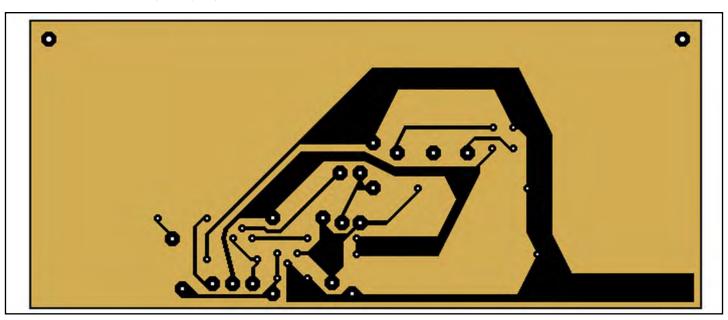


Figure 6(a). Track layout of the PSU PCB.

Ensure S1 is fully operated, and that no other wiring is connected to the PSU.

Place a voltmeter between 0 volt pin 6 and +15 volt pin 7. Apply mains power to the PSU, and check for a reading of 15 volts DC. Check for +5 volts between pin 6 (0 volt) and pin 8 and between 0 volt and pin 11 when S1 (micro switch) is released (slacken the 2BA bolt). Re-operate S1 and check for zero volts on the meter. Remove the mains supply.

Connect 22 inches of six-way ribbon cable between the PSU and main PCB as follows:

	PSU	То	Main PCB
(0V)	P6		P19
(+15)	P7		P20
(+5)	P8		P21
LED1	P9		P22
LED1	P10		P23
(S1)	P11		P24

Set the meter to 'amps' range and connect to pins 4 and 5 (or battery clip). Re-apply mains power and check for a reading of approximately 4 mA and ensure LED 1 lights up. Remove the meter and LED 1 should extinguish. If the standby batteries are to be used, connect the NiCad pack to the PP3 clip.

A voltmeter connected across pins 4 and 5 should indicate a reading of between 7.2 to 7.8 volts depending on the batteries state of charge. Note that LED 1 will stay on with the batteries part or fully charged, also an incorrectly placed battery, within the pack, will allow LED 1 to stay on, but the reading across pins 4 and 5 will be lower than +7 volts. (Rectify immediately as NiCad batteries do not like short circuits or reversed connections placed on them.)

For reliability, ensure that the battery pack is fully charged before use. The trickle charger keeps them topped up over a period of time and is not a fast charger.

Main PCB

With power on, and key-switch disarmed, LED 1 only should be on, and no alarm tones heard. Ensure RV1 and 2 are both fully clockwise, and turn key to 'set'. A high pitched tone will sound immediately lasting for no more than two seconds. When the tone stops, LED 9 ('ARM') comes on, showing that the alarm is now primed and ready. Note that the warble tone, sounds for the duration of the exit timer delay period and is presettable by adjusting RV1 anticlockwise. The PCB legend has scaled from 0 to 6 minutes and the small circle, on top of the cermet pot, acts as a pointer. If the exact time out periods are required, check the calibration scale with a watch or clock.

Once LED 9 has come on, further adjustment of RV1 will only be effective when the key is turned to 'disarm' and then back to 'set', starting the exit timer again.

Points

Connect a length of wire from P21 (+5 volt) to test point 1 (TP1). Operate S3 to the "IN" position. Press S2, display on and

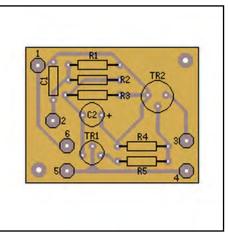


Figure 8. Track layout and component overlay of the External Horn PCB.

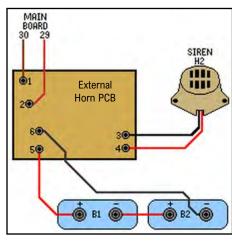


Figure 9. External Horn wiring diagram.

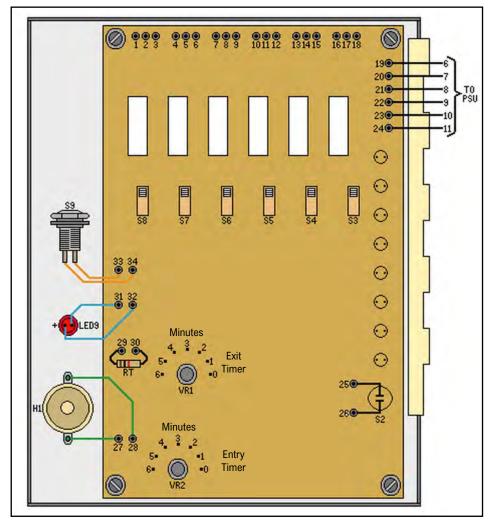


Figure 10. Main PCB wiring.

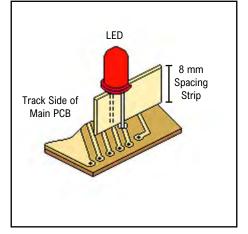


Figure 11. Indicator LED mounting.

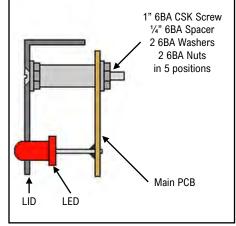


Figure 12. Mounting of Main PCB to cabinet door.

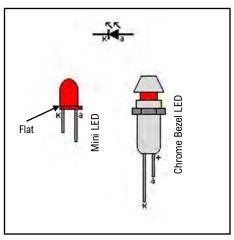


Figure 13. LED lead outs.

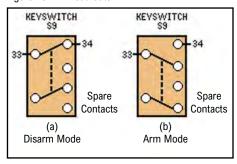


Figure 14. Key switch wiring.

release. Channel 1 LED 3 will come on. Place S3 to the "OUT" position. LED 3 will go out. Repeat the above tests from P21 (+5 volt) to TP2 to TP6 and S4 to S8 checking the channel LEDs 4 to 8. Note that pressing S2 allows the channel LEDs to light up, once triggered, for approximately 90 seconds. S2 will have to be re-operated for a continued display etc.

Remove the test lead from the test point, but leave attached to P21 (+5 volt). Turn the key switch to "set". Once the "armed" LED has come on, place switches S3 to S8 to the "IN" position (note - remove any plug-in PCBs). Check that no tone is heard and that LEDs 1 and 9 only are on. Touch the +5 volt test lead to test points 1 to 6 in turn, all channel LEDs should come on, followed by a slow, two-tone alarm signal. Ext/Cab alarm, LED 2, will come on, indicating that the external horn trigger circuit has been operated. This alarm tone continues until the key switch is set to "disarm". Leave the alarm sounding and check that after 90 seconds the display goes off (preserving batteries on standby). The alarm tone should still continue. Press S2, check original display is returned.

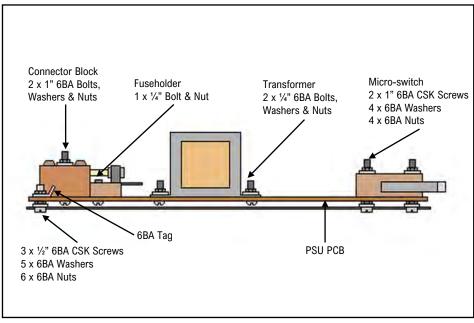


Figure 15. Mounting the PSU PCB and components.

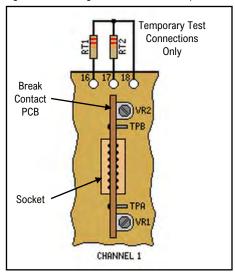


Figure 16. Testing the Break Contact Module.

Circuit Monitor

Turn the key switch to "disarm". The tone and all displays will be cancelled. Note that in the disarm mode and with S2 pressed, the unit gives a useful monitor facility of doors, windows etc, which can be checked before arming the system. Loosen the 2BA bolt holding off micro switch S1. Ensure the roller-arm releases, and turn the key switch to "set". After the time out period and LED 9 has come on, the Ext/Cab alarm LED 2 will light, showing that the cabinet has been tampered with, and the alarm tone will sound. Reset the key switch to "disarm". The alarm tone will cancel, but LED 2 will remain on for 90 seconds; display timeout. Re-operate S1 by tightening the 2BA bolt and LED 2 will go out.

Ext. Alarm

Place a short circuit across test resistor RT (1K) between pins 29 and 30. Press S2, LED 2 will light, indicating that the external loop sensing circuit has been tampered with. Remove the short circuit; LED 2 will go out. Remove one end of resistor RT and press S2. LED 2 will, again, come on. Re-connect RT and LED 2 should go out.

Turn the key switch to "set" and replace the short circuit across resistor RT. When the alarm sounds, remove the short circuit. LED 2 will stay on and the alarm will continue to sound. Return key switch to "disarm".

Power Failure

Note that if standby batteries are fitted and mains power is removed, LED 1 will go out. If the alarm unit is set and armed prior to removal of mains power, the system will stay armed, unless triggered appropriately. When running on standby power, the alarm tones will be slightly quieter than normal.

Entry Timer

Set RV2, entry delay timer, for the required time out period. Turn the key switch to "set" and trigger any channel (+5 volt to a test point). The selected channel LED should come on and stay on. The alarm tone will not be present until the time out period has been reached, then the alarm tone will sound and LED 2 will light. Reset the key switch.

Break Contact PCB

This module may be plugged into any of the sockets in channels 1 to 6 on the main PCB. Note correct orientation of the module, when fitting; the component side is to the right and the track side, to the left.

Remove all power to the system, turn the key switch to "disarm" and S3 to S8 to the "OUT" position. Connect two test resistors, RT1 and RT2 (22K) between pins 17 and 18 and pins 16 and 18, as shown in Figure 16. These resistors are used for test purposes only and will be removed when the circuit is to be used.

Connect a voltmeter between TPA, on the module, and a convenient zero volt point, with the +ve lead to TPA. Apply power to the system, and adjust VR1 for a reading of half the supply rail, i.e. +2.5 volts.

Repeat the test on TPB using VR2, and remove meter. Re-connect the meter between zero volt and TP1 to 6 (main PCB) depending on channel chosen for setting up the module, and check for zero volts. Short circuit resistor RT1, and check for +5 volts on the appropriate test point (main PCB). Remove the short circuit and repeat the test for RT2. Set the chosen channel switch (S3 to S8) to the "IN" position. Turn the key switch to "set" and remove one end of RT1. The appropriate channel LED will come on etc. Re-connect RT1; reset the key switch and repeat the test for RT2.

Reset the key switch and remove test resistors RT1 and 2.

External Horn PCB

Figures 8 and 9 show the connections for using an external horn. For test purposes remove all power from the system (disconnect all batteries) and wire the PCB to pins 29 and 30 (remove resistor RT). Any changes made to these connections will trigger the alarm so ensure correct wiring. Connect the electronic siren to pins 3 and 4; the black lead is negative and the red +ve. Since the siren is inside a box, its own cover is not required and should be removed to assist wiring and make the sound output as great as possible. Connect batteries B1 and B2 to pin 5 (+ve) and 6 (-ve). The battery supply should be 12 volts and various types of dry cell (6 volts each) are available. Note that no charging current is available to these batteries.

The horn (H2) will sound immediately, so return power to the alarm unit as soon as possible. Place a short circuit across pins 29 and 30 (main PCB); H2 will sound. Remove the short circuit and H2 will cease.

Turn the key switch to "set" and repeat the test. Both internal and external horns will sound along with LED 2. Turn the key

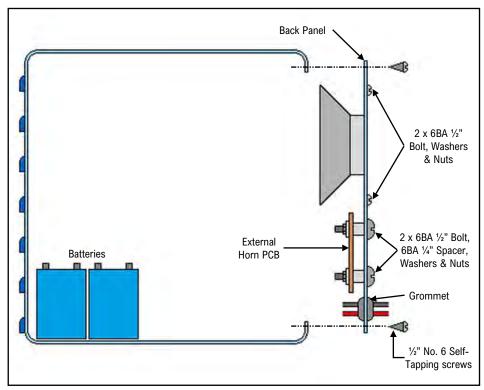


Figure 17. Assembly of the External Horn Box.

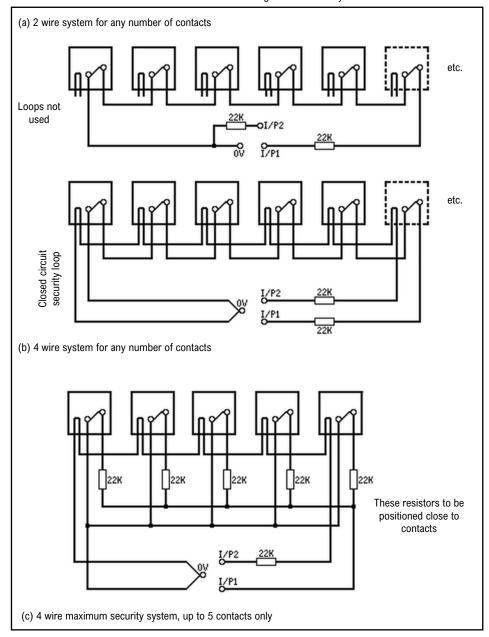


Figure 18. Methods of wiring alarm contacts.

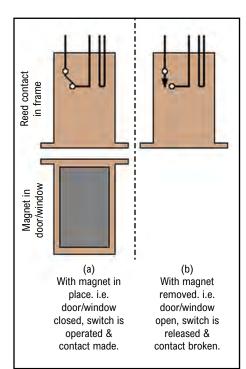


Figure 19. Reed switch connections.

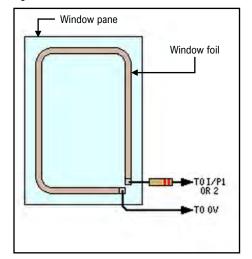


Figure 20. Window foil connections.

switch to "disarm" and both horns should stop sounding. Note that the 12 volt external batteries supply the horn only, via TR2. When not in use, the current drain from B1 and B2 is approximately 5µA and will not effect the shelf life of the batteries greatly.

