

TALKING ELECTRONICS

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Web site <http://www.TalkingElectronics.com>

KITS-KITS-KITS-KITS- KITS-KITS-KITS-KITS-KITS-KITS

The price list has been reformatted. Each kit and P.C. Board now have a catalogue number.

Kit price includes P.C. Board and has a catalogue number prefix of "K-". The P.C. Board alone has the prefix "PK-".

Our kits do not come with instructions. Photocopies of the articles are available for \$3.00 each only if the magazine or book is not available.

Postage and handling has also been reformatted. We now have a flat rate fee for different services and there is no limit to how many kits you buy.

Here is the complete list of kits in category order with a brief description and which book the instructions can be found.

ALARMS AND SECURITY

K-BBPS1	Battery Backed Power Supply Module	19.45
PK-BBPS1	P.C. Board only	3.60
	See Smart Security Devices Book 1! A 12v 700mA power supply with a battery back-up feature for alarm systems.	
K-BBSM1S	Battery Backed Siren Module (horn speaker version)	14.25
PK-BBSM1S	P.C. Board only	3.60
	See Smart Security Devices Book 1! Drive a horn speaker to 110dB. Also has battery back-up feature which will sound the siren if the wires running between the alarm and siren are cut.	
K-BBSM1P	Battery Backed Siren Module (piezo tweeter version)	16.00
PK-BBSM1P	P.C. Board only	3.60
	As above but drives a piezo tweeter to 110dB	
K-BBSM4P	Battery Backed Siren Module (4 piezo tweeter version)	30.25
PK-BBSM4P	P.C. Board only	4.80
	As above but drives 4 piezo tweeters to 110dB.	
K-CA1	Car Alarm	78.95
PK-CA1	P.C. Board only	7.15
	See Issue No. 15! A car alarm with many features for under \$100.00.	
K-1K1	Ignition Killer	13.25
PK-1K1	P.C. Board only	3.35
	See Issue No. 15! Engine immobiliser for the Car Alarm or can be used stand alone.	
K-CL1	Combination Lock	12.70
PK-CL1	P.C. Board only	3.40
	See Issue No. 5! A simple project to toggle a relay.	
K-CL2	Current Latch	6.55
PK-CL2	P.C. Board only	3.00
	See Smart Security Devices Book 1! Locates faulty sensors.	
K-CS1	Current Sensor	14.15
PK-CS1	P.C. Board only	3.60
	See Smart Security Devices Book 1! Connect low cost smoke alarms to alarm systems.	
K-15M1	15m Minder	50.45
PK-15M1R	Receiver P.C. Board only	5.70
PK-15M1T1	Transmitter P.C. Board only for N cells	3.25
PK-15M1T2	Transmitter P.C. Board only for lithium cells	3.50
	See 14 FM Bugs to Build! A multi purpose wireless panic alarm that can be worn as a pendant or as a keyring.	
K-4SIM	4 Sector Input Module	33.25
PK-4SIM	P.C. Board only	6.35
	See Smart Security Devices Book 1! Add end of loop resistors to your sensors for extra security.	
K-FP3S	Front Panel 3 Sector	23.35
	See Smart Security Devices Book 1! Front panel for Alarm Box AB-01. Includes key switch, panic button, LED's, and wire.	
K-FP4S	Front Panel 4 Sector	23.60
	See Smart Security Devices Book 1! Front panel for Alarm Box AB-01. Includes key switch, panic button,	

	LED's, and wire.	
K-FP4SK	Front Panel 4 Sector Keypad	11.50
	See Smart Security Devices Book 1! Front panel for Alarm Box AB-01. Includes LED's and wire. No keypad supplied.	
K-FP8S	Front Panel 8 Sector	24.50
	See Smart Security Devices Book 1! Front panel for Alarm Box AB-01. Includes key switch, panic button, LED's, and wire.	
K-FP8SK	Front Panel 8 Sector Keypad	12.40
	See Smart Security Devices Book 1! Front panel for Alarm Box AB-01. Includes LED's and wire. No keypad supplied.	
K-LA1	Light Alarm	14.05
PK-LA1	P.C. Board only	3.00
	See Security Devices! Alarm sounds when light is detected.	
K-RKM1	Remote Keypad Module	35.15
PK-RKM1	P.C. Board only	5.40
	See Smart Security Devices Book 1! Add a remote keypad to your alarm system.	
K-SCR1	Screamer Siren	10.05
PK-SCR1	P.C. Board only	3.00
	See 6 BD 679 Projects! A simple 110dB siren.	
K-TMAT	10 Minute Alarm Timer	20.15
PK-TMAT	P.C. Board only	4.20
	See Security Devices! Provides a continuous siren with a 10 minute timer.	
K-3IA	3-Input Alarm	52.90
PK-3IA	P.C. Board only	8.05
	See Smart Security Devices Book 1! The basis for an alarm system with many on-board features.	
K-TA1	Tilt Alarm	5.75
	See Learning Electronics Book 1! A very simple project that sounds a buzzer when a mercury switch tilts.	

ALARM ACCESSORIES

SA-AB01	Alarm Box	46.00
	See Smart Security Devices Book 1! As used in all our alarm systems. Made from strong metal and powder coated to look professional. Comes with cam lock.	
BAT-GC1212	12v 1.2Ah Gel Cell Battery	32.20
BAT-GC1230	12v 3Ah Gel Cell Battery	36.80
BAT-GC1265	12v 6.5Ah Gel Cell Battery	51.75
PP-1615	16V AC 1.5A Plug Pack	28.20
C-HS8R10	8 Ohm 10 Watt Horn Speaker	20.70
C-PT1	Piezo Tweeter	13.80
SA-BS1	Blue Strobe	37.40
SA-PB1	Wall Mount Panic Button	4.60
SA-PIR1	Passive Infra-red Detector	69.00
SA-RS1	Reed Switch N/O & N/C	9.20
SA-RS2	Reed Switch N/C only with cable cover	9.20
SA-SC1	Siren Cover	36.80
SA-SD1	Smoke Detector	16.10
SW-KS1	SPST Key Switch	10.35
W-F81M	Figure 8 Security Cable per metre	0.60
W-F81R	Figure 8 Security Cable per 100m	40.25
W-SC4M	4 Core Security Cable per metre	0.90
W-SC4R	4 Core Security Cable per 100m	57.50
W-SC6M	6 Core Security Cable per metre	1.40
W-SC6R	6 Core Security Cable per 100m	74.75

