

NEW 1964-5 EDITION

HENRY'S RADIO LTD 303 EDGWARE ROAD LONDON W2 ENGLAND
TELEPHONE: PADDINGTON 1008/9 CABLES: HENELEC, LONDON

COMPONENTS □ TRANSISTORS □ TAPE DECK
MICROPHONES □ VALVES □ SPEAKERS □
CRYSTALS □ SURPLUS EQUIPMENT □ ACCESSORIES
BEST GEAR □ RADIOS □ RECORD DECKS □ HI-FI
COMPONENTS □ TRANSISTORS □ TAPE DECK
MICROPHONES □ VALVES □ SPEAKERS □
CRYSTALS □ SURPLUS EQUIPMENT □ ACCESSORIES
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TUNERS □ SPEAKERS □ TRANSISTORS □
HI-FI EQUIPMENT □ ACCESSORIES □ VALVES □
CRYSTALS □ AMPLIFIERS □ SPEAKERS □ REC
TUNERS □ SPEAKERS □ TRANSISTORS □
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CATALOGUE

HENRY

HENRY'S RADIO

MAIL ORDER

PRICE TWO SHILLINGS

TRANSISTORS, CRYSTALS, VALVES, COMPONENTS AND EQUIPMENT
FOR THE AMATEUR AND PROFESSIONAL — ALL TYPES FOR EVERY PURPOSE
THE ELECTRONIC COMPONENT SPECIALISTS FOR MORE THAN 20 YEARS

★ **REVISED**
EDITION
1964 - 1965

NOTE: Due to the 15% Import Surcharge certain prices in this catalogue have been increased. As the Surcharge is reduced, so will our prices. A Credit Note will be issued for the excess amount.

HOURS OF BUSINESS: MONDAY TO SATURDAY (THURSDAY 1 p.m.), 9 a.m. to 6 p.m.
OPEN ALL DAY INCLUDING SATURDAY.

TERMS OF BUSINESS:

Terms are strictly nett cash with order or C.O.D. (Monthly accounts can be arranged for approved organisations, including Educational establishments). All cheques, money orders, postal orders, etc., should be made payable to "Henry's Radio Ltd." and crossed. Postage and packing charges should be included as indicated. Overseas orders are welcomed and packing and other charges will be quoted individually.

The prices shown in this Catalogue are subject to change without notice, all goods are offered subject to their availability and being unsold. Every effort has been made to ensure complete accuracy however no responsibility can be accepted for errors in prices descriptions or specifications.

Any shortages or damage in transit must be notified in writing immediately on receipt of goods quoting the receipt number, in addition any damage in transit must be reported to your local post office.

All returned goods for any reason whatsoever are sent at the risk of the senders. A separate letter must be enclosed with each parcel.

GUARANTEE. All goods supplied, unless otherwise stated, are guaranteed to be in perfect working order on delivery. Any goods which appear to be faulty must be returned immediately with full covering letter. Subject to test they will be replaced under Guarantee.

TRADE DISCOUNTS: Quotations will be given for enquiries on trade letter heading only.
State items and quantities required.

EXPORTS: We can supply all advertised lines in small quantities or in bulk for Export.
Enquiries invited for quotation on all stock items.

★ **LET US QUOTE FOR COMPONENTS FOR YOUR CIRCUIT** ★

COMPREHENSIVE CATALOGUE-FIFTH EDITION

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HENRY'S RADIO LTD FOR EFFICIENT AND RELIABLE SERVICE

NEW STOCK ITEMS

AS WELL AS NUMEROUS PRICE REDUCTIONS
THE FOLLOWING PAGES SHOW THE RANGE
OF NEW EQUIPMENT AND COMPONENTS
ADDED TO THIS NEW AND REVISED EDITION.

PAGES (ii), 6, 10, 23, 24, 26, 29, 30, 43, 48, 49, 57, 60, 66, 82, 83, 86, 87, 89, 90.

★ *We are stockists for the following makes of Hi-Fi equipment*

CARTRIDGES AND ARMS

LENCO
ORTOFON
SHURE
RONNETTE
DECCA
GOLDRING

RECORD PLAYER DECKS

GOLDRING-LENCO
SUGDEN
PHILIPS
GARRARD
THORENS

AMPLIFIERS

LEAK
ROGERS
LINEAR
TRIPLETONE
QUAD

SPEAKERS

WHARFEDALE
GOODMANS

ETC., ETC.

● LET US
HAVE YOUR
ENQUIRIES
FOR THESE
FAMOUS
MAKES—
24 HOUR
DELIVERY.

WATCH OUR ADVERTISEMENTS IN "PRACTICAL WIRELESS", "RADIO CONTROL MODELS AND ELECTRONICS", "RADIO CONSTRUCTOR" "SHORTWAVE MAGAZINE" HI-FI NEWS "RSGB" "WIRELESS WORLD" AND "PRACTICAL ELECTRONICS" MONTHLY MAGAZINES.

SUPPLIERS OF ELECTRONIC EQUIPMENT AND COMPONENTS TO:

BRITISH AND OVERSEAS UNIVERSITIES.
ATOMIC ENERGY AUTHORITY
BRITISH AND OVERSEAS AIRLINES.
POLICE FORCES.
EDUCATIONAL AUTHORITIES.
BRITISH AND OVERSEAS GOVERNMENTS
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PHOTO-GRAPHIC ESTABLISHMENTS
MANUFACTURERS AND DISTRIBUTORS
OF ALL TYPES OF EQUIPMENT.
GENERAL POST OFFICE
FORCES TRAINING CENTRES
RESEARCH ESTABLISHMENTS
ETC., ETC.

TRADE AND EXPORT
ENQUIRIES WELCOMED

"MACGREGOR" RADIO CONTROL EQUIPMENT

KITS AND BUILT EQUIPMENT

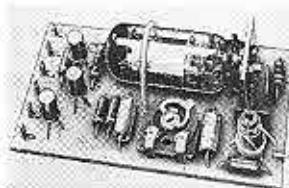
For all types of model Aircraft, Boats and Cars and other equipment requiring remote control. Models available include transmitters and receivers for CW and Tone. Circuit designs are all valve, valve-transistor or all transistor mounted on printed circuit panels. All models are for the 27 Mc/s. Radio Control Band.

★ **CARRIER WAVE RECEIVER**

Relayless output for actuators low resistance relays or small motors. Maximum loading 500mA. 3-Transistor plus valve design. Receiver voltages 22½ and 1½ volts. Actuator 6 volts maximum. Overall size 3½" × 2" × 1½". Weight 1½ Oz.

PRICE KIT 70/- pp. 1/6

PRICE BUILT 90/- pp. 1/6



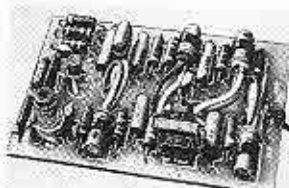
Carrier Wave Receiver.

★ **TERRYTONE II RECEIVER**

All transistor tone receiver. Relayless output for Actuators. Small motors or low resistance relays. Maximum loading 500mA. 5-Transistor design. Receiver voltage 3 to 4½ volts, actuator voltage 1½ to 6 volts maximum. Size 3" × 2" × ½". Weight 1½ Oz.

PRICE KIT £5.19.6 pp. 1/6

PRICE BUILT £7.9.6 pp. 1/6



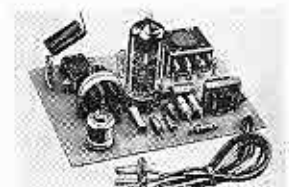
Terrytone II Receiver

★ **BASIC TRANSMITTER — CARRIER WAVE.**

Single channel design for use with carrier wave receiver (See above). Voltages required are 85 to 135 volts and 1½ volts. Overall size 4" × 3" × 2½".

PRICE KIT 59/6 pp. 2/-

PRICE BUILT 89/6 pp. 2/-



Basic Transmitter

★ **BASIC TRANSMITTER ... TONE.**

As above but tone modulated for use with Terrytone II and minimac receivers.

PRICE KIT 85/- pp. 2/-

PRICE BUILT £5.15.0 pp. 2/-

★ Conversion components to convert from carrier wave transmittance to tone transmitter

30/- pp. 1/6

★ **DE LUXE CW/TONE TRANSMITTER**

Two transistor plus valve combined carrier wave and tone receiver suitable for all the receivers shown Operates from 9 volts and 1½ volt batteries. Overall size 4" × 4½" × 2½".

(Note case shown is not supplied).

PRICE KIT £6.10.0 pp. 2/-

PRICE BUILT £8. pp. 2/-



De-luxe Transmitter

★ Metal case with telescopic aerial suitable for any of above transmitters.

Size 8¾" × 4¼" × 2½" **55/- pp. 1/6**

★ **MINIMAC RECEIVER**

Single channel tone receiver for relayless operation. Supplied built and tested in a plastic casing. Features 5-transistors. Overall size 2" × 1⅝" × ⅝". Weight 1 Oz. Requires 3 to 4½ volts for receiver and 1½ to 6 volts for actuator, motor or relay used.

PRICE BUILT £8.19.6 pp. 1/6



Minimac Receiver

★ All transistor crystal controlled tone transmitter complete in case.

PRICE BUILT £10.19.6 pp. 2/-

★ Transistor/Valve carrier wave and tone transmitter in case.

PRICE BUILT £8.19.6 pp. 2/-

● CONSTRUCTION BOOKLETS FOR THE KIT MODELS AVAILABLE SEPARATELY 2/- ●

Order form enclosed for your convenience. New forms will be sent with any goods ordered.

PLEASE WRITE CLEARLY!

HENRY'S RADIO LTD.

303, EDGWARE ROAD, LONDON, W. 2.
PADDINGTON 1008/9

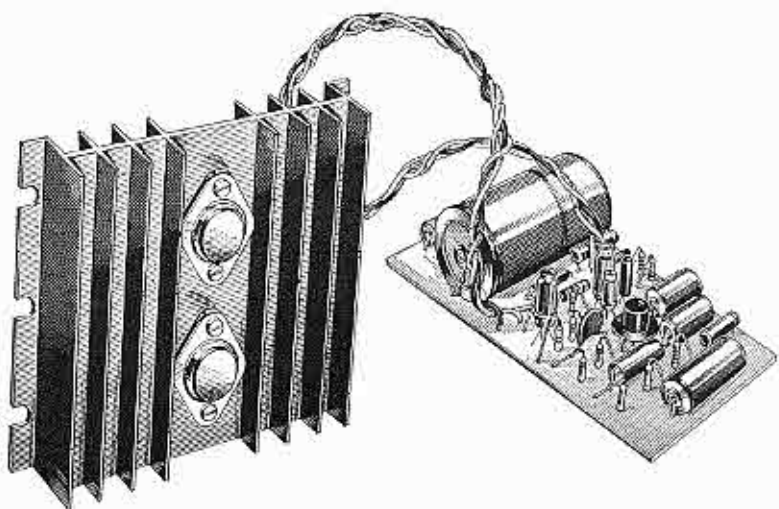
GENERAL INDEX

Trade enquiries invited
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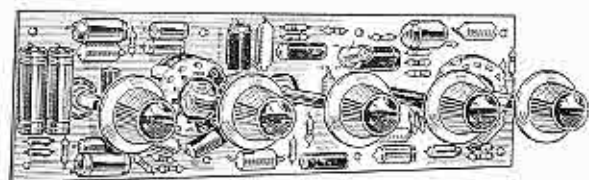
Am Tuner 17, 18	Demagnetiser 70	Mains Transformers 44	Stick Microphones ... 78, 79, 80
Audio Generator 69	Dynamic Inserts 81	Minigram 11	Starr Record Decks 73
Aerials, Car 49	Desk Microphones ... 78, 79, 80	Micro-6 Radio 88	Solon Solder Iron 51
Aerials, Telescopic 49	Dekatrons 25	Meter Cases 64, 65	Special Valves 24
Accessories 52, 53	Eliminators 49	Mediumwave Tuner ... 17, 18	Selenium Cells 30
Amplifiers 2, 4, 9, 10, 14, 19	Earphones 81	Neons (miniature) 30	Strobe Unit 62
Avometer 60	Etching Kit 11	Nombrex Signal Generator 68	Suppressor 42
DC/AC Converter 8	Eagle Microphones ... 78, 79, 80	Nombrex Mains Unit 68	Speaker Cabinets 77
Antex Solder Iron 51	Elstone Transformers 44	Nombrex Audio Generator 69	Stereo Balance Meter 60
Actuators 63	Extension Speakers ... 57, 77	Nombrex Res/Cap. Bridge ... 68	Stereo Amplifiers 87, 2, 4, 46, 5
Acos Microphones 78	Eagle Speakers 74	Nombrex Inductance Bridge 69	Screw Drivers 50
Audio Chokes 40, 45	Edge Controls 39	Output Transformers 40, 41, 45	Stylus Microscope 73
Audio Transformers ... 40, 41	Edgewise Meters 60, 61	Osmor Components 31, 33, 34, 35	Stereo Headsets 81
Auto Transformers 44	Electrolytics 38	Punch Board 47	Stereo Microphone 79
Aerials Ferrite 31	Ferrite Aerials 31	Parking Light 82	Slider Presets 39
Audio Kits 14	Ferrite Rods 31	Portable Radios 7, 8, 10	Transistor Tape Recorders ... 57
Audio Mixer 14, 18	Ferrite Pot Cores 48	Preamplifiers 2, 4, 12, 14	Tape Demagnetiser 70
Auto Changers 72, 73	F.M. Tuners ... 87, 5, 16, 17, 84	Pickup Arms 73	Transistor Coils ... 32, 34, 35
Baby Alarm 56	Field Strength Meter 67	Precision Resistors 42	Transformers Mains ... 42, 44
Batteries 45	Fuses and Holders 53	Precision Presets 42	Transformers Transistor 40, 41
Books 54	Flux Meter Head 62	Panel Meters 60, 61	Transformers Valve 45
Battery Eliminators 49	Fm/Am Strips 16, 17	Pot Cores 48	Tubular Speaker Units 57
Booster Speakers 57	Generators 68, 69	Pre-set Controls 37, 39	Tape Heads 70, 84
Bulb Holders 30	Geiger Tube 63	Plugs and Sockets ... 52, 53	Tape Decks 13, 71
Battery Decks 71, 73	Glide Path RX 62	Publications 54	Tape 85, 86, 70
Booster Transformers ... 44	Gamma Probe 63	Public Address 86	Telescopic Aerials 49
Battery Clips 50	Gauge Head 63	Public Address 86	Transistor Sockets 27
Bridge units 63, 68	Garrard Decks 72, 73	Printed Circuits 47	Transistors 26
BSR Record Decks 72	Goodmans Speakers 75	Pick-Up Coil 78	Tubes 25
BSR Tape Deck 71	Headphones 81	Personal Earphones 81	Test Meters 64, 65, 66
Build Yourself 4, 5, 6, 7, 8, 12	Heat Sinks 27	Pocket Radios 6, 8, 59	Tuning Condensers 36
Built Radios 59	Hi-Fi Amplifiers 87, 2, 3, 4, 9, 14	P.W. Designs 15	Transistor Tester 29
Collaro Tape Decks 71	Hi-Fi Tuners ... 87, 5, 16, 17	Printed Circuit Kit 11, 47	Telephone Amplifiers ... 56, 57
Car Radio (to Build) 6	Hi-Fi Speakers 74, 75, 76, 77	Punch Kits 50	Turntables 72, 73
Contamination Meter 85	Hi-Fi Microphones 79, 80	Photo Cells 25	Tape Recorders ... 12, 13, 57
Chassis Cutters 50, 51	Hi-Fi Auto-changers ... 72, 73	Photo-Transistor 30	Thermistors 30
Connectors 52, 53	Hole Cutters 50, 51	Press Button Switches 43	Test Leads 50, 51
Chokes 31	Horn Tweeters 76, 90	Padders 37	TRF Coils 32
Condensers, Fixed 38	HF Diodes 25	Power Supplies 42, 49, 68, 83	Transistor Radios 6, 7, 8, 10, 59
Condensers, Tuning 36	Hi-Fi Head Sets 81	Pick-Up Cartridges 73	Tape Recorder Kits 13
Condensers, Preset 37	IF Transformers ... 32, 33, 36	Power Rectifiers 25, 26	Telephone Pick-Up Coil ... 78
Cabinets 47, 77	Intercomms 54	Photo Multiplier 62	Tool Kits 50
Chassis 47	Inserts 81	Quartz Crystals/holders 20, 21, 22	Tape Spools 70
Coils 32, 33, 34	Irons and Spares 51	'Q' Max. Cutters 50	Tuner Units ... 87, 90, 5, 16, 17
Crystals 20, 21, 22	Insulation Tester 90, 67	Quartz Dosimeter 63	Transistor Amps. 2, 4, 9, 10, 14, 19, 87, 89
Contact Microphone 78	IF Strips 16, 17	Quartz Ovens 20	Tuning Indicator 60
Counter 29	Injector 66, 89	Resistors 42	Tape Splicer 70
Controls 39	Jack Plugs and Sockets 52, 53	Resistor Box 67	Transistor Record Player ... 11, 9
Carverter 8	Jackson Tuners 36	Rectifiers 25, 26, 43	Tweeters 76, 90
Convertor (DC/AC) 8	Knobs 47	Relays 29	Tape Preamplifiers ... 2, 4, 12
Capacitance/Resistance Bridge 68	Leaflets Available 91	Radios ... 6, 7, 8, 10, 59	Transistor HI-Fi 2, 3, 4, 14, 87
Communications Receivers 55	Loudspeakers ... 74, 75, 76, 77	Record Changers ... 72, 73	Transcription Decks ... 72, 73
Capacitor Box 67	Lapel Mics 78	Recording Tape 70	Thyratrons 24
Car Aerials 49	L.D.R. Cells 30	Radio Control Crystals 30, 20	Tape Preamplifiers 12
Cross Over Units 76, 90	Lampholder 30	Reference Diodes 25	Transistor Accessories 27
Crystal Microphones ... 78, 80	Ledex Switches 63	Radiation Equipment 85	Voltage Regulators ... 62, 84
Crystal-Inserts 81	Lafayette Tape 70	Recorder Kits 12, 13	Valves 23, 24
Charger Rectifiers 43	Microwave Diodes 25	RF Chokes 31	Volume Controls 39
Charger Transformers ... 44	Microphone Stands 78	Record Cleaner 73	Valve Voltmeters 66, 69
Crystal Calibrator 63	Martin Kits 12, 13, 14	Radio Tuners ... 5, 16, 17, 18	Vibrators 62
Cadmium Sun-Cells 25	Magnetrons 24	Re-entrant Speakers —	Valve Sockets 27
Copper Clad Panels 47	Meter Rectifiers 25	Spools (Tape) 70	VHF Equipment 62
Cooling Clips 27	Microphones 78, 79, 80	Speakers 90, 46, 74, 75, 76, 77	Vernier Dials 30
Cartridges 73	Microphones Inserts 81	Switches 30, 43	Valve Coils 33
Convair Radio 7	Meters 60, 61	Signal Generators 68, 69	Vacuum Meter Head 63
Chassis Punches 50, 51	Mains Units 49	Sockets —	Valve Amplifiers 58
Crystal Oven 20	Magazines 54	Soldering Irons 51	VHF Tuners ... 5, 16, 17, 87
C.R.T.'s 25	Miscellaneous 52, 53	Surplus Units 62, 63	W.B. Speakers 76, 77
Diodes 25	Multimeters 90, 64, 65	Stethoscope Headsets 50	Wire, All Types 50
Dosimeters 63	Mixer Units 12, 14, 18	Solder 67	Weyrad Components ... 15, 32
Dial Sets 30, 47	Mercury Cells 45	Substitution Boxes 26, 27	Wire Wound Controls ... 39
Dynamic Microphones 78, 79, 80	Model Control (ii)	Silicon Rectifiers 43	Watt Meter 62
Driver Transformers 40, 41, 45	Magnetic Inserts 81	Selenium Rectifiers 43	Walkie-Talkie (Transistor) 58, 86
Denco Coils 35, 32	Mains Neons 30	Signal Injectors 66, 87	Zener Diodes 25
		Stereo Changers 72	
		Sinclair Designs 88, 87	

10 Watt Transistor Hi-Fi Amplifier and Preamplifier

- ★ LOW NOISE HIGH GAIN
TRANSFORMERLESS
PUSH-PULL DESIGN.
- ★ LOW POWER REQUIREMENTS
- ★ PRE-BUILT UNITS
- ★ MONO OR STEREO



POWER AMPLIFIER



Preamplifier and control unit

- ★ PRINTED CIRCUIT CONSTRUCTION



Front Panel Plate

- ★ 70dB Signal to noise ratio
- ★ Less than 0.3% distortion
at 10 watts output.
- ★ Output 10 watts Rms music
power or 20 watts peak

★ POWER AMPLIFIER

10 watts RMS output at 400 c/s. Distortion less than 0.3% at 10 watts. ± 1 dB response 30 c/s to 20 kc/s with built in Roll off below 30 c/s and above 20kc/s. 60dB negative feed Back. 100mV into 33 K ohm for 10 watts output. Available for 3/4 ohm and 15/16 ohm speakers. Two are used with our Stereo Preamplifier.

6-Transistor and Diode direct coupled low noise design on printed circuit panel 4x2 1/2 inches. output pair on 4x4 inch. radiator.

★ PREAMPLIFIER AND CONTROL UNIT

8 Inputs ranging from 1.5 mV into 1 K ohm up to 250mV into 500 k ohm. Full equalisation and correction for LP and 78 records, crystal, ceramic and magnetic pickups, tape replay, crystal and dynamic microphones, all types of tuners etc. 4 Position low pass filter. Volume control, Input selector, Treble and bass controls, Maximum boost 13dB at 50 C/s and 15 kc/s, Full cut 15dB at 30 c/s and 15 Kc/s. Size 9x2 1/2 inches.

- Sufficient output to power two power amplifiers.

10 watt 3 ohm
24 volt
Power Amplifier

£5.10.0 pp. 2/6
(or Kit 99/6 p.p. 2/6)

10 watt 15 ohm
40 volt
Power Amplifier

£5.19.6 pp. 2/6
(or Kit £5.10.0 p.p. 2/6)

Full Function
Preamplifier
(For either amplifier)

£5.10.0 pp. 2/-
(or Kit 99/6 p.p. 2/-)

Mains Units (Optional)
(Will run two complete
equipments)

69/6 pp. 2/6
or **59/6** pp. 2/- for
single power amplifier

PRICES

★ BROWN AND GOLD FRONT PANEL PLATE 8/6d. ★

★ FULLY DETAILED BOOKLET WITH CIRCUITS FREE ON REQUEST ★

**CRYSTAL AND
DYNAMIC
MICROPHONES**

Pages 78/79/80

**AM AND
VHF FM
TUNERS**

Pages
5/16/17/18/82

**TAPE
DECKS**

Page 71

**MIXERS
AND
AUXILIARY
INPUTS**

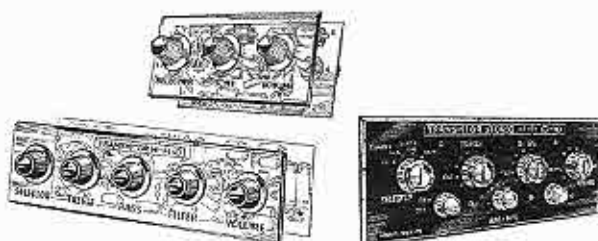
Pages 12/14/18

**TAPE
RECORD/RE-
PLAY UNIT**
PAGE 12

**RECORD
PLAYER
DECKS**

Pages 72/73

**MONO OR STEREO PREAMPLIFIERS
AND CONTROL UNITS**

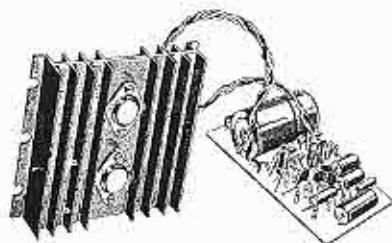


**POWER
SUPPLY
MAINS
UNIT OR
BATTERIES**

**MONO OR STEREO
EQUIPMENT**

**SPEAKERS
AND
TWEETERS**

Pages
74/75/76/77/90



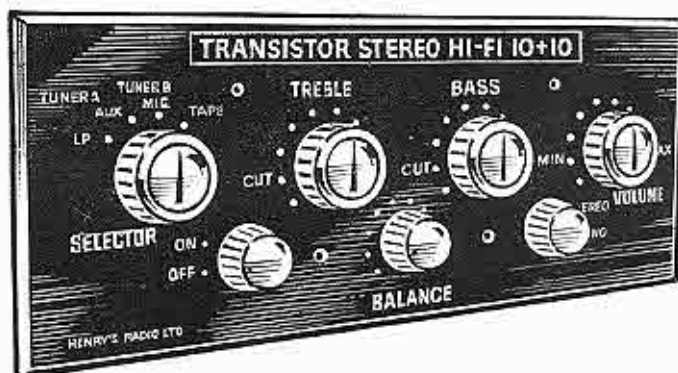
**10 WATT POWER
AMPLIFIER**

● PTO FOR
STEREO
PREAMPLIFIER
DETAILS.

Transistor High Fidelity Equipment

LOW NOISE TRANSISTOR INTEGRATED STEREO PREAMPLIFIER AND CONTROL UNIT

- PREBUILT UNITS
- HUM FREE
- PROFESSIONAL
QUALITY



Developed from the mono preamplifier described on page 2. Features four selected high gain low noise transistors. Each channel has frequency selective negative feed back for the first stage with eight inputs between 1.5mV and 300mV. The second stage is an adaption of the baxandall tone control circuit with 13dB boost at 50c/s and 15 Kc/s and 15dB cut at 30 c/s and 15 Kc/s. High and low pass filtering is provided by negative feed-back. Controls are input selector, balance, treble, bass and volume controls, supply on/off switch and mono stereo switch. Output 250mV peak for 1.5mV to 300mV inputs.

Designed for use with the 10 watt power amplifiers shown on page 2. The stereo preamplifier can be used with 9 to 12 volt batteries at 5mA or run from the power amplifiers.

★ Equalised for pickups and tape replay

★ 1.5mV sensitivity

★ Overall size $9 \times 3\frac{5}{8} \times 1\frac{1}{2}$ inches

★ 8 Inputs per channel

★ Printed circuit design

PRICE
BUILT

£10.19.6 pp. 3/6

★ Brown and gold front panel plate
12/6 extra

NEW "PICK-UP MATCH"

Stereo Preamplifier Unit with dual impedance inputs. Matches 25 to 70mV, 1 to 2 meg ohm pick-ups such as Decca Deram to main preamp. Also. Matches 2 to 10mV, 40 to 100Kohm pickups such as B.O., Shure, etc., etc., to main preamplifier.

Price built 39/6 pp.1/6

● DETAILED LEAFLET FREE ON REQUEST ●

VHF FM TRANSISTOR TUNER

● NEW REDUCED PRICE

(AS DESCRIBED IN DECEMBER 1963 EDITION OF RADIO CONSTRUCTOR)

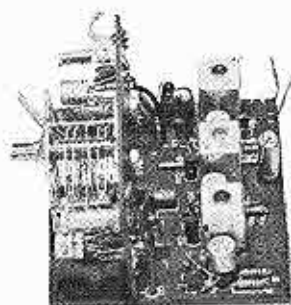
★ FULL COVERAGE 87 TO 105 MC/S.

★ 5-TRANSISTORS AND 4-DIODES

★ AFC AND AVC

Features low loss pretinned printed circuit design with 10.7 Mc/s prealigned IF and geared tuning from 87 Mc/s to 105 Mc/s. Printed circuit panels are clearly marked with components designation for easy construction. Self contained 9 volt power supply or external supply—Low consumption only 9mA at 9 volts. Supplied complete with front panel. All components are selected first grade types. Transistors used are (1) AF114, (3) AF115 or OC169.

Overall size in casing $3\frac{1}{2} \times 2\frac{1}{2} \times 4$ in. or $3\frac{1}{2} \times 2 \times 3\frac{1}{2}$ in without casing.



DESIGNED FOR USE WITH VALVE OR TRANSISTOR AMPLIFIERS FOR PORTABLE OR DOMESTIC HI-FI USE

TYPICAL SENSITIVITIES

2/3 mV for	1 microvolt aerial input
30mV .. 10	.. .. ..
70mV .. 100	.. .. ..

- Average maximum output up to 1 volt peak.
- Signal to noise ratio better than 50dB.
- Approximate bandwidth 250Kc/s.

PARTS LIST—ALL PARTS SOLD SEPARATELY

Complete set of 25-5% resistors	...	12/6
.. .. 23 capacitors	...	20/-
Twin gang tuner	....	9/6
Complete set of transistors and Diodes	...	57/6
.. coil set with IFTS	....	37/6
Set of printed circuit panels	....	17/6
Miscellaneous Items	....	5/6
Front panel plate	....	6/6

TOTAL COST OF ALL PARTS

£6.19.6 pp. 2/-

★ HIGH QUALITY — LOW NOISE — HIGH SENSITIVITY RECEIVER FOR VHF FM BROADCASTS.

★ EXTRA ITEMS

COMPLETE CABINET ASSEMBLY WITH ALL NUTS BOLTS ETC. 20/- Extra.

★ FULLY DETAILED BOOKLET WITH CIRCUIT FREE ON REQUEST ★

**ALL TRANSISTOR
CAR RADIO**

FINEST VALUE!

1 HOUR TO BUILD

*With Pre-Assembled Chassis
and Printed Circuits*



**THE
"ROADSTER"**

- ★ FULL TUNING OF MEDIUM AND LONG WAVE BANDS.
- ★ 6 - TRANSISTOR, 2 - DIODE PLUS VDR - ALL MULLARD.
- ★ DOUBLE TUNED IFTS.
- ★ PERMEABILITY TUNING WITH SMOOTH GEARED DRIVE.
- ★ PUSH - PULL CAR FILLING OUTPUT
- ★ PROFESSIONAL APPEARANCE.
- ★ PUSH-BUTTON WAVECHANGE.
- ★ 12 VOLT POSITIVE EARTH OPERATION FROM CAR BATTERY.
(Or from 2-6 volt dry batteries).
- ★ ATTRACTIVE CABINET OVERALL SIZE 7 x 5 x 2 INCHES TO FIT ANY TYPE OF VEHICLE.

TOTAL COST TO BUILD £8-19-6 p.p. 3/6

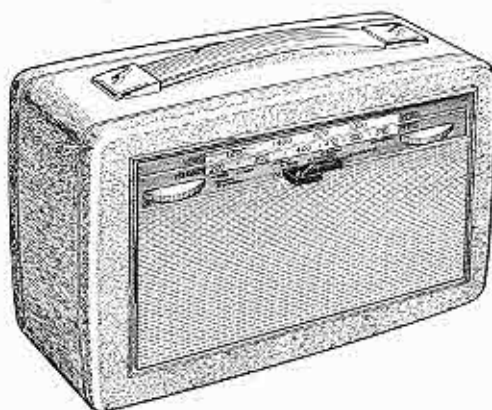
- 7 x 4 inch high flux speaker to match complete with baffle and car fixing kit
20/- Extra
- 3-section Telescopic Aerial, one hour fixing. Chrome finish. Complete with lead and plug
19/6
or Fully disappearing type 35/-
- Miniature Soldering Iron Antex 29/6
- ALL PARTS FULLY GUARANTEED AND COVERED BY AFTER SALES SERVICE.
- VALUE FOR MONEY WITH OUTSTANDING QUALITY AND PERFORMANCE
- CIRCUIT AND DETAILS ON REQUEST

FIRST AND BEST AND UNBEATABLE

CONVAIR

NEW DESIGN HIGH PERFORMANCE PORTABLE TWO WAVE BAND PUSH - BUTTON RADIO

- ★ LATEST PUSH-BUTTON DESIGN
- ★ QUALITY PUSH PULL OUTPUT
- ★ FULL TUNING ON
MEDIUM AND LONG WAVE BANDS
- ★ 6-TRANSISTORS - 2-DIODES.



PROFESSIONALLY DESIGNED PRINTED CIRCUIT CONSTRUCTION USING SELECTED MULLARD AND A E I TRANSISTORS. DOUBLE TUNED IFT'S—8 INCH DUAL WAVE BAND FERRITE AERIAL—GEARED SLOW MOTION HORIZONTAL TUNING—LARGE 5 INCH SPEAKER WITH OVER 700 mW PUSH-PULL OUTPUT—PUSH-BUTTON SELECTION OF WAVE BANDS—CAR AERIAL SOCKET.

ATTRACTIVELY STYLED COVERED CABINET WITH CLEARLY MARKED STATION DIAL—SMART CARRY HANDLE AND CAREFULLY FINISHED APPEARANCE.—DEFINITELY THE PICK OF THE PORTABLES. GUARANTEED RECEPTION OF MEDIUM AND LONG WAVE STATIONS AT HOME AND ABROAD. AMAZING SENSITIVITY ON BOTH WAVE BANDS.

PLAINLY MARKED PRINTED CIRCUIT PANEL AND FULLY DETAILED INSTRUCTIONS, ONLY FIRST GRADE COMPONENTS ARE USED. SUPPLIED WITH FACTORY ASSEMBLED TUNING DRIVE AND WAVE CHANGE ASSEMBLY.