Using The System

Various systems for sensing and triggering the alarm unit are available and are listed in the parts list. Typical connections are shown in Figures 18,19 and 20. Note that for maximum security only five switches, each with a 22K resistor, should be used per input (10 switches per module) and connected as in Figure 18(c). With 6

modules in use, up to 60 switches can be accommodated, using a two wire system, or 30 switches using the 4 wire system. Whatever method is favoured, refer to the break contact setting up procedure and adjust RV1 and RV2 on each module for half the supply voltage. Any form of shorting, bridging, reversing or cutting connections will trigger the alarm.

If one input only, per module, is to be used, terminate the remaining input with a 22K resistor (see Figure 16) otherwise the alarm will keep sounding, with that channel switched in. Magnetic reed switches can be mounted into door frames and the magnet into the door directly opposite. Surface type

reeds are available for metal frame works. Pressure mats should be placed under carpets etc ensuring adequate clearance from furniture and metal foil strip can be fitted to glass panels. There will shortly be ultra sonic and micro-wave doppler detectors available and those will interface directly to the break contact module.

Finally, remember that setting the modules to half (+2.5 volt) supply rail will allow detection of short circuits or open circuits, within the contact loop so make or break contacts may be accommodated, using suitably placed 22K resistors.

BURGLAR ALARM MAIN PA				C4	100nF disc	ceramic	1
Resistors - All ¼ watt 5% Me	••••	Danim Black Valleri	44	Camiaanduatana			
R1, R2, R12, R22 to R29	100K	Brown Black Yellow	11	Semiconductors D1, D2, D3	1N4001		3
R3, R5, R7, R17, R18, R20	401/	Description Disable Occasion	0	, , ,			
R32, R42	10K	Brown Black Orange	8	BR1	W005	WO.	1
R4, R6, R21, R33, R35 to R41		Brown Black Red	11	REG 1	µA78L05AV	VC	1
R8	470R	Yellow Violet Brown	1	TR1	BC214L		1
R9	220R	Red Red Brown	1	8.81			
R11	120K	Brown Red Yellow	1	Miscellaneous	T	. 0. 0. 0. 400 4	
R13, R14, R31	1M	Brown Black Green	3	T1		r 6-0-6 100 mA	1
R15	68K	Blue Grey Orange	1	S1	Micro switch		1
R16	22K	Red Red Orange	1	FS1	20 mm fuse		1
R19, R30	470K	Yellow Violet Yellow	2		Chassis fus		1
R10, R34	47K	Yellow Violet Orange	2			ock 5 amp (3 sections)	
R43	1M2	Brown Red Green	1		6BA tag		
R44	1K2	Brown Red Red	1		6BA 1 inch		2
R45, R46	3K9	Orange White Red	2		6BA ¼ inch		3
RT (Test Resistor)	1K	Brown Black Red	1		6BA 1 inch		2
/R1, VR2	1M	Cermet	2		6BA ½ inch	CSK screw	3
					6BA washe	r	13
Capacitors					6BA nut		15
C1, C2, C7, C11, C12	100nF disc	ceramic	5		Insulated sl	eeving	3"
	27nF Polyc	arbonate	2		Single-side	d terminal pins	13
	1μF 35V ta		2		-	•	
	82nF Polyc		1	BURGLAR ALARM EXTER	RNAL HORN I	PARTS LIST	
	820nF Poly		1	Resistors - All 1/4 watt 5% I	Metal Film		
	330pF cera		1	R1, R5	1K	Brown Black Red	2
		axial electrolytic	1	R2, R4	100K	Brown Black Yellow	2
	р	5.55t. 5.7 t.5	•	R3	1M	Brown Black Green	1
Semiconductors							
D1 to D20	1N4148		20	Capacitors			
	BC214L		2	C1	100nF disc	ceramic	1
ΓR2, TR3, TR4, TR6, TR7	BC548		5	C2	1µF 25V tar	ntalum	1
IC1, IC4 to IC10	4001BE		8	-			
	4020BE		2	Semiconductors			
	4050BE		1	TR1	2N3819		1
1011	4000DE		'	TR2	BC441		1
Miscellaneous							
LED 1 to LED 8	Mini LED r	ed	8	Miscellaneous			
LED 9	Chrome LE	D small	1	H2	Electronic S	Siren	1
		y push switch	1	B1, B2	6 volt Lante	ern Battery	2
	Slide switc		6	•	Heatsink 5F		1
	Key switch		1		Single-side	d terminal pins	6
	Piezo horn		1		Small grom		1
						screws No. 6 ½ inch	10
		e connector	6		6BA ½ inch	•	4
		CSK screw	5		6BA washe		4
		n CSK screw	2		6BA nuts	•	4
	2BA 1 inch		2			ch engoar	2
	6BA washe	er	12		6BA x ¼ inc	on spacer	2
	6BA nut		12	BLIDGLAD ALADM DDEAL	CONTACT!	MODILI E DADTE LIET	
	6BA x 1/4 in		5	BURGLAR ALARM BREAL		WICDULE PARTS LIST	
	Small gron	nmet	2	Resistors - All 1/4 watt 5% I		5 15 15 1	
	Single-side	ed terminal pins	40	R1, R2, R6, R7	2K2	Red Red Red	4
	10-way rib			R3, R4, R8, R9	100K	Brown Black Yellow	4
	1M			R5, R10	180K	Brown Grey Yellow	2
	DIL socket	14 pin	8	RT1, RT2 (Test Resistors)	22K	Red Red Orange	2
	DIL socket	•	3	VR1, VR2	22K	Vertical sub-min preset	2
DUDOLAD ALADMA DOLLOS	TC LICT			Capacitors			
BURGLAR ALARM PSU PAF				C1, C2	100nF disc	ceramic	2
Resistors - All ¼ watt 5% Me		D. J.D. J.D.		,			_
R1	220R	Red Red Brown	1	Semiconductors			
R2	10K	Brown Black Orange	1	D1, D2, D3, D4	1N4148		1
₹3	6K8	Blue Grey Red	1	IC1	4011BE		1
Capacitors				· · · ·			
•	100nE aux	proceion capacitor	4	Miscellaneous			
C1		pression capacitor	1	TPA, TPB	Single-side	d terminal pins	2
		V axial electrolytic axial electrolytic	1	,	DIL socket		1
		avial electrolytic	1		00000		

ATARI COMPUTER **NEWS**

by Graham Daubney

Details this month of the amazing Atari Word Processor software package that includes its own training programme!, and a review of an excellent new game you can really get your teeth into: Jawbreaker. Also this time a Morse tutor program that will greatly help all CB breakers to move onto finer and farther things - there's nowhere in the world you can't talk to once you've got an amateur radio licence with Morse code.

ATARI WORD PROCESSOR SYSTEM

This word processor requires the following hardware: ATARI 800 Personal computer system ATARI 810 Disk Drive ATARI 850 Interface module ATARI PRINTER

TV set or Monitor

The package consists of an extremely large training manual, master diskette, data diskette, backup master diskette and to cap it all a training cassette.

The documentation supplied is both extensive and comprehensive and takes the form of lessons. Add to this the training cassette and anyone of medium intelligence supplied with this lot can learn to process words in a very short time indeed, though as will become apparent during this review, to completely master the many functions provided would take perhaps a few

The opening lesson assumes absolutely no knowledge of either word processing or computer systems and is a step by step guide of how to back up your data diskettes and how to load and get running the software provided. The basic cursor controls are then explained in some detail followed by how to enter text and then save your document onto disk. A brief description of how to print out your text is also given, this means that anyone who is familiar with both computers and word processing can at least get started.

Lesson two covers moving the viewing window (this is necessary as the screen acts as a window onto a portion of your document and you can move this window around to examine various parts), deleting words and lines or parts of lines, using the page layout control display and text formatting.

Lesson three explains how to paginate, search-for and replace specific words, delete text and movement of a block of text. At this point you use one of the pieces of text supplied on the data disk.

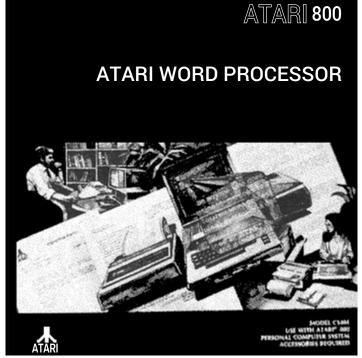
Lesson four covers text alignment, centering of text, setting and use of tabs and text justification when printing out.

Lesson five deals with repagination, removal of headers, renaming of documents and use of the disk utilities.

The last lesson deals with some of the trickier functions, i.e. entering of subscripts and superscripts, creation of text in elongated print, alignment of columns of figures, positioning text outside the set margin, addressing of envelopes and printing in double column format. The word processor is based on a system of menus, each offers a list of choices, many menus lead to sub menus, I found this system very easy to get used to especially as it is possible to page back through the menus using the escape key until you find the function that you are looking for. The top of the screen is separated from the work area by a blank line in which there is a cursor. I found this cursor confusing at first and wondered why it was there at all, as you have no control over it, however it does fly about within the dividing line when the machine is performing certain functions and so I assume its presence is merely to tell you that something is happening. Right at the top of the screen is the status line which gives you useful information about the document that you are working on, i.e. its name, which page you are working on, the

The quantity of control codes used to perform editing and formatting functions is huge and this is one area where the beginner may flounder at first. I got to grips with the more commonly used ones within an hour or two and some of the less common ones come with practice. It seems that ATARI have thought of just about anything you could possibly wish to do with a document and the control codes and their functions are reprinted here for your examination.

Print formatting is selected by hitting the select key, which will present you with a graphical representation of your text on a page and also a menu of



CONTROL CHARACTER SUMMARY

Centering Text

CTAL V Center line of text

Saving Blocks of Text

CTAL N Mark the beginning of text CTAL M Mark the end of text

CTAL S Save text block Insert Saved Text Block

SHIFT INSERT Insert saved text block (position cursor at point of insertion)

Delete Text Block

CTAL N Mark the beginning of text CTAL M Mark the end of text

SHIFT CLEAR Delete text block

NOTE: Saving, inserting, and deleting blocks of text can also be done in Text Memory mode of the Extended Functions menu.

Changing Character Case

CTAL C Change character from lower case to upper case and vice versa Underlining

CTAL I Change character from normal to underlined and vice versa. Inverse video characters on the screen display represent underlined characters during printout

Subscripts and Superscripts

CTAL INSERT CTAL ↓ Subscripts (half line down)

CTAL INSERT CTAL ↑ Superscripts (half line up)

Elongated Print

Text to be printed with elongated characters must be bracketed by special characters. Both CTAL and INSERT keys must be pressed at the same time and released before the next key is pressed.

CTAL INSERT then TAB Start elongated

CTAL INSERT then DELETE BACK S Stop elongated print

Line Terminators

RETURN Insert fixed line terminator. Line will be formatted (indented, line spacing, paragraph spacing, margin alignment, etc.)

CTAL J Insert fixed line terminator. Line will not be formatted

Page Break

CTAL K Automatically breaks page during pagination

Cursor Movement

CTAL ← One space left CTAL → One space right

CTAL ↑ One space up

CTAL ↓ One space down

Quick Cursor Movement CTAL A Beginning of line

CTAL E End of line

CTAL G Left Margin

CTAL H Right Margin CTAL I Top of page

CTAL B Bottom of page

CTAL: End of text

Window Movement

CTAL TAB Fast scroll left

SHIFT TAB Fast scroll right

CTAL V Fast scroll up

CTAL 0 Fast scroll down

CTAL L Viewing window left

CTAL R Viewing window right

CTAL U Viewing window up

CTAL D Viewing window down

Deleting Characters

DELETE BACK S Delete character to left SHIFT DELETE BACK S Delete

character to right of cursor

Deleting Words Or Lines

CTAL W Delete current word (word over

CTAL P Delete prior word (word prior to

CTAL DELETE BACK S Delete from

cursor to beginning of line CTAL F Delete from cursor to end of line

CTAL X Delete entire line CTAL Z Restores edited line to its

Inserting Characters, Words, Or Lines

To insert characters or words, position the cursor at the point of insertion and

CTAL J Insert blank line (terminated but not formatted)

CTAL 0 Insert blank line (formatted but not terminated)

RETURN Insert blank line (formatted and terminated)

Margin Alignment

CTAL [Align line to left margin CTAL] Align line to right margin alterable functions, again this menu is very comprehensive and allows you to format your text very effectively. The following functions can be adjusted from this menu: top, left and right margins, line, paragraph and indentation spacing, page size, justification (on or off), characters per inch and tabs.

All data storage is on a standard 5 ¼ inch floppy diskette which can hold up to 63 pages of text, obviously this is dependent on the size of your pages. As you have the ability to work on one document a page at a time it is possible to store one document split into pages and spread over a number of diskettes so for all practical purposes you can work on a document of any size. In practice I found the storage more than adequate for my purposes which consist mostly of standard letters or at least paragraphs, memos (mostly to myself!) and writing of leaflets or reviews, in fact this review was written using this processor although it has of course been type set and printed since. If anyone wishes to see the original of this article as produced straight from the ATARI system I will of course be pleased to provide one if you write to me with a self addressed envelope.

To date the software has not crashed on me or given any strange results and I have found it to be very user friendly with descriptive error messages that soon put you back on the right track. In fact, during use there are a number of safety features built into the software. For instance it is impossible to overwrite the text you are working on accidentally so you are asked to confirm that it is O.K. before the machine goes ahead.

In conclusion, this word processor is powerful and has many features and functions not found on packages costing up to 3 times as much. As price is obviously a prime consideration for a small business the cost of



the hardware necessary to implement this package ensures that this is the cheapest way to get your secretary automated.

I particularly liked the training cassette idea and feel sure that this idea will be mimicked by software producers in the future. The documentation, as stated earlier, is superb to learn from although once the basics had been digested I found it a little difficult to find an explanation of specific functions quickly although the idea of a removable plastic covered 'crib sheet' helped later on.

The complete Atari Word Processor software package is available now. Order As YG42V (Word Processor) Price £85.00.

MORSE TUTOR PROGRAM FOR ATARI

by Chris Barlow

Morse code was developed for use in electric telegraphy in 1838 by Samuel F. B. Morse.

The earliest Transatlantic radio signal was received by Marconi at Poldhu, Cornwall, from a 10kW transmitter at Newfoundland, Canada, on the 12th December 1901. The highest speed ever recorded for receiving Morse code is 75.2 words per minute and 175 wpm for sending by hand.