AUDIO & MUSIC

K-BEET2	Beetle MkII	16.25
PK-BEET2	P.C. Board only	1.80
	See 14 FM Bugs to Build! Transmits guitar output to an FM radio.	
K-BEET3	Beetle MkIII	22.90
PK-BEET3	P.C. Board only	3.00
	See 5 more FM Bugs! Improved version of above. Includes attractive slim-line case.	
K-DVR1	Digital Voice Recorder Mkl	98.90
PK-DVR1C	Control P.C. Board only	9.50
PK-DVR1D	Daughter P.C. Board only	6.00
	Instructions \$2.00. Records and plays back 30 seconds of audio to and from dynamic ram memory.	
K-DVR2	Digital Voice Recorder MkII	75.90
PK-DVR2	P.C. Board only	7.90
DVR-2	Built & Tested (1Mb Dram)	120.75
IC-411000	1M x 1 bit Dynamic Ram	12.65
	Instructions \$2.00. As above but can record and	

	playback for upto 2 min.	
K-DB1	Dish Bug	15.20
PK-DB1	P.C. Board only	3.00
	Instructions Enclosed! A non-transmitting sensitive microphone which can be added to a parabolic dish.	
K-8WA1	8 Watt Amplifier	16.25
PK-8WA1	P.C. Board only	4.15
	See Issue 9! An 8 watt amp using an LM 383 or TDA 2002.	
K-FMR1	FM Radio	26.05
PK-FMR1	PC Board only	3.35
	See 5 More FM Bugs! An FM radio using a TDA 7000 and an LM 386.	
K-GPA1	Guitar Practice Amplifier	21.70
PK-GPA1	P.C. Board only	4.75
K-GPA1E	Guitar Amp Extras	40.25
	See Issue 14! An 8 watt guitar amplifier with fuzz control.	
K-INT1	Intercom	13.80
PK-INT1	P.C. Board only	3.60
	See Learning Electronics Book 2! A minimum of two units are required for room to room communications.	
K-MM1	Mini Mixer	7.00
PK-MM1	P.C. Board only	2.80
	See Issue 6! Mixes upto 6 audio inputs to 1 output.	
K-MC1	Music Colour	16.45
PK-MC1	P.C. Board only	3.40
	See Issue 7! A set of 14 coloured LED's flash in sync with music.	
K-ORG1	Organ	22.35
PK-ORG1	P.C. Board only	5.10
	See Issue 15! A stylus organ with 2 1/2 octave range.	
K-SA1	Simplicity Amp	12.15
PK-SA1	P.C. Board only	4.00
	See Issue 5! A 4 watt amplifier using an LM 380.	
K-SA3	Stereo Amplifier	46.45
	See Issue 7! Uses 1 stereo pre-amp and 2 simplicity amps.	
K-SMM1	Stereo Mini Mixer (4 channel)	41.25
K-SMM2C	2 Channel Add-on	9.45
PK-MM1	2 x Mini Mixer P.C. Board only	5.60
	See Issue 9! Mixes 2 or 3 Stereo inputs to 1 stereo output.	
K-SPA1	Stereo Pre-Amp	22.20
PK-SPA1	P.C. Board only	5.70
	See Issue 7! A simple stereo pre-amp which has volume, base, and treble.	
K-SVU1	Stereo VU Meter	23.10
PK-SVU1	P.C. Board only	5.45
	See Cover Projects! An LED bar graph which indicates audio power output.	
K-TRE1	Tremolo	6.80
PK-TRE1	P.C. Board only	2.95
	See Issue 7! Tremolo effects for guitars.	
K-2CAM1	2 Chip AM Radio	19.30
PK-2CAM1	P.C. Board only	3.00
	See Learning Electronics book 2! A simple AM radio.	
K-VOX2	Vox MkII	21.45
PK-VOX2	P.C. Board only	3.60
	Circuit Enclosed! Adds voice actuation mode to any tape recorder with remote socket.	

AUTOMOBILE

K-BB2	Breakdown Beacon	5.50
PK-BB2	P.C. Board only	2.40
	See BD 679 Projects! Provides breakdown lights for your car	
K-CA1	Car Alarm	78.95
PK-CA1	P.C. Board only	7.15
	See Issue No. 15! A car alarm with many features for under \$100.00.	
K-1K1	Ignition Killer	13.25
PK-1K1	P.C. Board only	3.35
	See Issue No. 15! Engine immobiliser for the Car Alarm or can be used stand alone.	
K-CT1	Car Tracker	21.15
PK-CT1	P.C. Board only	4.20
	See 5 More FM Bugs! Track cars with homing beep that changes when car turns left or right and stops.	
K-CLE1	Courtesy Light Extender	5.20
PK-CLE1	P.C. Board only	2.40
	See BD 679 Projects! Keeps your interior light on for a few seconds after the door has closed.	
K-HR1	Headlight Reminder	21.35

PK-HR1 P.C. Board only 5.45
 See Issue 12! Reminds you to turn the headlights off
 after you turn off the ignition.
 K-3V15 **3v - 15v Tester** 2.55
 See Learning Electronics Book 1! A very simple voltage tester for cars.