● DETAILED LEAFLET WITH CIRCUIT ON REQUEST

TOTAL COST
OF ALL PARTS

£7-19-6

(Batteries 2-PPI or VTI 6/- Extra)

PP. 3/6

- ★ LOW PRICE WITH OUTSTANDING PERFORMANCE AND VALUE
- ★ ALL PARTS AVAILABLE SEPARATELY
- ★ FULL AFTER SALES SERVICE AND GUARANTEE

● Available in Dark Blue or Red finish with trimming

★ FOLLOWING A LONG LINE OF TRADITION
FOR QUALITY AND VALUE ★



New!

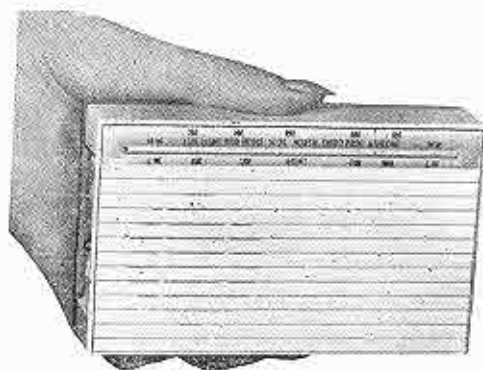
REGENT 6 MEDIUM AND LONG WAVE POCKET RADIO

- ★ FULL TUNING ON MEDIUM WAVE AND LONG WAVE BANDS.
- ★ PUSH-PULL "CLEAR TONE" OUTPUT
- ★ PROFESSIONAL PRINTED CIRCUIT DESIGN
- ★ GEARED TUNING FOR EASY STATION SELECTION
- ★ CASE COLOURS CREAM WITH BLUE OR RED

AMAZINGLY CLEAR RECEPTION FOR A POCKET RADIO WITH TERRIFIC SENSITIVITY ON BOTH WAVE BANDS. RADIO LUXEMBURG AND RADIO CAROLINE ARE LOUD AND CLEAR. EASY TO BUILD WITH COMPLETE ASSEMBLY INSTRUCTIONS.

- ALL PARTS SOLD SEPARATELY AND FULLY GUARANTEED.
- FULL AFTER SALES SERVICE.

★ **QUALITY DESIGN AND PERFORMANCE — VALUE FOR MONEY** ★



● SIZE $5 \times 3 \times 1\frac{1}{2}$ INS.

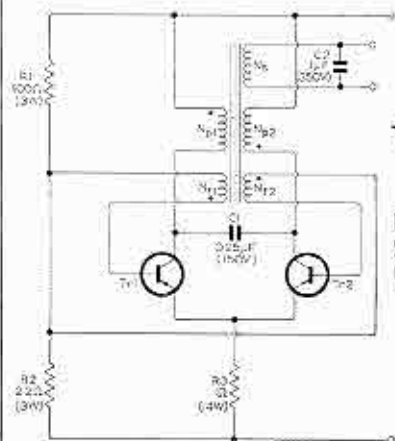
**TOTAL COST
TO BUILD**

85/- pp. 2/6

(BATTERY 2/6, MATCHING EARPHONE 5/-)

- CIRCUIT AND DETAILS **FREE** ON REQUEST.

12 VOLTS TO 230/240 VOLTS



DC TO AC CONVERTOR

- ★ USES 2-POWER TRANSISTORS TYPE XC141 IN TRANSFORMER INVERTOR CIRCUIT. RUNS FROM 12 VOLTS DC I.E. CAR BATTERY, PRODUCING 230 VOLTS AC UP TO 15 WATTS (OR UP TO 65mA).

IDEAL FOR JOURNEYS, CAMPING ETC., WHERE CAR BATTERY IS ONLY SOURCE OF VOLTAGE. SUITABLE FOR ELECTRIC RAZORS OR ANY MAINS UNIT REQUIRING 15 WATTS MAXIMUM.

COMPLETE
KIT OF PARTS **62/6** pp. 2/-

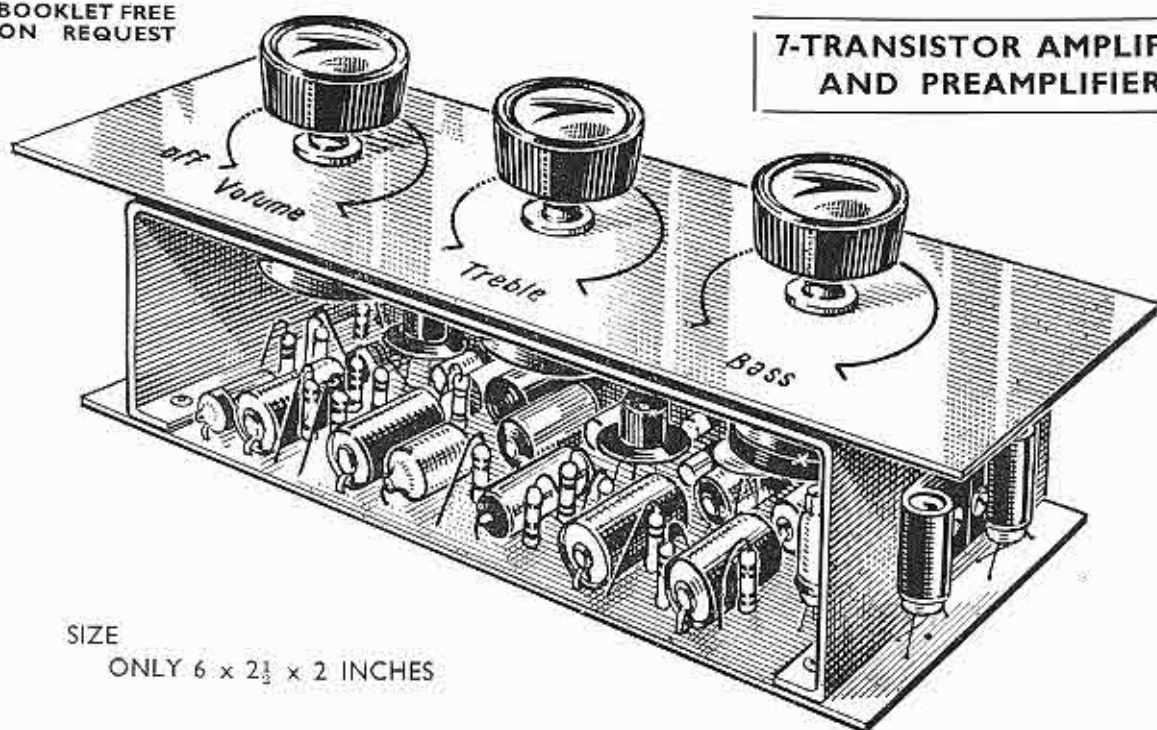
★ A REPANCO
DESIGN

(CIRCUIT MANUAL SEPARATELY 9d.)

SIZE $4\frac{1}{2} \times 3 \times 2$ INCHES.

BOOKLET FREE
ON REQUEST

7-TRANSISTOR AMPLIFIER AND PREAMPLIFIER



SIZE
ONLY 6 x 2½ x 2 INCHES

— *Real value and Performance* —

- FULL TREBLE, BASS AND VOLUME CONTROLS
- 40c/s TO 20kc/s ± 3 dB RESPONSE
- INPUTS FOR CRYSTAL AND MAGNETIC PICKUPS, MICROPHONES, RADIO TUNERS, MIXER ETC.
- MAINS OR BATTERY OPERATED
- 9/12 VOLT OPERATED FOR 3 TO 5 OHM SPEAKERS (mains unit 49/6 extra)
- ★ IDEAL FOR ALL BATTERY OR MAINS RECORD PLAYERS AND RADIO-GRAMS. PORTABLE OR DOMESTIC EQUIPMENT.
- ★ 4 WATTS PEAK OUTPUT — BETTER PERFORMANCE THAN VALVE DESIGNS OF TWICE THE PRICE.

BUILT AND
READY TO USE

£5-19-6 pp.2/-

★ SEE PAGES 46/72/75 FOR RECORD DECKS AND SPEAKERS ★

NEW RANGE OF PORTABLE

QUALITY IN SMALL PACKAGES

★ 4 WATT

New 6-transistor and rectifier design on printed circuit. Overall size only $2\frac{1}{2} \times 2 \times 2$ inches. Operates from 12 to 18 volt supplies at 200mA maximum. Output to 3 to 5ohm speakers. Sensitivity $2/3mV$ into 1K ohm for 3 to 4 watts output using 12 volt supply. Response 30c/s to 15 Kc/s. Push-pull transformerless design with exceptionally low distortion and high gain.

Price Built 79/6 pp. 1/6 Or Kit 69/6 pp. 1/6

Peak output 6 to 8 watts.

★ $1\frac{1}{2}$ WATT

Printed circuit 6-transistor and rectifier design. Features push-pull output to 3 to 5 ohm speakers. Operates from 9/12 volt supplies. Sensitivity 3 to 5mV for full output. Overall size $2\frac{1}{2} \times 2 \times 2$ inches. Sensitivity 3 to 5mV (into 1K ohm) for full output. 150mA maximum. Overall size $2\frac{1}{2} \times 2 \times 2$ inches.

Price Built 65/- pp. 1/6 Or Kit 57/6 pp. 1/6

Peak output 2 to 3 watts.



USE IN
PAIRS FOR
STEREO



● $1\frac{1}{2}$ WATT VERSION ● 4 WATT VERSION

TRANSISTOR POWER AMPLIFIERS

- Overall Size $2\frac{1}{2} \times 2 \times 2$ ins.
- Transformerless high gain distortion free designs.
- Ideal for tuners, record players, loud hailer, tape replay etc., or any application requiring a quality amplifier.
- Can be used with pre-amplifiers of pages 2, 4 and 12. For mono or stereo- One preamp can be used to drive two amplifiers.

★ Detailed leaflet with circuit and details on request ★

NOW FROM STOCK

TSL — GORLER AMPLIFIERS

★ 1 watt 6 volt 92/6 pp. 1/6

(See Page 19 For Details)

Also TSL Audio Heart 1 watt. Kit 52/6 Built 59/6

★ $1\frac{1}{2}$ watt 12 volt (Negative Earth) 97/6 pp. 1/6

★ 2 watt 9 volts (Type 324-007)

4-transistor printed circuit design. Push-pull output to 3/5 ohm speakers. Sensitivity $2/3mV$ for full output into 2 K ohms. Overall size $2\frac{3}{8} \times 3 \times 1\frac{1}{8}$ inches. Response $\pm 3dB$ 80C/s to 22Kc/s.

Price £5.2.6

★ 2 watt 12 volts (Type 324-0013).

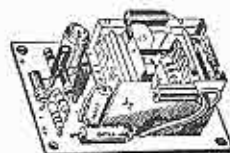
4-transistor design as above. Same size, same response and sensitivity.

Price £5.7.6



Audio Heart

- Conventional transformer coupled designs
- Ideal for tuners, Intercomms, Record players etc. etc.



The

MINIGRAM

TRANSISTOR PORTABLE RECORD PLAYER

OFFERED AT HALF PRICE !



ALL UNITS SOLD
SEPARATELY

- ★ Features 4-Transistor printed circuit 1 watt amplifier with push-pull output; 5×3 inch high flux speaker; Low current governed turntable motor with crystal pickup. Built into attractive two tone moulded cabinets size 8×8×4 inches.
- ★ Plays 45 rpm records with a pleasing tone. Fitted into attractive cabinet of modern design.
- ★ Sold as three assembled units with less than 30 minutes interconnection work required.
- ★ Runs from 9 volt battery PP9, VT9 or equivalent, readily available.

Made by well known British Manufacturer to sell at more than twice the price.

● ORIGINAL VALUE £8.19.6 ●

TOTAL COST

79/6 pp. 5/-
(Battery 3/9d. extra)

- ★ Ready built amplifier with volume control and speaker 35/- pp. 2/-
- ★ Starr Turnable and pickup (Ready assembled) 39/6 pp. 2/6
- ★ Two tone moulded case (Ready assembled) 5/- pp. 2/-

IDEAL GIFT FOR ANYONE — A PLEASURE TO OWN AND USE

● ETCH YOUR OWN PRINTED CIRCUITS

A complete Kit with full instructions for etching printed board to your own circuit designs. Supplied with all necessary chemicals, cleaners, dishes and brush. Fully detailed instructions and three copper clad boards. Size 6 × 3 in.

19/6 p.p. 1/6

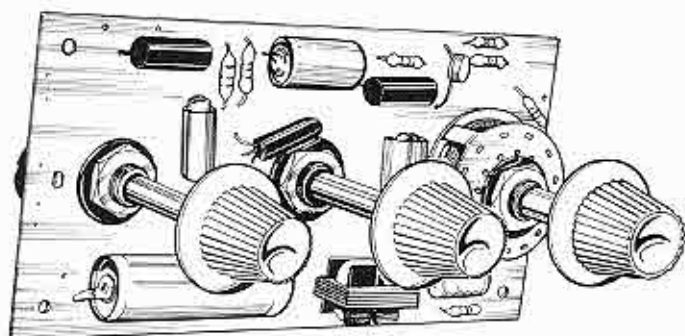
● SPARE BOARDS FOR ETCHING

Size 6 × 3 in. 1/9 each p.p. 6d.
Size 5½ × 6½ in. 3/6 each p.p. 6d.



FROM STOCK WE CAN SUPPLY MOST OF THE COMPONENTS USED ON CIRCUITS IN RADIO MAGAZINES AND BOOKS. LET US QUOTE FOR YOUR CIRCUIT.

TRANSISTOR PREAMPLIFIER AND MIXER PANELS



- ★ LOW NOISE-HIGH GAIN DESIGN
- ★ IDEAL PREAMPLIFIER FOR 10 WATT TRANSISTOR POWER AMPLIFIERS
- ★ WORKS FROM 9 VOLT BATTERY OR TRANSISTOR POWER AMPLIFIER

PRICE
BUILT 65/- pp. 1/6

(Brown and Gold Panel Plate 6/6 extra)

New single stage transistor preamplifier. Features 8-switched inputs for crystal/ceramic/magnetic pickups, crystal/dynamic microphones, valve/transistor tuners, tape replay etc. Sensitivity 1.5mV up to 300mV. Response ± 1 dB 30 c/s to 30 kc/s. Fitted volume control and top cut control. Works from 9 volts at less than $\frac{1}{2}$ mA. Designed for use with any amplifier, valve or transistor. Matches our 10 watt power amplifier exactly. Built in resistors to enable the preamplifier to run from 24 or 40 volt amplifier supplies. Overall size $5 \times 2\frac{1}{2}$ inches. Any number can be used with outputs paralleled to form high performance mixers. Ideal for Public Address Systems, for microphones, pick-ups. Sufficient output to drive one or two 10 watt amplifiers (page 2) or $1\frac{1}{2}$ watt or 4 watt amplifiers (page 10).

● DETAILS ON REQUEST ●

MARTIN RECORDAKITS

TAPE PREAMPLIFIERS

★ FOR USE BETWEEN A TAPE DECK AND EXISTING AMPLIFIER ★

This Martin Pre-amplifier Recordakit enables you to add a tape-recording deck to any amplifier system with a minimum of cost and trouble. Designed for use with the well-known Collaro 3-speed Tape Deck, and available for two or four track operation. Includes valves, "magic eye", transformers and everything down to the last screw. Amplifier section supplied assembled and tested on printed circuit board.

Output :
400 mV into 10,000 ohms.

Input :
Microphone Socket—3 mV into $\frac{1}{2}$ megohm.
Radio/Gramophone—400 mV into 1 megohm.

Frequency Response : (whole system)
At $3\frac{1}{2}$ in. and $7\frac{1}{2}$ in. per second over mic.
input/record/play/output—40/14,000 c/s
 ± 2 dB.

Kits are complete with easy to follow instructions.

Due to the special characteristics of tape recording and play-back heads, it is impossible to connect them directly to normal types of amplifiers such as are used for gramophone pick-ups and radio tuners. Therefore, if you want to add tape facilities to your already existing equipment, you must have a special preamplifier between the deck you are going to use and the amplifier you already have in use. In this way, it becomes possible to have a complete record-playing, radio and tape-recording assembly for remarkably little extra outlay, particularly as MARTIN RECORDAKITS are supplied for you to build yourself. This saves you money, gives you the satisfaction of doing the job yourself and it is so easy that anyone can do it without previous experience or the need for any but the simplest of home tools.

★ FOR COLLARO STUDIO DECK

Kit 8319CP for
2 track operation
inc. valves

8 GNS. p.p. 2/6

Kit 8319-4 CP for
4 track operation
inc. valves.

9 GNS. p.p. 2/6

BUILD A QUALITY TAPE RECORDER

AVAILABLE AS TWO OR
FOUR TRACK MODEL

● SPECIAL PARCEL DISCOUNT ●

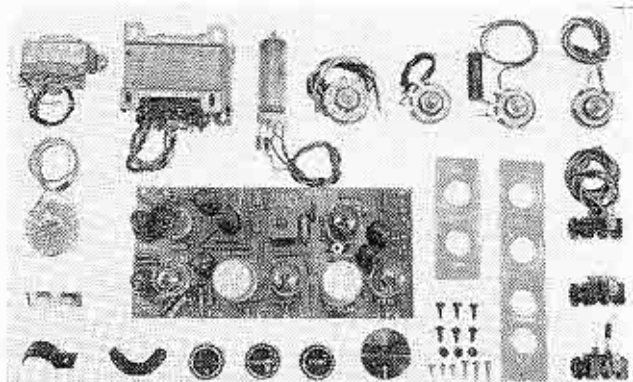
★ FOR 'COLLARO STUDIO' DECK TWO TRACK AND FOUR TRACK THREE SPEED MODELS

Enables a three speed high fidelity tape recorder to be built with the following facilities :

Volume, tone and monitoring controls plus three speed selector, ($1\frac{1}{2}$, $3\frac{3}{8}$, $7\frac{1}{2}$) choice of two or four track versions, Start, Stop, Fast Forward, Fast Reverse and Pause Controls. Magic eye indicator, Tape position indicator. Separate volume controls for recording level and built-in loudspeaker.

The amplifier has three watts undistorted output and the complete recorder can be used as a straight high fidelity amplifier for records, etc. Frequency response at $7\frac{1}{2}$ per second 80-12,000 c/s ± 3 dB. At $1\frac{1}{8}$ per second (slow speed) a 7" reel of double play tape will give up to 8 (or 16) hours playing. Input sockets for use with microphone, radio and pick-up, etc. External speaker socket.

Every Martin Recordakit is individually tested before leaving the factory, and includes easy to follow, step by step instructions. Each kit is complete down to the last screw and when built, your Martin Recordakit is ready to take all standard accessories produced for the modern tape recorder to provide endless hours of entertainment.



(ACTUAL KIT)

The high quality amplifiers are assembled on printed circuit boards, each complete with BVA valves and individually tested. NO PREVIOUS SKILL OR KNOWLEDGE IS REQUIRED TO ASSEMBLE THE TAPE RECORDER which, when built, will be found to be equal to the very best of its type. Even the wire leads are attached at one end to make wiring simpler!

Martin Tape Recorders can be used with any modern crystal microphone, tuner or gramophone pick-up which connects via standard jack-plug into the socket provided.

- (1) **MODEL 'C' AS DESCRIBED ABOVE**
Amplifier 8311-V assembled and tested with six BVA valves, controls, switches, transformers, knobs and full instructions for 2-track operation.

Price **£11.11.0** pp. 2/6

- (2) **COLLARO STUDIO DECK**
Two-track, three motors.

Price **£10.10.0** pp. 5/-

(See page 71 for full description)

- (3) Smart two-tone leatherette covered wooden case and 9" x 5" high quality speaker. Type 6659-V to take Kit model 'C' or model 'D'. (As illustrated)

Price **£5.5.0** pp. 3/6

Items 1, 2 and 3
Purchased
As one parcel

£26 pp. 8/6

★ Two Track

- (4) **MODEL 'D' AS DESCRIBED ABOVE**
Amplifier 8311.4-V assembled and tested with valves, controls, switches, instructions, etc., as 'C' but for 4 track operation.

£12.12.0 pp. 2/6

- (5) **COLLARO STUDIO DECK**

Four track
(See page 71 for full details)

Price
£13.19.6

- (6) Cabinet as item (3) above

Price **£5.5.0** pp. 3/6

pp. 5/-

Items 4, 5 and 6
Purchased
As one parcel.

PRICE **£30**

★ Four
Track
pp. 8/6



*Fully detailed Leaflet
on Request*



PORTABLE
CABINET
WITH
COLLARO
STUDIO DECK
AND AMPLIFIER

You can build your RECORDAKIT into its own Cabinet (as above) or into your existing RecordPlayer/Radiogram Cabinet

- ★ Model 'A' amplifier for 4-track BSR deck 9Gns. pp. 2/6
★ Model 'B' Amplifier 2-track BSR deck 8Gns. pp. 2/6
★ Portable cabinet with speaker 4Gns. pp. 3/6

● FULL RANGE OF TAPE ACCESSORIES
AND MICROPHONES IN STOCK ●

Martin Audio Kits

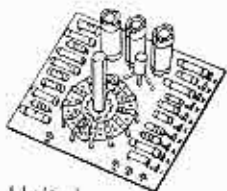
ALL TRANSISTOR HI-FI
AMPLIFIER, PREAMPLIFIERS
AND MIXING UNITS

★ New Detailed Leaflet on Request ★



UNIT 1. Single transistor input selector unit. Inputs for pickups, tuner, tape and microphone. Size $3\frac{1}{2} \times 3$ inches. For use with units 2 or 4, 9 to 15 volt operated.

Price 47/6 pp. 1/6



UNIT 1A. Stereo add on unit for conversion of unit 1 to stereo.

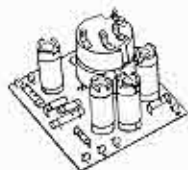
Price 47/6 pp. 1/6

Unit 1

UNIT 1S. Complete stereo version of unit 1. Price 95/- pp. 2/-

UNIT 2. Preamplifier with master volume control. For use with units 1 or 3. Overall size $2\frac{1}{2} \times 2\frac{1}{2}$ inches.

Price 37/6 pp. 1/6



Unit 2

UNIT 2A. Add on Unit for Unit 2 for stereo. Price 42/6 pp. 1/6

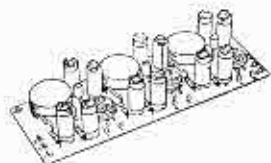
UNIT 2S. Complete stereo version of unit 2. Price 75/- pp. 2/-

UNIT 3. Three channel mixer, 3-transistor, 3-controls. Plug in adaptors for impedance matching, i.e., tape pickup, microphone, tuner etc. for use with units 2 or 4. Overall size $6\frac{1}{2} \times 2\frac{1}{2}$ inches.

Price 79/6 pp. 2/-

UNIT 3A. Add on Unit for Unit 3 for stereo. Price 92/6 pp. 2/-

UNIT 3S. Complete stereo version of unit 3. Price £7.19.0 pp. 3/- (Plug in adaptors 8/6 each. Please state type of inputs required.)



Unit 3

UNIT 4. Preamplifier and tone control unit. Single transistor, separate treble, bass and volume controls.

Overall size $6\frac{1}{2} \times 2\frac{1}{2}$ inches. For use with unit 1 or 3. 9 to 15 volt operated.

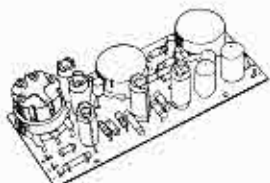
Price 62/6 pp. 2/-

UNIT 4A. Add on Unit for stereo. Price 75/- pp. 2/-

UNIT 4S. Complete stereo version of unit 4. Price £6.5.0 pp. 3/-

UNIT 5. Power amplifier. 6-transistors with 10 watts push-pull output. Operates from 24 volt supply, (Unit 6). Output to 3 ohm speaker.

Price £5.12.6 pp. 2/6



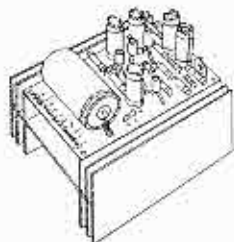
Unit 4

UNIT 6. Provides 24 volt power supply from standard mains input for above units. Price 52/6 pp. 2/6

UNIT 7. 10 watt 15 ohm version of Unit 5. Operates from 40 volt supply (Unit 8). For use with all above preamplifiers. £6.12.6 Price pp. 2/6

UNIT 8. 40 volt mains unit for use with 15 ohm amplifier

Price 55/- pp. 2/6

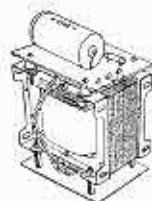


Unit 5 and Unit 7.

FRONT PANEL PLATES

12	For Units 1 Plus 2	6/6
12S	" " 1 " 2 Stereo	8/6
14	" " 1 " 4	10/6
32	" " 3 " 2	10/6
14S	" " 1 " 4 Stereo	12/6
32S	" " 3 " 2 Stereo	12/6
34	" " 3 " 4	14/-
34S	" " 3 " 4 Stereo	15/6

(Also stereo balance control 11/- 9d.)



Unit 6
and Unit 8.

★ ALL TRANSISTOR EQUIPMENT FOR MONO AND STEREO HI-FI ★

WEYMOUTH (Weyrad)

MEDIUM AND LONGWAVE PRINTED CIRCUIT 6-TRANSISTOR RADIO

a.	RA2W MW/LW Ferrite Aerial with Car Aerial Coil	12/6
b.	Coil Set. P50/1ACC : 2-P50/2CC : P50/3CC	20/- set
c.	LFDT4. Driver Transformer	9/6
d.	PCA1 Printed Circuit Board	9/6
e.	208+176pf Tuner	8/-
f.	Set of Transistors and Diode. OC44, 2-OC45, OC81D, 2-OC81, OA81	29/6 Set
	Alternative set of Ediswans	27/6
g.	5K Potentiometer with D.P. Switch	4/6
h.	3 pole 3 way Switch	3/-
i.	2-30pf Trimmers	9d. each
j.	Wire and Sleeving	1/-
k.	VT11 Battery and Plug	6/6

l.	Set of Condensers	16 at 12/6 set
	2-100MFD : 8MFD : 4-0.1MFD : 2-0.01MFD	
	2-2MFD : 56pf : 18pf : 220pf : 150pf : 180pf.	
m.	Set of Resistors	24 at 4/6 set
	(2)56K : (2)33K : (2)10K : 6.8K : (2)4.7K : (2)3.9K	
	(2)2.7K : 1.2K : (4)1K : 220ohm : (2)100ohm	
	15ohm : (2)4.7ohm	
n.	Circuit and Detailed Instructions	1/6
o.	Speaker 30/35ohms. 7 x 4 inch or 5 inch round or 5 x 3 inch or 6 x 4 inch	
	— See Page for Prices and Details —	
●	A well known 6-Transistor+Diode Medium and Long wave printed circuit build yourself radio.	
●	Suitable cabinet	25/-
	Dial set—2 knobs—2 $\frac{1}{2}$ ° dial etc.	4/6

WEYMOUTH (Weyrad)

MEDIUM AND SHORT WAVE PRINTED CIRCUIT 6-TRANSISTOR RADIO

1.	RA2W/4 MW/SW Ferrite Aerial	12/6
2.	Coil Set. P50/1A : P90/1AS : P71 : P72 P50/3V	27/6 set
3.	LFDT4. Driver Transformer	9/6
4.	PCA2 Printed Circuit Board	9/6
5.	Tuning Condenser. 208+176pf Fitted Trimmers	9/6
6.	Trimmers. 2-1.5 to 8pf	9d. each
7.	Set of 6-Transistors and 2-Diodes : (3) AF117 : OC81D : 2-OC81 OA70 : OA79 32/6 set (or with XB113-2-XC171 Audio)	22/6 Set
8.	5K Potentiometer with D.P. Switch	4/6
9.	Wavechange Switch 4 pole 2 way	3/6
10.	VT11 Battery and Plug	6/6
11.	Wire and Sleeving	1/-

12.	Set of Condensers	16 at 12/6 set
	(4)0.1MFD : (2)100MFD : (2)8MFD : (2)2MFD	
	(2)0.01MFD : 0.02MFD : 2300pf (2000pf + 300pf)	
	220pf : (Note C7 3.3pf now linked out)	
13.	Set of Resistors	24 at 5/- set
	39K : 6.8K : (4)1K : 150K : (3)100ohm : 820ohm	
	56K : 8.2K : 680ohm : 2.2K : 22K : (2)4.7K : 33K	
	10K : 220ohm : 15ohm : (2)2.7K	
14.	Speaker 30/35ohms. 7 x 4 inch or 5 inch round or 5 x 3 inch or 6 x 4 inch	
	— See Page for Prices and Details —	
15.	Heavy Chromed Telescopic I7 Section	10/6
16.	Circuit and Detailed Instructions (As available)	1/6
●	Easy to construct Medium and Short wave receiver 190-550 Metres on Medium wave and 25 to 75 Metres on Short wave.	
●	Cabinet 25/-	Dial set 4/6

PRACTICAL WIRELESS—OSMOR

COMPLETE SET OF PARTS £7.19.6.

P1	PW/FRI Dual Wave Ferrite Aerial Assembly (Blue Spot)	8/6
P2	PW/O1 Oscillator Coil	} 20/- set
	PW/2 1st and 2nd IFT's	
	PW/3 3rd IFT	
P3	PW/DT Driver Transformer	8/3
P4	PW/OT Output Transformer	8/-
P5	Matched Set of 6 Newmarket Transistors and Diode	25/- (or Mullards 29/6 or Ediswan 25/-)
P6	208 x 176pf Tuning Condenser	
	$\frac{7}{8}$ inch Spindle tapped 6BA	8/-
P7	(3) Single 60pf Trimmers (1/- each)	3/-
P8	Sub-Miniature Condensers	
	(5) 0.04mfd	9d. each
	(3) 0.01mfd	6d. each
	200pf : 330pf : 56pf : 18pf	6d. each
	10mfd : 50mfd : 2mfd : 30mfd	2/- each
	100mfd 12vw	2/- each

MEDIUM AND LONG WAVE 6-TRANSISTOR POCKET/PORTABLE

P9	5K Control with Switch (VC 1545)	7/6
P10	Resistors	
	(2) 10K : (2)470ohm : (2)3-9K :	
	(2)1K : (1)68K : (1)8-2K : 390ohm :	
	(1) 1-2K : (1)50K : (1)680ohm :	3/3
	(1) 22K : (1) 4-7K : (1)33K :	
	(1) 6-8K : (1) 150ohm : (1) 4.7 ohm	
P11	1 pole 2 way xWavechange Switch	2/-
P12	2 $\frac{1}{2}$ inch 3 ohm Quality Speaker	15/-
P13	Attractive Moulded Two Tone Cabinet with Dial and Fittings as illustrated on page	
	Size : 5 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 2	12/6
P14	PW/PC Printed Circuit	7/6
P15	Nuts and Bolts, Bracket, Wire Battery Clips, etc.	3/-
P16	T6004 or PP4 9 Volt Battery	2/3
P17	Circuit and Booklet	1/6

★ ALL PARTS IN STOCK FOR EVERY PW TRANSISTOR DESIGN—LET US QUOTE ★

FM AND AM/FM TRANSISTOR TUNERS

- A NEW RANGE OF BATTERY OPERATED PREBUILT AND ALIGNED EQUIPMENT FOR THE CONSTRUCTION OF HIGH FIDELITY TRANSISTOR FM OR AM/FM OR STEREO FM TUNERS. SENSITIVITY AND QUALITY EQUAL IN PERFORMANCE TO THE BEST VALVE DESIGNS. IDEAL FOR FEEDING VALVE OR TRANSISTOR HI-FI AMPLIFIERS OR FOR PORTABLE EQUIPMENT USE AMPLIFIERS OF PAGE 51. FULL DETAILS ON HOW TO USE THESE UNITS CAN BE FOUND IN A NEW FM BOOK NUMBER 184.

PRICE 2/6 Post Free

★ **FM RF TUNING HEART MODEL 312-0002.** (FIG. A.)

TWO TRANSISTOR TWO DIODE RF AMPLIFIER AND MIXER STAGE. TUNING RANGE 87 TO 103 MC/S, 10.7MC/S IF OUTPUT. OVERALL POWER GAIN 24dB. OVERALL SIZE $3 \times 1\frac{1}{4} \times 1\frac{1}{2}$ INCHES. FEATURES $5\frac{1}{2}$ TURN WORM DRIVE. FULL AFC AND AGC.

PRICE £5.12.6 (Inclusive of P. Tax) Post Free

★ **HIGH GAIN FM RF TUNING HEART** (FIG. A.)

MODEL 3120029 OR 3120015 OR 3120016.
AS ABOVE BUT FITTED WITH MESA TRANSISTORS.
OVERALL POWER GAIN 29dB.

PRICE £5.19.6 (Inclusive of P. Tax).
POST FREE

★ **3-STAGE FM 10.7MC/S IF STRIP MODEL 322-0009.** (FIG. B.)