Morse transmissions can be received on various short wave bands, amateur radio and shipping signals etc. These Morse signals can be between 8 to 14 wpm or even greater speeds.

This program generates random Morse characters, letters and/or numbers at 5 to 30 wpm You can control the delay between Morse characters and the tone (pitch).

C. W. signal sets the strength of the Morse received, 5/9 a strong signal to 5/1 a weak signal. As the Morse gets weaker then more interference is heard on the received signal.

Tutor length sets the number of Morse characters generated from 10 to 430 but you can stop at anytime by pressing the option key.

At the conclusion of generated Morse, an end bleep will sound and you may then read the screen to check your accuracy.

You may then use the start key to repeat the exercise or press select key for the setup menu.

When the program is running use option/select/start keys to control the program and here is a brief description of the working program.

MORSE TUTOR PROGRAM

1000 to 1540 read random line of data.

1550 and 1560 C.W. tone and Q.R.M. sound

1600 print Morse characters and delay/length routine.

1700 to 1760 end of Morse and set colour to read screen.

2000 to 2035 Morse data dit dah and space. Last number is character string value.

2500 and 2510 setup routine for tone and speed etc.

3000 to 3140 print graphics page 2 the menu/setup.

3150 to 3525 select/start routines tone speed etc.

4000 to 4230 print graphics page 1 the Morse code.

5000 start Morse sounds routine.

The complete program is shown below.

20 GOSUB 2500

1000 A = INT(RND<1) * TYPE)
1005 IF TYPE > 10 AND A < 10 AND MIXED = 0 THEN 1000
1010 IF PEEK (53279) = 3 THEN 1700
1040 RESTORE A + 2000
1500 READ B
1510 IF B = 1 THEN C = TONE : X=1
1520 IF B = 2 THEN C = 0 : X=1
1530 IF B = 3 THEN C = 0 : X=1
1540 IF B > 3 THEN C = 0 : X=1
1540 IF B > 3 THEN C = 0 : X=3
1550 SOUND 0 , C, 10, SIGNAL : SOUND 1,17,8 , QRM : SOUND 2,1,4 , QRM : SOUND 3,18,10,QRM
1560 FOR T = Q TO X * RATE : NEXT T
1570 IF B > 3 THEN 1600
1580 GOTO 1500
1600 POKE 77.0 : PRINT CHR\$(B); ":"; : FOR T = 0 TO DELAY * 360 : NEXT T : LENGTH = LENGTH + 1 : IF LENGTH = TIME THEN 1700

```
1610 GOTO 1000
1700 SOUND 1,0,0,0 : SOUND 2,0,0,0 : SOUND 3,0,0,0 : SETCOLOR 1,0,10 : SETCOLOR 2,7,0
1710 FOR T = 0 TO 10 : SOUND 0,70,10,5 : SOUND 1,71,10,5 : SOUND 2,72,1 0,5 : SOUND
1720 FOR C = 0 TO 30 : NEXT C : SOUND 0,0,0,0 : SOUND 1,0,0,0 : SOUND 2,0,0,0 : SOUND
3.0.0.0
1730 FOR C = 0 TO 30 : NEXT C : NEXT T
1740 IF PEEK (53279) = 5 THEN GOSUB 3000
1745 IF PEEK (53279) = 6 THEN GOSUB 5000
1750 IF LENGTH = 0 THEN 1000
1760 GOTO 1740
2000 DATA 2,3,2,3,2,3,2,3,2,48
2001 DATA 1.3.2.3.2.3.2.3.2.49
2002 DATA 1,3,1,3,2,3,2,3,2,50
2003 DATA 1,3,1,3,1,3,2,3,2,51
2004 DATA 1,3,1,3,1,3,1,3,2,52
2005 DATA 1,3,1,3,1,3,1,3,1,53
2006 DATA 2,3,1,3,1,3,1,3,1,54
2007 DATA 2,3,2,3,1,3,1,3,1,55
2003 DATA 2,3,2,3,2,3,1,3,1,56
2009 DATA 2,3,2,3,2,3,2,3,1,57
2010 DATA 1,3,2,65
2011 DATA 2,3,1,3,1,3,1,66
2012 DATA 2,3,1,3,2,3,1,67
2013 DATA 2,3,1,3,1,68
2014 DATA 1,69
2015 DATA 1,3,1,3,2,3,1,70
2016 DATA 2,3,2,3,1,71
2017 DATA 1,3,1,3,1,3,1,72
2018 DATA 1,3,1,73
2019 DATA 1,3,2,3,2,3,2,74
2020 DATA 2,3,1,3,2,75
       DATA 1,3,2,3,1,3,1,76
2021
2022 DATA 2.3.2.77
       DATA 2,3,1,78
2023
2024 DATA 2,3,2,3,2,79
2025 DATA 1.3.2.3.2.3.1.80
2026 DATA 2,3,2,3,1,3,2,81
2027 DATA 1,3,2,3,1,82
2028 DATA 1,3,1,3,1,83 20-29 DATA 2,84
2030 DATA 1,3,1,3,2,85
2031 DATA 1,3,1,3,1,3,2,86
2032 DATA 1,3,2,3,2,87
2033 DATA 2,3,1,3,1,3,2,88
2034 DATA 2,3,1,3,2,3,2,89
2035 DATA 2,3,2,3,1,3,1,90
2500 SIGNAL = 10 : QRM = 0 : DELAY = 0 : TONE=10 : SPEED = 12 : TYPE = 36 : TIME=30 :
CODE = 0 : CAL=100 : RX = 9 : CWL = 1 : CWN=1
2510 RATE = INT(CAL / SPEED * 2)
3000 REM *****MENU*****
3065 IF CODE = 0 THEN POSITION 14.1 : PRINT #6; "NO" 3070 POSITION 1,2 : PRINT #6; "SPEED (WPM) . . . "; SPEED;"?
3072 IF SPEED < 10 THEN POSITION 15.2 : PRINT #6;".. ?"
3080 POSITION 1,3 : PRINT #6;"DELAY < SEC >";DELAY;"?
3085 IF DELAY = INT(DELAY) THEN POSITION 15,3: PRINT #6;"?"
3090 POSITION 1,4 : PRINT #6;"C. W. TONE.";TONE";"?" 3100 POSITION 1,5 : PRINT #6;"C. W. SIGNAL...5/";RX;"?"
3110 POSITION 1,6 : PRINT #6;"C. W. LETTERS..... ?"
3112 IF CWL = 1 THEN POSITION 14.6 : PRINT #6;"YES'
3115 IF CWL = 0 THEN POSITION 14,6 : PRINT #6;"NO"
```

3120 POSITION 1,7 : PRINT #6;"C.W.NUMBERS....?" 3122 IF CWN = 1 THEN POSITION 14.7 : PRINT #6;"YES" 3125 IF CWN = 0 THEN POSITION 14,7 : PRINT *6;"NO"