COMPUTER

K-CO1 **Crystal Oscillator** 16.70
 PK-CO1 P.C. Board only 2.90
 See Issue 14! Add-on for the TEC to run the computer at 1/2 crystal frequency.
 K-DAT1 **Dat Board (no display)** 19.60
 K-DAT1D **Dat Board and Display** 54.10
 PK-DAT1 P.C. Board only 5.45
 See Issue 15! Add LCD, tape save, and single stepper to the TEC computer.
 K-DMC1 **Dedicated Micro 1** 60.85
 PK-DMC1 P.C. Board only 13.80
 See EMR book 1! A Z-80 based minimum chip micro used for dedicated purposes. Comes with traffic lights program on EPROM.
 K-DMC2 **Dedicated Micro 2** 63.70
 PK-DMC2 P.C. Board only 13.80
 See EMR book 2! As above with minor modifications. Comes with shop display lights program on EPROM.
 K-DC1 **Digi Chaser** 29.75
 PK-DC1 P.C. Board only 4.30
 See Issues 8 & 9! A programmable light chaser.
 K-DVR1 **Digital Voice Recorder Mk1** 98.90
 PK-DVR1C Control P.C. Board only 9.50
 PK-DVR1D Daughter P.C. Board only 6.00
 Instructions \$2.00. Records and plays back 30 seconds of audio to and from dynamic ram memory.
 K-DVR2 **Digital Voice Recorder MkII** 75.90
 PK-DVR2 P.C. Board only 7.90
 Instructions \$2.00. As above but can record and playback for up to 2 min.
 DVR-2 **Digital Voice Recorder MkII Built & Tested** (1Mb Dram) 120.75
 IC-411000 1M x 1 bit Dynamic Ram 12.65
 K-EB2 **Eprom Burner** (including upgrade) 30.90
 PK-EB2 P.C. Board only 5.80
 P-TZ24 24 pin Textool Zif Socket. 27.60
 See Issues 13 & 15! Add-on for TEC computer to read and burn 2716 and 2732 eproms.
 K-8X81 **8 x 8 Display** 37.10
 PK-8X81 P.C. Board only 9.95
 See Issue 11! Add-on for TEC computer. A matrix of 64 LED's to produce visual effects.
 K-IOM1 **Input / Output Module** 54.75
 PK-IOM1 P.C. Board only 6.90
 See Issue 14! Add-on for TEC computer which adds 8 inputs & 16 outputs to interface to the outside world.
 IC-JMON **JMON Eprom** 18.40
 See Issue 15! Advanced monitor rom for TEC computer which has LCD and Tape Save routines.
 IC-MON1B2 **MON 1B / 2** 18.40
 See Issues 10-14! Two monitors for the TEC computer in the one eprom.
 JP-1 **Jim's Package I** 19.55
 JP-1R **Jim's Package I with JMON** 32.80
 Disassembly and documentation on the JMON
 JP-2 **Jim's Package II** 14.95
 A collection of notes, articles, and projects for the TEC.
 JP-3 **Jim's Package III** 26.45
 JMON Utilities Rom. Includes documentation for each program and disassembly.
 JP-4D **Jim's Package IV-D** 26.45
 Z-80 Disassembler for TEC for the LCD.
 JP-4P **Jim's Package IV-P** 26.45
 Z-80 Disassembler for TEC for the Plotter.
 K-MIC1 **Microcomp-1** 86.00
 PK-MIC1 P.C. Board only 14.05
 H-CC1 Case to suit 22.75
 PP-8505 Plug Pack to suit 22.75
 See BD 679 Projects! A very simple dedicated Z-80 microcomputer with only 3 IC's.
 K-NAC1 **Noughts and Crosses** 34.60
 PK-NAC1 P.C. Board only 5.75
 See BD 679 Projects! Add-on for Microcomp to play the popular game.
 K-NVR1 **Non-Volatile RAM** 37.80
 PK-NVR1 P.C. Board only 6.00
 Instructions Enclosed! Add-on for TEC computer for a battery backed 16KB RAM.
 K-OMM1 **Output Module (Microcomp)** 19.65
 PK-OMM1 P.C. Board only 4.55
 See BD 679 Projects! Add-on for Microcomp to control 8 outputs.
 K-OMD1 **Output Module (Dedicated Micro)** 23.25
 PK-OMD1 P.C. Board only 7.00

See EMR book 2! Add-on for the Dedicated Micro II to control 24 additional outputs.
 K-RDB1 **Relay Driver Board** 46.25
 PK-RDB1 P.C. Board only 15.00
 See Issue 11! Add-on for TEC computer that controls 8 relays. kit comes supplied with 4 relays.
 K-SM1 **Speech Module** 32.15
 PK-SM1 P.C. Board only 3.60
 See Issue 15! Add-on for the TEC to make it talk.
 K-TEC1D **TEC-1D Computer** 157.80
 PK-TEC1D P.C. Board only 34.20
 H-CC2 Case to suit 39.70
 PP-8505 Plug Pack to suit 22.75
 See Issues 10 - 15! A Z-80 based computer that can be programmed in machine code. A great project to learn about computers and programming.
 K-TECSP1 **TEC Starters Pack 1** 230.00
 Includes the TEC-1D, All instructions, 500mA AC Plug-pack, Jmon ROM, and Jim's Pack 1. \$220.00 value.
 K-TPS1 **TEC Power Supply** 28.75
 PK-TPS1 P.C. Board only 9.10
 See issue 13! A power supply for the TEC computer that has 5v, 12v, & 30v outputs.
 K-TPS1E **TEC Power Supply & Extras** 77.95
 Includes all parts, P.C. Board, 1 M-2155 transformer, power lead, and large case.

COUNTERS & TIMERS

K-CLO1 **Clock** 37.15
 PK-CLO1 P.C. Board only 5.45
 See Cover Projects! A digit clock using the mains 50Hz as a reference.
 K-CM2 **Counter Module** 35.40
 PK-CM2 P.C. Board only 6.30
 See Issue 10! A 4 digit counter using a single chip.
 K-SSD1 **Seven Segment Display** 19.05
 PK-SSD1 P.C. Board only 7.50
 See Issue 2! A large 4 digit display using LEDs to create 2.5cm numbers.
 K-ET1 **Egg Timer** 13.95
 PK-ET1 P.C. Board only 3.40
 See Issue 6! A 3 minute timer for eggs.
 K-4DC1 **4 Digit Counter** 41.05
 PK-4DC1 P.C. Board only 6.00
 K-4DC1E **4 Digit Counter Extras** 7.30
 See Learning Electronics Book 1! A 4 digit up/down counter
 K-PT1 **Pill Timer** 13.35
 PK-MB2425 P.C. Board only 3.60
 See issue 7! A long duration timer suitable for taking pills etc.
 K-PC1 **Programmable Counter** 19.65
 PK-PC1 P.C. Board only 6.00
 See Issue 6! A counter that can be preset from 0 - 999 and will light a LED when the count has been reached.
 K-PCAR1 **Programmable Counter Auto Reset** 16.25
 PK-PCAR1 P.C. Board only 4.15
 See Issue 7! Adds auto reset and beep tone to the programmable counter.
 K-RO1 **Rip Off** 26.55
 PK-RO1 P.C. Board only 5.40
 See Bugging and its Prevention! Times the duration of phone calls and puts a beep on the line.
 K-TMAT **10 Minute Alarm Timer** 20.15
 PK-TMAT P.C. Board only 4.20
 See Security Devices! Provides a continuous siren with a 10 minute timer.