THREE TRANSISTOR THREE DIODE HIGH GAIN 10.7MC/S IF STRIP AND DISCRIMINATOR STAGE. FEATURES 300KC/S WIDE BAND AMPLIFIER WITH 40dB GAIN. FULL AGC AND AFC. OVERALL SIZE $2 \times 4\frac{1}{2} \times 1$ INCH SENSITIVITY $90\mu\text{V}$, AFC PULL IN $\pm 350\text{KC/S}$.

PRICE £6.6.0 Post Free

★ **3-STAGE AM/FM IF STRIP. MODEL 322-0008** (FIG. C.)

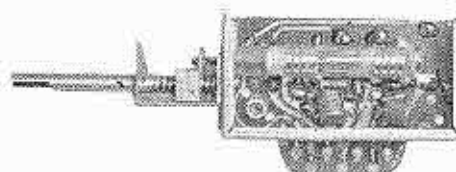
THREE TRANSISTOR FIVE DIODE 10.7MC/S AND DISCRIMINATOR AND 455KC/S IF STAGES. SENSITIVITY $150\mu\text{V}$ ON FM AND $20\mu\text{V}$ ON AM. BAND WIDTH 300KC/S FM AND 9KC/S AM. FULL AFC AND AGC FOR FM AND AGC ON AM. OVERALL GAIN 50dB. AFC PULL IN $\pm 350\text{KC/S}$. SIZE $2\frac{1}{2} \times 5 \times 1$ INCH. CAN BE USED WITH FM RF TUNER AND MW, LW AND SHORT WAVE TUNERS AS UNIT 1 ON PAGE 54.

PRICE £9.17.6 Post Free

★ **4-STAGE FM 10.7 MC/S IF STRIP. MODEL 322-0005** (FIG. D.)

FOUR TRANSISTOR THREE DIODE 10.7MC/S IF AND DISCRIMINATOR STAGES. BANDWIDTH 300KC/S, AFC PULL IN $\pm 500\text{KC/S}$. SENSITIVITY $20\mu\text{V}$. OVERALL SIZE $2 \times 5 \times 1$ INCH : 65dB VOLTAGE GAIN. THIS STRIP IS SUITABLE WHERE EXTRA IF SENSITIVITY IS REQUIRED AND ALSO FOR STEREO MULTIPLEX BROADCASTS. FULL AFC AND AGC.

PRICE £8.7.6 Post Free



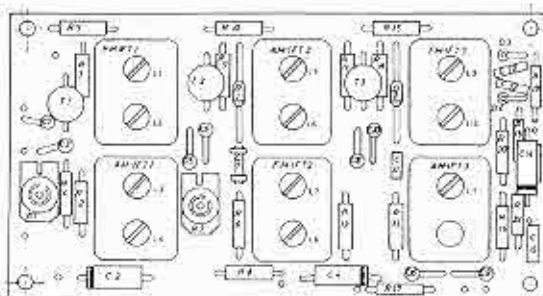
FM RF TUNER

FIG. A



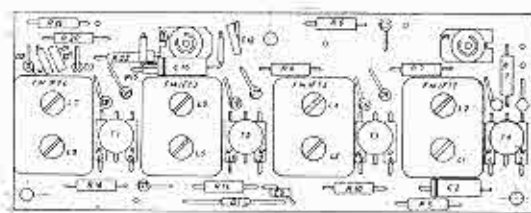
3-STAGE FM 10.7 Mc/s IF STRIP

FIG. B



3-STAGE AM/FM IF STRIP

FIG. C



4-STAGE 10.7 Mc/s IF STRIP

FIG. D

● FOR PURE SOUND
CHOOSE FM TUNERS

**24 PAGE FULLY DETAILED
CIRCUITS BOOK ON ABOVE
UNITS** Number 184

2/6 Post Free

● **QUALITY PRE-BUILT TRANSISTOR VHF EQUIPMENT** ●

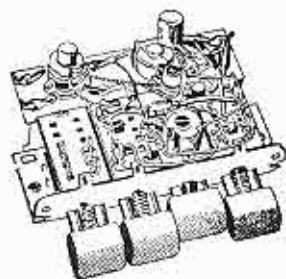
7 TRANSISTOR PORTABLE SUPERHET RADIO

Supplied as three pre-built printed Circuit Units.

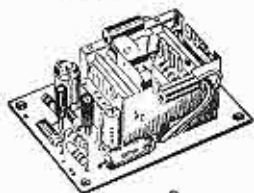
3-WAVE BAND RADIO
IDEAL AS A PORTABLE
OR CAR RADIO

UNIT 3

A 7-Transistor Superhet Radio covering medium, long and short wavebands. Each unit supplied is ready built on miniature printed circuits. The units can be interconnected to make a portable or car radio. Alternatively Unit 1 can be used with existing if strips or Unit 2 with OSC/mixer stages, etc. The amplifier is a high gain good quality unit suitable for all applications.



UNIT 1



UNIT 2

★ Terrific Performance ★

● UNIT 1

Press button OSC/Mixer stage. OC170 transistor. S.W. 5.9 to 13MC/S; MW 510 to 1620 KC/S; LW150-TO 275 KC/S. Printed circuit, size 3.4 x 2.1 x 1.8 in. output 465 KC/S. I.F. Pre-aligned and tested 79/6

● UNIT 2 (322-0001)

465 KC/S I.F. amplifier 2-OC169 transistors. Double tuned I.F.T.'s diode detector, A.V.C., etc. printed circuit size 3.5 x 1.5 x 1 in. pre-aligned and tested. 92/6

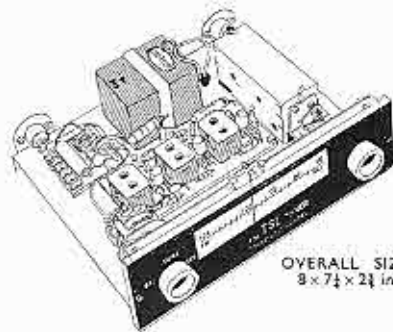
● UNIT 3 (GS12005)

4 transistors. 1 watt audio amplifier. 60-16000 C/S ±3dB. 5mV input for 1 watt. 2-OC71, 2-OC74 transistors. Printed circuit size 3 x 2.2 x 1.2 in. output 2-3 ohms 6-volt operation. 92/6

● SUNDRIES (FOR ABOVE UNITS)

8 x 3/4 in., M.L.S. Ferrite Aerial with coils 12/6
176pF + 176pF Tuner 7/6
2.30pF Trimmers 1/6
7 x 4 in. 3 ohm Speaker 15/-
Bolt on Slow Motion Drive 1/6
PPI 6-volt Battery 2/9
Clips 1/-
Volume control with on/off switch 4/6

TRANSISTOR FM TUNER



OVERALL SIZE
8 x 7 1/4 x 2 1/4 in.

(Shown with cover removed)

- FULL COVERAGE 88 to 108 Mc/s
- A.F.C. AND A.G.C. WITH A.F.C. LOCK
- 10.7 Mc/s I.F.
- PRINTED CIRCUIT CONSTRUCTION
- 2-OC171, 3-OC170 TRANSISTORS
- MATCHED OA79 DIODES ALSO AGC AND DAMPING DIODES.
- ★ SENSITIVITY 1 MICROVOLT
- ★ SIGNAL/NOISE RATIO BETTER THAN 55dB
- AF RESPONSE 25 cps TO 25 kc/s WITHIN 0.5 dB.
- 350 Kc/s BANDWIDTH

TOTAL
COST
16gns.
p.p. 3/-

A self contained fully tunable FM tuner with performance equal to valve type tuners. Features factory assembled printed units with well made cabinet. Controls are tuning on/off with AFC lock. Supplied with all necessary brackets, sockets, etc. Designed to feed Hi-Fi valve or transistor amplifiers. Features five transistors and four diodes. A sensitivity of 0.1 u.V. for 10 dB signal to noise ratio is claimed, ensuring good reception in fringe areas. Unit is fitted with slow motion drive and accurately calibrated tuning dial. Supplied with all necessary brackets, chassis, etc.

★ Perfect quality—high sensitivity and stability. ★

MINIATURE FM TUNER

★ MINIATURE HIGH GAIN FM TUNING UNIT AND IF/RATIO DETECTOR STAGES. READY BUILT AND ALIGNED ONLY REQUIRING INTERCONNECTION. BATTERY OPERATED BETWEEN 6 AND 9 VOLTS.

★ FM RF TUNER

TWO TRANSISTOR CAPACITY TUNING WITH 3:1 REDUCTION GEARING. TUNING RANGE 87-100 MC/S : 10.7 MC/S IF OUTPUT. FULL AFC AND AGC. OVERALL GAIN BETTER THAN 20dB.

OVERALL SIZE 2 x 1 1/2 x 1 1/2 INCHES

PRICE 92/6 pp. 1/6



FM RF TUNER



3-STAGE FM IF STRIP

★ FM IF STRIP

THREE TRANSISTOR THREE DIODE 10.7 MC/S IF AND RATIO DETECTOR STAGES. HIGH GAIN COMPACT UNIT WITH OVERALL GAIN BETTER THAN 44dB.

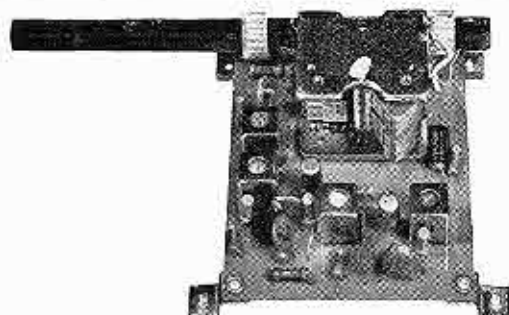
OVERALL SIZE 3 x 1 3/4 x 1 1/2 INCHES

PRICE £5.19.6 pp. 1/6

COMBINING THE TWO UNITS PRODUCES A VERY SMALL BUT VERY SENSITIVE FM TUNER UNIT FOR FEEDING TRANSISTOR OR VALVE HI-FI FOR DOMESTIC OR PORTABLE USE. GOOD RESULTS CAN BE OBTAINED USING 3 TO 4 FT. TELESCOPIC AERIALS.

TRANSISTOR MEDIUM WAVE SUPERHET TUNER

Model AMT-31



Features 3-Transistor and diode superhet medium wave tuner. Built on to printed circuit panel $2\frac{3}{4} \times 3\frac{1}{2}$ inches with 4-fixing brackets. Fitted $5\frac{1}{2}$ inch ferrite aerial—tuner covering 530 Kc/s to 1605 Kc/s. Designed to feed all types of transistor amplifier for portable or domestic use. Operates from $4\frac{1}{2}$ volts at 2 to 4mA.

Supplied complete with full circuit **69/6** p.p. 1/6

MW and SW Model £7. 9. 6 see page 90

MEDIUM WAVE AND 49 METRE AMATEUR BAND CONVERTOR

Model IMCODI (TSL)

Press button wave change printed circuit design. 470 Kc/s IF output. Size $1\frac{1}{2} \times 3\frac{3}{8}$ in.

Price 47/6 pp. 1/6

Full details in Book No. 184 2/6d.

IDEAL UNITS TO FEED TRANSISTOR AMPLIFIERS OF PAGES 2/4/9/14/19.

PLUG-IN AUDIO MIXER



An extremely versatile two channel mixer with individual volume controls. Plugs into single high impedance input. Suitable for Tape Recorders Amplifiers, etc. NO battery required. Two types available: AM3 (as illustrated), phono sockets in and phono plug out. AM5 Standard Jack sockets in and Standard Jack plug out.

Only 19/6 pp. 1/6

★ 4 - CHANNEL TRANSISTOR MIXER ★ "EAGLE" MODEL MM 4

A compact ultra-modern four channel transistorized mixer to add musical highlights and additional sound effects to your recordings. Even though your recorder or amplifier may have only a single input you can now increase its versatility, and provide up to four separately controlled inputs with the new MM-4. Permits mixing of four signals such as microphone, records, tuner, etc. into a single output. Inputs and output take standard quarter inch jack plugs. Completely transistorized and self-contained. Operates from a 9V battery. Handsome case has rubber feet to prevent scratching table-top, etc. Complete with battery and instructions.



Gain:-Approx. 6db; Maximum Input Signal:-1.5 Volts;
Maximum Output Signal: 2.5 Volts;
Output for Minimum Distortion: 2 Volts;
Hum: Zero.

Price 49/6
pp. 1/6

GT 50 TAPE JACK TUNER

Self power tuner covers full medium wave bands. Designed to feed valve or transistor amplifiers and recorders. Fitted standard jack plug.

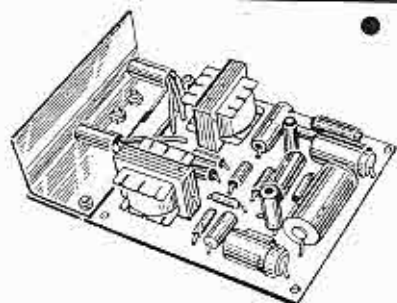


Features high gain aerial circuit with adjustable coil coupled to micrometer tuning knob. Complete with instructions.

Price 29/- pp. 1/-

RADIO TUNERS—TWO AND FOUR CHANNEL MIXERS

TRANSISTOR AMPLIFIERS—also see pages 2/4/9/14



3/4 Watt 4 Transistor Printed circuit Amplifier.

- 1 1/2 to 2k ohm INPUT IMPEDANCE
- ±3dB 70 c/s to 12 kc/s
- 3 OHM SPEAKER OUTPUT.
- 7 1/2 to 9 VOLT OPERATED

Overall size

4 x 2 1/2 x 2 1/2 in.

Built and tested

49/6 p.p. 1/6

or kit of parts

39/6 p.p. 1/6

A printed circuit high gain amplifier of excellent sensitivity (5mV input for 750 mW output) uses Ediswan transistors XB112, XB113 and 2-XC171. Ideal for record players, AM or FM radio tuners, intercomm or any application requiring a quality and reliable amplifier. 1 1/2 watts peak output.

- ★ Suitable battery ... 3/6
- Battery connectors ... 1/-
- ★ 5k Volume control with switch ... 4/6
- or 100k volume control with switch (crystal P.U.) ... 4/6
- ★ 50k Tone control ... 3/6
- 0.04mfd Tone ... 9d.
- ★ Gold insert knobs ... 9d. ea.
- ★ Mains unit (optional) 49/6 p.p. 2/-
- ★ Suitable speakers :
5 inch 12/6 2 1/2 inch 16/6
7 x 4 inch 15/-

● DESCRIPTIVE LEAFLET WITH USES ON REQUEST ●

MINIATURE 4 TRANSISTOR PUSH-PULL AUDIO AMPLIFIER



Model EG2004 size 3 in. x 1 1/2 in. x 7/8 in. A ready built miniature 250mW push-pull amplifier incorporating input and output transformers, 4 transistors, 9 volt battery snap cord (for power) speaker and volume connection leads. Ideal for use with record-players, intercoms, hearing aids, tape recorders, etc. Complete with FULL INSTRUCTIONS AND CIRCUIT DIAGRAM. 8/10 ohm impedance output.

PRICE 42/6 p.p.1/6

Suitable 2 1/2 in. speaker 16/6

5k miniature control 5/6 Battery 2/6

OTHER TRANSISTOR AMPLIFIERS

MULLARD 1 WATT AMPLIFIER

- Transformers ... 21/- pair
- 4-Transistors ... 22/6 set
- As specified by Mullards

MULLARD 500MW AMPLIFIER

- Transformers ... 19/- pair
- 4-Transistors ... 22/6 set
- As specified by Mullards

G.E.C. 2 WATT AMPLIFIER *

- Transformers ... 25/- pair
- 4-Transistors ... 39/6 set
- As specified by G.E.C.

G.E.C. 3 WATT AMPLIFIER *

- Transformer ... 22/6
- 4-Transistors ... 49/6
- As specified by G.E.C.

MULLARD 5 WATT AMPLIFIER*

- Transformer ... 30/-
- 6-Transistors ... 57/6
- i.e. 4-XA152 (= OC42) and 2-OC22.

WIRELESS WORLD 10 WATT (Circuits free)

- 3 ohm version with pre-amplifier
- 8-Transistors and diode ... 69/6
- (40 Volt version ... 79/6)

TRANSFORMERS AND TRANSISTORS STOCKED FOR

Mullard 250mw, 500mw, 1 watt, 5 watt amplifiers.

G.E.C. 250mw, 500mw, 1 watt, 2 watt, 3 watt amplifiers. Repanco, PW and R/C amplifiers.

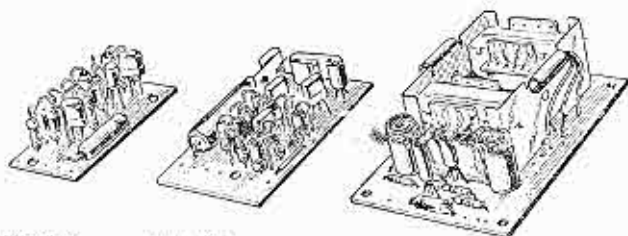
Wireless World 10 watt

And others, all parts stocked.

● Send list of required items—we will quote by return of post.

PUBLICATIONS:

- No. 173 Transistor audio Amplifiers 3/6
- *No. 176 Transistor Amplifier manual 6/- (Showing circuits marked*)



Model A

Model B

Model C and Model D

MODEL A

125mW 3-transistor. Output for 25 to 60 ohm speaker or phone. 9 volt operated. Input 1.5 K ohm. Size 2 1/2 x 1 x 1 inch.

Price 39/6 pp. 1/-
Complete with full details.

★ MODEL B.

500mW 5-Transistor amplifier. Output to 15 ohm. Speaker response 50 C/s to 20 Kc/s. 9 volt operated. Size 2 1/2 x 1 1/2 x 2 1/2 inch.

Price 59/6

★ MODEL F

2 Watt version of Model C £5.2.6 pp. 2/-

★ MODEL G

2 1/2 " " " " " £5.7.6 pp. 2/-

★ MODEL C.

High gain 4-transistor push-pull amplifier giving 1 watt output. Ideal for record players, intercomms, Radios etc. Response ±3db 60 c/s to 16 kc/s: output to 3 ohm speaker, 6 Volt operated. 92/6 pp. 2/-
Book showing various uses 2/6

★ MODEL D.

Similar to above but 12 volt operated giving 1 1/2 watts output to 3 ohm speaker, negative earth—ideal for valve or transistor tuners. 97/6 pp. 2/-

★ MODEL E

4-Transistor record player amplifier—9 volt. 3 Ohms output. Supplied with volume control and 5 x 3 inch speaker.

BARGAIN OFFER 35/- pp. 2/-

CATHODEON MINIATURE CRYSTAL OVEN

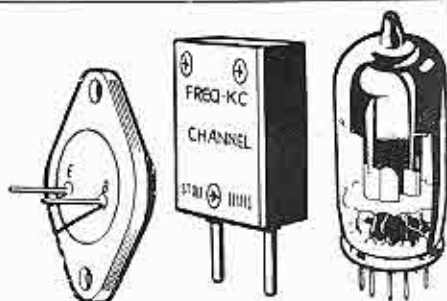
FOR HC6U OR 2M TYPE
CRYSTALS. 6 OR 12 Volt
A.C./D.C. 80°C.
COMPLETE WITH BASE
AS ILLUSTRATED.

22/6 p.p. 1/- BRAND NEW
0.78 Amp 12 V. 0.39A 6 volt.



VALVES TUBES TUBES - TRANSISTORS - QUARTZ CRYSTALS AND RECTIFIERS

ALL TYPES FULLY
GUARANTEED



HC6/U SUB-MINIATURE THIRD OVERTONE CRYSTALS

- 1/2 inch Pin Spacing
Overall Size 3/8 x 1/8 x 1/8

● **Note.** ALL TYPES CAN BE USED ON THEIR FUNDAMENTAL FREQUENCIES.
i.e. Divide Crystal frequency by 3.

Example: 33.0000 Mc/s can be used at 33 Mc/s or 11 Mc/s or multiples of 11 Mc/s

18.0060 Mc/s	28.8889 Mc/s	36.6667 Mc/s	39.7037 Mc/s	40.1481 Mc/s	42.3070 Mc/s
19.0060 "	31.0000 "	37.0000 "	39.7407 "	40.1852 "	42.5000 "
20.0060 "	31.1111 "	37.7778 "	39.7778 "	40.2222 "	45.0000 "
21.0060 "	31.6667 "	38.0000 "	39.8148 "	40.2593 "	45.9 "
22.0060 "	32.2222 "	38.3337 "	39.8519 "	40.2963 "	46.1 "
23.0060 "	33.3333 "	38.8889 "	39.8889 "	40.3333 "	46.3 "
24.0060 "	34.0000 "	39.0000 "	39.9259 "	40.9259 "	46.5 "
24.4444 "	34.4000 "	39.5555 "	39.9630 "	40.9633 "	
25.0060 "	34.4444 "	39.5185 "	40.0000 "	41.0000 "	
26.0060 "	35.0000 "	39.5926 "	40.0370 "	41.1111 "	
26.6667 "	35.5556 "	39.6296 "	40.0740 "	41.3700 "	
27.7778 "	36.0000 "	39.6667 "	40.1111 "	41.6667 "	
29.657 30/-	£4 per set				
30.390 30/-	for W/W				
31.123 30/-	FM Tuner				

● Crystal Accuracy 0.005% ●

● HC6U Crystals are Base Ref No. 2 — All metal hermetically sealed ●

REMEMBER ALL
FREQUENCIES
CAN BE USED
ON THEIR
FUNDAMENTAL
i.e. DIVIDE BY 3.

7/6 each
(Sockets 1/-)

SUBMINIATURE 27MC/S RADIO CONTROL BAND CRYSTALS

TYPE HC6/U HERMETICALLY SEALED
SHOCK RESISTANT 0.005% ACCURACY
SECOND HARMONIC TYPES
SIZE 1/8 x 3/8 x 3/8

Crystal Freq. Marked	Radio Control Frequency Fundamental	Radio Control Frequency
40.3704 Mc/s.	13.4568 Mc/s.	26.9136 Mc/s.
40.40174 "	13.4691 "	26.9382 "
40.4444 "	13.4814 "	26.9628 "
40.4815 "	13.4938 "	26.9876 "
40.5185 "	13.5062 "	27.0124 "
40.5555 "	13.5185 "	27.0370 "
40.5926 "	13.5308 "	27.0616 "
40.6296 "	13.5432 "	27.0864 "
40.6667 "	13.5556 "	27.1112 "
40.7037 "	13.5679 "	27.1358 "
40.7407 "	13.5802 "	27.1604 "
40.7778 "	13.5926 "	27.1842 "
40.8148 "	13.6049 "	27.2098 "
40.8519 "	13.6173 "	27.2346 "
40.8889 "	13.6296 "	27.2592 "

FOR VALVE OR TRANSISTOR
TRANSMITTERS AND RECEIVERS

15/- each with socket

RADIO CONTROL CRYSTAL



Light weight American
overtone crystals. Frequency
27.255 Mc/s. For use with
valve or transistor receivers
and transmitters. Wire leads.
Size 3/8 x 1/8 x 3/8 inches.
15/- each.

RADIO CONTROL

- ★ HC6U 27-0060 Mc/s overtone crystals, with sockets 25/- For valve or transistor equipment.
- ★ DC34 9-065 Mc/s third overtone for valve circuits, with socket 12/6

HC6/U SUB-MINIATURE 1/2 INCH SPACING

	6950.000 kc/s
2094 kc/s	7050 "
2194 "	7150 "
2294 "	7250 "
2394 "	7350 "
2494 "	7450 "
2594 "	7550 "
2794 "	7650 "
2894 "	7750 "
	7850 "

ALL FUNDAMENTALS
7/6 each (Sockets 1/- each)

★ FT249 3-PIN FUNDAMENTALS

1552.5 Kc/s	1962.5 Kc/s	3170 Kc/s
1607.5 "	1990 "	3250 "
1665.5 "	2070.3 "	3270 "
1690.0 "	2072.5 "	3288.5 "
1700 "	2105 "	3290 "
1730 "	2105 "	3333 "
1795.5 "	2287.5 "	4272 "
1880 "	2410 "	4277 "
1907.5 "	2860 "	4442.5 "
1922.5 "	3000 "	
1927.5 "	3105 "	7/6 each

★ FT171 2-PIN 3/4 INCH SPACING BANANA PIN

2030 Kc/s	2360 Kc/s
2045 "	2575 "
2065 "	2590 "
2080 "	2720 "
2105 "	2745 "
2125 "	3180 "
2145 "	3202.5 "
2220 "	3315 "
2260 "	3322.5 "
2305 "	3550 "

7/6
each

PTO FOR MORE TYPES

TYPE FT241A ($\frac{1}{2}$ in. spacing) 54th HARMONIC IN Mc/s (Base diagram No. 5)									
20.0	20.8	21.6	22.4	23.2	26.1	26.9	27.8		
20.1	20.9	21.7	22.5	23.3	26.2	27.0	27.9		
20.2	21.0	21.8	22.6	23.4	26.3	27.2			
20.3	21.1	21.9	22.7	23.5	26.4	27.3			
20.4	21.2	22.0	22.8	23.6	26.5	27.4	5/-		
20.5	21.3	22.1	22.9	—	26.6	27.5	each		
20.6	21.4	22.2	23.0	24.4	26.7	27.6			
20.7	21.5	22.3	23.1	26.0	26.8	27.7			

TYPE FT241A ($\frac{1}{2}$ in. spacing) 72nd HARMONIC 5/- each (Base diagram No. 5)				
32.6 Mc/s	32.7 Mc/s	36.3 Mc/s	36.5 Mc/s	36.6 Mc/s

PIEZO 2-PIN $\frac{1}{2}$ in. SPACING IN Kc/s at 7/6 each (Base diagram No. 6)			
3150	3800	4145	4750
3410	3820	4165	—
—	3830	4400	9900
—	3850	4570	9967.5

MOTOROLA 2-PIN $\frac{1}{2}$ in. IN Kc/s at 7/6 each			
—	1062.5	1150	
—	1087.5	1175	
1012.5	1112.5	1140.6	
1037.5	1140.6	1200.3	

SPECIAL FUNDAMENTALS			
80.86Kc/s	2-PIN	.. .. .	12/6
80.8 Kc/s	OCTAL GLASS	.. .. .	25/-
100 Kc/s	RCA 3-PIN	.. .. .	15/-
102.4 Kc/s	(S.T.C. TYPE 4020)	.. .. .	25/-
150 Kc/s	2-PIN ROUND	.. .. .	10/-
160 Kc/s	2-PIN 10X (Base type 10)	.. .. .	10/-
163.9 Kc/s	P.O. 4B	.. .. .	7/6
200 Kc/s	2-PIN FT241A (Base type 5)	.. .. .	10/-
200 Kc/s	3-PIN	.. .. .	10/-
250 Kc/s	10X	.. .. .	12/6
285 Kc/s	FT241A (Base type 5)	.. .. .	7/6
327.86 Kc/s	B7G GLASS (Base type 8)	.. .. .	7/6
455 Kc/s	WIRE LEADS (as AR 83)	.. .. .	12/6
465 Kc/s	HRO	.. .. .	15/-
500 Kc/s	10XJ (Base type 3)	.. .. .	15/-
500 Kc/s	BROOKS SPECIAL	.. .. .	15/-
735Kc/s	(as AR88LF)	.. .. .	10/-
890 Kc/s		.. .. .	10/-
1Mc/s	100Kc/s Twin Crystal	.. .. .	22/6
2000 Kc/s	3-PIN FT249	.. .. .	10/-
2500 Kc/s	OCTAL	.. .. .	10/-
5000 Kc/s	2-PIN PIEZO	.. .. .	10/-
10 Mc/s	7A	.. .. .	12/6
10 Mc/s	10XJ (Base type 3)	.. .. .	15/-
10 Mc/s	B7G GLASS (Base type 8)	.. .. .	15/-
30 Mc/s	HC6U	.. .. .	12/6

WE STOCK THE LARGEST RANGE IN THE COUNTRY OF QUARTZ CRYSTALS AT GIVE AWAY PRICES — FULLY GUARANTEED.

MINIATURE GLASS B7G BASE in Kc/s at 7/6 (Base diagram No. 8)				
10,025	10,158.3	10,258.3	10,391.6	28,333.33
10,058.3	10,191.6	10,325	10,425	
10,125	10,225	10,358.3	9,200	

N.T. CUT, GLASS WIRE ENDS at 12/6 each (Base diagram No. 7)		
10XAC/7 28 Kc/s	10XAC/8 28.5 Kc/s	10XAC/10 31.5 Kc/s

MARCONI: G.E.C.: S.T.C. etc. 2-PIN 10X; FUNDAMENTALS in Kc/s ($\frac{1}{2}$ inch pin spacing) (Base diagram No. 10)				
1183	1588.68	2118.25	8007.69	10,823
1205	—	2295	10,166	10,856
1324.5	1668.2	2315	10,189	11,437
1352.5	1674.9	3270	10,233	11,526
1384	1727	3280	10,245	11,587
1405	1740	3317.5	10,300	11,788
1408.5	1761	3390	10,433	11,814
—	1764.5	3440	10,445	11,851
1550.62	1775	—	10,478	12,685
1554.4	1780	—	10,532	
1561.1	1712.5	—	10,534	
1565.62	1962.5	3850	10,545	
1566.75	2055	3920	10,557	7/6
1570	2065.75	4210	10,567	each
—	2067.5	4740	10,755	
1575	2087.5	4860	10,767	
1579	2089	5350	10,800	

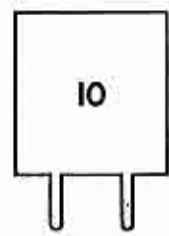
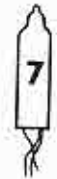
2-PIN CERAMIC BANANA PLUG IN Kc/s at 7/6 each			
15,010	15,110	16,335	16,435
16,700	16,800	18,025	18,125
18,225			

OCTAL "PLUG-IN" CRYSTALS			
6440 Kc/s	6200 Kc/s	3500 Kc/s	
4600 "	4496 "	3105 "	10/-
5960 "	6310 "	2500 "	each
		8000 "	
7/6 each			

CRYSTAL SOCKETS	
For types 243 and types 241A, etc. ($\frac{1}{2}$ in. pin spacing)	1/- each
For types 10X, etc. ($\frac{3}{8}$ in. pin spacing)	1/- each
For types 10XJ ($\frac{1}{2}$ in. pin spacing)	1/- each
For types HC6/U or 2M	1/- each

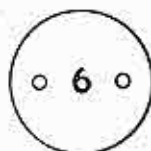
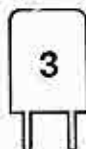
3-PIN HOLDERS	
To take 10X or 10XJ	1/3 each

(Drawings about half full size)



★ POSTAGE AND PACKING 6d. PER CRYSTAL OR 9d. FOR TWO ★

(Drawings about half full size)



TYPE FT243 (½ inch Pin Spacing) FUNDAMENTALS IN Kc/s

(Accuracy 0.05%)

(Base diagram No. 4)

5675	5973	6250*	6540	6825	7106	7400	7675	7973	8250
5700	5975	6273	6550	6840	7125	7406	7700	7975	8273
5706	6010*	6275	6573	6850	7140	7425	7706	8000	8275
5725	6006	6300	6575	6873	7150	7440	7725	8007*	8300
5740	6025	6306	6600	6875	7173	7450	7740	—	8306
5773	6040	6235	6606	6900	7175	7473	7750	—	8325
5750	6050	6340	6625	6906	7200	7475	7773	—	8340
5775	6073	6350	6640	6925	7206	7500	7775	8073	8350
5800	6075	6373	6650	6940	7225	7506	—	8075	8375
5806	6100	6375	6673	6950	7240	7525	—	8100	8400
5825	6106	6400	6675	6973	7250	7540	7825	8106	8425
5840	6125	6406	6700	6975	7273	7550	7840	8125	8450
5850	6140	6425	6706	—	7275	7573	7850	8140	8475
5873	6150	6440	6725	—	7300	7575	7873	8150	8500
5875	6173	6450	6740	—	7306	7600	7875	8173	8525
5900	6175	6473	6750	7040	7325	7606	7900	8175	8550
5906	6200	6475	6773	7050	7340	7625	7906	8200	8575
5925	6206	6500	6775	7073	7350	7640	7925	8206	8600
5940	6225	6506	6800	7075	7373	7650	7940	8225	8625
5950	6240	6525	6806	7100	7375	7673	7950	8240	8650

(* In 10X or 10XJ at 5/-).