3130 POSITION 1,8: PRINT #6;"TUTOR LENGTH.";TIME

```
3132 IF TIME < 100 THEN POSITION 16.8 · PRINT #6·" 2
                                                                                                                                              3410 IF PEEK (53279) = 5 AND CWN = 0 THEN SOUND 0.30 10.5 : GOSUB 3440
3135 IF TIME > 99 THEN POSITION 17,8 : PRINT #6;
                                                                                                                                               3415 IF PEEK (53279) = 6 THEN Z = Z +1 : IF Z > 10 THEN SOUND 0,30,10,5 : GOTO 3450
3140 POSITION 1,9: PRINT #6; "USE SELECT/START?"
                                                                                                                                              3420 GOTO 3405
3150 REM xxxxxxxSELECT/STARTxxxxxxxxx
                                                                                                                                              3430 POSITION 14,7: PRINT #6;"NO. ": CWN = 0: FOR I = 0 TO 30: NEXT I: SOUND 0,0,0,0:
3155 POSITION 17,1: PRINT #6;"<"
3160 IF PEEK (53279) = 5 AND CODE = 1 THEN CODE = 0 : POSITION 14.1 : PRINT #6;"NO" :
                                                                                                                                               3440 POSITION 14,7 : PRINT #6;"YES" : CWN = 1 : FOR I = 0 TO 30 : NEXT I : SOUND 0,0,0,0 :
SOUND 0.150,10,5 : FOR I = 0 TO 50 : NEXT I
3165 IF PEEK (53279) = 5 AND CODE = 0 THEN CODE = 1 : POSITION 14,1 : PRINT #6;"YES" :
                                                                                                                                               3450 IF CWL = 0 AND CWN = 0 THEN SOUND 0,70,10,5 : FOR I = 0 TO 40 : NEXT I : SOUND
SOUND 0,20,10,5 : FOR I = 0 TO 30 : NEXT I
                                                                                                                                              0,0,0,0 : GOTO 3470
3166 SOUND 0,0,0,0
3170 IF PEEK (53279) = 6 AND CODE = 1 THEN 4000
                                                                                                                                              3455 IF CWL = 1 AND CWN = 1 THEN MIXED = 1
3456 IF CWL < CWN OR CWL > CWN THEN MIXED = 0
3175 IF PEEK (53279) = 6 AND CODE = 0 THEN POSITION 17,1 : PRINT #6;" " : SOUND 0,30,10,5
                                                                                                                                               3460 GOTO 3430
: FOR I = 0 TO 30 : NEXT I : GOTO 3185 3180 GOTO 3160 3185 SOUND 0,0,0,0 : POSITION 17,2 : PRINT #6;"<"
                                                                                                                                               3470 POSITION 17.7 : PRINT #6:" " : GOTO 3350
                                                                                                                                               3480 Z = 0 : POSITION 17,7 : PRINT #6;" " : POSITION 17,8 : PRINT #6;"<" : FOR I = 0 TO 30 :
3190 IF PEEK (53279) = 5 THEN SOUND 0.20.10 .5 : GOSUB 3210
                                                                                                                                              NEXT I: SOUND 0.0.0.0
3195 IF PEEK (53279) = 6 THEN Z=Z+1 : IF Z > 10 THEN 3220
                                                                                                                                               3485 IF PEEK (53279) = 5 THEN TIME = TIME + 10 : SOUND 0,30,10,5 : GOSUB 3500
3200 GOTO 3190
3210 SPEED = SPEED +1 : IF SPEED > 30 THEN SPEED = 5
                                                                                                                                               3490 IF PEEK (53279) = 6 THEN Z = Z + 1 : IF Z > 10 THEN SOUND 0,30,10,5 : GOTO 3510
                                                                                                                                               3495 GOTO 3485
3211 RATE = INT(CAL / SPEED * 2)
3215 POSITION 15,2 : PRINT #6;"." : POSITION 14,2 : PRINT #6;SPEED : FOR I = 0 TO 30 : NEXT
I : SOUND 0,0,0,0 : RETURN
                                                                                                                                               3500 IF TIME > 430 THEN TIME = 10 : POSITION 16,8 : PRINT #6;"
                                                                                                                                              3505 POSITION 14,8 : PRINT *6;TIME : FOR I = 0 TO 15 : NEXT I : SOUND 0,0,0,0 : RETURN 3510 Z = 0 : POSITION 17,8 : PRINT #6;"" : POSITION 17.9 : PRINT #6;"<"' : FOR I = 0 TO 30
3220 Z = 0 : SOUND 0,30,10, : POSITION 17,2 : PRINT #6;" " : FOR I = 0 TO 30 : NEXT I : SOUND
                                                                                                                                              NEXT I: SOUND 0.0.0.0
                                                                                                                                               3515 IF PEEK (53279) = 5 THEN SOUND 0,70,10,5 : FOR I = 0 TO 30 : NEXT I : GOTO 3000
0,0,0,0
3225 POSITION 17.3: PRINT #6:"<"
                                                                                                                                               3520 IF PEEK (53279) = 6 THEN SOUND 0,30,10 ,5 : FOR I = 0 TO 30 : NEXT I : SOUND 0,0,0,0 :
3230 IF PEEK (53279 ) = 5 THEN DELAY = DELAY + 0.1 · SOUND 0.30.10 · GOSUB 3234
                                                                                                                                              GOTO 5000
3232 IF PEEK (53279 ) = 6 THEN Z = Z +1 : IF Z >10 THEN SOUND 0,30,10,5 : GOTO 3240
                                                                                                                                              4000 REM xxxxx THE MORSE CODE xxxxxxxxxxx 4005 GRAPHICS 1+16: SETCOLOR 4,4,1: SETCOLOR 0,13,10
3233 GOTO 3230
3234 IF DELAY > 4 THEN DELAY = 0
3235 POSITION 16,3 : PRINT #6;"0" : POSITION 14,3 : PRINT #6;DELAY : FOR I = 0 TO 30 : NEXT I : SOUND 0,0,0,0 : RETURN
                                                                                                                                              4010 FOR D = 0 TO 19 : POSITION D,0 : PRINT #6;"x" : NEXT D
4015 FOR D = 0 TO 19 : POSITION D,22 : PRINT #6;"x": NEXT D
                                                                                                                                              4020 FOR D=0 TO 22 : POSITION 0,D : PRINT #6;"\text{"\text{.}"\text{.}"\text{\text{NEXT D}}}
4025 FOR D=0 TO 22 : POSITION 19,D : PRINT #6;"\text{\text{.}"\text{\text{\text{.}"\text{\text{.}"\text{\text{.}"\text{\text{.}"\text{\text{\text{.}"\text{\text{\text{.}"\text{\text{\text{.}"\text{\text{\text{.}"\text{\text{.}"\text{\text{\text{.}"\text{\text{\text{.}"\text{\text{\text{.}"\text{\text{\text{.}"\text{\text{\text{.}"\text{\text{\text{.}"\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{0.07}}}}} PRINT #6;"\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\t
3240 Z = 0 : POSITION 17,3 : PRINT #6;" " : POSITION 17,4 : PRINT #6;"<" : FOR I = 0 TO 30 :
NEXT I: SOUND 0,0,0,0
                                                                                                                                                                                                                                 xxx-"
*__"
3245 IF PEEK (53279) = 5 THEN TONE = TONE + 1 : GOSUB 3260
                                                                                                                                                                                             #6:"
                                                                                                                                              4035 POSITION 1,2 : PRINT 4040 POSITION 1,3 : PRINT
3250 IF PEEK (53279) = 6 THEN Z=Z+1: IF Z > 10 THEN SOUND 0,30,10,5: GOTO 3270
                                                                                                                                                                                                    В
                                                                                                                                                                                                               -XXX
-*-*
                                                                                                                                                                                                                       W
3255 GOTO 3245
                                                                                                                                                                                             #6;"
                                                                                                                                                                                                      Č
                                                                                                                                                                                                                                  -xx-"
                                                                                                                                                                                                                        X
Y
3260 IF ONE > 99 THEN TONE = 10
3260 IF TONE > 99 THEN TONE = 10
3265 POSITION 14,4 : PRINT #6;TONE : SOUND 0,TONE,10,10 : FOR I = 0 TO 10 : NEXT I :
                                                                                                                                               4045 POSITION 1,4 : PRINT
                                                                                                                                                                                                      D
                                                                                                                                                                                                                -xx
                                                                                                                                              4050 POSITION 1.5 : PRINT #6:"
                                                                                                                                                                                              Fx
                                                                                                                                                                                                     7 —
                                                                                                                                                                                                             xx"
SOUND 0 ,0,0,0 : RETURN
                                                                                                                                               4055 POSITION 1,6 : PRINT
                                                                                                                                                                                            #6;"
#6:"
                                                                                                                                                                                                               xx-x"
3270 Z = 0 : POSITION 17,4 : PRINT #6;" " : POSITION 17,5 : PRINT #6;"<" : FOR I = 0 TO 30 :
                                                                                                                                              4060 POSITION 1.7: PRINT
                                                                                                                                                                                                      G
NEXT I : SOUND 0,0,0,0
                                                                                                                                              4065 POSITION 1.8: PRINT
                                                                                                                                                                                            #6;"
                                                                                                                                                                                                                                  xx--"
                                                                                                                                                                                                      Н
                                                                                                                                                                                                               XXXX
3275 IF PEEK (53279) = 5 THEN RX = RX - 1 : GOSUB 3285
                                                                                                                                              4070 POSITION 1,9 : PRINT #6
4075 POSITION 1,10 : PRINT #6;"J
                                                                                                                                                                                                               xx
4
3230 IF PEEK (53279 ) = 6 THEN Z = Z + 1 : IF Z > 10 THEN SOUND 0,30,10,5 : GOTO 3350
                                                                                                                                                                                                                        xxxx-'
                                                                                                                                                                                                      X-
3284 GOTO 3275
                                                                                                                                               4080 POSITION 1,11: PRINT #6;"K
                                                                                                                                                                                                                         xxxxx"
3285 IF RX < 1 THEN RX = 9
                                                                                                                                              4095 POSITION 1,12 : PRINT #6;"L
4090 POSITION 1.13 : PRINT #6;"M
                                                                                                                                                                                                      x-xx
                                                                                                                                                                                                               6
7
                                                                                                                                                                                                                         -xxxx'
3290 POSITION 16,5 : PRINT #6;RX : SOUND 0 ,30,10 ,5 : FOR I = 0 TO 30 : NEXT I : SOUND
                                                                                                                                                                                                                         —ххх
                                                                                                                                              4095 POSITION 1,14 : PRINT #6;"N
4100 POSITION 1,15 : PRINT #6;"O
0.0.0.0
                                                                                                                                                                                                               8
3295 IF RX = 9 THEN SIGNAL = 10 : QRM = 0
                                                                                                                                                                                                      -- 9
                                                                                                                                                                                                                --x"
3300 IF RX = 8 THEN SIGNAL =10 : QRM = 1
3305 IF RX = 7 THEN SIGNAL =9 : QRM = 2
                                                                                                                                              4105 POSITION 1,16: PRINT #6;"P
                                                                                                                                                                                                               0--
                                                                                                                                              4110 POSITION 1.17: PRINT #6:"G
3310 IF RX = 6 THEN SIGNAL = 9 : QRM = 3
                                                                                                                                               4115 POSITION 1,18 : PRINT #6;"R
                                                                                                                                                                                                      xxx
3315 IF RX = 5 THEN SIGNAL = 8 : QRM = 4
3320 IF RX = 4 THEN SIGNAL = 7 : QRM = 5
                                                                                                                                              4120 POSITION 1,19: PRINT #6;"S 4125 POSITION 1,20: PRINT #6;"
                                                                                                                                                                                                                         = DIT"
                                                                                                                                                                                                              Х
                                                                                                                                                                                                                                  = DAH'
3325 IF RX = 3 THEN SIGNAL = 5 : QRM = 6
3330 IF RX = 2 THEN SIGNAL = 4 : QRM = 7
                                                                                                                                              4130 POSITION 1,21 : PRINT #6;"U
4150 IF PEEK (53279) <> 7 THEN 4200
3340 IF RX = 1 THEN SIGNAL = 3 : QRM = 7
                                                                                                                                              4160 GOTO 4150
                                                                                                                                              4200 FOR T = 0 TO 5
4210 FOR 0 = 20 0 TO 10 STEP - 20
3345 RETURN
3350 Z=0 : POSITION 17,5 : PRINT #6;" "POSITION 17,6 : PRINT #6;"<" : FOR I = 0 TO 30 : NEXT I
 SOUND 0.0.0.0
                                                                                                                                               4220 SOUND 0,V,10,5 : SOUND 1,V+1,10,5 : SOUND 2,0+2,10,5 : SOUND 3,0+3,10,5 : NEXT V :
3355 IF PEEK (53279) = 5 AND CWL = 1 THEN SOUND 0,150,10,5 : GOSUB 3380
3360 IF PEEK (53279) = 5 AND CWL = 0 THEN SOUND 0,30,10,5 : GOSUB 3390
                                                                                                                                               4230 SOUND 0,0,0,0 : SOUND 1,0,0,0 : SOUND 2,0,0,0 : SOUND 3,0,0,0 : CODE=0 : GOTO 3000
3365 IF PEEK (53279) = 6 THEN Z = Z + 1 : IF Z > 10 THEN SOUND 0,30,10,5 : GOTO 3400
                                                                                                                                              5000 LENGTH = 0 : GRAPHICS 0 : SETCOLOR 4,12,7 : SETCOLOR 2,0,0 : SETCOLOR 1,0,0 :
3370 GOTO 3355
                                                                                                                                               POKE 752, 1: RETURN
3380 POSITION 14.6: PRINT #6:"NO.": CWL = 0: TYPE = 10: FOR I = 0 TO 30: NEXT I: SOUND
                                                                                                                                               5010 REM xxxxxxxxx C S BARLOW xxxxxxx
                                                                                                                                               5020 REM xxxxxxxxx C.S.BARLOW xxxxxxx
0,0,0 ,0 : RETURN
3390 POSITION 14,6: PRINT #6;"YES": CWL = 12 TYPE = 36: FOR I = 0 TO 30: NEXT I: SOUND
                                                                                                                                              5030 REM xxxxxxxxxx C.S.BARLOW xxxxxxx 5040 REM xxxxxxxxxx C.S.BARLOW xxxxxxx
0.0.0.0: RETURN
3400 Z = 0 : POSITION 17,6 :PRINT #6;" " : POSITION 17,7 : PRINT #6;"<" : FOR I = 0 TO 30 :
                                                                                                                                              5050 REM xxxxxxxxx C.S.BARLOW xxxxxxx
NEXT I: SOUND 0,0,0,0
                                                                                                                                               5060 REM xxxxxxxxxx C.S.BARLOW xxxxxxx
```

JAWBREAKER

Jawbreaker is a fascinating new disk based game for the ATARI personal computer.

3405 IF PEEK (53279) = 5 AND CWN = 1 THEN SOUND 0,150,10,5 : GOSUB 3430

It will run on an 800 machine with an 810 disk drive and a joystick. The object of the game is to move your player through a maze whilst 'eating' sweets in the process. Quite a simple game it may appear at first sight, however things are made more difficult by the fact that you are being chased by a number of unfriendly faces, who if successful in catching you, promptly remove all your teeth, without which you cannot continue to 'eat' sweets.

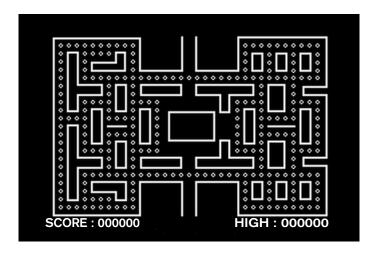
You have only three sets of teeth before the game ends. If you manage to eat all the sweets on the screen your teeth are given a quick brush (guaranteed to bring a smile to your face).

Each screen full of sweets gets progressively more difficult to eat as the chasing faces get faster and faster. Some help is given to you in the form of a spare set of teeth if you survive the third round.

A combination of speed, colour and some highly amusing graphics characters results in a totally riveting game.

Character movement through the maze is achieved by using player missile graphics so that movement is both continuous and very smooth.

Order As BQ26D (Jawbreaker) Price £22.95.



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ATARI NEWS

ATARI VIDEO GAME

Latest cartridge details

This month, details of five new cartridges and some advance information on cartridges to be released during 1982.

Super Breakout

For one or two players using paddles, this game cartridge contains nine different games. Games 1, 3, 5, 7 and 8 are for one player whilst games 2, 4, 6 and 9 are for 2 players. Games 1 and 2 are standard Breakout. In games 3 and 4 you have two paddles and two balls are served: this is Double Breakout. Games 5 and 6 are Cavity Breakout. You have two paddles, but only one ball is served. However, two other balls are trapped in the wall. You must knock the bricks out to release the balls, then use those balls as well.

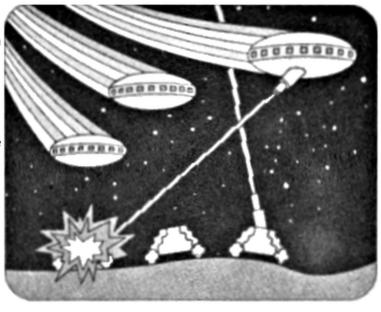
Game 7 is Progressive Breakout. When this game begins the play field contains four rows of bricks at the top of the screen, followed by four blank rows, then four more rows of bricks. As the game progresses the walls move towards the bottom of the screen and new bricks enter the top of the play field. Games 8 and 9 are especially easy versions of standard Breakout for young children. Order As AC48C (Super Breakout)

Price £29.95

Freeway

For one or two players using joysticks, this game cartridge contains eight games. In each game there are ten lanes of traffic, five in each direction. Your task is to get

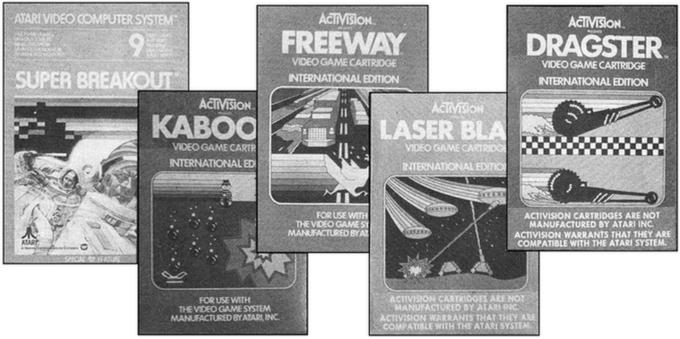
your chicken across the road in the shortest possible time. In games 1 to 4 the amount of traffic on the road and the speed at which they move gets higher as the game number gets higher. Games 5 to 8 are similar, but the speed of the traffic in each lane changes at random. Each game is accompanied by the sounds of a freeway: the drone of car and lorry engines and the toots from the horns of the vehicles. All games are for 1 or 2 player's. Order As AC51F (Freeway) Price £19.95



Dragster

For one or two players using joysticks, this game cartridge contains 2 games. In game 1 the dragster steers straight ahead, but in game 2 you can steer it. Both games are for one or two players. You're on the starting line and the clock is counting down to zero. You must get to the finish line in the shortest possible time. To do this you must clutch and shift through four gears always keeping your revs as high as possible. But watch your tachometer. If the revs stay too high for too long, you'll blow up.

Order As AC52G (Dragster) Price £19.95



Kaboom!

For one or two players using paddles, this game cartridge contains two games. Game 1 is you versus the "Mad Bomber" and game 2 is you and a friend taking turns against the Mad Bomber. The bombs are falling all around you and you must catch them in one of your three buckets of water. Each group of bombs dropped is more difficult to catch than the group before, but it scores more points. If you drop a bomb, all the bombs explode and you lose one of your buckets. Score over 3,000 points and you can join the Activision "Bucket Brigade", but to reach maximum points may be more difficult as the game scores up to 999,999!

Order As AC49D (Kaboom!) Price £19.95

Laser Blast

For one player using a joystick controller, this game cartridge contains one game with four levels of play. The difference between games is how rapidly the speed and firing rate of the enemy ground attackers improves as the game progresses. You control a spacecraft, firing your laser blaster at the enemy forces on the ground. Flying low to the ground will help you keep under the enemy's radar and undetected. However, each new wave of enemy attackers has a stronger force field which gradually pushes you away from the ground making you an easier and easier target. Now you must be very quick to avoid the enemy fire.

Order As AC50E (Laser Blast) Price £19.95

Coming Soon War Lords

Now planned for release in early February this cartridge has 28 games and uses paddle controllers.

Order As AC44X (War Lords) Price £29.95

Lots More Titles

There are lots more exciting new titles planned for release this year including Hot Rox, Berserk, Yar's Revenge, Pacman, Defender, Foxbat, Adventure I, Adventure II and Bridge. Full details in the next Maplin Magazine.

DIGITAL MILES-PER-GALLON METER by M. Wharton

- Save petrol with this easy to build device.
- Discover your car's most economical cruising speed.
- Large easy to read LED display.

ith the price of petrol continuing on its upward spiral, any device which can offer some means of economising on fuel consumption must be a winner! This mph meter uses readily available transducers and produces a continuous display of fuel consumption under all driving conditions. Using the meter, it is thus possible to compare the petrol used when accelerating and cruising at speed; it is also possible to find the driving conditions which yield the optimum fuel consumption.