EDUCATION & EXPERIMENTER

PK-DPCB1 **Designer PC Board #1** 6.65
 PK-DPCB2 **Designer PC Board #2** 6.65
 PK-DPCB3 **Designer PC Board #3** 6.65
 PK-DPCB4 **Designer PC Board 200 + 640** 7.15
 PK-DBMB1 **Designer Board Mother Board** 5.70
 PK-DBSM1 **Designer Board Surface Mount Set**. 6.95
 Designer Boards for experimenting with surface mount IC's. Includes 8 pin, 14 pin, 16 pin, 20pin, and 28 pin boards.
 DECL1-6 **The Australian Digital Electronics Course** 184.00
 A 6 lesson correspondence course that takes you from learning how to solder to programming a microcomputer. Includes all notes and kits.
 DECL1 **The Australian Digital Electronics Course** 32.20
 Lesson 1. Includes soldering kit and Quick Draw kit.
 DECL2 **The Australian Digital Electronics Course**

Lesson 2 32.20
 Includes Led Zeppelin kit.
 DECL3 **The Australian Digital Electronics Course** 32.20
Lesson 3 32.20
 Includes Egg Timer kit.
 DECL4 **The Australian Digital Electronics Course** 32.20
Lesson 4 32.20
 Includes Logic Probe kit.
 DECL5 **The Australian Digital Electronics Course** 32.20
Lesson 5 32.20
 Includes Touch Puzzle kit.
 DECL6 **The Australian Digital Electronics Course** 42.55
Lesson 6 42.55
 Includes Electronics Notebook 1 / Starting in TTL and the TTL Trainer.
 K-EB1 **Experimenter Board 1 - 8** 23.50
 PK-EB1 P.C. Board only 3.40
 See Issue 1! A series of 8 projects built on a re-usable P.C. Board.
 PK-EB2 **Experimenter Board Mk 2 PCB only** 5.40
 K-LE1 **Learning Electronics Book 1 Complete Package** 156.40
 See Learning Electronics Book 1! 19 kits plus BC 547 for Lie Detector, Flashing Led, and Matrix Board. If you are just beginning in electronics, this is where you start.
 K-LE2 **Learning Electronics Book 2 Complete Package** 158.70
 See Learning Electronics Book 2! Includes all 10 kits from the 2nd book in the series of Learning Electronics.
 PK-MB1540 **Matrix Board 15 x 40** 2.95
 PK-MB2425 **Matrix Board 24 x 25** 3.60
 PK-MB2450 **Matrix Board 24 x 50** 6.30
 K-LD1 **Logic Designer** 34.60
 PK-LD1 PC Board only 5.45
 See Cover Projects! Has several building blocks to aid in designing CMOS circuits.
 K-OAT1 **Op-Amp Trainer** 24.50
 PK-OAT1 P.C. Board only 3.00
 See Learning Electronics Book 2! Learn about op-amps (operational amplifiers).
 K-ST1 **Super Transistor** 1.75
 See Learning Electronics Book 1! A demonstration project which shows the sensitivity of transistors.
 K-TTL1 **TTL Trainer Deck** 37.60
 PK-TTL1 PC Board only 5.45
 See Electronics Notebook No. 1! A trainer to aid in learning about TTL (Transistor-Transistor Logic). An ideal introduction to digital electronics.
 K-TTL2 **TTL Trainer Deck Instructors** 48.90
 PK-TTL2 PC Board only 11.10
 An extra large version of above. Used by instructors to clearly show the wiring layout of a circuit.
 K-2WP1 **2-Way Puzzle** 9.10
 See Learning Electronics Book 1! A simple diode project to demonstrate current flow.

GAMES & NOVELTIES

K-BJ1 **Black Jack** 16.85
 PK-BJ1 P.C. Board only 4.15
 See Issue 11! An electronic version of the card game.
 K-CF1 **Coin Flipper** 8.40
 PK-CF1 P.C. Board only 3.00
 See Learning Electronics Book 2! Electronic heads or tails.
 K-COO1 **Co-ordinator** 10.60
 PK-COO1 P.C. Board only 3.30
 See Learning Electronics Book 1! A game of skill to get a LED to light up by pressing a button at the right time.
 K-CP1 **Cube Puzzle** 29.25
 PK-CP1 P.C. Board only 7.15
 See Issue 8! An electronic version of Rubik's cube.
 K-ED1 **Experimenter Deck 1-10** 28.75
 PK-ED1 P.C. Board only 7.15
 See Issues 1, 2, 3, and 4! Parts are added to a PCB to produce 10 different projects.
 K-HM1 **Hangman** 20.70
 PK-HM1 P.C. Board only 5.45
 See Cover Projects! An electronic version of Hang the Butcher.
 K-INF1 **Infuriator** 6.80
 See Learning Electronics Book 1! A simple combination lock project using switches to teach binary.
 K-KS1 **Kitt Scanner** 12.50
 PK-KS1 P.C. Board only 2.95
 See Issue 13! Seven LEDs are scanned by a reversing circuit to give the effect as in the KITT car.