[N.B. Where the last figure of the above listed crystals is 3 or 6, this denotes -333 or -666 respectively (i.e., 5773 = 5773-333)]

ALL AT 4/- each except 7000-7300 and 8000-8300, which are 7/6

COMPLETE SETS of 80 XTALS 5706-666—8340 kc/s in steps of 33-333 kc/s ... £5 0 0

COMPLETE SETS of 120 XTALS 5675—8650 kc/s in steps of 25 kc/s ... £6 10 0

SUB-MIN. TWIN-CRYSTALS B.T. CUT GLASS ENVELOPES WIRE-ENDED

(Base diagram No. 7)

10XAC/1	10XAC/2	10XAC/3
19887.5 Kc/s	19987.5 Kc/s	20087.5 Kc/s
19937.5 Kc/s	20037.5 Kc/s	20137.5 Kc/s
10XAC/4	10XAC/5	10XAC/6
20187.5 Kc/s	20287.5 Kc/s	20387.5 Kc/s
20237.5 Kc/s	20337.5 Kc/s	20437.5 Kc/s

10/- PER TWIN CRYSTAL

Also 28411.11 to 28544.44 Twin XTAL B7G 10/-

★ 5350 Kc/s FOR USE IN 10.7 Mc/s IF FILTER CIRCUITS 7/6

★ RCA 455 Kc/s AS PER AR88 12/6
★ 735 Kc/s AS PER AR88LF 10/-
★ 456 Kc/s HRO CRYSTAL 15/-

10XJ TYPES 5/- EACH

(Base diagram No. 3 or 9)

4200	—	6210	6800
4300	5700	6250	6815
5030	5860	6330	6990
5120	5910	6400	7060
5160	5930	6470	7090
5200	5940	6520	7270
5230	6010	6525	7317
5350	6021	6730	7655
5357	6170	6780	9166.7
5440	6200	6790	12966

● R.C.A. 3-PIN 100Kc/s ... 15/-

● TWIN CRYSTAL 1Mc/s PLUS 100Kc/s ... 22/6

★ OVER 600 FREQUENCIES IN STOCK ★

VALVES AND TUBES

TRADE & EXPORT ENQUIRIES INVITED

★ DOMESTIC AMATEUR AND INDUSTRIAL APPLICATIONS

● Postage and Packing 6d. per Valve. Orders above £2 post free ●

OA2	6/-	6AB8	10/-	6P25	8/-	12J7	6/-	721B	25/-
OA3	10/-	6AC7	3/-	6Q7, (DH63)	5/-	12K7, (W76)	6/-	724B	10/-
OB2	6/-	6AF6	10/-	6R7	4/-	12K8, (X76M)	8/-	726B	15/-
OB3	6/-	6AG3	2.6	6SA7	7/-	12KBM	8/-	723A/B	55/-
OC3, (VR105/30)	6/-	6AG7	6/-	6SC7GT	5/-	12Q7, (DH76)	6/-	725A	25/-
OD3, (VR150/30)	5/-	6AJ5	6/-	6SF5GT	10/-	12Q7M	6/-	803	22.6
OD3W	7.6	6AK5, (EF95)	4/-	6SG7	5/-	12SA7	7/-	804	30/-
OZ4	5/-	6AK5W	8/-	6SH7	3/-	12SC7	4/-	805	24/-
1A5	5/-	6AK6	7/-	6SI7	5/-	12SG7	3/-	811	15/-
1A7, (DK32, X14)	8.6	6AL5, (EB91, CV140)	3/-	6SK7	4/-	12SH7	3/-	813	55/-
1B32	22.6	6AMS, (EL91, CV136)	3/-	6SL7	5/-	12S17	4/-	807	5/-
1B36	15/-	6AM6, (EF91, CV138)	4/-	6SN7	5/-	12SK7	4/-	807USA	7.6
1B40	10/-	6AQ5	7.6	6SQ7	5/-	12SL7	7.6	808	17.6
1C1, (1R5, DK91)	5/-	6AS6WA	9/-	6SR7	3/-	12SN7	7.6	811	15/-
1C5, (DL35, N14)	6/-	6AT6, (DH77, EBC90)	5/-	6SS7	3/-	12SQ7	8.6	815	40/-
1C6	7.6	6AU6	6.6	6ST7	5/-	12SR7	5/-	829B	30/-
1D5, (HW30)	7.6	6AV6	6/-	6U4	12.6	14A4	8.6	832	20/-
1D8	6/-	6BBG	2.6	6U5	7.6	14A7	6/-	812A	25/-
1F2, (DF92, 1L4)	2.6	6BA6, (EF93)	6/-	6Y6G	6/-	14F7	8.6	837	10/-
1F3, (DF91, 1T4)	2.6	6BD6	7.6	6V6G, (KT63)	5/-	14J7	10/-	866A	12.6
1FD9, (DAF91, 1S5)	4/-	6BE6, (EK90)	6/-	6V6GT	8.6	14Q7	8.6	872A	15/-
1H4	10/-	6BF7	6.6	6X2, (R12, EY51)	8/-	14S7	14/-	884	10/-
1H5, (DAC32)	8/-	6BH6	8.6	6X4, (EZ90, U78)	5/-	15A2, (HEP4)	10/-	885	7.6
1L4, (1F2, DF92)	2.6	6BI6	8/-	6X5GT	6.6	15A6, (PL33)	10.6	931A, (27M1)	60/-
1LB4	10/-	6BR7	11.6	7A6	7.6	19AQ5	11/-	954	4/-
1LD5	5/-	6BW6	10/-	7A7	9/-	19E2	7.6	955	4/-
1LN5	5/-	6BW7, (EF80, 6BX6)	5/-	7A2(7), (AC/PTA)	10/-	19G3	15/-	956	5/-
1N5, (DF33, Z14)	7/-	6BX6, (6BW7, EF80)	5/-	7B5	8.6	20A2	12.6	958A	4/-
1Q5	7/-	6CH6	8.6	7B7	8/-	21A6, (PL81)	7/-	1619	7/-
1R4	6/-	6C4, (EC90, L77)	3/-	7C5	9/-	25A6, (PL81)	10/-	1299A, (3D6)	4.6
1R5, (DK91, X17)	5/-	6C5, (6J5, L63)	4/-	7C5	8.6	25L6GT	7.6	1432	10/-
1S4, (DL91)	5/-	6C6	4/-	7C7	8.6	25Y5	8/-	2050	10/-
1S5, (DAF91 ZD17)	4/-	6C10, (ECH42)	8/-	7D5, (YN30)	10/-	25Z4	8.6	2051	7.6
1T4, (DF91, W17)	3/-	6CA	35/-	7D9, (PT35DA)	10/-	25Z5	9/-	5438	15/-
1W4 500	7/-	6C21	75/-	7D9, (EL91, CV136)	4/-	25Z6GT	10/-	5651	8/-
1X2B (R19)	6/-	6CW4	14/-	7E5	8/-	27M1	60/-	5670WA	8/-
2C26	4/-	6O1, (EA50)	2/-	7E9	7.6	28D7	4/-	5687WA	10/-
2D21	4/-	6D2, (EB91, CV140)	3/-	7E7	8/-	30C1, (PCF80)	7/-	5692	30/-
2C43	50/-	6D6	6/-	7G7	8.6	30FL1	13.6	5703	8.6
2C52	15/-	6F5	7.6	7H7	8/-	30L15	13.6	5723	17.6
2K25	65/-	6F6	7.6	7I7	8/-	30PL1	13.6	5726	7/-
2J54	35/-	6F7	7.6	7Q7	8/-	30PL13	13.6	5751	8/-
2X2	4/-	6F8	7.6	7Y4	7/-	35L6GT	7/-	5751WA	12.6
3A4, (DL93)	7.6	6F12, (EF91, CV138)	4/-	7Z4	7/-	35T6	15/-	5763	10/-
3A5, (DCC90)	7/-	6F13, (EF42)	6/-	8D2	4/-	35W4	6/-	5787WA	10/-
3B24W	10/-	6F17	8.6	8D3, (EF91, CV138)	3/-	35Z4GT	6/-	5800	45/-
3B24WA	15/-	6F32	4/-	9D2, (VP13C)	4/-	35Z5GT	7.6	5814WA	8/-
3B28	15/-	6F33	5/-	9D6, (EF92, W77)	3/-	41MP	10/-	5829	6/-
3C24	20/-	6G5	8.6	10LD3	12.7	42	7.6	5839	20/-
3D6, (1299A)	4/-	6G6	5/-	11E2	12.6	425PT	6/-	5840	10/-
3O4, (DL95, N18)	6/-	6H6	2/-	11E3	15/-	43	10/-	5852	20/-
3Q5, (DL33, N15)	7.6	6I5, (L63, 6C5)	5/-	12A6	4/-	46	7.6	5879	10/-
3S4, (DL92, N17)	5/-	6J5G	5/-	12A8GT	6/-	50B5	8/-	5931	15/-
3V4, (DL94, N19)	6/-	6J5M	5/-	12AC7	5/-	50C5	7/-	5932	15/-
4D1	4/-	6J6, (ECC91)	3/-	12AH7	5/-	50L6GT	6.6	5960	8/-
5R4G	8.6	6J7G	5/-	12AH9	12.6	52CG	10/-	5965	10/-
5T4	7.6	6J7M	7.6	12AT6	6/-	71A	10/-	6060	6/-
5U4, (U52)	5/-	6K5GT	7.6	12AT7, (ECCB1)	4/-	75	5/-	6080WA	25/-
5V4	8/-	6K6GT	7/-	12AT7WA	6/-	76	4/-	6094	30/-
5X4G	8/-	6K7G	3/-	12AU6	7.6	80	6/-	6116K	65/-
5Y3, (U50)	5/-	6K7GT	5/-	12AU7, (ECC82)	5/-	83	8/-	6135	9/-
5Y3GT	5/-	6K7M	6/-	12AV7	8/-	85A2	6/-	6350	9/-
5Y4G	10/-	6K8C	4/-	12AX7, (ECC83)	5/-	21OLF	3.6	7475	4/-
5Z3	5/-	6K8M	6/-	12BA6	7.6	215SG	4/-	9001	4/-
5Z4G, (GZ30)	6/-	6K25	19.11	12BE6	6.6	354V	5/-	9002	6/-
5Z4 Metal	9/-	6L6G	6/-	12B7	6/-	446A	12.6	9003	6/-
6A6	6/-	6L6M	9/-	12C8	4/-	446B	12.6	9004	6/-
6A7	9/-	6L7M	5/-	12BY7A	8/-	704A	10/-	9005	12.6
6A8	6/-	6LD20	10/-	12BH7	8/-	705A	10/-	9006	5/-
6AB7	4/-	6N7	6/-	12J5	3/-	714AY	75/-		

TRANSISTORS, CRYSTALS, VALVES, COMPONENTS AND EQUIPMENT
FOR THE AMATEUR AND PROFESSIONAL — ALL TYPES FOR EVERY PURPOSE
THE ELECTRONIC COMPONENT SPECIALISTS FOR MORE THAN 20 YEARS

★ SEE PAGE 24 FOR MORE TYPES

● RETURN OF POST MAIL ORDER SERVICE ●

AC/HLDD, (DDTR)	7/6	DL94, (N19, 3V4)	5/6	EY51, (R12, 6X2)	7/	PCL86	11/6	UF42	8/6
AC/ME	5/	DL95, (N18, 3Q4)	6/6	EY84	7/6	PEN4VA(7)	11/6	UF80	6/6
AC/PEN(7), (AC/PTA)	7/6	DL96	6/	EY86	6/6	PEN25	5/	UF85	7/
AC/SG, (AC/S)	7/6	DM70	5/	EY87	7/6	PEN36C, (PT35DA)	10/	UF89	6/6
AC/SGVM, (AC/VS)	7/6	OY86	8/	EY88	9/6	PEN45	7/	UL11, (N142)	7/6
AC/VP1(5), (VHFP)	7/6	EA50, (6D1)	2/	EY91	3/	PEN45DD	10/	UL84	6/6
AC/VP1(7)	7/6	EA76	5/	EZ40	6/6	PEN46	6/	UR1C, (HW30)	7/6
ACVP2 (VHPB)	7/6	EABC80	6/6	EZ41	6/6	PEN3520, (PT35DA)	10/	UL5, (VU39, MU14)	6/
ACS/PENDD	7/6	SAC91, (CV137)	3/	EZ80	5/6	PEN4A	10/	UY21	9/6
AC6PEN	6/	EAF42	8/6	EZ81	5/6	PENDD/4020	12/6	UY41	6/
ACTP	12/6	EB34	2/6	EZ90, (6X4, U78)	4/	PL33	19/3	UY85	5/6
AL60	7/6	EB41	8/6	FC4	10/	PL36	11/	UY1N	18/
AR6, (LP2)	5/	EB91, (CV140 6AL5)	3/	FC13	10/	PL38	19/6	VMS4, (AC/VS)	7/6
AR8, (HL23DD)	5/	FBC33	6/6	FC13C	10/	PL81, (N339, 21A6)	7/	VMS4B, (AC/VS)	7/6
ARP12, (VP23)	5/	EBC41	6/6	FW4/800	8/	PL82, (N329)	6/6	VNF4G	7/6
ARP18	5/	EBC81	6/6	RG1250	10/	PL83, (N309, 15A6)	6/6	VP2	8/
ATP4	4/	EBC90, (6AT6, DH77)	4/	GS12C	25/	PL84	10/	VP4(5)	7/6
ATP7	7/6	EBFB0, (ZD152)	8/6	GZ30, (SZ4)	6/	PM24A	10/	VP4(7), (VHFP)	7/6
ATR338	30/	EBF89	7/6	GZ32	10/	PM24D	10/	VP4A(5), (VHFP)	7/6
AZ1	9/	EBL1	11/	GZ34	12/6	PP15, (PT35DA)	10/	VP4B (VHPB)	7/6
AZ31	8/	EC70	5/	H30, (HW30)	7/6	PX25	10/	VP13	4/
AZ41	6/6	EC90, (6C4)	3/	HD14, (1H5, DAC32)	9/	PY32	10/	VP13C, (9D2)	4/
B36, (12SN7)	7/6	EC91	3/	HL2	2/6	PY33	10/	VP23, (ARP12)	5/
B309, (ECCB1, 12AT7)	5/	ECC40	3/	HL23, DD, (AR8)	5/	PY80, (U309)	6/	VP41	6/6
B329, (12AU7, ECC82)	5/	ECC41	10/	HW30	7/6	PY81, (U329)	6/	VP133	10/
CCH35	10/	ECC81, (12AT7)	4/	KT2	5/	PY82, (U319)	6/	VR21	3/
CL33	6/	ECC82, (12AU7)	5/	KT33C	6/	PY83	7/	VR33	5/6
CMG25	12/6	ECC83, (12AX7)	5/	KT36	10/	PY88	8/6	VR54	2/6
CV6	4/	ECC84	7/6	KT61, (EL33)	7/6	PY800	7/6	VR55	6/
CV66	4/	ECC85	6/6	KT63, (6V6G)	6/	PY801	7/6	VR56	5/
CV85	12/6	ECC88	10/	KT66, (EL37)	12/6	PZ30	19/11	VR65, (SP61)	4/
CV100	12/6	ECC91, (616)	3/	KTW63	5/	QP25	6/6	VR65A, (SP41)	4/
CV131, (EF92)	3/	ECC90	10/6	KTW73	7/6	QP230	5/	VR91	4/
CV133	3/	ECCF2	9/6	L63, (615, 6C5)	4/	R12, (6X2, EY51)	7/	VR92	2/
CV135, (EY91)	3/	ECH25	10/	L77, (EC90, 6C4)	3/	R10	10/	VR116	5/
CV136, (6AM5, EL91)	3/	ECH42, (6C10)	8/	LN309, (PCLB3)	10/	R19, (1X2B)	7/	VR105/30	6/
CV138, (6AM6, EP91)	3/	ECH81	6/	LP2 or AR6	5/	RL18	12/6	VR135	6/
CV140, (EB91 6AL5)	3/	ECH83	7/6	MH4	5/	S4V8, (AC/S)	10/	VR136	6/
CV158	25/	ECH84	8/6	MHD4, (DDTR)	10/	SP2	8/6	VR150/30	5/
CV173	6/	ECL80	7/6	MKT4 (7), (AC/PTA)	10/	SP4(5), (VHP)	10/	V570	4/
CV1052	5/	ECL82	8/6	ML4	7/6	SP4(7), (VHFP)	10/	V510	9/
CK510AX	5/	ECL83	14/	ML6	5/	SP13C	4/	VS701	3/
CK5785	10/	ECL84	11/6	MP/PEN(7) (AC/PTA)	5/	SP41, (VR65A)	4/	VU39, (MU14, 1W4, 500)	5/
CY1C, (HW30)	7/6	ECL86	10/	M54B, (AC/S)	10/	SP61, (VR65)	4/	VU111	4/
CY31	10/	EF22	7/6	MSP4(5), (HFP)	10/	SP10	8/6	VU120A	4/
D1	2/	EF36	5/	MSPEN(5), (HFP)	10/	S130	7/6	VU133	4/
D41	5/	EF37A	4/	MS/PEN(7)	7/6	T41	7/6	W17, (DF91, IT4)	3/
D42	5/	EF39	4/	MU14, (VU39)	5/	TDD2A	8/6	W42, (VHPB)	10/
D63	5/	EF40	10/	MVS/PEN	10/	TDD4, (DDTR)	10/	W76, (12K7)	8/
D77, (EB91, CV140)	3/	EF41	6/	MVS/PENB, (VHPB)	10/	TH233	10/	W77, (EF92, CV131)	3/
DA30	20/	EF42, (6F13)	6/	MVS/PENB(7)	10/	TT15	25/	W142, (UF41)	8/
DAC32, (1H5)	9/	EF50	4/	MVS/PEN(5), (VHFP)	10/	TP22	8/6	WD142, (UAF42)	8/
DAF70	7/6	EF54	5/	N14, (DL35, 1C5)	6/	TP25	7/	X14, (1A7, DK32)	9/
DAF91, (1S5)	4/	EF55	6/	N15, (DL33, 3Q5)	7/	TZ40	30/	X17, (DK91, 1R5)	6/
DAF96	8/	EF70	5/	N17, (DL92, 354)	5/	U19	15/	X42, (HEP4)	10/
DCC90, (3A5)	7/	EF71	5/	N18, (DL95, 3Q4)	5/	U22	7/6	X65	8/
DDT4, (DDTR)	10/	EF73	5/	N19, (DL94, 3V4)	6/6	U25	12/6	X66	8/
DD13	4/	EF80, (6BW7, 6BX6)	5/	N77, (EL91, CV136)	3/	U26	12/6	X76M, (12K8)	8/
DD14	5/	EF85	6/	N78	20/	U30, (YU30)	10/	X142, (UCH42)	8/
DF33, (Z14, 1N5)	7/6	EF86, (Z729)	6/	N142, (UL41)	7/6	U43, (6X2, EY51)	7/	XH(1.5V)	4/
DF64	7/6	EF89	6/	N309, (15A6, PL83)	6/6	U50, (5Y3)	5/	XP(2V)	4/
DF66	7/6	EF91, (CV138, 6AM6)	3/	N329, (PL82)	5/6	U52, (5U4)	5/	XPW20	7/6
DF72	7/6	EF92, (9D6, CV131)	3/	N339, (PL81, 21A6)	7/	U78, (6X4)	4/	XPW30	7/6
DF91, (IT4, W17)	3/	EF93, (6BA6)	5/	N709, (EL84)	6/	U309, (PY80)	5/6	XPW40	7/6
DF92, (1F2, 1L4)	2/6	EF95, (6AK5)	4/	NSP2	15/	U319, (PY82)	5/6	XFG1	17/6
DF96	8/	EF97	11/6	P2	4/	U329, (PY81)	5/6	XFY23	7/6
DH42, (DDTR)	10/	EF98	11/6	P61	3/6	U402	10/	XFY30	7/6
DH63, (6Q7)	5/	EF183	10/	PZ30	19/11	U404, (UY41)	5/6	XFY33	7/6
DH76, (12Q7)	8/	EF184	10/	PABC80	7/	U4020, (HW30)	10/	XFY43	7/6
DH77, (6AT6, EBC90)	5/	EL32, (YT52)	4/	PC88	12/	UABC80	8/	XFY34	15/
DH142, (UBC41)	8/	EL33, (KT61)	9/	PCCB4	6/6	UAF42, (WD142)	8/	XPW10	7/6
DK32, (X14, 1A7)	9/	EL38	15/	PCCB8	12/	UB41	10/	XSG2V	7/6
DK40	8/	EL41	7/	PCC89	11/	UBC41, (DH142)	7/6	Y61	7/6
DK91, (1R5, X17)	5/	EL42	9/6	PCFB0, (30C1, LZ319)	7/6	UBF80	6/6	Y62	7/6
DK92	7/6	EL81	9/6	PCFB2	7/6	UBF89	8/6	Y63	7/6
DK96	8/	EL84, (N709)	6/	PCFB6	11/	UBL21	11/	Z14, (DF33, 1N5)	7/
DL33, (N15, 3Q5)	7/	EL85	8/	PCF801	12/6	UCC85	6/6	Z77	5/
DL35, (N14, 1C5)	6/	EL86	7/6	PCF802	12/6	UCH21	8/6	Z719, (EF80, 6BX6)	5/
DL68	5/	EL91, (6AM5, CV136)	7/6	PCF805	13/6	UCH42, (X142)	8/6	Z729, (EF86)	7/6
DL70	7/6	EM34	3/	PCL82	6/6	UCH81	8/6	ZD17, (DAF91, 1S5)	4/
DL73	7/6	EM80	6/6	PCL83, (LN309)	10/	UCL82	9/	ZD152, (EBF80)	6/6
DL91, (1S4)	5/	EM81	8/	PCL84	8/6	UCL83	10/	6-4	7/6
DL92, (N17, 354)	5/	EM84	7/6	PCL85	11/6	UF41, (W142)	7/6	9-3	7/6
DL93, (3A4)	4/	EM85	10/						

SPECIAL PURPOSE VALVES			
1832	22/6	71A	10/
1836	25/	85A2	8/6
1840	10/	446A	12/6
1X2B	7/	446B	12/6
2C43	50/	704A	10/
2C52	15/	705A	10/
2J54	35/	714AY	75/
2K25	65/	721B	25/
3B24W	10/	724B	10/
3B24WA	15/	726B	15/
3B28	15/	723A/B	55/
3C24	20/	725A	25/
6CA	35/	803	22/6
6C21	75/	804	30/
6CW4	14/	805	25/
11E2	12/6	811	15/
11E3	15/	813	55/
12E1	17/6	815	40/
19E2	7/6	829B	30/
19G3	15/	832	20/
20A2	12/6	832A	25/
27M1	60/	837	10/
35TG	15/	866A	12/6
52CG	10/	872A	15/
		931A	60/
		2050	10/
		2051	7/6
		5651	8/
		5670WA	8/
		5687WA	10/
		5751	8/
		5751WA	12/6
		5763	10/
		5787WA	10/
		5814WA	8/
		5879	10/
		5960	8/
		5965	10/
		6080WA	25/
		6094	30/
		6114	25/
		6135	9/
		6350	9/
		7475	4/
		ATR338	3/
		CK5785	10/
		CMG25	12/6
		CV85	12/6
		CV129	15/
		CV100	12/6
		CV158	25/
		CV210	15/
		CV233	10/
		CV242	10/
		CV237	80/
		CV2161	25/
		CV2204	50/
		CV2247	22/6
		CV2696	60/
		CV2886	22/6
		DET22	42/6
		GS10C5	25/
		GS12C	25/
		GS18	10/
		MSH	22/6
		NSP2	15/
		OA2	6/
		OA3	10/
		OB2	6/
		OB3	6/
		OC3	6/
		OD3	5/
		OD3W	7/6
		QS75/20	7/6
		QS75/60	6/
		QS105/45	6/
		QS150/15	6/
		QS1207	6/
		QQV06/40A	60/
		QQV06/40	40/
		QQ07/40	45/
		QV04/7	7/6
		QOE03/12	25/
		IB59/R11308	30/
		STV/280/40	12/6
		TZ40	30/
		TD03/10F	10/
		TT15	25/
		U19	15/
		V570	4/
		V5110	9/
		VR105/30	6/6
		VR150/30	5/
		CV2247	22/
		XR1/3200	55/
		G10/241E	50/

● **GS 10c/s.**
Bi-directional 10 way selector tube.
Visual output, 4 Kc/s maximum.

Price 25/- Base 2/6

● **GS12c.** 12 way version of above.
Tag connections.

Price 25/-

● **G10/214E.** 10 way with number
indication. 20 Kc/s maximum.

Price 50/- Base 2/6

● **931A.** Photo multiplier tube.

Price 60/- Base 2/-

● **NSP2.** Cold cathode strobe tube.
Up to 250 c/s. Octal base.

Price 15/-

SELENIUM PHOTO CELL

43 x 17 mm. "Sun" Cells. Output
1½ to 2 volts open circuit as measured
on 1000 ohms/volt meter under 60 watt
lamp.



12/6 p.p. 9d.

(including
special solder)

OCP71 PHOTO TRANSISTOR



19/6

Average gain 50:
Max. volts —25
Max. current 20mA
Spectral response 1.55µ
Cut off 2µ
Dissipation 100m watt 25°C.
Sensitivity 1.5 to 4mA with
75 ft. candle at —2v. Vc.

Light Dependent Resistance

Cadmium Sulphide
Photo-conductive Cell.

Mullard Type ORP12

Dark resistance 10 megohm
max. Minimum resistance
with full Light 75 to 300
ohms.

Any voltage up to 110 volts
Maximum dissipation
200 mW



8/6 p.p. 6d.

Simply connect in series with a battery
and a relay, nothing else required.

Ideal for all light operated
switching and control

ORP60 Photo Conductive Cadmium Sulphide Cell

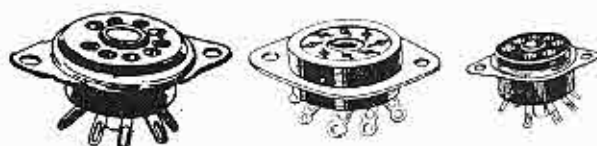
Maximum voltage 350 volts
Maximum dissipation
70 mW

Maximum current 7.5 mA
5/- p.p. 6d.

Ideal for all forms of light
control and switching

VALVE AND TUBE SOCKETS AND SCREENING CANS

5 pin UX	4d.	B7G Printed Circuit	9d.
4 " UX	4d.	B7G PTFE low loss	9d.
7 " UX	4d.	B7G with skirt	9d.
6 " UX	4d.	B8A " "	9d.
Octal	6d.	B9A " "	9d.
EA50 Type	9d.		
B9A	8d.		
B7G PAY	6d.	Cans for above	
B8A	8d.	B7G	9d.
Mazda Octal	6d.	B8A and B9A	9d.
9 pin Ceramic	9d.		
B8G "	9d.	Special Bases	
7 pin Vibrator	6d.	U11 for 3BPI etc.	4/6
Loctal	9d.	931A Base	2/-
B7G Ceramic	8d.	832 Type	6/-
Octal Ceramic	9d.	Acorn Base	1/6
807 Ceramic	1/6		



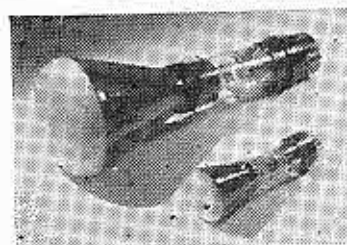
If you are unable to find the
Components and Equipment you re-
quire in this catalogue then write
to us and maybe we can help.

CATHODE RAY TUBES

(Post and packing extra.)

Up to 3 inch 2/6

Over 3 inch 4/6)



Tube Number	Dia. Inches	Heater		Anode 1 volts	Anode 2 volts	Grid Volts	Anode 3 volts	Dia. mm.	Sensitivity mm/volt		Colour	Persist- ence of Scan	Focus Type	Deflec- tion Type	Base Type	Price
		Volts	Current amps						X-plates	Y-plates						
VCR138A	3½	4	1	1200	200	-48	1200	90	0.07	0.15	Green	Medium	ES	ES	CK12	45/-
*VCR139A	2½	4	1.1	800	120	-10	800	64	0.217	0.217	Green	Medium	ES	ES	PS12	25/-
3FP7	3	6.3	0.6	575	2000	60	4000	76	0.1	0.14	Green	Medium	ES	ES	U14	12/6
3AP1	2½	2.5	2.1	430	1500	-50	—	76	0.223	0.233	Green	Medium	ES	ES	USM7	30/-
5FP7	5	6.3	0.6	250	7000	-45	—	127	—	—	Green	Medium	ES	ES	MG	20/-
VCR517C	6	4	1	2000	525	-80	3000	160	0.12	0.14	Blue	Long	ES	ES	CK12	30/-
VCR97	6	4	1	200	450	-100	2000	152	0.3	0.57	Green	Short	ES	ES	CK12	40/-
+O9D (CV1596)	4½	4	1.1	345	1200	-30	—	115	0.26	0.18	Blue	Medium	ES	ES	PS12	59/6
3GP1	3	6.3	0.6	350	1500	-50	—	76	0.32	0.36	Green	Medium	ES	ES	U11	25/-
†89D (CV2193)	4	6.3	—	2000	325	-50	2500	102	0.380	0.335	Green	Medium	ES	ES	—	59/6

*Equivalent to ACR10 and 23D tubes.

† Double beam tube.

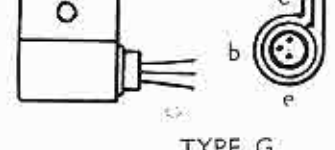
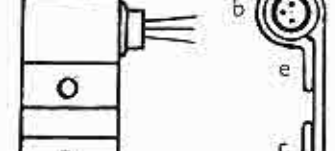
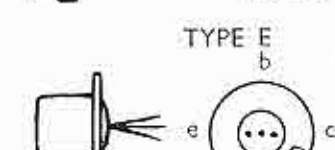
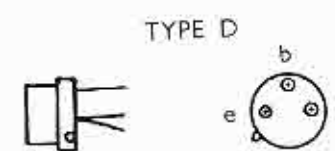
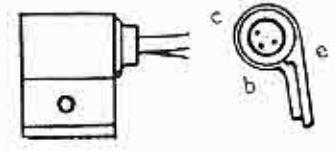
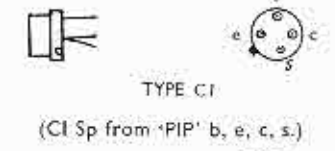
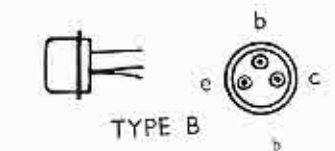
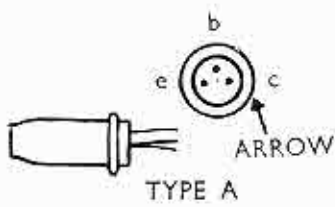
● TRANSISTORS, RECTIFIERS, DIODES AND ZENERS, PAGES 26, 27, 28. ●

TRANSISTORS

● BRAND NEW STOCKS 100% FIRST GRADE FULLY GUARANTEED ●

— NEW TYPES — LOWER PRICES —

(† NPN) (Ln, Low noise) (* Matched Pairs available) (si silicon) (a, minimum of 50mc/s)



Type Number	Base Ref.	Price	Type Number	Base Ref.	Price	Type Number	Base Ref.	Price
2N174 (150W)	Special	25/-	GET8*	SX	8/-	OC205	si J	22/6
2N247	a L	9/6	GET102	0	6/-	OC206	si J	22/6
2N257	S	10/6	GET103	0	5/6	OCP71	M	19/6
2N385A†	E	15/-	GET105	U	8/6	ORP12	—	8/6
2N457	S	27/6	GET106	0	14/6	ORP60	—	5/-
2N585†	B	7/6	GET111	0	10/-	NKT251*	R	6/-
2N597	B	9/6	GET113	0	5/6	NKT254	R	6/6
2N598	B	7/6	GET114	0	5/-	NKT255 Ln	R	7/6
2N599	B	12/6	GET115	U	9/6	SAC40	a Q	10/6
2N644	B	7/6	GET116*	U	15/-	SB078	Q	6/6
2N697† a, si	E	25/-	GET572	S	10/-	ST722†	a B	15/-
2N711A	a E	15/-	GET872	0	6/-	TK20C	H	6/-
2N1090†	B	7/6	GET873	0	5/-	TK22C	H	4/-
2N1091†	B	9/6	GET874	0	6/-	TK23C	H	5/6
2N1302†	E	7/6	GET880	Ln 0	10/6	TK23C	H	7/6
2N1742	a B	27/6	MAS20	a Q	10/-	TK25B	H	7/6
2N1748 Ln a	B	10/-	MAT100	a Q	7/9	TK25C	H	7/6
2N2062*	S	7/6	MAT101	a Q	8/6	TK31C	H	6/6
2N2065*	S	12/6	MAT120	a Q	7/9	TK31D	H	6/6
2N3053†	E	22/6	MAT121	a Q	8/6	TK36C	H	4/-
2G302A	B	7/-	OC16	Special	20/-	TK37C	H	4/-
2S303	si E	12/6	OC22*	S	22/6	TK40C	H	4/-
2S324	si B	15/-	OC23	S	17/6	TK41C	H	4/6
2S012A†	si Special	100/-	OC24	S	25/-	TK42C	H	4/-
2S013A†	si E	80/-	OC25	S	12/-	TK44C	H	4/-
2S018†	si E	40/-	OC26*	S	9/6	V6/BR	R	5/-
2S512† a, si	E	22/6	OC28*	S	17/6	V15/30P	Special	12/6
AC107	Ln J	12/6	OC29	S	17/6	V30/20IP	..	12/6
AC127†	J	9/6	OC35*	S	15/-	XA101	F	4/-
ACY17*	E	10/-	OC36*	S	15/-	XA111	A	4/-
ACY18*	E	7/6	OC41	J	8/-	XA102	F	5/-
ACY19*	E	9/-	OC42	J	8/6	XA112	A	5/-
ACY20	E	6/6	OC43	J	12/6	XA103	F	3/6
ACY21	E	6/-	OC44	K	6/-	XA104	F	3/6
ACY22	H	6/-	OC44M	H	6/6	XA125	a L	5/-
ACY27	H	4/-	OC45	K	4/-	XA141	a a a B	8/6
ACY28	H	4/-	OC45M	H	6/-	XA142	a a a B	8/6
AD140*	S	19/6	OC57	H	16/-	XA143	a a a B	9/6
ADT140	a Cl	15/-	OC58	H	17/6	XA151	a A	5/-
AF102	a a K	27/6	OC59	H	18/6	XA152	a A	5/-
AF114	a L	9/-	OC60	U	17/6	XA161	a E	8/6
AF115	a L	8/6	OC65	H	22/6	XA162	a E	9/6
AF116	a L	8/-	OC66	H	25/-	XA191	a H	6/-
AF117	a L	6/-	OC70	K	4/-	XA192	a H	6/-
AF118	a L	17/6	OC71	K or J	4/-	XA701†	a A	6/-
AF124	a a Cl. Sp.	11/-	OC72*	J	6/-	XA702†	a A	12/6
AF125	a a ..	10/6	OC74*	J	6/6	XA703†	a A	12/6
AF126	a a ..	10/-	OC75	K or J	6/-	XB102	F	3/-
AF127	a a ..	9/6	OC76	J	6/-	XB112	A	3/-
AF139	a Cl	19/6	OC77	J	8/-	XB103	F	3/6
AFY19	a E	42/6	OC78D	J	6/-	XB113	A	3/6
ASY60	a H	7/6	OC78*	J	6/-	XB133	H	4/-
AFZ11	a L	19/-	OC81D	J	6/-	XB121	E	10/-
AFZ12	a Cl	19/6	OC81*	J	6/-	XC101A*	A	5/6
ASY52	a H	6/-	OC82DM	J	5/-	XC101*	F	5/6
ASY63	a H	5/-	OC82*	J	9/-	XC121†	A	5/6
ASY66	a H	6/-	OC83	J	5/-	XC131*	G	8/- pair
ASZ20	a L	9/-	OC84*	J	7/6	XC161*	A	5/6
ASZ21	a Cl	19/6	OC122	K	16/-	XC163*	D	6/-
ASZ23	a L	39/6	OC139†	K	12/-	XC171*	G	8/- pair
AUY10	a S	47/-	OC140†	K	19/-	XC141	S	7/6
CDT1313	S	27/6	OC169	a L	6/-	XC142	S	9/6
CDT1322	S	27/6	OC170	a L	7/6	XC155*	S	12/6
CTP1265	S	20/-	OC171	a L	8/6	XC156*	S	15/-
CV7001	H or J	5/6	OC200	si J	10/6	XC703	si E	22/6
CV7003	J	6/-	OC201	si J	15/-	XC723	si S	80/-
CV7044	J	15/-	OC202	si J	15/-	XS101	F	7/6
CV7008 Ln	J	14/6	OC203	si J	13/-	XS104	F	5/-
CV7107	J	5/6	OC204	si J	19/-	XS121	E	10/-

WE CAN ADVISE AS TO WHICH TYPE IS SUITABLE FOR YOUR CIRCUIT

Stocks are continually changing, new types become available every day. Enquiries invited for any Type not listed.