The basis of the design is two transducers; one transducer produces a signal in response to the flow of fuel, whilst the other is connected into the speedometer drive cable and gives an output which corresponds to road speed. The meter takes these two signals and produces a continuous digital display of miles per gallon of fuel.

Circuit

The signal from the speed transducer is first "cleaned up" and then used to trigger a monostable, formed by IC1(c) and IC1(d), which has a very short time constant. At the same time, the signal from the fuel transducer is used to clock the divider, IC6. The chosen output from the divider is then used to trigger the dual monostable, IC5, in the following manner; a positive going edge

on pin 4 produces an output positive pulse of about 1 ms duration on pin 6; this is connected both to pin 11 of IC5 and pin 2 of IC6, triggering the second monostable on the falling edge and also resetting the divider. The same output is used as the latch signal for the display counter/driver. The two outputs, Q2 and Q2, from the second monostable are used to reset the display counter/driver and inhibit the scaling oscillator circuit via IC2(c) and IC2(d).

The purpose of the oscillator formed by IC1(a), IC1(b) and IC2(c) and the gated flip-flop formed by IC2(a), IC2(b) and IC2(d) is to enable the display to be calibrated to give a true reading and provides a means of taking into account the variety of different gearing ratios between engine and road wheels and the speedometer drive cable.

During the counting period, set according to the position of link 'A', this oscillator, in combination with IC3 and IC4, produces a series of pulses which are counted by IC7. By selecting a suitable link 'B', a wide variety of gear ratios may be accommodated and the unit calibrated accordingly to give an accurate reading of miles per gallon. The series of pulses counted by IC7 are then displayed at the end of the counting period by applying the latch signal. When IC6 is reset and the whole process commences again. IC7 and the associated transistors TR2, 3 and 4

provides all the necessary signals to drive an LED display.

Construction

Fuel Flow Transducer

This has to be fitted into the fuel line between the pump and the carburettor; it is not sensitive to the direction of fuel flow but it is recommended that it be positioned with the flow axis vertical to allow air bubbles to escape. It should not be mounted where it will be subjected to excessive heat (obviously!) or where ingress of water could

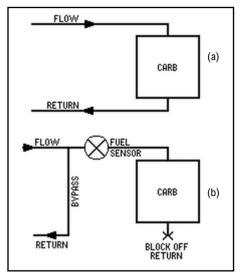


Figure 2. Pipe work for fuel circulation systems.

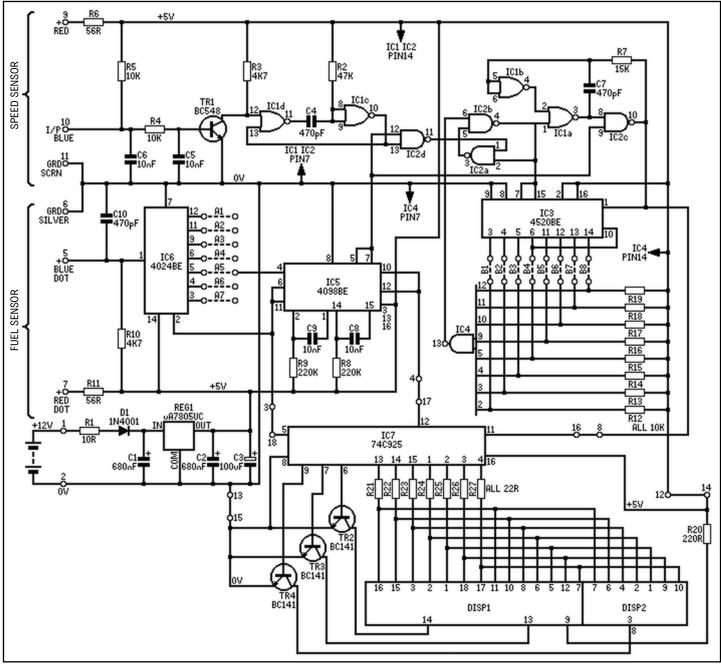
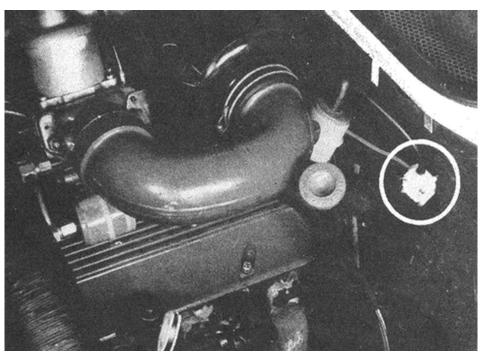


Figure 1. Circuit diagram for the MPG meter.

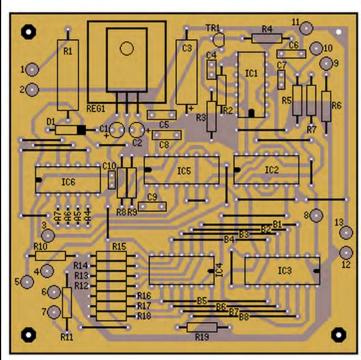
be a problem. The connecting cable is colour coded: Red: to +5V, through a current limiting resistor (included in the main circuit). Blue: signal output. Screening: connected to ground (0V).

Many modern cars have fitted some form of continuous fuel circulation between the tank and carburettor. This is to prevent evaporation of fuel and comply with various Federal and European regulations on emission control. In order to give a sensible reading, the fuel flow transducer must only have fuel passing through it which is used by the engine, and not that in continuous circulation. To achieve this it may be necessary to slightly modify the pipe work, usually by fitting some form of bypass between "flow" and "return" and fitting the transducer in the arm taken from the "flow" side, as in Figure 2.

This method may also be used on cars fitted with fuel injection, by placing the transducer in same position relative to the metering pump, i.e. in the low pressure feed



Flow transducer fitted in the fuel line.



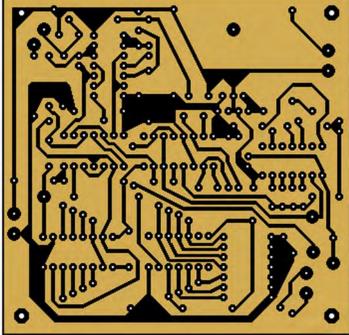


Figure 3. Main PCB track layout and component overlay.

line. (CAUTION: Under no circumstances attempt to fit it in the high pressure injector lines!) Care needs be exercised here as the feed pressure is important to ensure correct filling of the metering pump and without a constant flow through the pump, trapped air or vapour bubbles can present a problem.

Speed Transducer

To fit this, remove the speedometer cable and cut the outer sheath at the point where it is intended to fit the transducer: again, keep it away from heat and/or water. Make a second cut, removing 1/2 inch of the sheath from one of the cut ends and discard. Remove any burrs from the sheath ends. Remove any oil or grease from the inner core and replace it into the short sheath section. Place the transducer cable clamps, (use small jubilee clips or similar) on both ends of the transducer. Insert the loose end of the cable core into the single terminal end of the transducer and push through the internal friction bushing. This can be a tight fit, so take care not to kink or distort the inner cable. Tighten the clamp, but make sure the core is still free to rotate: some sheaths will require insulating tape wrapped over the end to make up the diameter to obtain a firm grip. Feed the loose cable core into the long sheath section until it also seats into the transducer and tighten the clamp carefully. Before refitting the speedometer cable to the vehicle make sure the inner core does not bind in any way - there should be about 1 mm of free movement along the axis of the transducer. Any tightness or binding will cause excessive cable wear or oscillation of the speedometer indicator needle. This is an operation which needs to be performed with care, making sure, for example, that there will be enough room for the

transducer in the position it is intended to fit before cutting the outer sheath.

Two PCBs are required. One is a display board and ideally should be fitted into the car dashboard, the other is the main logic board which holds all the major components and may be mounted in any convenient place out of sight. It is connected to the display board by only 5 wires. Note that one of the corner fixing holes in the main board is in the PCB 0V line, so that if the PCB is fixed to the car chassis the 0V line will be grounded.

Construct the main PCB. First insert all links (only some of links A1-7 and B1-8 will need to be made). Next fit IC holders, resistors, diode, transistor and capacitors, taking note of polarisation. Mount the regulator REG1 onto the PCB. Smear the mica washer both sides with heatsink compound and position onto the T0126

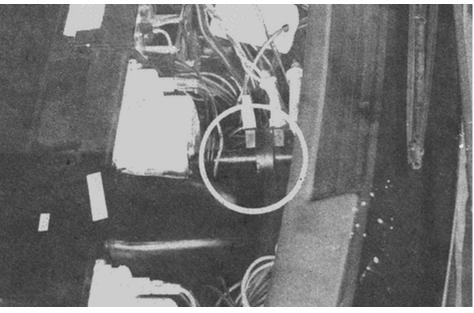
heatsink. Bend the regulator REG1 over onto the heatsink and bolt through the PCB. Finally, fit the Veropins and ICs.

Now construct the display board. Fit all links, resistors and transistors, then fit displays noting that on the side of display 1, the 'M' in the code number relates to pin 1 and for display 2 the dot on the display is next to pin 4.

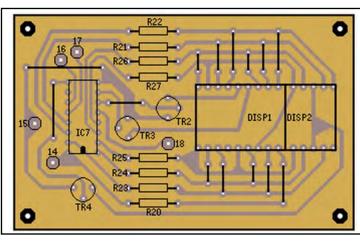
Finally fit the IC holder and IC7 and insert Veropins from the component side so they protrude from the rear for ease of wiring.

Calibration

To ensure that the display gives a true reading, it is necessary to set the links between IC3 and IC4 to give the required scaling factor. To do this accurately the speed of rotation of the speedometer cable needs to be known at, say, 30 mph.



Speed transducer fitted in the speedometer cable.



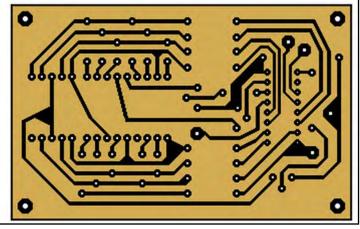


Figure 4. Display PCB track layout and component overlay.

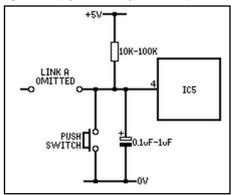


Figure 5. Calibration circuit.

Sometimes it is possible to obtain such information from the manufacturers, when it is often given as the number of turns per mile travelled. If this is not known, then the meter itself may be used to measure the required output frequency from the speed transducer. To do this, omit IC6 and set link 'B' temporarily to position T. The circuit shown in Figure 5 can then be used to provide pulses for IC5.

Measurement of the output frequency is obtained by first driving the car at a constant speed of 30 mph, indicated by the speedometer; the push switch is closed and then opened at the start of a timed interval of 10 seconds. At the end of this time the switch is closed and allowed to open on the ten second mark. The display should then show the required frequency (ignoring the decimal point on the display). The value should be expected to be in the range 100 Hz to 200 Hz and it would be a good idea to take an average of several such readings.

The scaling factor for the counter circuit can then be found from the following equation using the appropriate values:

where X is the division ratio of the 4024 divider selected, Y is the frequency obtained above and n is the scaling factor. For example, if the divider is set on '8' and the frequency at 30 mph is 140 Hz, then

$$\frac{8.5 \times 3000}{8 \times 140}$$
 = 22.76

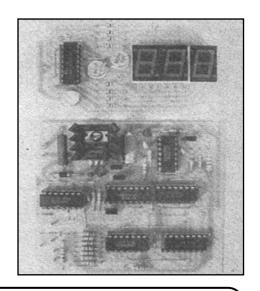
This must be rounded to the nearest whole number, in this case 23.

The factor is set by connecting the appropriate links between IC3 and IC4, each link having the following "value":

LINK B	1	2	3	4	5	6	7	8
VALUE	1	2	4	8	16	32	64	128

So to set a scaling value of 23, the links number 1, 2, 3 and 5 would be made; i.e. value = 1+2+4+16 = 23.

If it is chosen to set the 4024 divider to some ratio other than 8, then the scaling factor would need to be altered accordingly. The choice is not critical, but it should be remembered that whilst low division ratios will give a more instantaneous reading of mpg, such variations as fuel pump surges will give a fluctuating display; higher division ratios will allow more time for these variations to be averaged out, and a ratio of 8 is suggested as a starting point.



MPG METER PARTS LIST			
Resistors - All 1/4 w	att 5% carbon unles	s specified	
R1	10R	3W Wirewound	1
R2	47K	Yellow Violet Orange	1
R3, R10	4K7	Yellow Violet Red	2
R4, R5,			
R12 to R19	10K	Brown Black Orange	10
R6, R11	56R 1/2W	Green Blue Orange	2
R7	15K	Brown Green Orange	1
R8, R9	220K	Red Red Yellow	2
R20	220R	Red Red Brown	1
R21 to R27	22R	Red Red Black	7
Capacitors			
C1, C2	680nF 35V tantalu	m	2
C3	100µF 10V axial el		1
C4, C7, C10	470pF ceramic	ectiorytic	3
C5, C6, C8, C9	10nF monocap		4
,,,	•		
Semiconductors			
IC1	4001BE		1
IC2	4011BE		1
IC3	4520BE		1
IC4	4068BE		1
IC5 IC6	4098BE		1 1
IC7	4024BE 74C925		1
REG 1	µA7805UC		1
D1	1N4001		1
TR1	BC548		1
TR2, TR3, TR4	BC141		3
Miscellaneous			
DISP 1	DD display type C	- 4	1
DISP 2	½ inch display type	e 4	1
	T0126 heatsink	a kit	1
	Transistor mounting Heatsink compoun		1 1
	DIL Socket 14-pin	u e	4
	DIL Socket 14-pin		3
	Single-sided PCB	pins	18
	J	1	•

CB EQUIPMENT FROM MAPLIN



40-Channel FM Transceiver

A good quality CB transceiver to the UK specification (CB 27/81). Similar to sets selling at £79.95 we have cut out the importers and wholesalers margins by importing direct, to save you up to £30. All units are tested in our laboratory before despatch. Here's a run-down on the facilities offered.