K-LD2	Led Dice Mkl	15.10
PK-LD2	P.C. Board only	5.45
	See Cover Projects! The face of a dice is represented by 7 LEDs. Can be used in almost every board game.	
K-LF1	Led Flasher	3.10
PK-LF1	P.C. Board only	1.80
	See Learning Electronics Book 1! A very simple flashing LED circuit.	
K-LZ1	Led Zeppelin	13.30
PK-LZ1	P.C. Board only	3.40
	See TE Issue 1! A game of skill to light up 6 LEDs by pressing a button at the right time.	
K-LS1	Lotto Selector	27.10
PK-LS1	P.C. Board only	5.45
	See Cover Projects! Displays random numbers between 0 and 99. Can be modified not to go above 45.	
K-MIN1	Minfield	4.60
	See Learning Electronics Book 1! A simple minfield game built on a block of wood.	
K-NIM1	Nim	5.85
	See Learning Electronics book 1! A very simple game with artificial intelligence.	
K-NAT	Noise-A-Tron	9.20
PK-NAT	P.C. Board only	3.30
	See Issue 4! A sound effects generator.	
K-PG1	Phaser Gun	12.20
PK-PG1	P.C. Board only	3.40
	See Issue 7! Phaser gun sound effects.	
K-PR1	Phone Ring	14.95
PK-PR1	P.C. Board only	3.00
	See Electronics Notebook 6! A surface mount project that simulates the ringing of an electronic phone.	
K-QD1	Quick Draw	7.25
PK-QD1	P.C. Board only	3.40
	See Issue 5! Game for two players to see who has the fastest reaction.	
K-RM1	Robot Man	8.30
	See Learning Electronics Book 1! A simple LED flip flop built on a wooden cut-out which resembles a robot.	
K-ROU1	RouLED	16.90
PK-ROU1	P.C. Board only	6.00
	See Issue 10! A set of 10 LEDs in a circle to give a spinning wheel effect.	
K-SS1	Simple Siren	8.30
PK-SS1	P.C. Board only	1.80
	See Learning Electronics Book 1! As the name says, a simple siren.	
K-ST2	Strength Tester	7.55
PK-ST2	P.C. Board only	3.00
	See Learning Electronics Book 1! A 4 LED bargraph that measures strength when two metal plates are squeezed together.	
K-TP1	Touch Puzzle	10.70
PK-TP1	P.C. Board only	3.40
	See Issue 12! A simple puzzle game to turn on a LED.	
K-TS1	Touch Switch	5.75
PK-TS1	P.C. Board only	3.00
	See Learning Electronics Book 1! An electronic switch to turn a lamp on and off.	
K-TTLD1	TTL Dice	9.65
PK-TTLD1	P.C. Board only	2.65
	See Electronics Notebook 6! A LED dice using TTL ICs.	
K-WOX1	WOX	9.45
PK-WOX1	P.C. Board only	3.00
	See Security Devices! Whistle ON, whistle OFF, switch.	

MODELLING

K-AH1	Air Horn	15.65
PK-AH1	P.C. Board only	4.50
	See EMR Book 1! A very effective air horn simulator.	
K-AA1	Automatic AA Ni-Cad Charger	13.40
PK-AA1	P.C. Board only	3.35
	See BD 679 Projects! Charges AA Ni-Cads and has automatic shutoff.	
K-BB1	Beeper Bug	8.75
PK-BB1	P.C. Board only	2.15
	See Security Devices! Ideal for tracking model rockets and aeroplanes that go astray.	
K-CDU1	Capacitor Discharge Unit Mkl	12.55
PK-CDU1	P.C. Board only	4.60
	See EMR Book 1! Can switch any number of model train points or solenoids, one at a time.	
K-CDU2	Capacitor Discharge Unit Mkl	10.60
PK-CDU2	P.C. Board only	3.60
	See BD 679 Projects! Can switch any number of model train points or solenoids, one at a time.	
K-CBC1	Crossing Boom Control	22.30
PK-CBC1	P.C. Board only	4.50
	See EMR Book 1! Closes and opens boom gates on model railway layouts.	
K-CE1	Crossing Expansion	21.30
PK-CE1	P.C. Board only	4.25
	See EMR Book 1! Add upto 6 extra sensors to the Level Crossing kit K-LC1.	

K-CS2	Crossing Sound	17.95
PK-CS2	P.C. Board only	4.15
	See EMR Book 1! Effective boom bell sound add-on for the Level Crossing kit K-LC1.	
K-DMC1	Dedicated Micro Computer Mkl	60.85
PK-DMC1	P.C. Board only	13.80
	See EMR Book 1! With the aid of a PC or TEC computer with EPROM burner, this can be programmed for almost any function desired. Includes traffic lights programmed EPROM.	
K-DMC2	Dedicated Micro Computer Mkl	63.70
PK-DMC2	P.C. Board only	13.80
	See EMR Book 2! K-DMC1 with extra components and EPROM programmed with traffic lights controller, automatic street lights controller, and advertising sign.	
K-DB2	Display Board	7.05
PK-M1540	P.C. Board only	2.95
	See EMR Book 2! Advertising sign add-on for K-DMC2	
K-DM1	Delay Module	9.45
PK-DM1	P.C. Board only	3.00
	See EMR Book 2! Use this if short delays are required for turning on lamps or LEDs.	
K-DS1	Diesel Sound Mkl	16.60
PK-DS1	P.C. Board only (long PCB)	2.65
	See EMR Book 2! Effective diesel sound simulator.	
K-DS2	Diesel Sound Mkl	16.60
PK-DS2	P.C. Board only (short PCB)	2.65
	See EMR Book 2! Effective diesel sound simulator.	
K-DS3	Diesel Sound 4 Watt	19.50
PK-DS3	P.C. Board only	5.40
	See EMR Book 2! Effective diesel sound simulator with built in 4 watt amplifier.	
K-EPS1	Economy Power Supply	16.45
PK-EPS1	P.C. Board only	4.20
	See EMR Book 2! Low cost power supply can deliver 12v at 2 amps.	
K-FOD1	Fibre Optic Display	11.15
PK-FOD1	P.C. Board only	4.80
	See EMR Book 2! Use fine optical fibre to create tiny detailed signs.	
K-FS1	Fluorescent Simulator	12.10
PK-FS1	P.C. Board only	4.25
	See EMR Book 1! Simulates the starting of a fluorescent tube or a faulty tube flickering.	
K-GPP1	Glow Plug Power Supply	21.05
PK-GPP1	P.C. Board only	3.95
	See Learning Electronics Book 2! A glow plug starter for model petrol engines.	
K-HTS1	Hex Train Sensor	26.75
PK-HTS1	P.C. Board only	4.60
	See EMR Book 1! Six sensors can be placed around a model railway layout to detect the presence of a train.	
K-LR1	LED Resistors	5.60
PK-LR1	P.C. Board only	4.20
	See EMR Book 1! Designed to add LEDs to the light sequencer.	
K-LC1	Level Crossing	20.00
PK-LC1	P.C. Board only	4.25
	See EMR Book 1! Realistic level crossing lights that can be expanded to drive sound and boom gates.	
K-LCL1	Level Crossing Lights	6.85
PK-LCL1	P.C. Board only	2.40
	See EMR Book 2! Simple level crossing lights controller.	
K-LS1	Light Sequencer	27.60
PK-LS1	P.C. Board only	5.50
	See EMR Book 1! A programmable light chaser for shop displays and advertising signs.	
K-MSC1	Motor Speed Controller	11.25
PK-MSC1	P.C. Board only	3.00
	See Security Devices! Reduces the speed of a little motor without reducing the start-up torque.	
K-OMD1	Output Module (Dedicated Micro)	23.60
PK-OMD1	P.C. Board only	7.20
	See EMR Book 2! Adds 24 outputs to the dedicated micro computer K-DMC1 & K-DMC2.	
K-PC2	Pedestrian Crossing	21.15
PK-PC2	P.C. Board only	5.45
	See EMR Book 1! A simple pedestrian crossing with working push button and WALK, DON'T WALK lights.	
K-PS1	Power Supply	19.40
PK-PS1	P.C. Board only	5.00
	See EMR Book 1! An adjustable 5v to 15v, 1 or 2 amp power supply.	
K-RRU1	Remote Relay Unit	8.10
PK-RRU1	P.C. Board only	2.50
	See EMR Book 1! Add a relay output to any digital output of your layout.	
K-RL1	Rotating Lights	10.25
PK-RL1	P.C. Board only	2.65