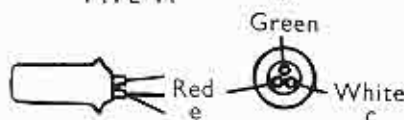
TYPE K



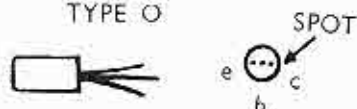
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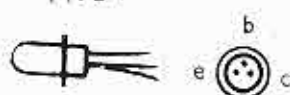
TYPE M



TYPE O



TYPE P

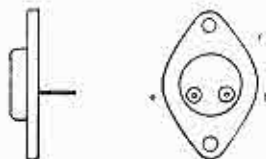


TYPE Q



TYPE R

2N174 Spiggot at top RH pin base, left 'E' and stud collector.



TYPE S

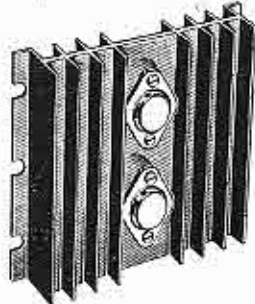


TYPE U

SETS OF TRANSISTORS

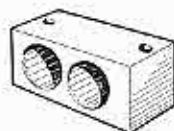
LFH3	OC81D (2) OC81	15/-
LFK3	AC127, OC81D, OC81	15/-
LF6	XB113, (2) XC171	10/-
RFG3	OC44, (2) OC45	12/6
LFG3	OC78D, (2) OC78	15/-
RF5	XA192 (2) XA191	10/-
LCR2	OC82D, AD140	22/6

★ HEAT RADIATORS ★ (READY DRILLED)



- For single power transistor, base type 'S' (TO3 casing), size 4 x 2 inches. 20 watts max. For 70°C rise (3.5°C/watt). 5/- ea. pp. 9d.
- For one or two power transistors. Size 4 x 4 inches. 30 watts max. for 70°C rise. (2.5°C/watt) 8/- ea. pp. 1/-
- Mica washer for power transistors with two insulating bushes, per set 1/-

★ COOLING BLOCK



For (2) Base type 'L' (TO7 Casing)
Size $\frac{1}{2} \times \frac{1}{2} \times 1\frac{1}{4}$ in.
0.07°C/mW on Phenolic chassis.
0.04°C/mW on Aluminium chassis.
Price 4/- each.

★ COOLING BLOCK




For (2) Base type (TO5/9/12/16/30 39/42 B)
0.05°C/mW on Phenolic chassis.
0.02°C/mW on Aluminium chassis
Size $\frac{3}{8} \times \frac{3}{8} \times 1\frac{1}{2}$ in.
Price 6/- each.

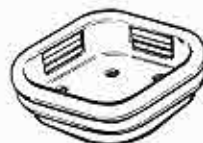
★ COOLING BLOCK

As above for (2) Base type (TO18 Casing)
Thermal Rating 0.05°C/mW Phenolic chassis. Thermal Rating 0.02°C/mW Aluminium chassis. Size $\frac{1}{2} \times \frac{1}{2} \times 1$ inch.
Price 5/- each.

TRANSISTOR ACCESSORIES

- Transistor sockets 3-pin
Transistor sockets 4/5 pin.
9d. each. 
- Cooling clips for OC72 type metal cased transistors and rectifiers, 6d. each.
- Plastic 1 yard lengths sleeving to cover transistor leads per yard 3d.

★ FINNED SHELL WITH CROSS VENTS



For power transistor base type 'S' (TO3). (3.8°C/watt on aluminium chassis) 4-Units on 9x7 chassis 4.8°C/watt.
Overall size $1\frac{3}{8} \times 2\frac{3}{8} \times \frac{1}{8}$ inch.

Price 4/6 each.

★ LOBED RADIATION FIN



For TO5 etc. base type.
Size $\frac{1}{2} \times \frac{3}{8}$ inch diam.
(0.05°C/mW).

Price 1/6 each.

Fits many other transistor types.

★ LOBED RADIATION FIN

As above for base type (TO18 case size)
Size $\frac{1}{2} \times \frac{3}{8}$ inch diameter. (0.05°C/mW Thermal Rating). Fits many other transistor types.

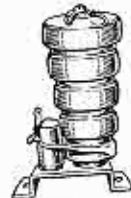
Price 1/6 each.

GET8 SPECIAL OFFER

Matched pair of power transistors type GET-8 with mica washers and fixing bushes. Ratings 32volts, 8 Amp (PK.) 90°C T.J. Gain 15 at 8 Amp 1½ volts. For push pull output up to 50 watts.

PRICE 15/- PAIR

QUANTITIES AVAILABLE
ON ALL ITEMS LISTED

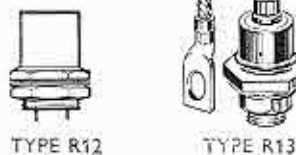
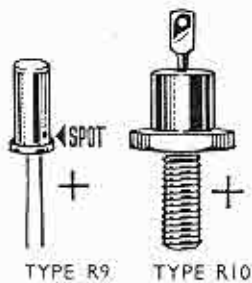
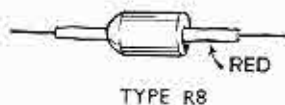
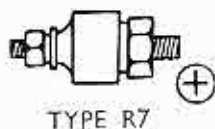
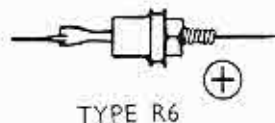
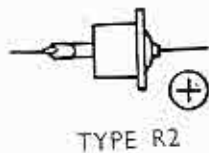
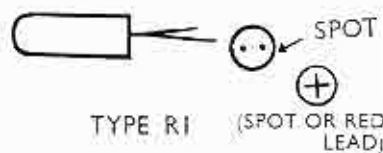


BULGIN CHOKE

For 807 and similar transmitting valves 250mA.

5/6 pp. 9d.

NOTE: Connections for GET 8-BASE TYPE SX. As type S but with a lead connected to case between 'E' and 'B' leads. Case and lead are 'C' connection.



(Drawings are not to size)

MINIATURE SILICON POWER RECTIFIERS

TJ40 (IN3075) (R11)	200PIV	75volt	max.	200mA	max.	3/6
DD000 (R8)	50PIV	20volt	"	500mA	"	3/-
ZS10A (CV2384)	60PIV	20volt	"	100mA	"	3/6
IS111 (R4)	225PIV	75volt	"	400mA	"	4/-
XU604 (R2)	500PIV	140volt	"	500mA	"	4/6
XU612 (R2)	200PIV	70volt	"	500mA	"	3/6
XU613 (R2)	300PIV	100volt	"	500mA	"	4/-
XU614 (R2)	400PIV	140volt	"	500mA	"	4/6
OA210 (R6)	400PIV	140volt	"	500mA	"	7/6
RS25AF (R8)	400PIV	150volt	"	500mA	"	4/6
BY114 (R2)	450PIV	170volt	"	550mA	"	5/-
6G8(IS004) (R2)	500PIV	200volt	"	750mA	"	5/6
SX636 (R6)	600PIV	200volt	"	500mA	"	5/-
IS115 (R4)	600PIV	200volt	"	400mA	"	6/-
IS113 (R4)	400PIV	140volt	"	400mA	"	5/-
IN606 (R2)	600PIV	200volt	"	600mA	"	5/-
BY100 (R2)	800PIV	270volt	"	550mA	"	6/6
DD321 (R6)	100PIV	35volt	"	1Amp	"	5/-
ZR11 (R2)	100PIV	35volt	"	1 1/2 Amp	"	7/6
IN253 (R10)	100PIV	65volt	"	3Amp	"	8/-
TM41 (R10)	400PIV	280volt	"	3Amp	"	7/6
TM64 (R10)	600PIV	420volt	"	3Amp	"	10/-
BYZ13 (R10)	200PIV	70volt	"	6Amp	"	7/6
IN249 (R10)	100PIV	50volt	"	20Amp	"	20/-
IN1186 (R10)	200PIV	100volt	"	35Amp	"	30/-
45L (R13)	50PIV	50volt	up to	110Amp	"	45/-
ZR31C (R10)	100PIV	50volt	"	30Amp	"	25/-

Germanium Power Rectifier
GJ3M Price 4/- ea.
(Base Reference R7)
upto 70 volt MAX
(200 PIV) 1 amp

SELENIUM FULL WAVE
(Base Ref. R14)
Up to 18 volts 200mA
Size 7/8 x 5/8 x 3/8 inch.
Price 4/6

Silicon HF Microwave Diodes
IN21 { 'S' Band } 3/6
IN21A { 3000Mc/s } 5/-
IN22
IN23 'X' Band
25000 Mc/s 4/-
CV2226 up to Mc/s 30/-
CV2258 12000 35/-

GEC - MULLARD - HUGHES - AEI - USA

DIODES AND RECTIFIERS					
CV448 (R4)	2/-	SX783	-	7/-	
CV425 (R4)	2/-	OA200 (R4)	5/-		
AAV12 (R4)	6/-	OA202 (R4)	5/6		
AAZ13 (R4)	4/6	OA210 (R6)	7/6		
EW99 (R1)	6/-	HD2967 (R4)	4/-		
GEX941 (R1)	6/-	HG5002 (R4)	4/-		
GEX951 (R1)	6/-	CV5064 (R4)	2/6		
OA5 (R1)	6/-	XD202 (R4)	2/-		
OA7 (R4)	4/-	BYZ13 (R10)	7/6		
OA10 (R1)	6/-	SX631 (R6)	6/-		
OA47 (R4)	3/-	SX632 (R6)	6/6		
OA70 (R4)	2/6	SX633 (R6)	7/-		
OA79 (R4)	2/6	SX634 (R6)	7/6		
OA79 (Pair.)	5/-	SX641 (R1)	3/-		
XD201 (R4)	2/-	IN34A (R4)	2/-		
BY100 (R2)	6/6	IN459 (R4)	5/-		
BY114 (R2)	5/-	IN205 (R5)	2/-		
OA81 (R4)	2/6	IN1084 (-)	5/-		
OA85 (R4)	3/-	IN91 (R2)	3/-		
OA86 (R4)	4/-	IN42 (Quad)	10/-		
OA90 (R4)	2/6	S271H (-)	7/6		
OA91 (R4)	2/6	CG12E (R4)	2/-		
OA95 (R4)	3/6	CG64 (R4)	2/-		
OA211 (R6)	9/6	GEX64 (R4)	3/6		

PRECISION ZENER REFERENCE ELEMENTS

IN429 6.2v ± 5% 20 ohms. at 7 1/2 mA. 200mW at 25°C. (Derating 1mW/°C.) ± 0.050 volts change from -55°C to +100°C. ± 1% stability. 15/- each. (Outline Ref. R9)
IN430 8.4v ± 5% 10mA at 25°C. 15 ohms. Temp. Coeff. ± 0.002 % / °C from -55°C to +100°C. 0.2% stability. ± 0.014 volts drift. 45/- each. (Outline Ref. R12)

SPECIAL OFFER

Germanium Power Rectifier Type VA713E (Ref. Type R13). English Electric Manufacture. 80V max. recurrent. 160PIV max transient. 56 volts Rms maximum at 13 Amps max at 35°C (on 20 sq. ins. metal). Price 10/- each.

ZENER DIODES

OA2Z00	5%	4.7volt	12/-
OA2Z01	"	5.1 "	10/-
OA2Z02	"	5.6 "	8/6
OA2Z03	"	6.2 "	8/6
OA2Z04	"	6.8 "	8/6
OA2Z05	"	7.5 "	8/6
OA2Z06	"	8.2 "	8/6
OA2Z07	"	9.1 "	9/6
OA2Z08	15%	4.3 "	6/6
CAZ209	"	5.1 "	6/6
OA2Z10	"	6.2 "	6/6
OA2Z11	"	7.5 "	6/6
OA2Z12	"	9.1 "	6/6
OA2Z13	"	12 "	6/6
(300mW all above base Ref. R1)			
OA2Z47 (R4)	9.1v 5%	230 mW	7/-
VR5 75A (R2)	5%	6 volt (1 1/2 watt)	6/6
VR9B (R2)	5%	9 volt 1 1/2 watt	8/6
OA2Z90	15%	6.2volt	10/-
OA2Z91	"	7.5 "	10/-
OA2Z92	"	9.1 "	10/-
(Above base Ref. (R10) 7 watt)			
Z2A47F (R8)	4.7v	1 watt	12/6
SZ13C(R6)	5%	13 volt 1 1/2 watt	10/-
IS5015 (R10)	15 volt		12/6
IS5020RA (R10)	20 volt		15/-
IS5075RA (R10)	75 volt		17/6
IS5100A (R10)	100 volt		20/-
IS5150A (R10)	150 volt		25/-
8 Watt 5% Power Types			

METER RECTIFIERS

Half Wave :
WX6, W6, STC M3 1/6 ea.
Bridge:
1mA: 5mA: 10mA 12/- ea.

● New types become available every day. Enquiries invited for any type not listed.

TRADE AND EXPORT ENQUIRIES WELCOMED

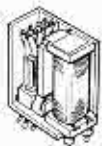
● **2 POLE 2 WAY**
12 TO 28 VOLT



Miniature relay size $1\frac{1}{2} \times 1 \times \frac{3}{8}$ in. Resistance 700 ohm. Consumption 18mA on 12 volts. 2 pole 2 way contacts. Contact rating up to 2 Amps. 100 volt, 30 watts maximum.

Price 7/6 p.p. 5d.

● **2 POLE 2 WAY**
9 TO 24 VOLTS



250 ohm miniature type size $1\frac{1}{2} \times 1 \times \frac{3}{8}$ in. Current 36mA on 9 volt supply. 2 pole 2 way contacts (up to 2 Amps, 100 volt, 30 watts maximum.

Price 7/6 pp. 9d.

● **350 OHM**
4½ TO 12 VOLT

Miniature type overall size $1\frac{1}{2} \times 1\frac{1}{8} \times \frac{3}{8}$ in. Current on 4½ volts about 13mA. Contacts rated up to 1Amp.



- ★ 4 pole on/off type 10/- pp. 9d.
- ★ 2 pole on-2 off type 10/- pp. 9d.

RELAYS SENSITIVE MINIATURE TYPES

● **HEAVY DUTY** 12 to 24 volt
CHANGE OVER

250 ohm miniature relay size $1\frac{1}{2} \times 1 \times \frac{3}{8}$ in.

12 to 24 volt operation.

48mA current on 12 volts.

On/Off contacts rated at 10 Amps, maximum.

Up to 100 volts 50 watts.

Price 7/6 pp. 9d.



● **SUB MINIATURE**
2 POLE 2 WAY

6 to 12 volt operated.

Resistance 675 ohms.

Current on 6 volts about 9mA.

Size $\frac{3}{8} \times \frac{3}{8} \times \frac{3}{8}$ in.

Low current contacts.

Price 12/6 pp. 6d.



(Actual Size)

TRANSISTORS

COMPLETE RANGE IN STOCK. PNP AND NPN SILICON AND GERMANIUM TYPES.

ALLOY JUNCTION, PLANAR, DIFFUSED ALLOY, MESA, GROWN JUNCTION, EPITAXIAL PLANAR, DIFFUSED MESA.

EVERY TYPE FOR ALL USES

● **4 POLE 2 WAY**
12 TO 30 VOLT

Miniature relay with dust cover overall size $1\frac{1}{8} \times \frac{1}{8} \times 1\frac{3}{8}$ ins. Resistance 700 ohm. Current 18mA on 12 volts.

4 pole 2 way contacts rated up to 1 Amp. 100 volts 30 watts maximum.

Price 12/6 pp. 9d.



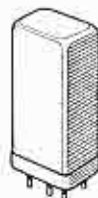
● **HIGH SPEED**

Siemens miniature sealed high speed relays. Twin coils can be connected in series or parallel.

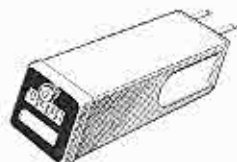
Single pole change over contacts low current rating. Overall size $2\frac{1}{8} \times 1 \times \frac{3}{8}$ in. 21 to 45 volts operated.

★ 1700±1700 ohm type 15/- pp. 9d.

★ 1000±1000 ohm type 15/- pp. 9d.



ELECTROMAGNETIC COUNTER



Four figure counter up to 9999. Overall size $4\frac{1}{2} \times 1 \times 1$ inch. Operates from 4½ volts at 1 amp or up to 12 volts. Brand new boxed!

Price 10/- p.p. 9d.

TRANSISTOR TESTER



● Measures transistor leakage and diode reverse current for PNP and NPN transistors. Current gain 'beta' up to 200 and 'Alpha' 0.9 to 0.995. Bias current 1mA for PNP and NPN types and 5mA for Power.

Easy to use instrument with 4 inch 50 microamp. meter.

Size 8x4x3 inch.

Weight 2½ lbs.

Complete with batteries and instruction Book.

Price **£9-17-6** p.p. 2/6



VERNIER DIALS

- **Model T501**
1½ inch diameter 10/6
- **Model T502**
2 inch diameter 12/6
- **Model T503**
3 inch diameter 15/-

Precision slow motion or vernier dial with approx 8 to 1 ratio. Surface mounting. Accurately centred metal insert for ¼ inch shaft. Reads counter clockwise 0-100 through 180°. Simple 2-hole fixing.

Ideal for any tuner or control to provide slow motion fine adjustment.
(Post & Packing 1/- Any Type)



VERNIER DIAL

Type 1257 slow motion dial 1½ in. diameter scroll type.
Reads clockwise 0 to 100 through 180°
Reduction ratio about 27 to 1
Simple two hole surface mounting. Ideal for any ¼ inch shaft. Pushfit.

7/6 p.p. 6d.

★ JACKSON TYPE 4489

Slow motion dial with 6:1 Reduction drive.
PRICE 17/6 pp. 1/6

Miniature PEA Lamp

Miniature PEA lamp holder. Single hole fixing type with red glass.

Price 1/6 pp. 3d.

Overall size 1 inch by ½ inch diameter. Requires ⅜ inch hole.



THERMISTORS

Directly heated bead types. Enclosed glass construction.

STC R53: 5 Kohm at 20°C; 1 Kohm at 100°C; 3½ ohm at 300°C
22/6 p.p. 6d. 3 mW power.

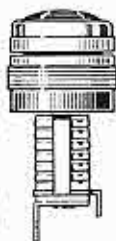
- ★ Bulb holder for mes types. Red glass completely enclosed ⅞ in diam. Single hole fixing. 2/6 pp. 6d.
- ★ H1VAC type 8L neon screw in mes fitting. Voltages as for miniature neon below 1/3 pp. 3d.
- ★ 250mA mini-fuses 6d. each also range of 1½ inch cartridge fuses 6d. each.
- ★ GS12C Dekatron tube solder tag connections. 25/-
- ★ GS10CS Dekatron plug in type 25/-
Base for GS10CS 3/-
- ★ 931A photo multiplier tubes complete with base 60/-
- ★ NSP2 strobe tube 15/-
- ★ M2H Beta liquid sampling tube 22/6 pp. 1/6

MES LAMP HOLDER

Bulgin chromed bulb holder. Mes type. Single hole fitting with red glass. ⅜ inch overall diameter.

Price 2/6 pp. 6d.

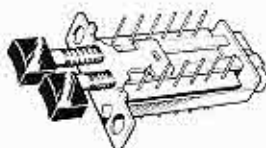
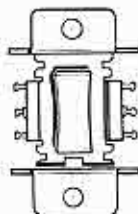
- Also enclosed Bulgin type (not chromed) 2/6 pp. 6d.



PUSH-BUTTON SWITCH

6 pole 2 way push on release off switch as illustrated. Overall size 1×1×1 inch. Two hole fixing. Ideal for TX/RX And intercomms.

Price 6/- pp. 6d.



TWO BUTTON SWITCH

4 pole 2 way two button switch. 2 pole 2 way each button. Size 2×1½×⅜ inch overall.

Price 6/- pp. 6d.

MINIATURE NEON

H1VAC type 16L or 34L (direct replacement for American NE2)

Ideal indicator for all voltages AC or DC from 80/250 volts.

Series resistance required:
For 70/90 volts—68k ¼w
" 90/120 " —82k "
" 200/250 " —220k "



2/-
p.p. 6d.

220/250 VOLT MAINS NEON

Single hole fixing:
100% safe enclosed in moulded nylon. Suitable for all mains equipment requiring indication of 'on'.



4/6 each
pp. 6d.

BULGIN PILOT BULB HOLDER

- For any screw in mes type miniature pilot or torch bulb. Red or green glass 1/9d. each pp. 3d.



RADIO CONTROL CRYSTAL

New 27.25 Mc/s. High output overtone crystal. Light weight miniature wire ends.

Suitable for valve or transistor circuits.

15/- pp. 6d. Fully Guaranteed



RADIO CONTROL VALVE

Miniature wire end type DL68. Brand new and Fully Guaranteed.

5/- pp. 6d.

(5 pin flat socket 9d.)
Also XFY34 15/-



MAINS/BATTERY NEON INDICATOR

Single hole fixing. Complete with resistor and panel fixing clip.
Code Yellow 190/250 volt
Code Red/Black 90/120 volt

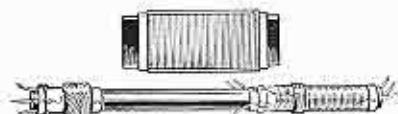
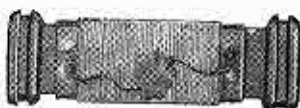
Price 3/- Each. (pp. 6d.)



FERRITE AERIALS

(Postage and packing 9d. any type)

100% BEST GRADE FERRITE



● WE CAN ADVISE AS TO THE CORRECT AERIAL TO USE FOR TRF OR SUPERHET ●

TYPE	WAVEBAND	TUNER	SIZE (Inches)	DETAILS	CIRCUIT	PRICE
TSL1	MW	250/300 pf.	2½ × ¾	Slab with Secondary	With Aerial	3/6
TSL2/1	MW	120 pf.	1½ × ¼ diam.	With Secondary	With Aerial	3/6
M4	MW	365 pf.	4 × ⅞ diam.	Tapped with Reaction Overwind	—	6/-
ML5	MW/LW	365 pf.	5 × ⅞ diam.	Tapped with MW Reaction Overwind.	—	7/6
S4	MW	450/500 pf.	4 × ⅞ diam.	General Purpose	—	4/-
FS3	MW	208 pf.	3 × 1	Slab with Secondary	With Aerial	7/6
FS4	LW	208 pf.	3 × 1	Slab with Secondary	With Aerial	7/6
FS2	MW/LW	365 pf.	5½ × 1	Slab with Secondaries	With Aerial	13/6
FR1	MW/LW	500 pf.	8 × ⅞ diam.	For Valve Circuits	—	12/6
FS39	MW/LW	208 pf.	3 × 1	Slab with Secondaries	With Aerial	10/6
FS30	MW/LW	208 pf.	5½ × 1	Slab with Secondaries	—	10/6
FS48	85/200 metres	208 pf.	5½ × 1	Slab with Secondaries	With Aerial	7/6
FR2	MW/LW	365 pf.	8 × ⅞ diam.	With Secondaries	Regency	12/6
PWFRI	MW/LW	208 pf.	6 × ¾ diam.	With Secondaries	PW-6/7 (1/6)	8/-
M5	MW	450/500 pf.	2 × ⅞ diam.	Tapped, also Overwind	—	4/6
FRMT	100/200 metres	100 pf.	2 × ⅞ diam.	With Secondary	—	4/6
FRM8	MW	450/500 pf.	2 × ⅞ diam.	Single winding	—	4/6
RA2W	MW/LW	208 pf.	6 × ⅞ diam.	With Secondaries and Aerial Coil.	Car Weyrad 1/6	12/6
RA2W/4	MW/SW	208 pf.	6 × ⅞ diam.	With Secondaries and Aerial Coil.	Car .. 1/6	12/6

HIGH 'Q' R.F. CHOKES

RFC	1.5 mH (illustrated)	1/6
CH1	2.5 mH (Repanco)	2/6
CH2	5 mH	2/6
CH3	7.5 mH	2/6
CH4	10 mH	2/6
RFC8	5 Microhenry (1½ × ¼ in.)	2/-
RFC5	2.5mH (1½ × ⅜ in.) 100mA	3/6
QC1	23mH (Osmor)	6/9
QC2	6.5 mH (Osmor)	6/-
MRC	H.F. choke (⅝ × ¼ in.)	9d.
SC	Suppressor choke (1¼ × ⅜ in.)	9d.
NEOSID	1 amp Choke core ⅞" × ⅞"	6d.



FERRITE RODS

(Postage and packing 6d. any type)

2 inch length	⅝ inch diameter	1/-
2½ "	⅝ "	1/-
4 "	⅝ "	1/6
4 "	¾ inch diameter	2/-
4½ "	¾ "	1/6
5 "	⅝ "	2/-
8 "	⅝ "	3/6
8 "	¾ "	3/
10 "	¾ "	4/
5½ inch × 1 inch × ¼ inch	Slab	2/6

SPECIAL OFFER

Set of miniature IFTS(3) and OSC. coil. Twin gang. Ferrite aerial, dial and superhet circuit.

Set of 7 items with circuit **20/-** Model H402

SUB-MINIATURE COILS

Set of 4—7mm. square superhet coils. Oscillator and 3-IFTs. 465/470 Kc/s.

10/- Set of Four



OSMOR 'Q' COILS AND RF CHOKES

(All Coils include Circuit Connection Details). Postage and Packing 6d. any coil.

• HIGH 'Q' LOW LOSS ADJUSTABLE CORES • ONE HOLE FIXING • SMALL SIZE • MAINS OR BATTERY SUPERHETS. I.F. 450-480 Kc/s. Size 1 inch × $\frac{1}{2}$ inch diameter

Coil No.	Waveband (metres)	Stage	Colour Code		Coupling	Inductance (microhenries)		Fixed Con. Value	Price	
			Foot	Body		Min.	Max.			
QA1 QHF1 QO1	S.W. 13-35	Aerial H.F. Osc.	Blue Green Red	Purple " "	Aperiodic " "	0.6 0.6 0.5	1.1 1.1 0.7	0.1 mfd 0.1 mfd 4500 pf	4/- 4/- 4/-	
QA2 QHF2 QO2	S.W. 15-50	Aerial H.F. Osc.	Blue Green Red	Yellow " "	Aperiodic " "	1.4 1.4 1.1	1.9 1.9 1.6	0.1 mfd 0.1 mfd 4500 pf	4/- 4/- 4/-	
QA3 QHF3 QO3	S.W. 35-120	Aerial H.F. Osc.	Blue Green Red	Green " "	Aperiodic " "	3 3 2.5	5 5 4.8	0.1 mfd 0.1 mfd 4500 pf	4/- 4/- 4/-	
QA4 QHF4 QO4	Shipping 70-230	Aerial H.F. Osc.	Blue Green Red	Black " "	Aperiodic " "	17 17 10	42 42 22	0.1 mfd 0.1 mfd 2500 pf	4/- 4/- 4/-	
QA5 QHF5 QO5	M.W. 190-520	Aerial H.F. Osc.	Blue Green Red	Blue " "	} Bottom end condenser	130 130 70	215 215 130	2500 pf 2500 pf 470 pf	4/- 4/- 4/-	
QA6 QHF6 QO6	L.W. 800-2000	Aerial H.F. Osc.	Blue Green Red	Red " "		} Bottom end condenser	1600 1600 400	2600 2600 720	2500 pf 2500 pf 150 pf	4/- 4/- 4/-
QA8 QHF8 QO8	M.W. 190-560	Aerial H.F. Osc.	Blue Green Red	Brown " "			Aperiodic " "	100 100 65	175 175 120	0.1 mfd 0.1 mfd 470 pf	4/- 4/- 4/-
QA9 QHF9 QO9	L.W. 800-2000	Aerial H.F. Osc.	Blue Green Red	Clear " "	Aperiodic " "		2000 2000 400	2600 2600 720	0.1 mfd 0.1 mfd 150 pf	4/- 4/- 4/-
QA61	L.W. 800-2000	Aerial H.F.	Blue Green	Red "	} Bottom end condenser	1800 1800	2600 2600	2500 pf 2500 pf	5/- 5/-	
QA81	M.W. 190-520	Aerial H.F.	Blue Green	Brown "		Aperiodic "	100 100	175 175	0.1 mfd 0.1 mfd	5/- 5/-
QA91	L.W. 800-2000	Aerial H.F.	Blue Green	Clear "	Aperiodic "	2000 2000	2600 2600	0.1 mfd 0.1 mfd	5/- 5/-	

The above stated wavebands are obtained with a 500 pf (0.0005) tuning condenser. However a 365 pf may be used reducing by about $\frac{1}{3}$ th the low frequency end of the waveband, i.e., M.W. with 500 pf tuning covers 190-560 metres, reduces to cover 190-490 metres with 365 pf tuning capacitor.

SUNDRY COILS AND CHOKES

QR11D	MW/LW T.R.F. Dual Range with reaction	7/6	QC1	23mH Allwave choke	6/9	
QA11D	MW/LW T.R.F. Dual Range	6/- each or ..	10/6 pair	QC2	6.5 mH R.F. choke ..	6/-
QA12D	MW/LW H.F. Coil for T.R.F.	6/-				
SWQ1	SW 11 to 31 Mc/s Aerial/H.F. with reaction	6/-				
SWQ2	SW 4 $\frac{1}{2}$ to 12 Mc/s Aerial/H.F. with reaction	6/-				

See separate section for all transistor coils and chokes

TRANSISTOR SUPERHET COILS TUNING CAPACITORS PAGE 36 FERRITE AERIALS PAGE 31

(Post and Packing 6d. per Coil)

★ All parts to complete circuits using all listed coils are available from stock ★

* See Page 36

† Printed circuits available see page 47 ★

WEYMOUTH (WEYRAD)

Note: IF Frequency can generally be adjusted from 455 kc/s to 480 kc/s.