- 40-channel 27 MHz FM
- Transmit power/received signal strength meter
- Public address/CB switch
- LED channel indicator with dim control
- · Receive volume control
- 4 watts output

- · RF gain control
- Squelch control
- Microphone with curly lead and locking connector
- Extension speaker socket (3.5 mm jack required)
- PA speaker socket (3.5 mm jack required)
- Supplied complete with microphone, fixing brackets for unit and microphone, connecting leads with fuse and instruction leaflet with 10-code etc.

This excellent unit will be available from mid-March at this amazing price inclusive of VAT and P&P.

Order As AF46A (CB Model GT-868)



Many of the lower priced power units offered for sale are very dangerous, but this unit meets the British safety standards. The unit will easily drive any CB set and all accessories. The power unit will deliver a regulated 13.8 volts at any current up to 3A continuous, 5A surge. It is short-circuit protected and is fitted with a fuse. There is an on/off switch and power on indicator and approx. 2 metres of 3-core flex for connection to 240V mains. Overall size 155 x 115 x 60 mm.

Order As XG10L (12V 3A Power Unit)
Price £16.95

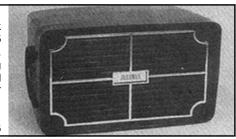


CB Extension Speaker

A deluxe CB extension speaker in a black plastic cabinet with silver trim. Fitted with a 5 inch x 3 inch speaker rated at 8 watts, 8 ohms. Supplied complete with adjustable mounting bracket and approx. 2.5 metres lead terminated in a 3.5 mm plug. Overall size 147 x 104 x 100 mm.

Order As YK29G (Ext CB Speaker)

Price £7.45

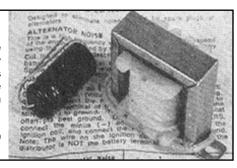


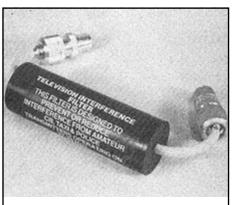
Car Stereo and CB Noise Filter

A high inductance choke designed to be connected in series with the 12V power supply line of a car stereo or CB set. A capacitor is also included which between them reduce alternator and ignition noise. Supplied with instructions.

Order As YL42V (Filter Choke)

Price £1.99





TVI Filter

A high quality filter designed to be inserted in the aerial leads of TV sets suffering from interference from CB transmissions. The filter is peaked to reject signals from transmitters operating on 27 MHz to 28 MHz while giving a very low insertion loss to UHV TV signals. The unit plugs directly onto the end of the existing TV aerial lead.

Order As YL43W (TVI Filter) Price £5.25



Noise Filter System

A unique combination of filters designed to eliminate interfering noises from various sources in the car. The ignition noise suppressor plugs directly into the distributor cap and is inductive rather than the usual resistive type thus keeping the DC spark voltage high, but offering very high resistance to high frequency signals. The normal, type of resistive suppressor does reduce the efficiency of the engine and makes the car harder to start in cold weather. A large filter is included for connection in the live and return paths of the power supply to the CB set giving a very high immunity to noise entering the set by this route. An alternator noise filter and generator noise filter are also included. The one not required by your car can be used to suppress for example the turn indicators, or windscreen wiper motor etc. The units are attractively packaged and supplied with detailed instructions.

Order As YK30H (Noise Filter System)

Price £10.95



CB Antenna Converter

Now you can use your existing car aerial to receive and transmit from your CB set. Simply unplug aerial from radio and connect the three leads supplied with the converter as shown in the instructions. The leads are ready terminated with correct plugs and sockets for direct connection. A mounting kit is also supplied. The front panel of the converter has a switch for CB or radio, an SWR adjustment control and an indicator lamp that should light when transmitting. Overall dimensions 85 x 60 x 50 mm.

Order As YL44X (CB Aerial Converter) Price



CB/Car Radio Aerial Coupler

This unit enables the CB and radio set to share the one CB aerial. The existing CB aerial connects directly to the socket on the coupler whilst two leads are provided, one terminated in a standard plug for direct connection to the CB set and one terminated in a car aerial plug for direct connection the radio set. Trimmers for the CB and the radio can be adjusted through holes in the front of the coupler. Overall size 67 x 46 x 30 mm.

Order As YQ73Q (CB/Radio Aerial Coupler)
Price £5.49



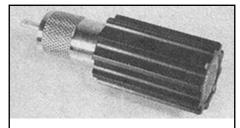
CB Aerial Matcher

A very useful accessory for all CB sets as careful adjustment can greatly improve matching of rig to aerial. Fitted with two S0239 sockets, the unit is rated at 100W. Overall size 78 x 55 x 40 mm.

Order As YQ74R (CB Aerial Matcher)

Price £5.25

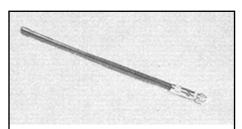
CB EQUIPMENT FROM MAPLIN



Dummy Load

A dummy load rated at 30 watts for testing and setting-up CB and amateur radio transceivers. The dummy load has a nominal 50 ohms impedance and is terminated in a PL259 plug. Order As HL94C (30W Dummy Load)

Price £6 75



SWR Meters, Mount and Rubber Duck

Check out our large range of excellent SWR meters and testers shown on pages 294 and 295 of our catalogue, our magnetic base on catalogue page 20 and our 27 MHz rubber duck that was described in a recent newsletter. The price of the rubber duck is shown under 'Aerials' in our new item price list on page 29 of this magazine.

More UHF Plugs and Sockets

In addition to our existing range of UHF-type plugs and sockets shown on page 77 of our current catalogue, we are introducing five new types.

Right-Angle Plug (PL259)

A standard PL259 plug with a right angle cable input and reducer for connection to RG58/UR76-type cable.

Order As HL95D (RA PL259 Plug)

Price 85p

Quick-Connect Plug (PL259)

This adaptor has a S0239 socket into which a standard PL259 plug connects. The other end of the adaptor is a PL259 plug without the usual screw fixing. Instead there is a sprung surround so that the plug may be push fixed onto the socket for quick connection and disconnection.

Order As HL96E (Quick-Connect PL259)
Price 99p

Female T-Adaptor

Adaptor to couple three PL259 plugs together.

Order As RK00A (UHF Female T Adaptor)

Price £1.75

Lightning Arresters Adaptors

On both these adaptors a terminal is attached for connection to earth. In the event of a lightning strike, the current is diverted to earth thus protecting the equipment. Two types are available.

Female/Female

A straight through adaptor for connecting two PL259 plugs together with provision for connecting an earth wire.

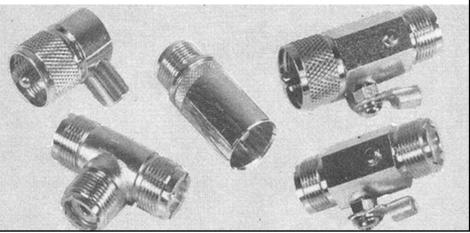
Order As RK01B (UHF Adaptor FFLA)

Price £1.65

Male/Female

A straight through adaptor for connecting a PL259 plug to an S0239 socket, but with provision for connecting an earth wire. **Order As RK02C (UHF Adaptor FMLA)**

Price £1.75



GROUND PLANES

For aerials not mounted on vehicles, a ground plane must be provided which could consist of two or more pieces of 32/.02 wire (or similar) stretched away from a metal plate on which the aerial is mounted. The wires should be connected to the plate (which should already be in connection with the outer screen of the feeder cable via the aerial mounting) and each should be at least 2 metres long. Adjust the lengths and position the wires to obtain the lowest SWR reading. The position of the feeder may also have an effect. It should be easy to obtain readings better than 1.5:1.

Note that large metal objects such as water tanks will affect the performance. It is also important to note that if the SWR reading is worse than 3:1 when you begin, then transmit for as short a time as possible. You will need to have the metal plate supported about 3 cm above the ground in order to give clearance for the fixing and connector. There are two alien screws in our CB aerial which when loosened allow the rod to be extended or shortened slightly. This adjustment may also be used to improve the SWR. It should therefore be possible to reach an SWR of 1:1 on channel 20 by careful adjustment.

CB EQUIPMENT FROM MAPLIN

CB Microphones

With all these microphones, a plug to suit your CB set is required.

Hand-Held Power Microphone With Roger Beep

A hand-held microphone with internal preamplifier powered by a standard PP3 battery (not supplied). An internal switch is provided that may be changed over if battery is flat or not installed so that microphone may still be used, but not amplified. A slide volume control is fitted and a red LED lights when transmitting (if the battery is OK).

When the transmit switch is released, a "Roger" beep is transmitted to alert the other party.

Specification:

Type: Dynamic moving-coil omni-directional

Impedance: 10K

Output level: -35 dB (with pre-amp)

-78 dB (without pre-amp) Max output: 1.5 volts

Frequency response:

300 Hz to 6 kHz (with pre-amp) 300 Hz to 8 kHz (without pre-amp)

Cable: 1.8 metres coiled 4-core screened lead Dimensions: 92 x 60 x 38 mm Weight:

210 grams

Supplied with connection diagram.

Order As RK03D (Power Mic DM313P) Price £11.75

Base Station Microphone With Compressor

A base station microphone with built-in preamplifier and compressor amplifier powered by a standard PP3 battery (not supplied). A slide volume control is fitted and a red LED lights when transmitting (if battery OK). The compressor allows maximum power signals (full deviation) at all times without distortion. A switch is provided in the base so that the same connections may be utilised whether the transceiver utilises relay or electronic switching. A large transmit plate is provided along with a locking facility. The microphone head is vertically adjustable and the whole unit is built in a bronze-colour Diecast metal body.

Specification:

Type: Dynamic moving coil uni-directional Output level: -25 dB Impedance: 4K Frequency response: 200 Hz to 5 kHz

Compression level: 40 dB

Cable: 1.8 metres coiled 4-core screened

lead

Height: 235 mm

Supplied with connection diagram.

Order As XG11M (Base Station Mic DX357) Price £33.50

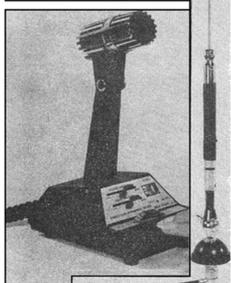
Other CB Microphones and Holders

A range of other microphones designed for use with CB transceivers including some









holders for hand-held microphones are shown in our current catalogue.

Hand-Held Power Microphone With Compressor And Roger Beep

A hand-held microphone with internal preamplifier and compressor amplifier powered by a standard PP3 battery (not supplied). A slide volume control is fitted and a red LED lights when transmitting (if the battery is OK). The compressor allows maximum power signals (full deviation) at all times without distortion. When the transmitter switch is released, a "Roger" beep is transmitted to alert the other party.

Specification:

Type: Dynamic moving coil omni-directional Output level: -28 dB Max output: 40 mV

Impedance: 3K

Frequency response: 300 Hz to 8 kHz

Compression level: 40 dB

Cable: 1.8 metres coiled 4-core screened

Dimensions: 96 x 60 x 40 mm

Weight: 225 grams

Supplied with connection diagram. Order As RK04E (Power Mic DM311P) Price £13.95

Base Station Microphone With Level Meter

A base-station microphone with built-in preamplifier powered by a standard PP3 battery (not supplied). A slide volume control is fitted and a red LED lights when transmitting (if battery OK). A slide tone control is also included and a transmitted signal level meter so that volume can be set accurately. A large transmit plate is provided along with a locking facility. The microphone head is vertically adjustable and the whole unit is built in a black Diecast metal body.

Specification:

Type: Dynamic moving coil unidirectional Output level: -35 dB Max output: 1.5 volts Frequency response: 250 Hz to 8 kHz

Impedance: 1K

Tone control: +10 dB at 1 kHz

Cable: 1.8 metres coiled 4-core screened

lead

Height: 225 mm

Supplied with connection diagram.

Order As XG12N (Base Station Mic **BSA610A)**

Price £33.50

CB Aerial

A CB aerial that meets the UK legal requirements. The aerial has a 1.5 metre long stainless steel rod and a loading coil at the base. The unit is supplied with a ball mount, connector and a 5 metre lead terminated with a PL259 plug.

Order As XG13P (1.5m CB Aerial)

Price £13.95

AMENDMENTS TO CATALOGUE

Please amend your 1981 catalogue as follows:

Page 17/18

BW46A, 47B and 48C are replaced by the UP1300/W which is a wide band amp covering the whole UHF band. The new amp gives a typical gain of 13 dB and a much improved noise figure of typically 2.5 dB.

BW49D is replaced by the UP1300/V which has a typical gain of 19 dB and a 2.5 dB noise figure.

BW50E is replaced by the PU1240 which is electrically the same as the PU102, but is in a box like YQ22Y and has coax sockets for both sides of the aerial lead, instead of screw terminals, making connection simpler.

Page 20

Telescopic Aerial (LB10L) now only 4 foot long and slightly thicker at base.

Page 22

Mains adaptor (YB22Y) and (XX09K) are now the same item and should be ordered as (XX09K). This new adaptor will deliver 300 mA max and may be switched to any of the following voltages: 3V, 4.5V, 6V, 7.5V, 9V and 12V DC.

Page 38

Box PB1 Black (LH14Q) is now being supplied moulded in grey not black plastic.

Page 47

XY17T and XY18U are now being supplied in a smaller size. New size is 33 x 12 inch (835 x 305 mm).

Page 70

Electric pump XY74R is now supplied complete with a pressure gauge. Suppressor capacitor HW02C is $1\mu F$.

Page 93

Stereo headphone (LH85G) is now styled slightly differently from the one shown in the catalogue.

Page 104

5A Plug (HL57M) is Bakelite and not nylon.

Page 107

Touch Dimmer(FQ14Q) is 250 watts (not 630 watts).

Page 115

Order codes for Slotted Nuts are WL43W (Collet Rd Nut 3/8 inch) and WL44X (Collet Rd Nut 10 mm).

RX38R, Ebonite Rod is now being supplied in nylon.

Page 133

1 mm light guide (XR56L) now being supplied with black protective sheath. Overall diameter 2.2 mm.

Page 137

The space sound units are now being supplied in slightly different sizes.

Page 154

BB67X (3600 VCF Mtg Bkt) should be included in the list under the heading "Mounting Brackets".

Page 182

Please note picture of stylus 29 is incorrect. The shaft is round not square. The picture of stylus 31 is also incorrect.