	See EMR Books 1 & 2! Adds impact to accident scenes.	
K-SA2	Searchlight Adaptor	5.90
PK-SA2	P.C. Board only	2.50
	See EMR Book 1! A signals controller to drive a three leaded, tri-coloured LED.	
K-SD1	Servo Driver	15.40
PK-SD1	P.C. Board only	3.95
	See EMR Book 2! The ultimate motordrive for proportional movement.	
K-SDD1	Shop Display Driver	14.30
PK-SDD1	P.C. Board only	4.85
	See EMR Book 1! Create miniature light displays for model shops.	
PK-SDB1	Shop Display Board	7.20
	See EMR Book 1! A universal P.C. board for mounting LEDs for the Shop Display Driver.	
K-SIG1	Signals	19.70
PK-SIG1	P.C. Board only	5.40
	See EMR Book 2! Universal signal module that can be used in a number of ways, including 2 and 3 aspect.	
K-SPWM1	Simple PWM Throttle	26.20
PK-SPWM1	P.C. Board only	2.65
	See EMR Book 2! A motor speed controller using Pulse Width Modulation. Output driven by a MOSFET.	
K-THR1	Throttle	18.80
PK-THR1	P.C. Board only	4.30
	See EMR Book 1! A simple 2 amp throttle with power transistor and heatsink all on board.	
K-THR2	Throttle Mkl	7.60
PK-THR2	P.C. Board only	2.95
	See Issue 6! A simple throttle for model train control with power transistor mounted off board for small enclosures.	
K-TD1	Train Detector	21.35
PK-TD1	P.C. Board only	5.20
	See EMR Book 1! Detect the presence of trains at 5 different locations.	
K-TS2	Tunnel Stretcher & Station Signal	17.10
PK-TS2	P.C. Board only	4.20
	See EMR Book 2! Delays a train from exiting a tunnel give the appearance of a long tunnel. Can also be used to control signals at a station for the train to stop.	
K-WAT1	Walk Around Throttle	38.20
PK-WAT1	P.C. Board only	6.90
	See EMR Book 2! Use a commercial radio control for true wireless throttle control.	
K-WLFU1	Warning Lamp Flashing Unit	13.80
PK-WLFU1	P.C. Board only	4.15
	See EMR Book 1! Create flashing lamps for model construction sites and roadworks.	
K-XEN4	Xenon Speed Controller 4 FET	51.40
K-XEN9	Xenon Speed Controller 9 FET	83.05
PK-XEN9	P.C. Board only (to suit both 4 and 9 FET models).	6.00
	Instructions Enclosed! A professional speed controller for model cars capable of supplying a maximum of 270 Amps to heavy duty electric motors.	

POWER SUPPLIES AND CONTROL

K-AAA1	Automatic AA Ni-Cad Charger	13.40
PK-AAA1	P.C. Board only	3.35
	See BD 679 Projects! Charges AA Ni-Cads and has automatic shutoff.	
K-BBP1	Battery Backed Power Supply Module	19.45
PK-BBP1	P.C. Board only	3.60
	See Smart Security Devices Book 1! A 12v 700mA power supply with a battery back-up feature for alarm systems.	
K-DPS1	Dual Power Supply	19.55
PK-DPS1	P.C. Board only	6.30
	See Cover Projects! A 1 amp power supply for +/-5v, +/-12v, or +/-15v.	
K-DTPS1	Dual Tracking Power Supply	27.20
PK-DTPS1	P.C. Board only	5.45
	See Cover Projects! A voltage adjustable dual power supply where the positive and negative rails are equal.	
K-EPS1	Economy Power Supply	16.45
PK-EPS1	P.C. Board only	4.20
	See EMR Book 2! Low cost power supply can deliver 12v at 2 amps.	
K-FLI1	Fluorescent Lamp Inverter	9.45
	See BD 679 Projects! Runs a 20W fluorescent tube from 12v.	
K-GPP1	Glow Plug Power Supply	21.05
PK-GPP1	P.C. Board only	3.95
	See Learning Electronics Book 2! A glow plug starter for model petrol engines.	
K-MSC1	Motor Speed Controller	11.25
PK-MSC1	P.C. Board only	3.00
	See Security Devices! Reduces the speed of a little motor without reducing the start-up torque.	
K-PS1	Power Supply	19.40
PK-PS1	P.C. Board only	5.00
	See EMR Book 1! An adjustable 5v to 15v, 1 or 2 amp power supply.	