Type No.	Size	Description	Wavebands	* Tuner	(See Note) I.F.	Circuit and Layout	Price
P50/1AC P50/2CC P50/3CC	1 1/8" x 1 1/8" in. diam. 1 1/8" x 1 1/8" in. diam. 1 1/8" x 1 1/8" in. diam.	Oscillator for OC44/XA102 1st and 2nd I.F.T. Final I.F.T. matched to diode	MW/LW — —	208+176 — —	470 Kc/s 470 Kc/s 470 Kc/s	+ Booklet 1/6	5/4 5/7 each 6/-
P50/1A P90/1AS P71 P72 P50/3V	1 1/8" x 1 1/8" in. diam. 1 1/8" x 1 1/8" in. diam. 1 1/8" x 1 1/8" in. diam. 1 1/8" x 1 1/8" in. diam. 1 1/8" x 1 1/8" in. diam.	Oscillator for OC170/AF117 Oscillator for OC170/AF117 1st I.F.T. double tuned 2nd I.F.T. double tuned Final I.F.T. to diode	MW SW — — —	208+176 208+176 — — —	470 Kc/s 470 Kc/s 470 Kc/s 470 Kc/s 470 Kc/s	+ — — — —	5/6 6/- 6/3 6/3 6/-

WIRELESS TELEPHONE

WTC1 WTC2 WTC3	1 1/8" x 1 1/8" in. diam. 1 1/8" x 1 1/8" in. diam. 1 1/8" x 1 1/8" in. diam.	Oscillator for OC44/XA102 1st and 2nd double tuned I.F. Final I.F.T. to diode	MW/LW — —	HR2 — —	470 Kc/s 470 Kc/s 470 Kc/s	† Book 2/6	5/6 6/6 each 6/-
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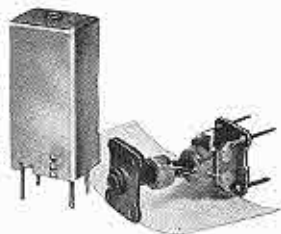
SUB MINIATURE OSCILLATOR AND IFTS

WTC101 WTC102 WTC102B WTC103	1/4" x 1/4" x 1/4" in. 1/4" x 1/4" x 1/4" in. 1/4" x 1/4" x 1/4" in. 1/4" x 1/4" x 1/4" in.	(Red) Osc. coil (White) 1st I.F.T. (White) 2nd I.F.T. (Black) Final I.F.T.	MW/LW — — —	190+190 — — —	470 Kc/s 470 Kc/s 470 Kc/s 470 Kc/s	Ideal for model con- trol super- het circuits	3/- 3/- 3/- 3/-
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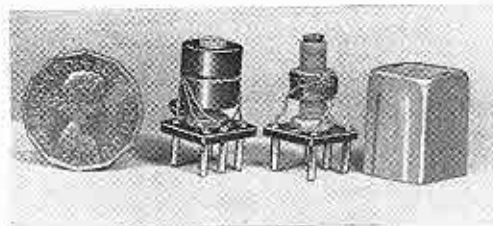
MINIATURE TYPES

BH01 BH02 BH03	3/8" x 3/8" x 1/2" in.	Red 6 pin oscillator White, 1st and 2nd IFT Red/Black, Final IFT	MW/LW — —	210+90 — —	465/470Kc/s	Ideal replac- ements for Imported Radios.	3/- 3/- 3/6 each.
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WTC
Doubled
Tuned
Series



P50/
P70
PW/
Series



OSMOR-PW

Reparco-All types and Denco IFTs

Type No.	Size	Description	Wavebands	* Tuner	I.F.	Circuit and Layout	Price
PW/01 PW/2 PW/3	1 1/8" x 1 1/8" in. diam. 1 1/8" x 1 1/8" in. diam. 1 1/8" x 1 1/8" in. diam.	6 Pin Oscillator 1st and 2nd I.F.T.'s Final I.F.T. to Diode	MW/LW — —	208+176 — —	470 Kc/s 470 Kc/s 470 Kc/s	+ Book 1/6	5/4 5/7 each 6/-

T.S.L.

TSL01 TSL2 TSL3 TSL4	7/16" x 3/16" x 3/16" in. 7/16" x 3/16" x 3/16" in. 7/16" x 3/16" x 3/16" in. 7/16" x 3/16" x 3/16" in.	(Green) Osc. for Med. waves (White) 1st I.F.T. (White) 2nd I.F.T. (Mauve) Final I.F.T. to diode	MW — — —	120+120 — — —	470 Kc/s 470 Kc/s 470 Kc/s 470 Kc/s	} Circuit Free with tuner	6/- 6/- 6/- 6/-
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FM VHF COILS †

Aerial Coil Code Blue	...	3/-	IST IFT 10.7Mc/s Code Orange	...	3/6
RF " " Red	...	2/-	TIF10 10.7Mc/s. 2nd and 3rd IFT Code Brown	...	8/- (each)
Reactor " (Enamel wires)	...	1/-	TRD10 Ratio Detector Code Yellow	...	10/-
Oscillator Coil Code Black	...	2/-			

Complete circuit and details free
—See Page 5—

REPANCO

Type No.	Colour Code.	DESCRIPTION	WAVEBAND		Tuner pf.	IF Frequency.	Circuit and Sizes.	Price
			Metres.	Kc/s.				
XTA31	Blue/Mauve	Aerial Coil (SW)	75/170	4000/1765	208	—	†	7/6
XTF32	Blue/Black	HF Coil (SW)	75/170	4000/1765	208	—	†	7/6
XOT33	Blue/Brown	Oscillator (SW)	75/170	4000/1765	176	455/475Kc/s.	†	7/6
XSA34	Rod/Yellow	Aerial Coil (SW)	35/75	8560/1765	208	—	†	7/6
XSF35	Blue/Yellow	HF Coil (SW)	35/75	8560/1765	208	—	†	7/6
XOS36	Blue/Red	Oscillator (SW)	35/75	8560/1765	176	455/475Kc/s.	†	7/6
XSA37	Blue/Green	Aerial Coil (SW)	16/36	19,200/8340	208	—	†	7/6
XSF38	Blue/White	HF Coil (SW)	16/36	19,200/8340	208	—	†	7/6
XOS36	Blue/Red	Oscillator (SW)	16/36	19,200/8340	176	455/475Kc/s.	†	7/6
XMA41	Two Yellow	Aerial Coil (MW)	190/550	1580/545	208	—	†	7/6
XMF42	Two Brown	HF Coil (MW)	190/550	1580/545	208	—	†	7/6
XLA43	Two White	Aerial Coil (LW)	800/2000	375/150	208	—	†	7/6
XLF44	Two Mauve	HF Coil (LW)	800/2000	375/150	208	—	†	7/6
XO28	Two Black	Oscillator (MW/LW)	190/550	1580/545	176	455/475Kc/s.	†	6/-
			800/2000	375/150				
XT26	Two Blue	1st and 2nd IFTS	—	—	—	455/475Kc/s.	†	6/-
XT27	Two Green	Final IFT	—	—	—	—	†	6/-
XT50	Two Red	1st, 2nd IFT Double Tuned	—	—	—	455/475Kc/s.	†	6/9
XO15	Black	Oscillator	190/550	1580/545	500	455/475Kc/s.	†	5/-
			800/2000	375/150				
XO8	Red	Oscillator	190/550	1580/545	176	455/475Kc/s.	†	5/-
			800/2000	375/150				
XT7	Green	Final IFT	—	—	—	455/475Kc/s.	†	6/-
XT6	Blue	1st, and 2nd IFT	—	—	—	455/475Kc/s.	†	6/-

† All units packed with circuits. Overall size $\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$ in. Ferrite pot core assemblies in aluminium screening cans.

BRAYHEAD : FULLY SCREENED, WITH POT CORE ASSEMBLIES. PRINTED CIRCUITS AVAILABLE.

Code.	Application.	Transistor Types.	Tuner.	IF Frequency.	Size.	Circuit.	Price.
Red/Mauve	Med./Long Wave OSC.	AF117/OC169/OC170	200pf.	470Kc/s.	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{8}$ $1 \times 1 \times \frac{3}{8}$ $1 \times 1 \times \frac{3}{8}$ $\times \frac{3}{8} \times \frac{1}{2}$ in.	"Convair"	5/-
Pink/White	1st. IFT.	"	—	"		Free on request.	5/6
Pink/Green	2nd. IFT. (or Red/Green	"	—	"		request.	5/6
Green/White	Final IFT/Diode Detector	"	—	"			8/-
Green	MW/LW OSC.	OC44/XA192	190pf.	470Kc/s.		"Regent-6"	5/-
White	1st. and 2nd. IFT	OC45/XA191	—	"		Free on request.	3/-
Blue/Blue	Final IFT	OC45/XA191	—	"		request.	5/-

DENCO—Dual purpose plug-in transistor coils. (RF and aerial coils have 3 windings) For use with OC169/170/171 Transistors.

Type No.	Colour Code.	DESCRIPTION	WAVEBAND		Tuner pf.	IF Frequency.	Circuit and Sizes.	Price
			Metres.	Mc/s.				
1T	Blue	Aerial (LW)	2000/750	0.15/0.4	310	—	*	4/9
1T	Yellow	RF Coil (LW)	"	"	"	—	*	4/9
1T	Red	Oscillator (LW)	"	"	"	465/470Kc/s.	*	4/9
1T	White	Oscillator (LW)	"	"	"	1.6Mc/s.	*	4/9
2T	Blue	Aerial (MW)	580/194	0.515/1.545	"	—	*	4/9
2T	Yellow	RF Coil (MW)	"	"	"	—	*	4/9
2T	Red	Oscillator (MW)	"	"	"	465/470Kc/s.	*	4/9
2T	White	Oscillator (MW)	"	"	"	1.6Mc/s.	*	4/9
3T	Blue	Aerial (SW)	180/57	1.67/5.3	"	—	*	4/9
3T	Yellow	RF Coil (SW)	"	"	"	—	*	4/9
3T	Red	Oscillator (SW)	"	"	"	465/470Kc/s.	*	4/9
3T	White	Oscillator (SW)	"	"	"	1.6 Mc/s.	*	4/9
4T	Blue	Aerial (SW)	60/20	5/15	"	—	*	4/9
4T	Yellow	RF Coil (SW)	"	"	"	—	*	4/9
4T	Red	Oscillator (SW)	"	"	"	465/470Kc/s.	*	4/9
4T	White	Oscillator (SW)	"	"	"	1.6Mc/s.	*	4/9
5T	Blue	Aerial (SW)	28/9.5	10.5/31.5	"	—	*	4/9
5T	Yellow	RF Coil (SW)	"	"	"	—	*	4/9
5T	Red	Oscillator (SW)	"	"	"	465/470Kc/s.	*	4/9
5T	White	Oscillator (SW)	"	"	"	1.6Mc/s.	*	4/9
IFT13	—	1st, 2nd, 3rd. IFT	—	—	—	465/470Kc/s.	†	7/6
IFT14	—	Final IFT	—	—	—	—	†	7/6
IFT16	—	1st, 2nd, 3rd IFT	—	—	—	1.6Mc/s.	†	7/6
IFT17	—	Final IFT	—	—	—	1.6Mc/s.	†	7/6

* Packed with details. Size $1\frac{1}{2}$ inch \times $\frac{3}{8}$ inch diameter. Single hole chassis mounting or B9A plug in. Supplied complete with can for screening. Low loss polystyrene formers.

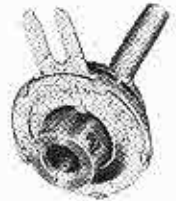
† IFT'S $\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$ inches. in screened cans.

FULL CIRCUITS AND DETAILS BOOK NO. DBT4 1/6 pp. 33.

ALL PARTS SPECIFIED ON CIRCUITS SUPPLIED WITH ABOVE COILS AND IN DBT4 CIRCUITS BOOK (Transistor Section) ARE IN STOCK

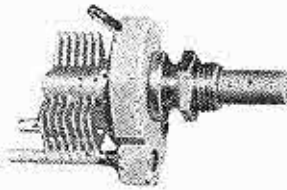
MISCELLANEOUS

6:1 reduction drive 2/6
 Spindle couplers 6d. and 1/-
 1½ in. spindle extension 1/-



SHORT WAVE TUNERS

Airsaced low loss

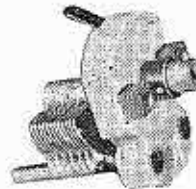
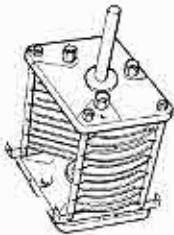


5pf : 7.5pf : 10pf : 15pf : 3/6 each
 C 804 100pf : 5/-
 C 804 150pf : 7/6
 25pf and 35pf Miniature type 3/- each

★ Jackson C808 2×25pf Split. Stator 10/-
 ★ Jackson C801 15pf 5/-

DIFFERENTIAL CAPACITOR

25×25pf.
 7/6



AIRSPACED Preset tuners

(as illustrated)

20pf, 50pf, 75pf 2/- each

TRIMMERS AND PADDERS (Postage and Packing 6d. any type)

Philips



3-8pf.
 5-30pf.
 5-40pf.
 9d. each

0/50pf Philips 1/-

Postage stamp type

Single hole 2BA fixing.
 100pf, 250pf, 1/6 each
 450pf, 750pf,
 30+30pf 1/3
 30+30+30pf 1/6

Miniature

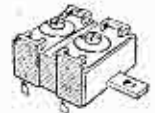
Size $\frac{3}{8} \times \frac{3}{16} \times \frac{1}{16}$ in.
 60 pf. or 80pf
 1/- each



TWIN MINIATURES

Two types in stock.

60+60pf and
 120+120pf
 1/6 each



Miniature Airspaced

10pf airspaced (illustrated
 twice full size)
 3/-



SW Ceramic

25pf 1/-
 35pf each
 45pf

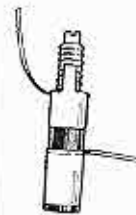
Twin Padder

200+200pf 1/6

Miniature ceramic

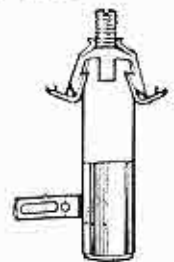
30×30 pf 1/-

Miniature Tubular Low Loss



0.5pf to 3pf

(Shown
 twice
 actual
 size)



1/- each 1pf to 8pf

AIRSPACED PRESET TRIMMERS

10pf
 20pf 1/6 each
 25pf

SPLIT STATOR PRESET

2×10pf 2/-



1000pf

Feed Through
 1/- each.

★ 5-way ceramic stand off insulator strip.

Two hole fixing.

1/6

★ QUALITY COMPONENTS AT VALUE FOR MONEY PRICES ★

(ALL DRAWINGS ARE APPROX. 1½ TIMES FULL SIZE)

FIXED CONDENSERS

See pages 35/36 for variable Condensers and Trimmers.

SUB-MINIATURE ELECTROLYTICS



PRICE
1/9
each

0.1mfd	50vw	4mfd	15vw	25mfd	6vw
0.25mfd	25vw	6mfd	15vw	25mfd	15vw
0.5mfd	50vw	8mfd	15vw	30mfd	6vw
1mfd	25vw	8mfd	30vw	30mfd	25vw
1mfd	50vw	10mfd	6vw	50mfd	6vw
2mfd	10vw	10mfd	16vw	50mfd	18vw
2mfd	15vw	10mfd	25vw	64mfd	10vw
2mfd	25vw	16mfd	15vw	100mfd	15vw
4mfd	6vw	16mfd	30vw	10mfd	16vw

0.1mfd 15vw 1/-
2mfd 1½vw 1/-
ALL SUB-MINIATURE AND MINIATURE ELECTROLYTICS ARE BRAND NEW STOCKS AND SLEEVED.

MINIATURE ELECTROLYTICS—TUBULAR WIRE ENDS



PRICE
1/6
each

1mfd	6vw	*25mfd	12vw
*1mfd	12vw	†25mfd	25vw
*1mfd	25vw	*30mfd	12vw
2mfd	100vw	*50mfd	6vw
*2mfd	25vw	†50mfd	12vw
*4mfd	50vw	50mfd	25vw
*5mfd	12vw	†100mfd	6vw
5mfd	25vw	†100mfd	12vw
*8mfd	12vw	100mfd	18vw
8mfd	70/100vw	100mfd	25vw
*10mfd	25vw	200mfd	3vw
*16mfd	12vw	†200mfd	6vw

*Size ½" x ⅛" dia.
† .. ⅜" x ⅛" ..

250mfd	12vw	2/-
250mfd	25vw	2/6
500mfd	12vw	2/-
500mfd	25vw	3/-
1000mfd	12vw	2/6
1000mfd	25vw	3/6
1000mfd	6/15vw	2/-
1500mfd	25vw	4/6
1500mfd	50vw	5/6
2500mfd	25vw	4/6
2500mfd	30vw	5/-
2000mfd	12vw	5/-
5000mfd	12vw	5/-
5000mfd	25vw	7/6

MULLARD ELECTROLYTICS AND PAPER CAPACITORS AVAILABLE FROM STOCK.

can type

MINIATURE FIXED CONDENSERS: Ceramics, Poly, Paper, Mica—exact type will vary depending upon stocks.

PRICE
6d.
each

0.5pf:	15pf:	50pf:	200pf:	560pf:	0.001mfd	0.01mfd	125vw	9d.
1pf:	18pf:	56pf:	220pf:	680pf:	0.002mfd	0.01mfd	150vw	9d.
2pf:	20pf:	68pf:	250pf:	*1000pf:	0.004mfd	0.1mfd	125vw	1/-
3.3pf:	22pf:	82pf:	300pf:	*2000pf:	0.005mfd	0.1mfd	150vw	9d.
3.9pf:	25pf:	100pf:	330pf:	*3000pf:	0.008mfd	0.25mfd	150vw	1/6
4.7pf:	27pf:	120pf:	350pf:	3300pf:		0.02mfd	150vw	9d.
6.8pf:	30pf:	150pf:	470pf:	4700pf:		0.03mfd	150vw	9d.
8.2pf:	47pf:	180pf:	500pf:	*5000pf:		0.04mfd	150vw	9d.
10pf:						0.05mfd	150vw	9d.

Voltage working at least 150vw

(*5% or better 1/- each)

SUB-MINIATURE DISC CERAMICS—low voltage 9d. each

3.3pf:	22pf:	470pf:	0.01mfd	12vw
4.7pf:	33pf:	680pf:	0.02mfd	12vw
10pf:	47pf:	1500pf:	0.1mfd	3vw
15pf:	150pf:	2200pf:	0.1mfd	25vw
18pf:	220pf:	4700pf:	0.025mfd	30vw
			0.01mfd	50vw

IDEAL FOR MODEL CONTROL AND ALL MINIATURE EQUIPMENT

MINIATURE CERAMICS

1500pf TAPPED AT 1000pf AND 500pf ... 1/6
1000pf TAPPED AT 500pf 1/-

★ LARGE RANGE OF MULLARD ELECTROLYTICS AVAILABLE

NOTE

ON ALL CONDENSERS LISTED THE VOLTAGE WORKING (vw) QUOTED IS MAXIMUM WORKING. THEY CAN OF COURSE BE USED AT ANY VOLTAGE UP TO THE QUOTED VALUE.

STANDARD CONDENSERS

0.1mfd	150vw	6d.	1mfd	450vw	1/6	8+16mfd	350vw	2/-
0.1mfd	350vw	6d.	2mfd	150vw	1/6	*16+16mfd	350vw	3/-
0.1mfd	500vw	9d.	4mfd	200vw	1/-	16+16mfd	450vw	3/-
0.25mfd	350vw	1/6	4mfd	350vw	1/-	*16+16mfd	450vw	5/-
0.25mfd	150vw	1/-	8mfd	100vw	1/6	32+32mfd	275vw	2/-
0.5mfd	150vw	1/6	8mfd	150vw	1/-	32+32mfd	350vw	4/-
0.5mfd	350vw	2/-	8mfd 250	350vw	2/-	*32+32mfd	450vw	5/-
0.01mfd	150vw	9d.	8mfd	450vw	2/-	40+40mfd	325vw	3/-
0.01mfd	350vw	6d.	12mfd	150vw	1/-	60+40mfd	350vw	3/-
0.01mfd	1000vw	1/-	16mfd	350vw	2/-	60+250mfd	350vw	12/6
0.02mfd	350vw	6d.	16mfd	450vw	2/-	64+100mfd	450vw	12/6
0.05mfd	200vw	9d.	16mfd	500vw	2/6	64+120mfd	350vw	12/6
0.001mfd	400vw	6d.	20mfd	50vw	1/-	100+200mfd	350vw	12/6
0.25mfd	500vw	2/-	32mfd	450vw	5/-			
0.1mfd	250vw	6d.	40mfd	100vw	2/-			
1mfd	250vw	2/-	50mfd	50vw	1/6			
			80mfd	250vw	3/-			

†16mfd	500vw	4/6
†32mfd	500vw	5/-
†47mfd	350vw	5/6
†65mfd	225vw	6/-
†100mfd	450vw	6/6

†Single hole fixing as illustrated below.



*Upright chassis mounting

★ TCC TANTALUM CAPACITORS ★

Tolerance ± 20%. For use up to 125°C. Reversible type i.e. non-electrolytic.

- TA30AR 1" x ¼" diam. 8mfd. 6 vw. 3/-
- TA34AR 1½" x ⅜" diam. 16mfd. 6 vw. 3/6

BLOCK TYPE PAPER CONDENSERS

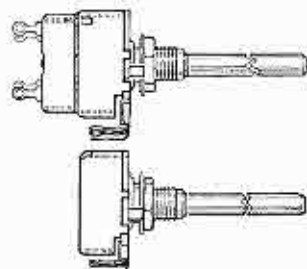
2mfd	650vw	2/6
4mfd	600vw	3/6
1mfd	800vw	2/6
1mfd	400vw	2/6

CONTROLS

MINIATURE, STANDARD AND PRESETS

(Postage and Packing 6d. any type)

STANDARD CARBON TRACK CONTROLS



Log less Switch
 5K : 10K : 25K :
 50K : 100K : 250K :
 500K : 1 MEG : 2 MEG
 3/6 each

Linear less Switch
 5K : 10K : 25K :
 50K : 100K : 250K :
 500K : 1 MEG : 2 MEG
 3/6 each

Log with Double Pole Switch
 5K : 10K : 25K :
 50K : 100K : 250K :
 500K : 1 MEG : 2 MEG
 4/6 each
 (Switch contacts up to 250 volt 2 Amp.)

All Types approximately $\frac{7}{8}$ inch diameter \times $\frac{3}{8}$ inch deep and fitted with $\frac{1}{8}$ inch diameter standard spindles about $2\frac{1}{2}$ inches long.

GANGED CONTROLS

★ 10K+10K log ... 9/6
 ★ 50K+50K Log ... 6/-
 ★ 250K+250K Lin with switch 7/6

★ 50K+50K Lin ... 9/6
 ★ 25K+25K Lin ... 9/6

★ 250K+250K Log ... 6/-
 ★ 1 Meg + 1Meg Log ... 6/-
 ★ 500K+500K Log ... 6/-



VC 1545*

5K Semi-Log with Switch
 $\frac{5}{8} \times \frac{7}{8}$ inch diameter
 5/3



VC 100

10K Semi-Log with Switch
 $\frac{5}{8} \times \frac{7}{8}$ inch diameter
 5/6
 5K semi-log with Switch
 5/6



VC 1041*

$\frac{1}{2} \times \frac{3}{8}$ inch diameter
 5K less Switch 2/6
 20K less Switch 2/6
 5K with Switch 3/6
 10K less Switch 2/6



VC 1760*

5K Semi-Log with Switch
 $\frac{1}{2} \times \frac{3}{8}$ inch diameter
 7/6
 50K semi-log with Switch
 as above 8/6



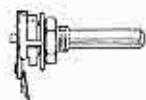
K4. 16

5K Semi-Log with
 Switch $\frac{7}{8} \times \frac{3}{8}$ inch
 diameter
 3/6

QUALITY EDGE TYPE CONTROLS

MINIATURE SPINDLE

Semi-Log

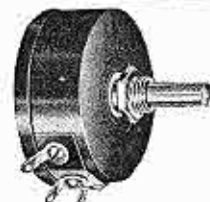


Without Switch
 1K : 2.5K : 5K : 10K :
 25K : 50K : 100K
 2/6 each

WIREWOUND CONTROLS AND PRESETS

6 ohm : 200 ohm : 500 ohm :
 1K : 2K : 5K : 25K : 50K : 100K
 2/6 each

Preset Type
 100 : 500
 2K : 5K : 10K 3/- each



CARBON TRACK SLIDER PRESETS

Size $1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$ inch 3 values
 1.5K, 2.7K and 47K in stock

Price 2/- each



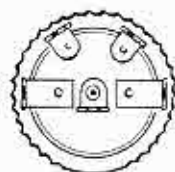
RADIO SPARES TYPE SKELETON PRESETS

5K and 20K Ohm
 1/6 each.

MINIATURE EDGE TYPE CONTROLS

● Fitted ON/OFF Switch
 5K : 50K : 100K
 5/- each

● 50K without Switch
 3/6 each



All types about $\frac{3}{8}$ inch diameter and $\frac{1}{8}$ inch thick, Semi-Log Track.

SUB-MINIATURE CARBON TRACK PRESET CONTROLS

2.5K : 5K : 50K : 250K
 ALL VALUES 2/- each

50, 100, 250, 330, 500 ohm :
 1K : 2.5K : 5K : 10K : 15K : 20K
 25K : 100K : 250K : 500K
 1 MEG : 2 MEG

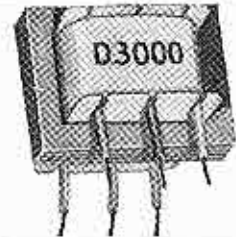
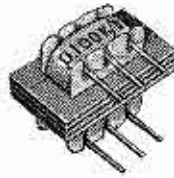


"G" TYPE $\frac{1}{8}$ " diam.
 (Shown $1\frac{1}{2}$ times full size)

ALL VALUES 2/- each.

● STANDARD AND MINIATURE COMPONENTS OF ALL TYPES ●

TRANSFORMERS AND CHOKES FOR TRANSISTOR CIRCUITS



ARDENTE

Type No.	Ratio	Centre Tapped Primary(P) Sec.(S)	Primary Induct' ce	Approx. D.C. Resistance		Size (inches)	Description and/or Application	Retail Price	Postage and Packing
				Primary (ohms)	Secondary (ohms)				
D129 D129/T	10:1	—	70H	4.5K	85	$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$ in.	Crystal microphone input (500 Kohm) to transistor	8/-	6d.
D189	3.66:1	—	14H	1.2K	115	$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$ in.	Transistor interstage	8/-	6d.
D167	18.2:1	—	0.6H	185	0.35	$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$ in.	40mW output to 3 ohm, XC101, OC72	8/-	6d.
D239	4.5:1	—	20H	1.4K	250	$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$ in.	Transistor interstage	8/-	6d.
D240	8.5:1	—	25H	1.5K	150	$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$ in.	Transistor interstage	8/-	6d.
D262	10:1	—	0.5H	110	0.75	$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$ in.	40mW output to 8/10 ohms, XC101, OC72, XC163, OC81, ect.	8/6	6d.
D1001	5:1	—	12H	2K	180	$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$ in.	Transistor interstage	8/-	6d.
D3058 *	11.5:1	—	0.25H	80	0.36	$1 \times \frac{3}{4} \times \frac{7}{8}$ in.	60mW output to 30 ohm, XC121, XC161	9/6	6d.
D3026 *	1.6:1	CT (S)	1.8H	200	300	$1 \times \frac{3}{4} \times \frac{7}{8}$ in.	500mW push-pull driver for D3027	9/6	6d.
D3053 *	2.75:1	CT (S)	1.3H	130	90	$1 \times \frac{3}{4} \times \frac{7}{8}$ in.	500mW push-pull driver for D3027	9/6	6d.
D3027 *	9.2:1	CT (P)	0.15H	10	0.3	$1 \times \frac{3}{4} \times \frac{7}{8}$ in.	500mW to 3 ohm push-pull output, for XC131, XC121, OC81	9/6	6d.
or D3027/T D3028 *	4.3:1+1	3 Wdgs.	1H	90	43+43	$1 \times \frac{3}{4} \times \frac{7}{8}$ in.	400mW single ended push-pull, XC121, OC78	9/6	6d.
D3052 *	5.5:1+1	3 Wdgs.	2H	190	45+45	$1 \times \frac{3}{4} \times \frac{7}{8}$ in.	500mW single ended push-pull, XC131, XC171, OC81	9/6	6d.
D3034 *	1.75:1	CT (S)	1.4H	220	90	$1 \times \frac{3}{4} \times \frac{7}{8}$ in.	300mW push-pull interstage XC101, OC72	9/6	6d.
D3327 *	9.2:1	CT (P)	0.35H	10	0.3	$1 \times \frac{3}{4} \times \frac{7}{8}$ in.	700mW push-pull output for XC171, OC81 higher inductance D3027	10/6	6d.
or D3327/T D3035 *	7.3:1	CT (P)	0.15H	10	0.3	$1 \times \frac{3}{4} \times \frac{7}{8}$ in.	300mW push-pull output XC101, OC72 to 3 ohm	9/6	6d.
D3011 *	4.9:1	CT (P)	0.2H	15	0.8	$1 \times \frac{3}{4} \times \frac{7}{8}$ in.	500mW push-pull output XC131, XC171 to 8/10 ohm	9/6	6d.

For all above types: Primary Connections Yellow and Blue; Secondaries Green and Red; Centre Taps White.
* Supplied complete with Fixing Clamps.

COLNE ELECTRIC

Type No.	Ratio	Centre Tapped Primary(P) Secondary(S)	Approximate D.C. Resistance		Size (inches)	Description and/or Application	Retail Price	Postage and Packing
			Primary (ohms)	Secondary (ohms)				
06033	1.75:1	CT (S)	100	60	$1\frac{1}{8} \times 1\frac{1}{4} \times 1\frac{1}{2}$ in.	1 watt Push-pull interstage for XC171, OC81, Etc.	10/6	6d.
06034	6.2:1	CT (P)	2	0.2	$1\frac{1}{8} \times 1\frac{1}{4} \times 1\frac{1}{2}$ in.	1 watt Push-pull output to 3 ohm (Mullard types 06005 and 06006 respectively)	10/6	6d.
05008	1:1	CT (S)	20	20	$2\frac{3}{8} \times 1\frac{1}{2} \times 1\frac{3}{8}$ in.	2 watt Push-pull interstage (1H primary inductance). GEC circuits etc.	12/6	9d.
04059	6.4:1	CT (P)	2	0.2	$2\frac{3}{8} \times 1\frac{1}{2} \times 1\frac{3}{8}$ in.	2 watt Push-pull output to 30 ohms (50mH inductance) GEC circuits etc.	12/6	9d.
05009	3:1+1	3Wdgs.	18	$8\frac{1}{2} + 8\frac{1}{2}$	$2\frac{3}{8} \times 1\frac{1}{2} \times 1\frac{3}{8}$ in.	3 watt driver for GEC circuit (for I2/I5ohm)	15/-	1/6.
06040*	Tapped	Choke	Total	700	$1\frac{1}{2} \times 1\frac{1}{2} \times 1$ in.	(Or 08001) (or 12018 printed cct version)	15/-	116
06041*	2:1+1	CT (P)	150	20+20	$1\frac{3}{8} \times 1\frac{1}{2} \times 1\frac{1}{2}$ in.	(Or 08002) Push-pull driver	15/-	9d
06043*	3.8+3.8:1 And 3:1	CT (S) (4 wdgs)	3 2	0.2	$2\frac{1}{2} \times 1\frac{3}{8} \times 1\frac{3}{8}$ in.	(Or 08003) Push-pull output 1 watt to 3 ohms.	19/6	1/-
11026* (Or 06039)	and 11027 (Or 06042) SEE POT CORES ON PAGE 48.							

* See GEC Circuit and Bernards Book No. 179 (5/- pp. 6d.) For Transistor Tape Recorders.