Page 184

Musicentre kit C113 (LX03D) is supplied with one bottle of fluid only.

Page 186

Cassette Splicer (YW90X) is now being supplied with one reel of splicing tape.

Page 201

QH55K (MJE2955) is now being supplied as TIP2955 and QH56L (MJE3055) as TIP3055. Please note Vcbo is now 100V, Vebo is now 7V, Ic (max) is now 15A, and the pin-out is now style P3c.

Page 229

In suggested PSU for LM383, the top end of the Std Res 100R should be connected to the collector of Q1 NOT the emitter.

Page 232

The pin-outs for the NE571 and TDA3410 are swapped over.

Page 235

The delay given by the TDA1022 is between 512us and 51.2ms and not as stated in line 2.

Page 243

In Parts List C11 is BX11M price 9 pence.

Page 245

The IC pin numbers in the right-hand drawing under the heading LM3911 are incorrect. The left-hand drawing is correct.

Page 255

The pin numbers on the IC package drawing under the heading L200 are in reverse order. They should be in sequence with 5 at the top and 1 at the bottom.

Page 258

QQ04E 6402 UART is now being supplied coded CDP1854ACE. These two parts are identical.

Page 266

Small Thermpath (HQ00A) is now supplied in 10 gram tubs.

Page 276

Dual rocker neon (YR70M) requires a panel cut-out 29 mm x 22 mm.

Page 282

Footswitch (LB64U) is supplied with a 2.5 mm plug fitted to the lead.

Page 299

Crimp tool (FY31J) is improved with an additional 1 mm stripper and crimps for 1.5, 2.5, 4 and 6 mm press terminals.

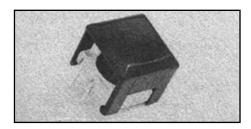
Page 301

Needle file set (YW63T) now contains only 10 files; there is one flat warding and one hand file, not two of each.

Page 319

The alphabetical order under S is incorrect. "Semiconductor Finder" should come after "Self-Tapper's" and "Stand-offs" after "SRBP".

MAPLIN NEWS



Click Switch

A neat, small and very low-cost push-switch in a matt black finish for direct PCB mounting. The switch has a smooth, gentle, but positive action with a clock-effect to let you know switch has operated. Action is singlepole push-to-make non-locking and one contact is connected to two pins, one on either side of the switch to ease PCB track layout.

Specification:

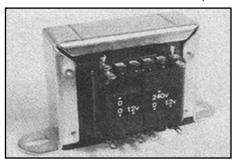
Contact rating: 10 mA max. Contact resistance: < 1 Ω < 5ms Bounce: >2.5 x 10 operations Life:

Key travel: 0.5 mm

12.3 mm x 12.3 mm Size of button:

Height from PCB 11.5 mm Pin length: 3.5 mm Pin diameter: 0.8 mm 10 x 4 mm Pin spacing: Order As HY34M (Click Key Black)

Price 24 pence



12V 1/2A Mains Transformer

A 240V mains transformer to complement the range shown on catalogue page 312. Conforms to BS415. The transformer has two secondaries 0 to 12V at 0.5 A plus 0 to 12V at 0.5 A. Total rating: 12 VA. Overall size (w x d x l); 55 mm x 45 mm x 42 mm. Fixing centres: 70 mm.

Order As YK28F (Tr 12V 0.5A)

Price £4.25



Rectangular Multicolour LED

A single LED with three leads that can be made to emit light of any colour in the spectrum from green through to red. The LED is encapsulated in a rectangular 5 mm x 2.5 mm package of clear resin.

Specification:

Red Green Forward current 20 mA 20 mA Forward voltage 2.2 V 2.4 V Light intensity 2mcd 2mcd Wavelength 630nm 560nm

Max forward current 30 mA 30 mA

Centre lead: Red and green cathode (-) Outer long lead: Green anode (+)

Outer short lead: Red anode (+)

Order As QR54J (Rect Multicolour LED)

Price 75 pence

The Spectrum Synthesiser

A new monophonic, switch-linked, two oscillator synthesiser featuring advanced specification, constructional simplicity and low cost. Modulation, timbre control and interface facilities not found on any comparable synthesiser make it extremely powerful and versatile for keyboard playing, sound effects and many other home, stage or studio applications. Construction is simplified by the use of integrated circuits that each perform major synthesiser functions with few external components. The six CEM3300 series IC's are available from Digisound Ltd., 13 The Brooklands, Wrea Green, Preston, Lancs PR4 2NQ for £32.43 including VAT and P&P, but all the rest of the components for the Spectrum are now available from Maplin as a complete kit for just £167.50 including VAT and P&P! A book containing all the construction details, circuit descriptions etc. is also available from Maplin for just £1.

Order As XH56L (Spectrum Synth Book)

Price £1 NV

LW60Q (Spectrum Synth Kit)

Price £167.50

Sheet-Metal Punch For Quick-Fit Meters

A punch for sheet metal up to 16 swg mild steel, to suit our guick-fit panel meters. Punch is supplied with alien key and full instructions for use.

Order As RK20W (Punch 27.5mm)

Price £5.65



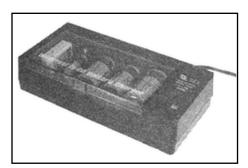
A new range of square-faced meters requiring just one round fixing hole to mount. A special punch is available to suit this meter and details are given below. The meter barrel is threaded and is tightened to a panel by a single large nut. A large PVC washer is also supplied to enable a tight fix without straining the plastic moulding. The front of the meter is a clear acrylic which may be unclipped.

Dimensions: 32 mm x 32 mm face; overall depth 34 mm; depth from back of front face 23 mm. Fixing hole required: 27.5 mm diameter.

The following types are available:

Full Scale Internal Deflection Resistance Type 50-0-50μA DC 20000 Quick-fit Meter 50-0-50 100-0-100µA DC 15000 Quick-fit Meter 100-0-100 50µA DC Quick-fit Meter 50µA 45000 100µA DC 20000 Quick-fit Meter 100µA 500µA DC Quick-fit Meter 500µA 4000 1mA DC 1000 Quick-fit Meter 1mA 5mA DC 100 Quick-fit Meter 5mA 10mA DC Quick-fit Meter 10mA 100 50mA DC 100 Quick-fit Meter 50mA 100mA DC 100 Quick-fit Meter 100mA 500mA DC Quick-fit Meter 500mA 100 1A DC 100 Quick-fit Meter 1A 5A DC 100 Quick-fit Meter 5A 25V DC Quick-fit Meter 25V 1000 50V DC 1000 Quick-fit Meter 50V VU Meter 1500 Quick-fit Meter VU

RK21X (Quick-fit Meter 50-0-50) Price £2.95 RK05F (Quick-fit Meter 100-0-100) Price £2.95 RK06G (Quick-fit Meter 50µA) Price £2.95 RK07H (Quick-fit Meter 100µA) Price £2.95 RK08J (Quick-fit Meter 500µA) Price £2.95 RK09K (Quick-fit Meter 1mA) Price £2.95 RK10L (Quick-fit Meter 5mA) Price £2.95 RK11M (Quick-fit Meter 10mA) Price £2.95 RK12N (Quick-fit Meter 50mA) Price £2.95



Universal Ni-Cad Battery Charger

An attractively finished nickel-cadmium battery charger capable of charging up to one PP3 and any four AA, C or D cells or any combination of these simultaneously. A test position is provided for AA,C or D cells which gives an indication of current state of charge. Each of the five battery positions has its own LED "charge" indicator. The unit is housed in a black plastic moulding with a hinged clear plastic dust cover. Overall size: 210 x 100 x 50 mm. Supplied with approx. 1.8 metres lead for connection to 240V AC mains and full instructions.

Order As YK31J (Universal Ni-Cad Charger)

Price £8.95



Foot Switch

A tough shatterproof ABS box with scratch resistant textured finish and non-slip rubber base pads. Large, easy-to-use foot-operated actuator has push-on, push-off action. Specification:

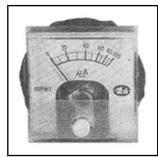
Max voltage: 125 volts Max current: 0.5 A

Switch life: 100,000 operations Contact resistance: 5 M Q

The box has a knock-out to fit an LED and a position to stick on a name or logo, and is supplied with 2.5 metres of single core screened lead terminated in a standard (1/4 inch) mono jack plug. Overall size: 121 x 82 x 46 mm.

Order As YK26D (Pedal Switch Box)

Price £5.95



RK13P (Quick-fit Meter 100mA) Price £2.95 RK14Q (Quick-fit Meter 500mA) Price£2.95 RK15R (Quick-fit Meter 1A) Price £2.95 RK16S (Quick-fit Meter 5A) Price £2.95 RK17T (Quick-fit Meter 25V) Price £2.95 RK18U (Quick-fit Meter 50V) Price £2.95 RK19V (Quick-fit Meter VU) Price £2.95

CLASSIFIED

MUSICAL FOR SALE

TRANSCENDENT 2000 synthesiser for sale, fully working. £250. Phone Ilminster (04605) 2950.

MAPLIN 3800 synthesiser fully assembled and tested. Includes Mike Beecher's "How to Play", and construction manual. Tel. (0429) 81264 after 6 p.m.

MAPLIN 4600 synthesiser in 5600 case. Excellent instrument with unlimited variation of sounds. Will accept £450 o.n.o. Mark Ingram, 70, Westwood Hill, East Kilbride, G75 8DW, Scotland.

LOWREY TEENIE Genie electronic organ and stool. Many voices including vibra-harp, Hawaiian guitar, mandolin etc. Very good condition. Bargain at £300 o.n.o. ,Tel. (09924) 62931.

UNUSED PARTS. Spring line XL08J £4, MES Driver XB85G £5; Keyboard XB15R with contacts £25. Or £30 the lot. N. Burroughs, Luton (0582) 598131, after 6 p.m.

SELLING DM02T and six SAM77, never used. E. Matthews, 63 The Oval, Otley, West Yorks, LS21 2FF.

JEN SX2000 synth, fair condition, £100. A. Cox, The Vicarage, South Petherwin, Launceston, Cornwall, PL15 7JA.

32-NOTE RCO pedal board with jacks, oscillator, tone forming and power units, keyer kit, all unassembled, offers. Parkins, 12, Moor Lane, Ponteland, Northumberland.

If you would like to place an advertisement in this section then here's your chance to tell Maplin's 120,000 customers what you want to buy or sell, absolutely free of charge. We will publish as many advertisements as we have space for. To give everyone a fair share of the limited space, we will print 30 words free of charge. Thereafter, the charge is 10 pence per word.

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To reply to box numbers address your letter to: The Advertisement Manager (Box....), Maplin Mag, P.0. Box 3, Rayleigh, Essex, SS6 8LR.

COMPUTERS FOR SALE

PET 2001, new ROMs 8K. Manuals, programs, TIS workbooks. Excellent condition, £290 o.n.o. Carrickfergus 66516 (Co. Antrim).

ZX81 SOFTWARE - 10 1K games on cassette -£2.50, listings 20 pence each, e.g. Canyon! (uses M/C), Destroyer, Galaxians, Shuttle. Holo, Lander. (16K coming soon, sae for details). C.W.O. to A. Laird, 9 Franklin Road, Saltcoats, Ayrshire, KA21 5AT.

TEXAS INSTRUMENTS home computer: advice, lists, debugs, bespoke programs, assistance of any kind. Please send sae to Stephen Shaw, 10 Alstone Road, Stockport, Cheshire SK4 5AH.

ZX81 + 16K RAM pack, Sinclair tapes, other taped software, books, PSU and all leads. £90. Tel. 01-455 1652 evenings only.

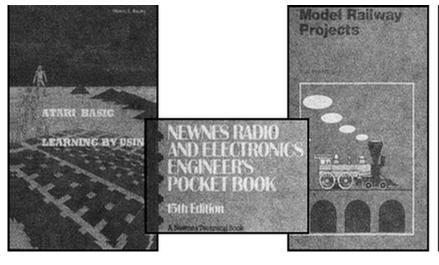
VARIOUS FOR SALE

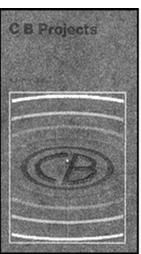
ICOM IC260E 2m multimode transceiver with accessories, manual. 18 months old. Good, clean condition. £230. Andrew Stone, 01-399 0147 (term time only).

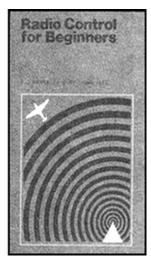
MABUCHI RS380 6V motors and variable resistor speed controllers. Ideal for Robots and other models. Both items ex. new equipment, £1.75 per item. D. Nicholls, 'Haulfre', Tan Lan, Ffynnongroew, Holywell, Clwyd.

P.E. VDU (built), additional IC's, TTL cookbook, £15. Reply to Box No. 1 (see note in column 2).

MAPLIN'S TOP TWENTY BOOKS







- 1. (-) Atari Basic Learning By Using by T. E. Rowley (WG55K)
- 2. (1) Z80 IC's Data Sheets (RQ54J)
- 3. (2) How To Make Walkie-Talkies by F. G. Rayer (RF18U)
- 4. (10) Adventures With Microelectronics by Tom Duncan (XW63T)
- 5. (-) Model Railway Projects by R. A. Penfold (WG60Q)
- 6. (6) IC555 Projects by E. A. Parr (LY04E)
- 7. (-) CB Projects by R. A. Penfold (WG73Q)
- 8. (4) Power Supply Projects by R. A. Penfold (XW52G)
- 9. (3) How to Build Your Own Solid State Oscilloscope by F. G. Rayer (XW07H)

- 10. (9) Towers' International Transistor Selector Update 2 by T. D. Towers (RR39N)
- 11. (29) Newnes Radio And Electronics Engineer's Pocket Book (RL06G)
- 12. (15) Basic Electronics Set (XX10L)
- 13. (11) Programming The Z80 by Rodnay Zaks (XW72P)
- 14. (16) Programming The 6502 by Rodnay Zaks (XW80B)
- 15. (5) Remote Control Projects by Owen Bishop (XW39N)
- (7) Electronic Synthesiser Projects by M.
 K. Berry (XW68Y)
- 17. (24) Radio Control For Beginners by F. G. Rayer (XW66W)
- 18. (30) Beginners Guide To Digital Electronics by I. R. Sinclair (XW64U)

- 19. (13) BASIC Computer Games by D. H. Ahl (RQ21X)
- 20. (19) Z80 Instruction Handbook by Nat Wadsworth (RL39N)

Note. For prices see page 29 of this magazine. Full details were published in issue 1.