K-PS2	Power Supply, 1 Amp	11.15
PK-PS2	P.C. Board only	3.40
	See Issue 3! A regulated power supply that can supply 5v - 15v at 1 amp.	
K-PPR1	Plug Pack Regulator	14.15
PK-PPR1	P.C. Board only	3.60
	See Learning Electronics Book 2! Turn a plug pack into a regulated power supply.	
K-SPWM1	Simple PWM Throttle	26.20
PK-SPWM1	P.C. Board only	2.65
	See EMR Book 2! A motor speed controller using Pulse Width Modulation. Output driven by a MOSFET.	
K-THR1	Throttle	18.80
PK-THR1	P.C. Board only	4.30
	See EMR Book 1! A simple 2 amp throttle with power transistor and heatsink all on board.	
K-THR2	Throttle MkII	7.60
PK-THR2	P.C. Board only	2.95
	See Issue 6! A simple throttle for model train control with power transistor mounted off board for small enclosures.	
K-2APS1	2 Amp Power Supply	12.15
PK-2APS1	P.C. Board only	3.85
	See 6 BD 679 Projects! A simple adjustable 0v - 12v power supply.	
K-WAT1	Walk Around Throttle	38.20
PK-WAT1	P.C. Board only	6.90
	See EMR Book 2! Use a commercial radio control for true wireless throttle control.	
K-XEN4	Xenon Speed Controller 4 FET	51.40
K-XEN9	Xenon Speed Controller 9 FET	83.05
PK-XEN9	P.C. Board only (to suit both 4 and 9 FET models).	6.00
	Instructions Enclosed! A professional speed controller for model cars capable of supplying a maximum of 270 Amps to heavy duty electric motors.	
RADIO FREQUENCY, BUGGING AND ITS PREVENTION		
K-AMO1	Amoeba	11.60
PK-AMO1	P.C. Board only	1.80
	See 14 FM Bugs to Build! A 400m room bug the size of a matchbox.	
K-ANT1	Ant	10.60
PK-ANT1	P.C. Board only	1.80
	See 14 FM Bugs to Build! A Stable 100m FM wireless microphone the size of a matchbox.	
K-BEET2	Beetle MkII	16.25
PK-BEET2	P.C. Board only	1.80
	See 14 FM Bugs to Build! Transmits guitar output to an FM radio.	
K-BEET3	Beetle MkIII	22.90
PK-BEET3	P.C. Board only	3.00
	See 5 more FM Bugs! Improved version of above. Includes attractive slim-line case.	
K-BB1	Beeper Bug	8.75
PK-BB1	P.C. Board only	2.15
	See Security Devices! Ideal for tracking model rockets and aeroplanes that go astray.	
K-CT1	Car Tracker	21.15
PK-CT1	P.C. Board only	4.20
	See 5 More FM Bugs! Track cars with homing beep that changes when car turns left or right and stops.	
K-CRI1	Cricket	9.65
PK-CRI1	P.C. Board only	2.50
	See 14 FM Bugs to Build! A simple 100m constant tone transmitter.	
K-CLB1	Crystal Locked Beeper Transmitter	24.40
PK-CLB1	P.C. Board only	3.60
	See 5 More FM Bugs! A very stable 600m beeping transmitter.	
K-CLB2	Crystal Locked Bug	25.40
PK-CLB2	P.C. Board only	3.00
	See 5 More FM Bugs! A very stable 600m FM wireless microphone.	
K-COS1	Cube Of Sugar Bug	14.05
PK-COS1	P.C. Board only	3.00
	See 14 FM Bugs to Build! A 600m FM bug that runs from two 3v lithium cells.	
K-DB1	Dish Bug	15.20
PK-DB1	P.C. Board only	3.00
	Instructions Enclosed! A non-transmitting sensitive microphone which can be added to a parabolic dish.	
K-EAR1	Earwig	11.25
PK-EAR1	P.C. Board only	3.00
	See Learning Electronics Book 1! A 200m FM bug in a Matchbox.	
K-FSM1	Field Strength Meter MkI	10.80
PK-FSM1	P.C. Board only	3.00
	See Electronics Notebook 6! Used to measure the output power of FM transmitters	
K-FSM2	Field Strength Meter MkII	16.45
PK-FSM2	P.C. Board only	3.60
	See Electronics Notebook 6! Used to measure the	