● WE CAN ADVISE AS TO THE CORRECT TYPE TO USE IN YOUR CIRCUIT ●

Type No.	Ratio	Centre Tapped Primary(P) Secondary(S)	Approximate D.C. Resistance		Size (inches)	Description and/or Application	Retail Price	Postage and Packing
			Primary (ohms)	Secondary (ohms)				
TT4 *	1:1	CT (S)	300	220	1 1/2 x 1 1/2 x 1 in.	300mW Push-pull Interstage	8/6	6d.
TT5 *	15:1	CT (P)	70	0.3	1 1/2 x 1 1/2 x 1 in.	300mW Push-pull output to 3 ohms	8/-	6d.
TT9	1:1	CT(S)	200	160	1 1/2 x 1 1/2 x 1 in.	200m " " Interstage	10/-	6d.
TT11*	3.2:1	—	20	3	1 1/2 x 1 1/2 x 1 in.	2-watt Car Radio interstage	10/-	9d.
TT12*	3.75:1	—	3	0.3	2 1/2 x 1 1/2 x 1 in.	2 watt Car Radio output to 3 ohms (12 volt)	12/6	1/-
TT13*	—	—	1	Low	2 1/2 x 1 1/2 x 1 in.	2 watt Car Radio output to 3 ohms (6 volt)	12/6	1/-
TT14	4.5:1	—	250	65	1 1/2 x 1 1/2 x 1 in.	Transistor interstage	12/6	6d.
TT20*	23:1	—	150	0.5	1 1/2 x 1 1/2 x 1 in.	For Hybrid Car Radio. Valve to transistor	17/6	9d.
TT21*	2:1	CT (S)	100	300	1 1/2 x 1 1/2 x 1 in.	500mW Push-pull interstage	15/-	9d.
TT22*	9:1	CT (P)	4	0.3	1 1/2 x 1 1/2 x 1 in.	500mW Push-pull output to 3 ohms	15/-	9d.
TT23*	2:1	CT (S)	3.5	4	2 1/2 x 2 x 2 1/2 in.	10 watts Push-pull interstage	22/6	1/3
TT24*	2.6:1	CT (P)	1.2	0.4	2 1/2 x 2 x 2 1/2 in.	10 watts Push-pull output to 3 or 15 ohms	22/6	1/3
TT25*	20:1	—	35	200	1 1/2 x 1 1/2 x 1 in.	Moving Coil Microphone to transistor	8/-	6d.
TT29	2 1/2 x 2 1/2 :1	3 Wdgs.	250	46 x 46	1 1/2 x 1 1/2 x 1 in.	Single Ended Push-Pull 35 Ohm.	9/6	9d.
TT39*	3.1:1	—	0.3	0.2	1 1/2 x 1 1/2 x 1 in.	Matching 35 ohms output to 3 ohms	7/6	6d.
AF1	CHOKE	—	650	—	1 1/2 x 1 1/2 x 1 in.	10 Henry Choke. 3 H at 12 mA.	4/6	6d.
AF2	TAPPED	CHOKE	—	—	1 1/2 x 1 1/2 x 1 in.	—	6/-	6d.
TT45†	9:1	CT (S)	260	40	1 1/2 x 1 1/2 x 1 in.	Miniature Push-pull driver	6/-	6d.
TT46†	8:1	CT (P)	60	0.3	1 1/2 x 1 1/2 x 1 in.	Miniature Push-pull output to 3 ohms	6/-	6d.
TT47	4 + 4:1	3 Wdgs.	250	20 + 20	1 1/2 x 1 1/2 x 1 in.	Single ended Push-pull for 25/80 ohms	6/-	6d.
TT49†	4.5:1	—	150	45	1 1/2 x 1 1/2 x 1 in.	Interstage transformer	6/-	6d.
TT51*†	15 watt	Transistor converter,	12 volts	D. C. to 240 volts	—	A.C.— with circuits etc.	32/6	1/3
TT52†	1:20	—	1	350	—	Speaker input for intercomm	5/-	6d.
TT53†	25:1	—	5000	40	—	Crystal pickup or mic. input transformer	6/-	6d.
TT55	5:1	CT(S)	200	27	1 x 1 x 1 in.	2watt Push-Pull Driver	12/6	9d.
TT56	8.2:1	CT(P)	1.6	0.14	1 1/2 x 1 1/2 x 1 in.	2 watt " " Output to 3 Ohm	12/6	9d.



OTHER TYPES IN STOCK : WEYRAD—FORTIPHONE—GARDENERS—OSMOR—BECLERE ETC.

Type No.	Ratio	Centre Tapped Primary(P) Secondary(S)	Approximate D.C. Resistance		Size (inches)	Description and/or Application	Retail Price	Postage and Packing
			Primary (ohms)	Secondary (ohms)				
OPTI	—	CT(P)	2	0.2	1 1/2 x 1 x 1 in.	Weyrad push-pull output to 3 ohm	9/6	9d.
LFDT4	3.5:1 + 1	3 Wdgs.	150	50 + 50	1 x 1/2 x 1/2 in.	Weyrad single ended Push-pull to 25/35 ohms (Replaces LFDT2)	9/6	6d.
ENI807	4 1/2:1	CT (S)	200	90	1 x 1/2 x 1/2 in.	Push-pull interstage primary Green/Red ct. White	7/-	6d.
EN2082	3.5:41	3 wdgs.	140	30 + 30	1 x 1/2 x 1/2 in.	Single ended Push-pull for 25/35 ohms	8/-	6d.
PT1*	1.65 + 1.65:1	CT (P)	0.5	0.1	3 1/2 x 2 1/2 x 3 in.	For Mullard Swact amplifier class A. Push-pull for OC22's to 3 ohm.	30/-	1/6
T22	4 1/2:1	CT (S)	1000	250	1/2 x 1/2 x 1/2 in.	Push-pull interstage primary Red/Red. Wire is centre tap.	7/-	6d.
OL130	30:1	—	700	3	1 x 1/2 x 1/2 in.	To match speaker to transistor input	2/6	6d.
LT44	4.47:1	CT (S)	2000	70	1 3/8 x 1 1/8 x 1 1/2 in.	Miniature Push-pull driver	4/-	6d.
LT700	19.4:1	CT (P)	82	0.27	1 3/8 x 1 1/8 x 1 1/2 in.	Miniature Push-pull driver output to 3 ohms	4/-	6d.
C902	3.5:1 + 1	3 Wdgs.	140	30 + 30	1 x 1/2 x 1/2 in.	Single ended Push-pull output to 75/80 ohms or 25/35 ohms	6/6	6d.
TP9A	4.5:1	—	600	200	1/2 x 1/2 x 1/2 in.	Miniature interstage fully potted. Primary Red/Red	7/6	6d.
T9A	4.5:1	—	600	200	1/2 x 1/2 x 1/2 in.	Miniature interstage printed circuit. Primary Red/Yellow	5/6	6d.
PWDT	—	CT (S)	100	140	1 x 1/2 x 1/2 in.	Push-pull driver for PW and Osmor designs Primary Brown/Blue. Secondary ct. Red.	8/-	6d.
PWOT	—	CT (P)	6	0.3	1 x 1/2 x 1/2 in.	Push-pull output to 3 ohms for PWDT. Primary Green/Yellow. ct. Red	8/3	6d.
QXO2	—	CT (P)	2	0.2	1 1/2 x 1/2 x 1 1/2 in.	1 watt push-pull to 3 ohm	8/3	1/3
QXD1	—	CT (S)	130	100	1 x 1/2 x 1/2 in.	Driver for above	8/-	6d.
GR3342	Choke	—	6.5	—	2 1/8 x 2 1/8 x 2 1/8 in.	300mA 1.5H. LT choke	17/6	6d.
FORT	Choke	—	50	—	—	IH miniature Filter choke	6/-	6d.

* Circuit in Bernards Book No. 176 (6/- pp. 6d.)

LOW VOLTAGE TRANSFORMERS

For Transistorised Power Supplies.

(See page 28 for suitable miniature rectifiers)

★ MT3AT	3½ × 2½ × 3½ inches	0/12/15/20/24/30	up to 2Amp.	Chassis mounting	...	...	23/6	pp. 2/-
★ MT98	1½ × 1½ × 1 inches	9-0-9 volt	up to 80mA	"	"	"	9/6	pp. 9d
★ PS24	3½ × 3½ × 2½ inches Fully shrouded.	17 volt RMS output at To give 24 volt DC supplies.	1½Amp.	"	"	"	29/6	pp. 2/-
★ PS40/A	3½ × 3½ × 2½ inches Fully shrouded.	30 volt RMS at 800mA, to To give 40 volt DC supplies.		"	"	"	29/6	pp. 2/-
★ PS245	2½ × 2½ × 1½ inches Fully shrouded.	18 volts RMS at 500mA. To give 24/28 volt DC supplies.		"	"	"	19/6	pp. 1/6
★ PS402/4	2½ × 2½ × 1½ inches Fully shrouded.	32 volt RMS at 400mA. To give 40/45 volt DC supplies		"	"	"	19/6	pp. 1/6
★ RADIO_SPARES	20-12-0-12-20	volt 700mA OR 0-32-40 volt		"	"	"	27/6	pp. 1/6

RESISTORS (post and packing 3d. per dozen)

'HI-STAB' 5 Per Cent SUB-MINIATURE RESISTORS ½/¼ WATT

10	1K	12K	180K
22	1.2K	15K	220K
39	1.5K	18K	270K
47	1.8K	22K	330K
68	2.2K	33K	390K
91	2.7K	39K	470K
100	3.3K	47K	560K
150	3.9K	56K	680K
220	4.7K	68K	1meg
330	5.6K	82K	
470	6.8K	100K	Size
560	8.2K	120K	½" × ¼" diam.
680	10K	150K	

6d. each

STANDARD MINIATURE

¼/½ watt Resistors 10%

3.3	120	1.2K	12K	120K	2.2 Meg
3.9	150	1.5K	15K	150K	3.3 "
4.7	180	1.8K	18K	180K	3.9 "
5.6	220	2.2K	22K	220K	4.7 "
10	270	2.7K	27K	270K	6.8 "
15	330	3.3K	33K	330K	10 "
39	390	3.9K	39K	390K	
47	470	4.7K	47K	470K	3d. each
56	560	5.6K	56K	560K	
68	680	6.8K	68K	680K	
82	820	8.2K	82K	820K	
100	1K	10K	100K	1 meg	

'HI-STAB' 5 PER CENT MINIATURE RESISTORS

½/1 Watt Rating

10	680	5.6	47K	560K
22	1K	6.8K	56K	680K
33	1.2K	8.2K	68K	1 meg.
47	1.5K	10K	82K	
68	1.8K	12K	100K	Size
100	2.2K	15K	120K	½" × ¼" dia.
150	2.7K	22K	150K	
220	3.3K	27K	220K	8d. each
330	3.9K	33K	330K	
470	4.7K	39K	470K	

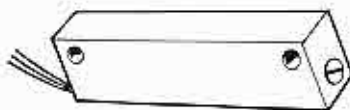
PRECISION WIREWOUND GEARED PRESET CONTROLS

Gearing approximately 46 turns of end screw to cover full track. Low noise.

★ SIZE AVAILABLE ★
10/- each 30kohm

Note: A limited number of the following values are available at 10/- each. 25 ohm, 100 ohm, 250 ohm, 1K, 5K, 10K, 20K and 25K ohm.

Fully sealed with 3-lead out wires and two hole fixing. Overall size 1½ × ¼ × ¾ inches. Made by M.E.C. Ltd.



(Shown larger than actual size)

RIVOLO PRECISION RESISTORS

5/- each

59K	± 0.1%
250K	± 0.25%
500K	± 0.25%
800K	± 0.25%
1 Meg	± 0.25%

CAR SUPPRESSOR



- SCREWS INTO IGNITION COIL 1/6 p.p. 6d.
- CAR RADIO FUSE HOLDER 1/6 p.p. 6d.

MAINS DROPPERS

- ★ 0.2 Amp 1K ohm
- ★ 0.3 Amp 750 ohm

TWO FIXED CONNECTIONS AND TWO SLIDERS FOR TAPS

4/6 each p.p. 9d.

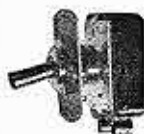
- ★ 1.2 Ohm wire wound with slider, 50 watts 2/6
- ★ 1K ohm w/w 2½ × ½ × ¼ in. 1/-

All parts in stock for designs published in Radio Control Models, Radio Constructor, Practical Wireless, Wireless World, R S G B, Shortwave Magazine, Practical Electronics, Hi-Fi News, etc.

Let us quote for components.

SWITCHES

(Postage and packing 6d. any type unless stated)



TOGGLE SWITCHES

Single pole ON/OFF	.. ..	2/-
1 Pole, 2 Way	.. ..	2/6
2 Pole, 2 Way	.. ..	3/-
2 Pole, ON/OFF	.. ..	2/6
ON/OFF Biased	.. ..	2/-

All mains Voltage Ratings.	2 Pole 2 way with centre off	.. ..	3/6
	2 Pole ON/OFF Rotary type	.. ..	6/6
	(Radio Spares)		

WAFER SWITCHES (Fitted standard 1/4 in. spindle diam.)

1 Pole, 2 Way	.. ..	1/6
2 Pole, 2 Way	.. ..	2/6
2 Pole, 3 Way	.. ..	2/6
2 Pole, 4 Way	.. ..	3/-
2 Pole, 6 Way	.. ..	3/6
1 Pole, 8 Way	.. ..	2/6
1 Pole, 12 Way	.. ..	3/6
3 Pole, 3 Way	.. ..	3/-
4 Pole, 2 Way	.. ..	3/6
4 Pole, 3 Way	.. ..	3/6
3 Pole, 4 Way	.. ..	3/6
4 Pole, 4 Way	.. ..	4/6



SLIDE SWITCHES

Single pole ON/OFF	.. ..	2/-
2 Pole, 2-way (As illustrated)	.. ..	2/6
2 Pole 2-way sub-min.	.. ..	2/-
2 Pole 2-way standard	.. ..	2/6
2 Pole on/off standard	.. ..	2/6



★ 6 Pole 2 way push-on release off switch. 2-hole fixing. Size 1x1x1 inch. Price 6/- pp. 6d.

★ 2 Pole 2 way push-on release off. Size 3x1/2x1/2 inch. Price 2/- pp. 6d.

★ Min. Wafer Switch Single Pole Shorting Pairs 6-way 2 Banks Price 4/6

MINIATURE PRESS BUTTON SWITCH UNIT

As illustrated.

5/- p.p. 6d.

Two buttons have 3 pole 2 way contacts. Third has 2 pole ON/OFF push on release off. i.e. 6 Pole 2 way and 2 pole changeover.



★ 2-button 4 pole 2 way version 6/- pp. 6d. Size 2x1 1/2 x 3/8 inch.

PUSH-BUTTON SWITCHES

Single hole fixing for metal or wood panels (state which)
ON/OFF 2/-

PRESET TYPE

Ultra sub-miniature 3/8" x 3/8"
1 Pole, 4-way preset .. 1/-



MINIATURE WAFER SWITCHES ALL ENCLOSED

(3/8 in. diam. 1/4 in diam. spindle).
1 Pole 3 way 2/6 2 Pole 6 way 4/6
1 Pole 12 way 4/6

EDGE TYPE

3/8 inch diameter—similar in appearance to Edge Type volume controls (see page 39)
1 Pole, 4-way .. 2/-

MICRO SWITCHES

Size 2 1/2 x 2 3/8 inch overall
Ball type 1 Pole, 2-way 2/6
Push type 1 Pole, 2-way Each

RECTIFIERS

SEE DIODE AND RECTIFIER SECTION ON PAGES 25 AND 26. SILICON AND GERMANIUM TYPES

RM1	.. ..	2 x 1 1/2 inch diameter	.. ..	125 volts max. input	.. ..	60mA max. output current half-wave	.. ..	4/6
RM2	.. ..	2 x 1 1/2	.. ..	125	.. ..	100mA	.. ..	5/-
RM3	.. ..	2 x 1 1/2	.. ..	125	.. ..	120mA	.. ..	7/6
RM4	.. ..	5 x 1 1/2	.. ..	250	.. ..	250mA	.. ..	15/-

RM1, 2 and 3 are generally used as two in series for 200/250 volts.

CONTACT COOLED (AS ILLUSTRATED)

250 volt max. input	.. ..	30mA	1 1/2	1 1/8	3/8 inch	.. ..	Half-wave	.. ..	5/-
250	.. ..	50mA	1	1 1/8	3/8	.. ..	.. ..	.. ..	7/-
250	.. ..	60mA	1 1/2	1 1/8	3/8	.. ..	.. ..	.. ..	8/-
250	.. ..	85mA	1 1/2	1 1/8	3/8	.. ..	.. ..	.. ..	9/-
250	.. ..	200mA	4 1/2	2	1 1/8	.. ..	Full-wave	.. ..	17/6
250	.. ..	300mA	6 1/2	2 1/2	1 1/8	.. ..	Full-wave	.. ..	21/-
250	.. ..	75mA	1 1/2	1 1/8	3/8	.. ..	Bridge connected	.. ..	9/-
250	.. ..	120mA	2 1/2	1 1/2	1 1/8	.. ..	.. ..	.. ..	11/-



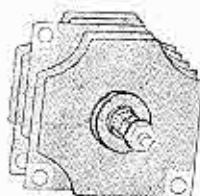
Contact cooled rectifier

FINNED TYPE

Type 14A06	.. ..	3 3/8 x 2 1/2 x 2 1/2 inch	.. ..	240 volt max. input	.. ..	200mA half-wave output	.. ..	17/6
Type 14A100	.. ..	3 3/8 x 2 1/2 x 2 1/2	.. ..	270	.. ..	200mA	.. ..	22/6
STC LU549A	.. ..	4 1/2 x 1 inch diameter	.. ..	280	.. ..	75mA	.. ..	5/-
G.E.C.	.. ..	1 3/8 x 1 3/8 x 1 1/2 inch	.. ..	24/28	.. ..	250mA	.. ..	3/-

BATTERY CHARGER RECTIFIERS

6/12 volt	1 Amp	Half-wave	4/-
6/12 volt	1 Amp	Bridge (FW)	7/6
6/12 volt	2 1/2 Amp	Bridge (FW)	7/6
6/12 volt	4 Amp	Bridge (FW)	15/-
6/12 volt	5 Amp	Bridge (FW)	17/6
6/12 volt	6 Amp	Bridge (FW)	19/6

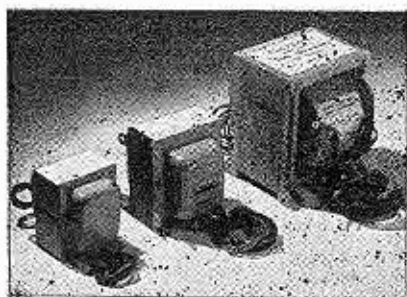


METER RECTIFIERS

1mA	Bridge connected	9/6
5mA	.. ..	9/6
10mA	.. ..	9/6
M3	Half-wave	1/6
WX6	.. ..	1/6
W6	.. ..	1/6

OTHER TYPES IN STOCK

N3/160 4kv. (12kv pulse)	1mA 10kv PIV	12/6
K3/160 4kv (12kv pulse)	1mA 10kv PIV	12/6
J20	.. ..	5/-
J176 15kv 2mA	.. ..	10/-
36 EHT 150	.. ..	12/6
K3/200	.. ..	15/-
H1	.. ..	3/6

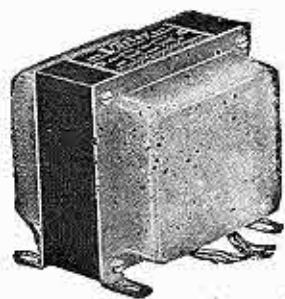


SEE PAGE 42 FOR TRANSISTOR POWER SUPPLY TYPES

MAINS TRANSFORMERS

ALL STANDARD MAINS INPUT

HT AND LT



Model	Dimensions	H.T.	L.T.	Output	Mounting	Price	Postage & Packing
MT161	3 × 3½ × 2½ inches	250-0-250 volt	6.3 volt	60mA 2 Amp.	Fully shrouded chassis mounting	25/6	2/-
MT1330	3 × 3½ × 2½ inches	250-0-250 volt	6.3 volt T.5 volt	60 mA 3 Amp.	Chassis mounting Fully shrouded	22/6	2/-
MT1331	3 × 3½ × 2½ inches	350-0-350 volt	6.3 volt 5 volt 4 volt	80 mA 3 Amp. 2 Amp. 3 Amp.	Chassis mounting Fully shrouded	22/6	2/-
MT1AT	3½ × 3½ × 2½ inches	250-0-250 volt	4 volt 6.3 volt 0/4/5 volt 6.3 volt	80 mA 4 Amp. 3½ Amp. 2 Amp. 1 Amp.	Drop through or Chassis mounting	23/6	2/-
MT2AT	3½ × 4 × 2½ inches	350-0-350	4 volt 6.3 volt 0/4/5/ volt 6.3 volt	80 mA 4 Amp. 3½ Amp. 2 Amp. 1 Amp.	Drop through or Chassis mounting	23/6	2/-
MT146	3 × 3½ × 2½ inches	350-0-350 volt	6.3 volt CT	80 mA 3 Amp. 2 Amp.	Chassis mounting Fully shrouded	25/-	2/-
HTSW2	3 × 2½ × 2½ inches	25-0-250 volt	6.3 volt 6.3 volt	Centre Tap, 100 mA 3 Amp. 2 Amp. 1 Amp.	Chassis mounting	20/-	2/-
MT9	3½ × 3½ × 3 inches	280-0-280	6.3 volt 5 volt 6.3 volt	120 mA 3.5 Amp. 2 Amp. 1 Amp.	Drop through or Chassis mounting	27/6	2/-
MT10	3½ × 3½ × 3 inches	250-0-250	6.3 volt 5 volt 6.3 volt	120 mA 3.5 Amp. 2 Amp. 1 Amp.	Drop through or Chassis mounting	29/6	2/-
MT7	3½ × 3½ × 3½ inches	350-0-350	6.3 volt 5 volt 6.3 volt	80mA 3.5 Amp. 2 Amp. 1 Amp.	Drop through	29/6	2/-
MT8	3½ × 3½ × 3½ inches	350-0-350	6.3 volt 6.3 volt 6.3 volt 5 volt	120 mA 3½ Amp. 1 Amp. 2 Amp.	Drop through or Chassis mounting	35/-	2/-
P1	2½ × 2 × 2½ inches	220 volt	6.3 volt	45 mA 1.5 Amp.	Fully shrouded Chassis mounting	14/6	1/6
P2	2 × 2 × 1½ inches	220 volt	6.3 volt	30 mA 1.5 Amp.	Chassis mounting Isolation trans.	10/-	1/-

BOOSTER TRANSFORMERS

BT1	2½ × 2 × 2½ inches	2 volt with 25 per cent. and 50 per cent boost	Chassis mounting	12/6	1/-
BT2	2½ × 2 × 2 inches	6.3 volt with 25 per cent. and 50 per cent. boost	Chassis mounting	12/6	1/-
BT3	2½ × 2 × 2 inches	13 volt with 25 per cent. and 50 per cent. boost	Chassis mounting	12/6	1/-
BT5	2½ × 2 × 2 inches	Universal type 2/6.3/13 volt with 25 per cent. boost on all taps	Chassis mounting	15/-	1/-

AUTO TRANSFORMERS

AT15	3 × 3 × 2½ inches	0/110/250 volt	15 watts	Sprayed metal box	12/6	1/-
AT60	2 × 2½ × 3 inches	0/105/115/120/250 volt	60 watts		15/-	2/-
AT92	4 × 3½ × 4 inches		100 watts	Chassis mounting	22/-	2/-

CHARGER TRANSFORMERS —

CT1	2½ × 2 × 1½ inches	{ 0/3.5/9/17 volt output to charge 2/6/12 volt batteries }	1 Amp.	Chassis mounting	10/6	1/6
CT2	3 × 2½ × 2½ inches		2 Amp.	" "	15/-	2/6
CT3	3 × 2½ × 2½ inches		4 Amp.	" "	17/6	2/6
CT4			6 Amp.	" "	27/6	3/-

HEATER TRANSFORMERS

H1	2 × 2 × 1½ inches	6.3 volt output	1½ Amp.	" "	7/6	1/-
H2	2½ × 2 × 2 inches	6.3 volt output	3 Amp.	" "	10/-	1/-

VALVE OUTPUT TRANSFORMERS AND CHOKES

★ MULTI-RATIO OUTPUT TRANSFORMER TYPE MR/7

Rating 10 watts. Max. Primary Current Each Half, 80mA.
Size : 2½" high x 3" wide x 2½" deep. Fixing centres 3⅝".

Single Ended Ratios Primary LoadΩ			Push-Pull Ratios Primary LoadΩ				
For Speaker Impedance			For Speaker Impedance				
Ratio	2/3Ω	7.5Ω	15Ω	Ratio	2/3Ω	7.5Ω	15Ω
9 : 1	200	600	1200	13 : 1	420	1260	2500
13 : 1	420	1260	2500	15 : 1	600	1800	3600
15 : 1	600	1800	3600	19 : 1	900	2700	5400
19 : 1	900	2700	5400	22 : 1	1200	3600	7200
20 : 1	1000	3000	6000	23 : 1	1300	4000	8000
22 : 1	1200	3600	7200	27 : 1	1800	5400	10800
23 : 1	1300	4000	8000	30 : 1	2400	7200	14400
27 : 1	1800	5400	10800	35 : 1	3000	9200	18400
28 : 1	2000	5870	11560	43 : 1	4600	13800	—
30 : 1	2400	7200	14400	50 : 1	6250	18750	—
35 : 1	3000	9200	18400	100 : 1	25000	—	—
43 : 1	4600	13800	—	—	—	—	—
50 : 1	6250	18750	—	—	—	—	—
100 : 1	25000	—	—	—	—	—	—

Using ratios of 13, 19, 23, 30, 43 : 1, a section of the primary may be used for smoothing.

PRICE 27/- pp. 2/6

★ MULTI-RATIO TYPES MR/15 AND MR/30

Ratios available on each type, single ended or push-pull, 13, 16, 18, 20, 22, 27, 33, 40, 52, 66 and 80/1. Primary Loading 2000 to 16000Ω. Secondary impedance 1 to 30Ω. Full instructions with each transformer.

MR/15 watts.

Maximum primary current for single ended stage 90mA.
For Push-Pull stage, 100mA in each half of primary.

Dimensions :
3⅝" high x 3¼" wide x 2⅝" deep
Fixing centres 3⅝".

Price 45/- pp. 3/-

MR/30 watts.

Maximum primary current for single ended stage 100mA.
For Push-Pull stage, 100mA in each half of primary.

Dimensions :
3⅝" high x 3½" wide x 3¼" deep
Fixing centres 3⅝".

Price 55/- pp. 3/6

★ MULTI-RATIO OUTPUT TRANSFORMER TYPE MR/T

Ratios 24, 30, 41, 48, 60, 81 and 114 to 1.
Ratios 48, 60, 81 and 114 are centre tapped.
4 watt rating. Maximum DC 50mA.

Price 10/- pp. 11/6

SINGLE RATIO OUTPUT TRANSFORMERS

MIDGET FOR PERSONAL PORTABLES. DL SERIES AND 3 V4 ETC. TO 3 OHM	4/6
Postage and Packing	9d.
STANDARD PENTODE 65 : 1 AND 40mA to 3 OHM SPEAKER	4/6
Postage and Packing	9d.
AS ABOVE BUT 60mA, 55 : 1	4/6
Postage and Packing	9d.
SINGLE 6V6 OR SIMILAR RATIO 15 : 1 at 40mA to 15 OHM	4/6
Postage and Packing	9d.
MIDGET OLI30 FOR 10mA 3 OHM SPEAKER 30 : 1	2/6
Postage and Packing	6d.
4 : 1 INTERVALVE TRANSFORMER	7/-
Postage and Packing	6d.

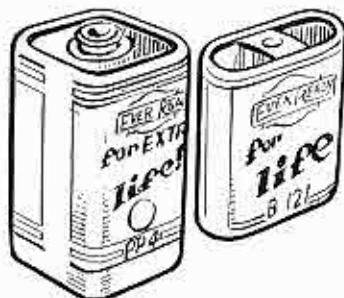
CHOKES

	Price	Post and Packing
10 Henry 40mA	3/6	9d.
10 Henry 60/70mA	7/6	9d.
10 Henry 250mA	10/-	2/-
30 Henry 120mA	8/6	1/-
5 Henry 250mA 100 Ohm Gardeners' Choke	22/6	2/6
75 Henry 25mA	7/6	9d.

GARDENERS 'C' CORE CHOKE

1.5 Henry. 6½ ohms. 300mA.
Price 17/6 Post Free

BATTERIES



MERCURY BATTERIES

Long life leak proof cells of small size and high capacity. Maximum recommended current is about 1/10th of rated mA/H.



1.3v. 5000 mA/H 2 x ⅝ in. dia. 2/6 p.p. 6d.
1.3v. 500 mA/H ⅝ x ⅝ in. dia. 1/3 p.p. 6d.
3.9v. 500 mA/H 2 x ⅝ in. dia. 3/6 p.p. 6d.
7.8v. 500 mA/H 3 ⅜ x ⅝ in. dia. 6/- p.p. 1/-
6.9v. 500 mA/H 8 ½ x ⅝ in. dia. 12/- p.p. 1/-
1.3v. ZM312 Mini-Cell 1/11 or 6 for 10/6

† Also 006P

Vidor	Ever Ready	Drydex	Voltage	Retail Price	Post-age	Contact Clips*
VT.1 or T.6001	PP.1	DT.1	6	3/-	6d.	1/-
† VT.3 or T.6003	PP.3	DT.3	9	2/6	6d.	1/-
VT.4 or T.6004	PP.4	DT.4	9	2/3	6d.	1/-
VT.5 or T.6005	PP.5	DT.5	9	3/6	6d.	1/-
VT.6 or T.6006	PP.6	DT.6	9	2/9	6d.	1/-
VT.7 or T.6007	PP.7	DT.7	9	3/3	6d.	1/-
VT.8 or T.6008	PP.8	DT.8	6	9/3	2/-	1/-
VT.9 or T.6009	PP.9	DT.9	9	3/9	9d.	1/-
VT.11 or T.6011	PP.11	DT.11	4½ + 4½	5/6	9d.	6d.

*State Battery Type.

B.121	15 volts	...	2/-	U.16	1½ volts	...	4½d.
B.154	15 "	...	2/-	D.22	3 "	...	10d.
B.122	22½ "	...	2/6	No. 8	3 "	...	7d.
U.2	1½ "	...	7d.	1289	4½ "	...	1/3
U.12	1½ "	...	4½d.				
D.14	1½ "	...	4½d.				
U.11	1½ "	...	5d.				
AD.38	7½ "	...	2/-				

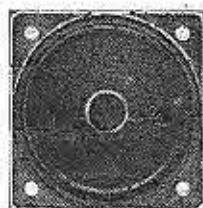
● V28 6 volt high capacity units
1 Amp rating 12/6

Plug 6d.

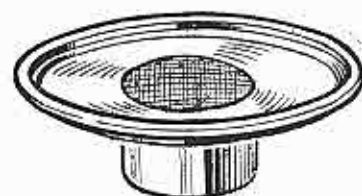
● SEE PAGE 49 FOR BATTERY ELIMINATORS ●

HIGH FLUX-HIGH QUALITY 1ST GRADE

SEE PAGES 74/75/76/77 FOR FULL RANGE HIGH FIDELITY SPEAKERS



MINIATURE AND STANDARD SPEAKERS



● BRAND NEW—FULLY GUARANTEED ●
LARGE MAGNETS—HIGH SENSITIVITY

						Packing and Postage
PLESSEY	2 1/2 inch round	1/2 inch deep	8/10 ohms	15/-	1/-	
PLESSEY	2 1/4 " " "	3/4 " " "	35 ohms	15/-	2/-	
PLESSEY	2 1/4 " " "	3/4 " " "	75/80 ohms	15/-	1/-	
EAGLE	2 1/2 " square	1 1/16 " " "	3 ohms	16/6	1/-	
EAGLE	2 1/2 " " "	1 1/16 " " "	8/10 ohms	16/6	1/-	
E.M.I.	2 1/2 " " "	1 1/2 " " "	3 ohms	14/6	1/-	
E.M.I.	2 1/2 " " "	1 1/2 " " "	3/5 ohms Tweeter	17/6	1/-	
EAGLE	2 3/4 " " "	1 1/16 " " "	75/80 ohms	9/6	1/-	
PLESSEY	3 " square	1 " " "	3 ohms	12/6	1/-	
ELAC	3 " round	1 1/4 " " "	3 ohms	12/6	1/-	
ELAC	3 " " "	1 1/4 " " "	25 ohms	19/6	1/-	
W.B.	3 x 2 inch elliptical	1 1/2 " " "	3 ohms	30/-	1/-	
PLESSEY	5 " " "	1 7/8 " " "	3 ohms	12/6	1/-	
PLESSEY	5 " " "	1 7/8 " " "	15 ohms	19/6	1/-	
PLESSEY	5 " " "	1 7/8 " " "	25 ohms	19/6	1/-	
ELAC/PLESSEY	6 1/2 " " "	2 1/2 " " "	3 ohms	15/-	1/6	
ROLA etc.	8 " " "	2 3/4 " " "	3 ohms	18/6	1/6	
ROLA etc.	10 " " "	3 1/4 " " "	3 ohms	25/-	2/-	
PLESSEY	5 x 3 " elliptical	1 1/2 " " "	3 ohms	16/-	1/-	
PLESSEY	5 x 3 " " "	1 7/8 " " "	25/35 ohms	17/6	1/-	
PLESSEY	6 x 4 " " "	1 7/8 " " "	25/35 ohms	20/-	1/-	
PLESSEY	7 x 3 3/8 " " "	1 7/8 " " "	25/35 ohms	20/-	1/-	
PLESSEY	7 x 3 3/8 " " "	1 7/8 " " "	15 ohms	20/-	1/-	
ELAC	7 x 4 " " "	2 1/2 " " "	3 ohms	15/-	1/-	
PLESSEY	7 x 4 " " "	2 " " "	30/35 ohms	20/-	1/-	
PLESSEY	8 x 5 " " "	2 3/8 " " "	15 ohms	22/6	1/6	
ELAC/PLESSEY	8 x 5 " " "	2 7/8 " " "	3 ohms	22/6	1/6	
PLESSEY	10 x 6 " " "	3 " " "	3 ohms	27/6	1/6	
PLESSEY	12 inch round	4 1/2 " " "	15/16 ohms	35/-	3/-	
EMI	13 1/2 x 8 1/2 Elliptical		Ideal low cost	39/6	2/6	
EMI	13 1/2 x 8 1/2 " "		Hi-Fi speakers	39/6	2/6	
RA	12 inch round with HF Cone		3 ohms or 15 ohms	39/6	2/6	

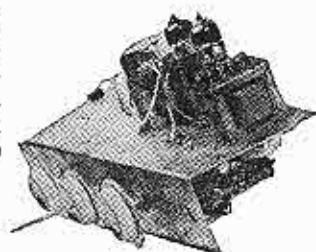
STEREO RECORD PLAYER AMPLIFIER

Special
Offer

A well built stereo amplifier supplied by a well known British firm. Uses ECC83 and 2-ECL82 valves with sufficient output on each channel for portable or home use. Incorporates new high gain circuit with tone balance and volume controls. Supplied built and tested with speaker sockets, mains leads, calibrated dials, etc., output is to 3 ohms. Standard 200/250 volt AC mains.