These are our top twenty best-selling books based on mail-order and shop sales during November, December 1981 and January 1982. Our own publications and magazines are not included. We stock over 325 different books relating to electronics and the. full range is shown in this magazine and on pages 23 to 37 of our 1981/2 catalogue.

MATINEE ORGAN UPDATE

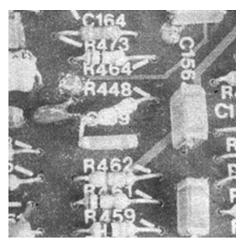


Figure 1. Connecting capacitor in series with R448. See note 5.

The Matinee help-line has been found very useful by constructors and at the same time we have been able to keep closely in touch with the kinds of problems experienced by constructors. If you are suffering from any of the following problems then here are the cures suggested by ourselves and other constructors.

- 1 If the delayed vibrato preset RV29 range is not very useful, change C126 to a 33µF 16V to give more control over the useful range.
- 2 If you are suffering from a click when S36 is operated, then fit a 0.1 μF polyester capacitor between pins 1 and 2 of PL6.
- 3 If the overall volume of the flute draw bars is too

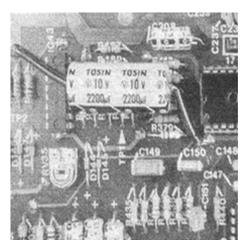


Figure 2. Decoupling power rail. See note 6.

low then change R486 to 12K Resistor

- 4 Some constructors feel that the cello sound is enhanced by making C159 a 12nF carbonate capacitor.
- The setting of RV36 is sometimes affected by the position of the cello draw bar. If you have this problem, connect a 1μF 35V tantalum capacitor in series with R448. Lift the left-hand end of the resistor and connect the negative of the capacitor to it with the positive of the capacitor connected to the PCB as shown in Figure 1.
- 6 If background hum is noticeable, add a 2200μF, 10V axial with the positive end connected to the track pin near the legend "C213" and the

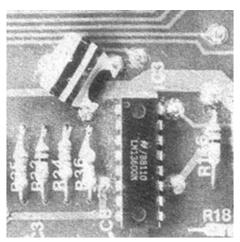


Figure 3. Reduction of interference from sampling clock on pedal wires. See note 8.

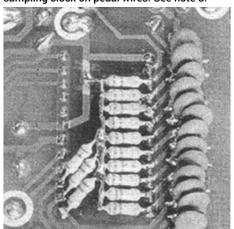


Figure 4. Decoupling the inputs to IC1. See notes 9 & 10.

- negative end connected to the track pin near pin 1 of IC44 as shown in Figure 2.
- 7 If the harpsichord is too loud in relation to other preset stops then change R554 to a Resistor 4K7.
- If you notice a background whistle when the pedals are pressed then connect a 0.1μF polyester capacitor to the track pin at the top of R36 and the track pin next above it to the right. See Figure 3.
- 9 If you hear an odd discordant rasping sound occasionally whilst playing the pedals then fit 13 Resistors 220K to pins 3 through 15 of IC1 and join the other ends of the resistors together and connect them to the track going to pin 19 of IC1 by carefully scratching off the solder resist. See Figure 4

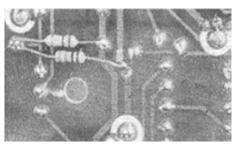


Figure 5. Providing a discharge path for C11. See note 11.



Figure 6. Decoupling sampling clock. See note 16

- 10 If the pedal notes occasionally cut-off suddenly during sustain time, this is due to mains interference being picked up on the ribbon cable. To eliminate the problem, connect 13 mini-disc capacitors 0.01µF to PL1 from pins 3 through 15, to the track nearest the edge of the PCB by carefully scratching off the solder resist coating. See Figure 4.
- 11 If there is a residual rumble after the last note played when bass guitar operated then fit a Resistor 100K across C11 under the PCB and a Resistor 1M under the PCB, from the positive end of C11 to the track going to RV13 by carefully scratching off the solder resist. See Figure 5.
- 12 To increase the bass response of the organ change C31 to a 1µF 35V tantalum capacitor with the positive end connected to the end where the line is marked to the legend "C31".



Figure 7. Reduction of mains hum. See note 18.

- **13** If the green LED is not as bright as the red, make R163 a Resistor 150R.
- 14 If a faint clicking is heard when the rhythms are running, but the rhythm volume is off then change C206 to an axial 2200µF 10V.
- 15 If the bass drum is too loud make R285 a Min Res 120K. If the high bongo is too loud make R330 a Resistor 180K.

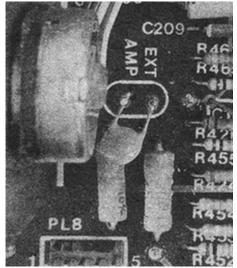


Figure 8. Reduction of illegal AM CB interference. See note 21.

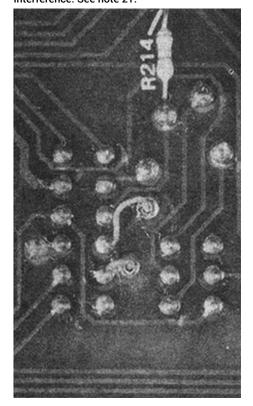


Figure 9. Connections to S24b. See note 22.

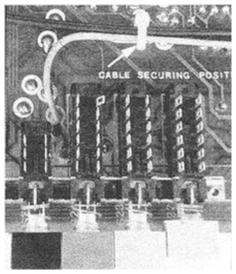


Figure 10. Underside of part of the PCB shown in Figure 9. See note 22.

- 16 If a very high frequency whistle is apparent at all times then connect a 0.1μF polyester capacitor between the track pin near pin 1 of IC46 and the track pin near pin 4 of IC46. See Figure 6.
- 17 If the pedals are too loud in relation to the rest of the organ change R572 to a Resistor 470K.
- 18 If after making change described in note 16 there is a noticeable mains hum, connect a piece of wire between the end of R606 farthest from edge of PCB and the track pin close to the right-hand front corner of RV44. See Figure 7.
- 19 If distortion is heard on peak signals through the reverb then change C225 to a $0.047\mu F$ polyester capacitor.
- 20 If you feel the rotor sound needs improvement at high frequency then change C69 to a 10nF ceramic capacitor.
- 21 If you are suffering from interference from illegal AM CB connect a 470pF ceramic capacitor across the pins marked "Ext. Amp". See Figure 8.
- 22 If a high frequency whistle increases in volume when rhythm draw bar is advanced and S24 (auto accompaniment) pressed then proceed as follows. First remove the two track pins which connect to pins 2 and 3 of S24b, and enlarge the holes if necessary so that you can pass through from the underside the two unstripped

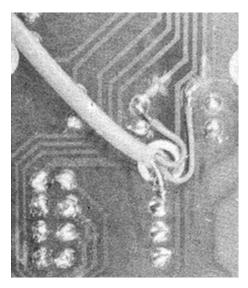


Figure 12. IC4 end of cable run. See note 22.

centre wires of a 1 metre length of screened wire as shown in Figure 9. Connect the red wire to pin 2 and the blue wire to pin 3 of S24b. On the underside of the PCB cut back the screen and insulate it. See Figure 10. Run the cable as shown in Figure 11. At the other end cut the track by scratching it away with a small screwdriver or sharp point close to the point where D83 and D84 are joined. Also cut the track which leads to pin 33 of IC4. Connect the red wire to the end of D83 or D84 closest to the cut track and the blue wire to the track between the cut and pin 33 of IC4 after carefully scratching off the solder resist. Connect the screen to the track pin marked by the white circle near D83 and D84. See Figure 12.

23 If you wish to run the Matinee into an external amp, Hi-Fi system or tape recorder then proceed as follows. Connect a Resistor 4K7 at the headphone socket to the wire coming from pin 1 on SK9 and a Resistor 47K to the wire coming from pin 2 on SK9; Connect the other ends of the resistors together, then connect the centre conductor of a piece of screened cable to the point where the two resistors join and the screen to the other end of the 4K7 resistor. Connect the other end of the cable to the radio, tape or aux input of a Hi-Fi amp. If the signal is too loud, reduce the value of the 4K7 and if too soft, increase the value.

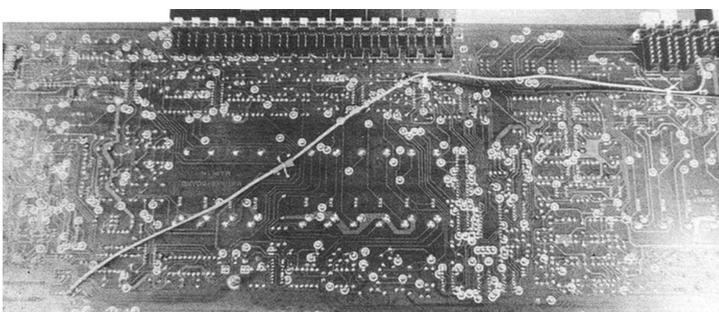


Figure 11. Cable run. See note 22.

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Customer No. (if known) Name Address
Post Code

CORRIGENDA

We regret that the following errors occurred in issue 1 of the Maplin Magazine.

- In the Combo Amp parts list, the order code for C24 should be WW26D and the order code for the Combo Front Panel should be XG03D. Also the quantity of Cabinet Cloth is 2 metres.
- In the Peak Level Indicator Parts List, IC1 is a CA3240E (WQ21X).
- The order code for the Verobloc Bracket should be HQ84F.

MAPLIN CATALOGUE PRICES OVERSEAS



Our current 1981/82 catalogue is available overseas by post at the following prices:

Europe surface mail £1.68
Europe air mail £2.75
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Outside Europe air mail (depending on distance)

£3.26 / £4.23 / £4.88

For surface mail anywhere in the world you may send 12 International Reply Coupons.

MAPLIN ELECTRONIC SUPPLIES LTD

require a

SHOP MANAGER IN BIRMINGHAM

Providing negotiations are successful, Maplin will be opening a new component shop in the Birmingham area within the near future. We are therefore inviting applications from those people with a good knowledge of electronics and preferably management experience. This position offers an interesting career with an expanding company. There is an excellent salary, a company pension scheme and other employee benefits. If you think you have the initiative and drive for this job, then write now including details of experience and qualifications to: Mr D. M. Snoad, Maplin Electronic Supplies Ltd, P.O. Box 3, Rayleigh, Essex SS6 8LR.

DID YOU MISS ISSUE 1?

Copies of issue 1 are still available for just 60 pence, and includes all these interesting projects:

Universal Timer

A comprehensive programmable controller for up to 4 mains appliances. There is storage for up to 18 program times, on or off and

relay outputs. Complete construction details.

Electronics [R5] F51

Combo Amplifier

Superb 120W MOSFET power amp with low-noise BI-FET pre-amp having built-in flanger, inputs for guitars, keyboards or microphones, and five step equaliser. Complete construction details.

Temperature Gauge

Coloured LED indication of -10°C to 100°C. Complete construction details

Pass The Bomb!

Low-cost easy to build electronic version of pass-the-parcel - keeps the kids amused for hours!

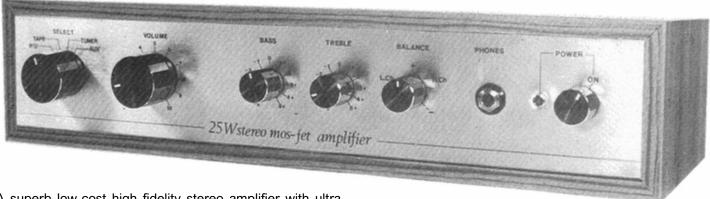
Plus six easy to build projects on Veroboard:

Car Battery Monitor - Colour Snap Game - CMOS Logic Probe - Peak Level Indicator - Games Timer - Multi-Colour Pendant

Issue 1 also included features on Videotext and How To Solder and feature series, Basically BASIC, Starting Point and Circuit Maker. All this for just 60 pence.

Order As XA01B (Maplin Mag Vol. 1 No. 1) Price 60 pence.

LOW COST HI-FI STEREO AMPLIFIER



A superb low-cost high fidelity stereo amplifier with ultrareliable MOSFET power amps capable of delivering a continuous 25 watts per channel into 8 ohms at 1 kHz (both channels driven).

Extremely low total harmonic distortion.

Extremely low noise.

Inputs for magnetic pick-up (5 mV at 47K), tape,

tuner and aux (all 100 mV at 100K).

Very easy to build with almost everything mounted on one PCB - in fact there's less than a dozen wires in the whole thing!

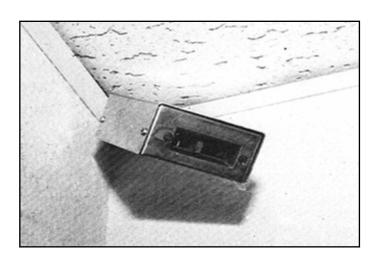
Complete kit available including front panel, chassis and wooden cabinet.

ALL THESE EXCITING PROJECTS IN OUR NEXT PACKED ISSUE. DON'T MISS IT! ON SALE 14th MAY 1982



FREQUENCY COUNTER

Range 10 Hz to 650 MHz with electronically switched ranges and high sensitivity input (approx 10 mV). Mains operation or 12V DC input. Complete kit available including front panel.







MORE MODEL TRAIN PROJECTS

Part 2 of our model train controller shows how to build the interface for a home computer or remote control unit. Software details are given. The remote control unit is described with wired, radio or infra-red connection!

RADAR DOPPLER INTRUDER DETECTOR

Up to four radar units may be connected to one controller which can be used as an alarm in its own right or it can easily be connected to our Home Security System described in this issue.

The unit has a tamper-proof two-wire connection and the sensitivity is adjustable to give a (cardioids) detection range from 2 metres to well over 20 metres!

PLUS

Our superb 600-note sequencer (held-over through lack of space).

All our regular features and of course the complete Maplin price list.