	output power of FM transmitters and determine the approximate frequency. 80MHz to 130MHz range.	
K-15M1	15m Minder	50.45
PK-15M1R	Receiver P.C. Board only	5.70
PK-15M1T1	Transmitter P.C. Board only	
	for N cells	3.25
PK-15M1T2	Transmitter P.C. Board only	
	for lithium cells	3.50
	See 14 FM Bugs to Build! A multi purpose wireless panic alarm that can be worn as a pendant or as a keyring.	
K-FMB1	FM Bug	11.60
PK-FMB1	P.C. Board only	2.95
	See 14 FM Bugs to Build! A 200m FM bug with the components spaced out for easy construction.	
K-FMR1	FM Radio	26.05
PK-FMR1	PC Board only	3.35
	See 5 More FM Bugs! An FM radio using a TDA 7000 and an LM 386.	
K-GNA1	Gnat	10.50
PK-GNA1	P.C. Board only	1.80
	See 14 FM Bugs to Build! A small version of the FM Bug (K-FMB1) that can fit in a matchbox.	
K-HA1	Hikers Alarm	20.35
PK-HA1	P.C. Board only	3.00
	See 14 FM Bugs to Build! A personal emergency beacon for hikers and campers that transmits audio and homing beeps.	
K-LPM1	Led Power Meter	1.25
	See 5 More FM Bugs! Used to test for the presence of RF in transmitters. Also required to tune in the output stage of transmitters.	
K-PB3	Pen Bug Mk III	14.60
PK-PB3	P.C. Board only	3.00
	See 14 FM Bugs to Build! A very narrow FM transmitter that can fit inside a highlighter pen.	
K-PA1	Phone Alert	19.55
PK-PA1	P.C. Board only	2.40
	See Security Devices! Detects the extension phone being picked up.	
K-PBS1	Phone Bug Sniffer	49.90
PK-PBS1	P.C. Board only	6.60
	See Bugging And Its Prevention! Detects 3 phone line conditions that could possibly be bugs.	
K-SB1	Spy Bug	22.65
PK-SB1	P.C. Board only	3.00
	See Security Devices! Our smallest, fully surface mount 100m bug.	
K-2CAM1	2 Chip AM Radio	19.30
PK-2CAM1	P.C. Board only	3.00
	See Learning Electronics book 2! A simple AM radio.	
K-UHF1	UHF Remote Switch	59.10
PK-UHFR1	Receiver P.C. Board only	4.20
PK-UHFT1	Transmitter P.C. Board only	2.65
	Circuit Diagram enclosed! Turns on a relay up to 20m away via a UHF key chain transmitter.	
K-ULT1	Ultima	15.20
PK-ULT1	P.C. Board only	3.00
	See Security Devices! A 1km FM bug.	
K-VOX1	Vox Bug MkI	23.90
PK-VOX1	P.C. Board only	5.40
	See More FM Bugs! A 400m bug that only transmits when there is noise in the room.	
K-VOX2	Vox MkII	21.45
PK-VOX2	P.C. Board only	3.60
	Circuit Enclosed! Adds voice actuation mode to any tape recorder with remote socket.	
K-VOX4	Vox Bug MkIV	25.80
PK-VOX4	P.C. Board only	5.70
	See 5 More FM Bugs! Same as Vox MkI but has homing beep so you know your on the right frequency when it is not transmitting.	
K-VOX5	Vox MkV	38.20
PK-VOX5	P.C. Board only	5.70
	See 5 More FM Bugs! Surface mount version of the Vox MkIV.	
K-VOY2	Voyager MkII	12.90
PK-VOY2	P.C. Board only	3.00
	See 5 More FM Bugs! An 800m FM bug that sits on a 9v battery.	
K-WB1	Wall Bug	11.60
PK-WB1	P.C. Board only	1.80
	See 14 FM Bugs to Build! A 400m bug that picks up sounds through windows.	
K-WAS1	Wasp	12.30
PK-WAS1	P.C. Board only	2.40
	See 5 More FM Bugs! A 200m stable transmitter with an air trimmer for the frequency to be changed easily.	
K-WB2	Water Bug	14.70
PK-WB2	P.C. Board only	3.00
	See 14 FM Bugs to Build! Detects the presence of water and produces different tones depending on the level of	

water.

TEST AND MEASUREMENT

K-ACT1	Audible Continuity Tester	4.65
	See Learning Electronics Book 1! A simple continuity tester with a piezo.	
K-CM1	Capacitance Meter	18.70
PK-CM1	P.C. Board only	5.05
	See Electronics Notebook 6! Measure capacitors from 1pF to 10uF.	
K-COM2	Combo-2	21.50
PK-COM2	P.C. Board only	3.85
	See Electronics Notebook 6! A very useful transistor tester that can also determine gain.	
K-CT2	Continuity Tester	13.40
PK-CT2	P.C. Board only	2.90
	See Electronics Notebook 6! Very useful for checking PCBs for breaks in the trackwork. Resistance above 150R will not be detected.	
K-CT3	Continuity Tester	3.45
	See Learning Electronics Book 1! A simple project for testing continuity.	
K-DT1	Diode Tester	6.05
PK-DT1	P.C. Board only	2.95
	See Issue 6! Tests diodes and indicates which lead is the cathode.	
K-FSM1	Field Strength Meter MkI	10.80
PK-FSM1	P.C. Board only	3.00
	See Electronics Notebook 6! Used to measure the output power of FM transmitters	
K-FSM2	Field Strength Meter MkII	16.45
PK-FSM2	P.C. Board only	3.60
	See Electronics Notebook 6! Used to measure the output power of FM transmitters and determine the approximate frequency. 80MHz to 130MHz range.	
K-LP1	Logic Probe	19.55
PK-LP1	P.C. Board only	3.60
	See Electronics Notebook 6! Invaluable piece of test equipment for testing digital circuits. Has HIGH, PULSE, and LOW LEDs to show the state of digital outputs. Also the added feature of a mini piezo for HIGH TONE, LOW TONE, and PULSING TONE so you don't have to take your eyes of your work.	
K-LP2	Logic Pulser	22.75
PK-LP2	P.C. Board only	3.40
	See Issue 13! Produces pulses for injecting into logic circuits. Normally used in conjunction with the Logic Probe kit K-LP1.	
K-MFC1	Mini Frequency Counter	30.80
PK-MFC1	P.C. Board only	5.45
	See Cover Projects! A simple 3 digit frequency counter for measuring frequencies from 100Hz to 5MHz.	
K-SWO1	Square Wave Oscillator	8.20
PK-SWO1	P.C. Board only	3.40
	See Learning Electronics Book 2! A simple 555 test oscillator with 6 presettable frequencies.	
K-TM1	Temperature Meter	8.35
PK-TM1	P.C. Board only	3.00
PM-1MA	1mA Panel Meter	21.85
	See Learning Electronics Book 1! A simple but accurate circuit to measure temperature from 0°C to 50°C	
K-3V15	3v - 15v Tester	2.55
	See Learning Electronics Book 1! A very simple voltage tester for cars.	

BOOKS & MAGAZINES

B-14FM	14 FM Bugs to Build (to be reprinted)	5.40
B-5MFM	5 More FM Bugs	5.40
B-6BD	6 BD 679 Projects	5.40
B-CDB1	CMOS Data Book	4.80
B-CP1	Cover Projects	6.00
B-DER1	Digital Electronics Revealed	7.20
B-EMR1	Electronics For Model Railways 1	5.40
B-EMR2	Electronics For Model Railways 2	5.75
B-EN1	Electronics Notebook 1 / Starting in TTL	7.20
B-EN2	Electronics Notebook 2	6.00
B-EN3	Electronics Notebook 3	6.00
B-EN4	Electronics Notebook 4	6.00
B-EN5	Electronics Notebook 5	6.00
B-EN6	Electronics Notebook 6	6.00
B-LE1	Learning Electronics Book 1	5.40
B-LE2	Learning Electronics Book 2	5.50
B-SD1	Security Devices	5.30
B-SSD1	Smart Security Devices Book 1	5.50
B-TE1	Talking Electronics Issue 1	5.40
SUB-6	6 Publication Subscription	34.80