FULLY GUARANTEED 79/6 p.p. 3/6

★ Suitable 8 x 5 inch Speakers 22/6 each
or 7 x 4 inch Speakers 15/- each



**MOULDED
RADIO CABINETS**

AS USED ON PW-6 9/6
 QUINTET CABINET 7/6
 MINIATURE TYPE 6/-
 EARPHONE RADIO TYPE. SIZE 3x2x $\frac{3}{8}$ IN.

POST AND PACKING 6D. ANY TYPE.

★ ALL COMPLETE WITH DIAL PLATES.

- ★ **REXINE COVERED WOOD RADIO CABINET**
 Two Colour with Handle for 5 inch speaker. Fitted controls bracket. Size $8\frac{1}{2} \times 5\frac{1}{2} \times 3\frac{1}{2}$ in. Complete with 2 $\frac{1}{2}$ in. Dial Plate, 2 Knobs. As used for Transfive Portable, see page 4 29/6 pp. 1/6
- ★ As above suitable for Weyrad and other designs. With 2 knobs and dial set 29/6 pp. 1/6

- ★ Attractive moulded plastic speaker baffle or cabinet front. Overall size $12\frac{1}{2} \times 5\frac{1}{2}$ fitted 4BA tapped screw inserts. Particularly suitable for 7x4 in. speakers only 2/6 pp. 9d.
- ★ Moulded plastic speaker grill $6\frac{3}{8} \times 3\frac{1}{2}$ 1/- pp. 3d.
- ★ $5\frac{1}{2} \times 3$ Fine mesh gold grills 1/- pp. 3d.

SEE PAGE 56 FOR SPEAKER CABINETS. PAGE 40 FOR VERNIER DIALS

★ **READY TO USE PRINTED CIRCUIT PANELS—ALL PARTS IN STOCK FOR BUILDING**

Size 5 x 2 $\frac{1}{2}$ inches.	5 Transistor MW/LW Radio.	(Diagram free)	.....	7/6
" 8 $\frac{1}{8}$ x 3 $\frac{1}{8}$ inches	6 " MW/LW	(Book 1/9)	.....	9/6
" 8 $\frac{1}{8}$ x 3 $\frac{1}{8}$ inches	6 " MW/SW	(" 1/9)	.....	9/6
" 6 x 4 $\frac{1}{4}$ inches	6 " MW/LW	(Book 2/6)	.....	10/-
" 3 $\frac{1}{8}$ x 3 inches	5 " MW	(Diagram 1/-)	.....	5/-
" 3 x 2 $\frac{1}{2}$ inches	6 " MW/LW	(Book 1/6)	.....	5/6
" 5 x 2 $\frac{1}{2}$ inches	6 " MW/LW	(Book 1/6)	.....	7/6
" 3 $\frac{1}{2}$ x 2 inches	4 " Amplifier	(Free leaflet)	.....	4/6
" 4 x 2 $\frac{1}{2}$ inches	6 " Amplifier	(Book free)	.....	9/6
" 8 $\frac{1}{2}$ x 2 $\frac{1}{2}$ inches	2 " Preamplifier	"	.....	15/-
" Two Boards	5 " VHF FM	"	.....	17/6
" 5 x 2 $\frac{1}{2}$ inches	1 " Preamp.	"	.....	9/6

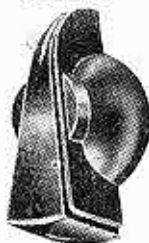
**NEW ITEMS ARRIVING EVERY DAY.
 IF YOU CANNOT FIND WHAT
 YOU REQUIRE IN THIS
 CATALOGUE, DO NOT
 HESITATE TO CONTACT US.**

★ **PRINTED CIRCUIT**

**ETCHING KITS. CONTAINS ALL CHEMICALS
 DISH, BRUSH, INSTRUCTIONS AND THREE
 6 x 3 INCH BOARDS.**

PRICE 19/6 P.P. 1/6

KNOBS



- a) Ivory skirted knob 1 inch with gold centre and marker spot on skirt 1/ ea.
- b) Gold centre knob 1 inch brown or cream 1/ ea.
- c) 1 inch brown with gold centre with arrow 1/3 ea.
- d) 1 $\frac{1}{2}$ inch brown knob with gold ring 1/3 ea.

- e) 2 inch version of (d) with gold ring 2/ ea.
- f) 1 $\frac{1}{2}$ inch ribbed black instrument knob 1/6 ea.
- g) Black pointer knob ... 9d. ea. (As illustrated)



ALL KNOBS FOR STANDARD $\frac{1}{4}$ INCH SPINDLE

(Pattern types vary depending upon availability)

★ **DIAL SETS**

ALL FOR $\frac{1}{4}$ INCH STANDARD SPINDLES

- 1 $\frac{1}{2}$ inch plastic black with white lettering, complete with dial bolt 6BA 1/6
- 2 inch clear plastic plate with gold paper station plate and 6BA bolt 1/6
- 2 $\frac{1}{2}$ inch clear plastic gold rimmed dial plate with gold paper station plate and two matching knobs 4/6
- Horizontal dial set with all fittings 12/6

★ **MOULDED BOXES WITH HINGE LIDS**

(p.p. 6d. any type)

2 $\frac{1}{8}$ x 1 $\frac{1}{2}$ x $\frac{7}{8}$ inches	1/-		
2 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 1 $\frac{1}{8}$ "	1/6		
3 x 2 x $\frac{3}{4}$ "	1/6	Undrilled Paxolin Chassis to fit	6d.
4 $\frac{3}{8}$ x 3 x 1 $\frac{1}{4}$ "	2/6	" " " " "	9d.
5 $\frac{3}{8}$ x 3 $\frac{1}{2}$ x 1 $\frac{1}{2}$ "	3/6	" " " " "	1/-

★ **TAG BOARDS**

2 $\frac{1}{2}$ x 1 $\frac{1}{2}$ inches	Double	8 way	1/-
4 $\frac{1}{2}$ x 1 $\frac{1}{2}$ "	"	18 "	2/6
6 $\frac{1}{2}$ x 2 $\frac{1}{2}$ "	"	18 "	3/6

**PRINTED CIRCUIT
 PANEL**

Radio-Spares universal transistor panel. Pre-drilled and tinned. For up to 8 transistors. Size 6x2 inches.

Price 3/- each or 8/6 per Three.

★ **PUNCH BOARD**

Size 4x3 $\frac{1}{2}$ inch. 1400 holes 3/6 ea.
 Size 4x1 $\frac{3}{8}$ inch. 700 holes 2/6 ea.

★ **PTFE FEED THRU INSULATORS**
 Price 3/6 Dozen.

★ Brown moulded type 1/6 dozen.

★ **TAG STRIP**

28 way Price 1/6d.

MULLARD FERRITE POT CORES AND NEOSID FORMERS

FOR TRANSFORMERS — CHOKES — FILTERS ETC.
(SEE PAGE 31 FOR CHOKES AND FERRITE RODS)

LA1 (GE110A) Size $1\frac{3}{16} \times 1\frac{3}{16} \times \frac{3}{8}$ inch. For use up to 30 kc/s. Effective permeability 110. Maximum 'Q' at 25 kc/s is 325. Number of turns for 1mH are 52
12/6 pp. 6d.

LA2 (GA110B) Size $1\frac{3}{8} \times 1\frac{3}{8} \times \frac{3}{8}$ inch. For use up to 100 kc/s. Effective permeability 60. Maximum 'Q' at 80 kc/s, is 475. Number of turns for 1mH are 65.
15/- pp. 6d.



LA1, 2, 3, 4, 5, 6, 9
and 10.

LA3 Size $1\frac{3}{8} \times 1\frac{3}{8} \times \frac{3}{8}$ inch. For use up to 500 kc/s. Maximum 'Q' 525 at 200 kc/s. Maximum permeability is 40. 85 turns for 1mH.
19/6 pp. 6d.

LA4 Size $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{8}$ inch. For use up to 30 kc/s. Maximum permeability 60. Maximum 'Q' at 25 kc/s is 425. Number of turns for 1mH are 54
12/6 pp. 9d.

Supplied complete
with formers and
clamps as illustrated.

LA5 Size $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{8}$ inch. For use up to 100kc/s. Maximum permeability 35. Maximum 'Q' at 80kc/s is 575. Number of turns for 1mH are 70.
17/6 pp. 9d.

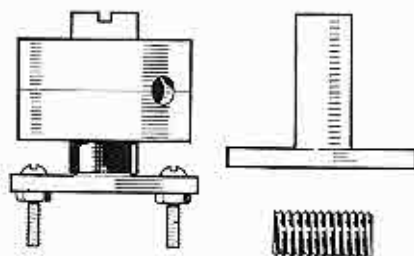
LA6 Size $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{8}$ inch. For use up to 500 kc/s. Effective permeability 20. Number of turns for 1mH are 92. Maximum 'Q' is 525 at 200 kc/s.
22/6 pp. 9d.

LA9 Size $1\frac{3}{8} \times 1\frac{3}{8} \times 1\frac{5}{16}$ inch. 17/6 pp.9d

LA10 Size $1\frac{3}{8} \times 1\frac{3}{8} \times 1\frac{1}{4}$ inch 17/6 pp. 9d.

WOUND POT CORES

- ★ **06039**—Tape circuit treble boost inductor. Code 11026, wound on LA2503 ... 35/- pp. 1/-
- ★ **06042**—2 watt tape oscillator for collaro heads. Code 11027, wound on LA2305 ... 45/- pp. 1/-
- ★ **06044**—As 06042 but for truvox heads. Code 11028 45/- pp. 1/-
- ★ **4385** Treble boost inductor 370mH 45 ohm (Replaces 06039) 17/6 pp. 9d.
- ★ **4379** 2 watt push-pull tape circuit oscillator wound on LA2 pot core (Replaces 06042) ... 32/6 pp. 9d.



● DENCO NEOSID POT CORE (ILLUSTRATION LARGER THAN FULL SIZE)

- Type 10D assembly with bobbin and tuning slug ... 3/6
- $\frac{1}{4}$ inch coil former 9d. Iron dust slug ... 6d.
- $\frac{3}{8}$ " " " 9d. " " " " ... 3d.
- CHI Choke core $\frac{7}{16} \times \frac{1}{8}$ " diameter ... 6d.

★ LARGE RANGE OF MINIATURE COMPONENTS FOR MODEL CONTROL ★



MINIATURE POT CORE

- ★ Type FX1011.
- Size $\frac{1}{2}$ inch diameter
- $\times \frac{5}{16}$ inch deep.

Price 7/6

Complete with former.

ADJUSTABLE POT CORES

Overall size $1\frac{1}{8} \times \frac{3}{8}$ inch diameter.

Single hole fixing with tag plate.

Complete with bobbin and core giving $\pm 7\%$ variation.



LA2503 For use up to 100Kc/s. Effective permeability 160. Maximum 'Q' 350 at 30Kc/s. Number of turns for 1mH are 52.
15/- pp. 9d.

LA2504 For use up to 100Kc/s. Effective permeability 100. Maximum 'Q' is 300 at 35Kc/s. Number of turns for 1mH are 66.
15/- pp. 9d.

LA2505 For use up to 200Kc/s. Maximum 'Q' at 200 Kc/s is 400. Number of turns for 1mH are 84. Effective permeability 63.
17/6 pp. 9d.

FEW ONLY

- ★ LA2403 adjustable pot core 15/- pp. 9d.
- ★ LA45 pot core 15/- pp. 6d.

CAR RADIO AERIALS

All types are heavily chromed plated, telescopic and supplied fitted cable with plug. (Postage and packing 1/6 any type)

- A. 3-section single hole wing or boot mounting. 19/6
- B. 3-section with angled ball joint, clips on to window, no holes, easily removed in seconds. 27/6
- C. 2-section car aerial clips to roof gutter. Special head passes into car via window top. 27/6
- D. Multi-purpose type for window fitting also for domestic FM and TV. 21/-
- E. New fully disappearing thief proof type. Single hole wing fixing with key. 39/6

TELESCOPIC AERIALS

For medium wave, shortwave, amateur band receivers, transmitters, model control, instruments etc. etc.

- A. 3 $\frac{3}{4}$ in. closed, 14 in. extended ... 3/6
- B. 8 $\frac{1}{2}$ " " 38 $\frac{1}{2}$ " " " " " " 6/6
- C. 6 " " 42 " " " " " " 10/6
- D. 8 " " 64 " " " " " " 17/6
- E. 7 in. closed 25 " " " " " " 4/6

Types 'A' and 'B' are supplied with a threaded end with 4BA nut.

Type 'C' fitted side clips as illustrated.

Type 'E' has threaded sliding base.

Post and packing 9d. any type.

- HEAVY PLATE FINISH-ENHANCE THE APPEARANCE OF ANY EQUIPMENT.



9-Volt ALL-PURPOSE

BATTERY ELIMINATOR

★ FULLY MAINS ISOLATED ★

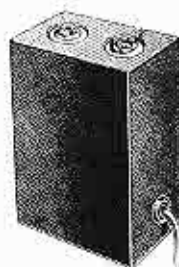
Replaces

PP4, PP7, PP9, etc.
(or similar in other makes)

For any application requiring 9 volts up to 300 mA. Fully mains isolated and screened. Operates from 200/250 volt mains.

Size 3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 2 $\frac{3}{8}$ inches. 49/6 pp. 2/-

Suitable for all transistor radios, recorders, amplifiers, record players, equipment, etc., requiring 9 volts up to 300 mA.



★ 18 VOLT 250mA MAINS UNIT 60/- p.p. 2/-

★ 24 VOLT 1.2Amp MAINS UNIT 69/6 pp. 2/6
500mA version 59/6 p.p. 2/-

★ 40 VOLT 800mA MAINS UNIT 69/6 pp. 2/6
400mA version 59/6 p.p. 2/-

FOR TRANSISTOR POWER AMPLIFIERS AND EQUIPMENT.



BATTERY ELIMINATOR AND CHARGER

For PP3 or VT3 or similar 9-volt unit replacing above batteries. Enables your pocket radio to operate from 220/240 volt mains. Also charges above batteries for five times normal life.

19/6 pp. 1/6

FITTED NEON INDICATORS, LEADS, ADAPTORS AND PLUG Complete with Full Details

PP3 9-VOLT ELIMINATOR

(Or T6003 or VT3 or DT3 or similar)

Replaces any 9-volt battery as above, as used in most pocket transistor radios today. Just unclip the battery, clip in the eliminator and plug into standard mains socket.

'PETITE FULMITER' 18/6 pp. 1/6

SAVE BATTERIES, RUN YOUR RADIO FROM MAINS.



SPECIAL EQUIPMENT OFFER

★ FM TRANSMITTERS/RECEIVERS
Ex. R. A. F. 2 METRE EQUIPMENT.

Type 1934 100 to 125 mc/s.

Type 1935 124.5 to 150 mc/s.

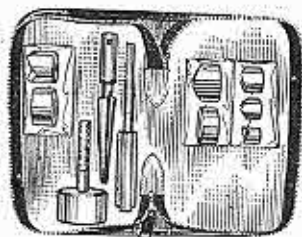
- Contains Receiver Unit
10.7 mc/s. IF Unit
Transmitter Unit
Modulator Unit

In new condition complete in casing—less valves.

PRICE 15/- CARRIAGE 7/6

LET US QUOTE
FOR COMPONENTS
AND EQUIPMENT
FOR YOUR CIRCUITS

CHASSIS PUNCH KIT IN CARRY CASE



Five of the most used hole punches, made from hardened steel, will save hours of drilling and filing. Suitable for aluminium, duralumin, mild steel up to 16 gauge, also plastics etc. Punch sizes, $\frac{1}{8}$ in. $\frac{3}{16}$ in. $\frac{1}{4}$ in. $\frac{5}{16}$ in. $\frac{3}{8}$ in. Supplied complete with tommy bar, tapered reamer and zip fastening carry case.

All as illustrated above.

52/6 pp. 1/6

MODEL SFI SOLDERING GUN

HIGH SPEED INSTANT HEAT
SOLDERING GUN.

Price 42/6 Post Free



MULTICORE SOLDER

- 6d., 1/-, 2/6, 5/- packs of multicore solder ready fluxed. p.p. 6d. per pack.
- Special low temperature printed circuit solder 1/- per 10ft. p.p. 6d.
- Multicore 'SAVBIT' solder 2/6 per tube pp. 6d.



★ BIB WIRE CUTTERS AND STRIPPERS



For stripping back wire insulating and for cutting.

3/6 pp. 9d.

Pair of fully Insulated test prod Leads.

Ideal for meters instruments etc. black/red.
4/6 pair .p. 6d.

AVO Type fully Insulated test prods.

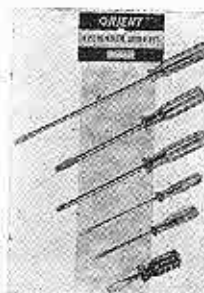
Fitted quick release wire clip on gadget.
12/6 pair p.p. 9d.

● 6-PIECE SCREWDRIVER SET Type 3360

Consisting of 6-mechanics, electricians' Phillips, midget and scrubby types. Magnetized blades of tempered, hardened tool steel. Unbreakable, flameproof and shock-proof plastic handles.

Complete in display bag

8/- pp. 9d.



★ Enamelled copper wire

		(Postage and packing 6d. per reel).	
14 S.W.G. 2 oz.	2/-	28 S.W.G. 2 oz.	2/6
16	2/-	30	2/6
18	2/3	32	2/6
20	2/3	34	2/6
22	2/3	36	2/9
24	2/3	38	3/-
26	2/6		

★ Tinned copper wire

4 oz. reels: 18 S.W.G. 3/-; 20 S.W.G. 3/2;
22 S.W.G. 3/2; 24 S.W.G. 3/5; 26 S.W.G. 3/5
Low loss coax cable .. 9d. yard or 8/- dozen

★ Ultra lightweight twin flesh coloured hearing aid type wire, per yard .. 9d.

- Solid and stranded 22 S.W.G. plastic covered hook up wire, various colours.
One yard 3d. or 12 yard reels .. 2/6
- Nylon Drive Cord per yard .. 6d.
- ★ Screened Microphone cable per yard .. 1/6
- Lightweight single screened wire, per yard .. 9d.
- Lightweight twin screened wire, per yard .. 1/-
- ★ 2 Amp plastic clear mains cable and general purpose twin hook up wire, per yard .. 4d.
- Systoflex sleeving, per yard .. 4d.
- $\frac{1}{2}$ mm.; 1 mm.; 2 mm.; 3 mm.; 5 mm.

SPECIAL OFFER 100 yard reels PTFE covered Stranded Hook-up wire .. 12/6



- Single clips (As left) for PP1, PP4, PP7, PP9, VT4, VT7, VT9 etc. Batteries .. 1/- pair

- Single clips (smaller than above) for PP3, PP5, PP6, VT3, VT5, VT6, etc. type batteries 1/- pair

OR single plate as right centre for PP3, VT3, PP6, VT6 1/-

- 4-Pin plug for PP11, VT11 etc. 6d.

- 2-Pin for AD3B 1/-

TRANSISTOR BATTERY CLIPS



★ BATTERY CLIPS MOULDED TYPE WITH LEADS FOR PP3, VT3, PP6, VT6 ETC. BATTERIES.

PRICE 1/6

● ANTEX PRECISION MINIATURE SOLDERING IRON

A physically robust iron of very small dimensions. Available for 220/250 volt, 6 and 12 volts AC/DC.

This iron is only $6\frac{1}{2}$ " long and weighs less than 1 ounce, but has the attributes of many larger irons and has fully insulated element.

These have been introduced to meet the growing demand created by the rapid development of partly or wholly transistorised circuits and the growing use of miniature components. These irons are fitted with $3/32$ inch bit.

Alternative bits are available as additional items. The iron features quick release easy changeable bits and quick warm-up time.

- 15 watt 220/250 volts AC/DC antex iron fitted $3/32$ " bit **29/6** pp. 1/6
- 6 volt and 12 volt AC/DC iron $3/32$ " bit **25/-** pp. 1/6

SPARES FOR ANTEX IRONS

- Bits : 1mm ; 2mm ; $3/32$ " ; $5/32$ " ; $3/16$ " **3/6** each
 Elements for 220/250 volt irons **15/-** ...
 Slide on wire stripper **1/-** Heat sink tweezers ... **1/6** ...
 Hanging clip ... **1/6** (For transistor soldering)

SOLON SPARES

- Elements for 25 watt iron **5/6**
 Elements for 15 watt iron **15/-**
 Spare bits for both types ... pair **2/6**

SOLON INSTRUMENT SOLDERING IRON

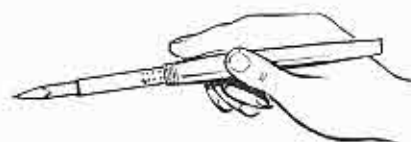
Specially designed for soldering operations in the compact assemblies employed in present day radio and television, electronic and allied industries. 25 watts. $\frac{3}{16}$ " dia. bit. Weight $3\frac{3}{4}$ ozs. Also 15 watt version with $\frac{1}{8}$ " dia. bit. Both types for 230/250 volts.

- 'SOLON' 230/250v. AC/DC 25 watts ($\frac{3}{16}$ in.) **24/-** p.p. 1/6
- 'SOLON' 230/250v. AC/DC 15 watts ($\frac{1}{8}$ in.) **22/6** p.p. 1/6

SOLDERING IRONS



ANTEX PRECISION IRON



POCKET IRON



SOLON IRON

- **POCKET IRON** (Model SFI) 30 watt portable soldering iron. Fitted tapered bit for miniature work. Features are movable handle which screws over the bit to enable iron to be carried even when hot. Complete with vinyl bag, lead and plug. **14/6** p.p. 1/-

POCKET IRON SPARES
 Element **4/6** Bits **1/6**

- 'PIFCO' 30 watt soldering iron with $\frac{1}{4}$ " bit. 230/250 volts. Fitted foldaway stand and work light **22/6** pp. 1/6

ARI3 UNIVERSAL TEST LEAD KIT IN PLASTIC CASE



Consists of $4\frac{1}{2}$ in. long X $\frac{3}{16}$ in. dia. red and black plastic handle pin prods. with heavy duty 37in. rubber leads with 5000v. breakdown insulation terminating 2in. long X $\frac{3}{16}$ in. dia. plastic grip banana plugs. 3 sets of interchangeable terminals are included (spade lugs, phone tips, alligator clips), all slip directly on to banana plugs.

only **9/6** p.p. 9d.

(Sizes are in inches diameter)

Size	Price	Size	Price
$\frac{3}{16}$ "	11/6	$1\frac{1}{8}$ "	17/-
$\frac{1}{4}$ "	12/3	$1\frac{3}{16}$ "	18/6
$\frac{1}{2}$ "	13/6	$1\frac{1}{2}$ "	18/6 Key
$\frac{5}{8}$ "	13/9 Key	$1\frac{7}{8}$ "	18/- 1/6
$\frac{3}{4}$ "	14/6 1/-	$1\frac{5}{8}$ "	20/-
$\frac{7}{8}$ "	14/9	$1\frac{3}{4}$ "	21/-
1"	16/6	2"	32/- Key
$1\frac{1}{16}$ "	16/6	$2\frac{3}{32}$ "	35/6 2/3
$1\frac{1}{8}$ "	16/6 Key	$2\frac{1}{2}$ "	42/-
$1\frac{3}{16}$ "	17/- 1/6		

"Q MAX" CHASSIS CUTTERS



Post and Packing Up to $\frac{7}{8}$ " **1/-**
 Up to $1\frac{1}{2}$ " **1/6** Up to $2\frac{1}{2}$ " **2/-**

★ FOR ALL SHEET METAL AND ALLOYS UP 16 GAUGE MILD STEEL ★

ACCESSORIES

INCLUDING ALL TYPES OF PLUGS AND SOCKETS, TAG STRIPS, CHASSIS BOARDS, SPEAKER FRET, CLIPS ETC.

- | | | | |
|---|-----|--|---------|
| 1. Wander plugs Standard size in red, blue, yellow, white or black | 6d. | 29. Miniature Pye Plug Line Connectors ... | 2/6 |
| 2. Sub-miniature size red or black ... | 6d. | 30. B9A 9 pin miniature plugs | 2/- |
| 3. Sockets for (1) | 6d. | 31. B7G 7 pin miniature plugs | 2/- |
| 4. Sockets for (2) | 6d. | 32. Miniature paxolin base plugs and sockets | |
| 5. 4mm Banana Plugs, various colours ... | 6d. | 2 pin 'M2' $\frac{1}{4}$ inch. | |
| 6. Insulated Sockets for (5) | 6d. | 2 pin 'S2' $\frac{1}{4}$ inch. | PLUGS |
| 7. Line Sockets for (5) | 6d. | 3 pin 'M3A' | 6d. |
| 8. 2.5mm Banana Plugs, various colours ... | 6d. | 4 pin 'M4' | SOCKETS |
| 9. Line Sockets for (8) | 6d. | 5 pin 'M5' | 9d. |
| 10. Insulated Phono Plugs various colours ... | 9d. | 33. 2 pin paxolin socket for speakers etc. | |
| 11. All Metal Phono Plugs | 6d. | Takes wander plug | 9d. |
| 12. Phono Line Sockets, various colours ... | 1/- | 34. Jack plug $\frac{1}{4}$ inch standard | 2/6 |
| 13. Panel Mounting Phono Sockets | 6d. | 35. As (34) but fully screened | 3/6 |
| 14. " " Dual Phono Socket | 1/- | 36. Single hole fixing socket for (34) ... | 2/- |
| 15. " " 4 way Phono Socket | 1/9 | 37. As (35) but with circuit breaker ... | 2/3 |
| 16. Car Radio Aerial Plug | 1/6 | 38. 2.5mm Jack plug | 1/6 |
| 17. Socket for above (16) | 1/3 | 39. Socket with cut out switch for (38) ... | 1/6 |
| 18. Belling Screened Coax Plug | 1/3 | 40. (38) and (39) together | 2/6 |
| 19. Solderless Coax Plug | 1/- | 41. 3.5mm Jack plug | 1/6 |
| 20. Coax Socket Standard | 1/- | 42. Socket with cutout for (41 or 44) ... | 1/6 |
| 21. Coax Socket Flush Mounting | 1/3 | 43. (41) and (42) together | 2/6 |
| 21. Female Coax Screened Plug | 1/6 | 44. 3.5mm Screened jack plug | 2/- |
| 22. Coax Line Connector | 1/- | 45. (44) and (42) | 3/- |
| 23. Spade Terminal Red or Black | 6d. | 46. Transistor sockets 3 pin and 5 pin | |
| 24. Brass Panel Mounting Terminals | 9d. | 9d. each or 8/- dozen. | |
| 25. Insulated Red or Black type Terminals | 1/- | 47. Hearing Aid Socket. Takes 2 pin hearing | |
| 26. Quartz Crystal Sockets, all single hole fixing | | aid type plug | 2/6 |
| $\frac{1}{2}$ inch Spacing for HC6U or 2M | | 48. Bulgin 2 pin mains plug and socket— | |
| $\frac{1}{2}$ inch " " FT241A or FT243 | | Flush mounting | 4/- |
| $\frac{3}{4}$ inch " " 10XJ or DC34 | | 49. As (48) but 3 pin | 4/9 |
| $\frac{3}{4}$ inch " " 10X | | 50. Octal Female Plugs | 1/6 |
| Double type for 10X or 10XJ. | | 51. Post Office 3 way jack plug | 1/6 |
| ALL TYPES 1/- EACH. | | 52. 3 way socket for above | 1/- |
| 27. Miniature Pye Plugs | 2/6 | 53. Valve sockets—See Page | |
| 28. Miniature Pye Sockets | 1/6 | 54. Miniature 7 pin plug and socket plated | |
| | | contacts, with plug cover | 5/6 |



(1)



(3)



(10)



(38, 39)



(41, 42)



(44, 45)



(34)



(19)



(20)

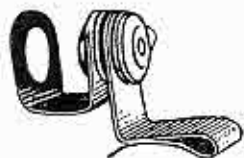


(16, 17)

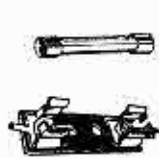
PLEASE GIVE LIST NUMBER OF ITEM AND EXACT DESCRIPTION WHEN ORDERING

(POSTAGE AND PACKING 6d. PER 4 ITEMS UNLESS STATED).
SEE SEPARATE SECTIONS FOR TRANSISTOR ACCESSORIES, ALL TYPES OF WIRE,
TOOLS BATTERY CLIPS

- | | |
|---|---|
| <p>60. Continental 3 pin chassis socket (for 64) 1/3</p> <p>61. " 5 pin chassis socket (for 65) 1/6</p> <p>62. " 3 pin line socket (for 64) 3/3</p> <p>63. " 5 pin line socket (for 65) 3/9</p> <p>64. " 3 pin plug (for 60 or 62) 3/-</p> <p>65. " 5 pin plug (for 61 or 63) 3/3</p> <p>66. " Two Speaker Plug (for 67) 2/6</p> <p>67. (for 66) Socket with circuit breaker 1/6</p> <p>68. Resistor pocket colour code machine 1/6</p> <p>69. Trimming tool for miniature OSC/IF Coils 1/-</p> <p>70. Fine mesh gold speaker fret $5\frac{1}{2} \times 3$ inches 1/-</p> <p>71. Terminal block, two-way Type 5C/430 1/-</p> <p>72. Condenser clips, 2 inch 9d., and $1\frac{3}{8}$ inch 6d.</p> <p>73. Stand off ceramic insulator (HRP55) ... 1/-</p> <p>74. $2\frac{3}{4}$ inch diameter drive drums 2/-</p> <p>75. Push-on points to fit $\frac{1}{8}$ inch spindle ... 6d.</p> <p>76. Tag strips. 3-way 3d. 8-way ... 4d.
14-way 9d. 28-way ... 1/6</p> <p>77. Tag boards. $2\frac{1}{8} \times 1\frac{1}{2}$ inches double 8-way 1/-
$4\frac{3}{8} \times 1\frac{1}{2}$ inches double 18-way 2/6
$6\frac{3}{4} \times 2\frac{1}{8}$ inches double 18-way 3/6</p> <p>78. Plain chassis board $\frac{1}{16}$ inch thick--
3 x 2 inches 6d.
4 x 3 inches 9d.
$5\frac{1}{2} \times 3\frac{1}{2}$ inches 1/-
12 x 12 inches 3/-</p> <p>79. Copper etched printed circuit panels--
6 x 3 inches 2/- each or 3 for 5/- pp. 6d.
$5\frac{7}{8} \times 6\frac{3}{4}$ inches each at ... 3/6 pp. 9d.
Also 12 x 12 inches ... 6/- pp. 9d.</p> <p>80. Fuse holder for $1\frac{1}{2}$ inch cartridge fuse.
Single open type 9d.
Double open type 1/3</p> | <p>81. Single hole fixing use holder 2/6</p> <p>82. Car radio fuse holder 1/6</p> <p>83. $1\frac{1}{4}$ inch cartridge fuses 250mA. 500mA. 250mA. 500mA. 1Amp. 2Amp. 3Amp. 1Amp. 2Amp. 3Amp. 5Amp. 10Amp. 6d. each.</p> <p>84. General purpose soft plastic high impact boxes:
a. $4\frac{3}{8} \times 3 \times 1\frac{1}{2}$ inches high 2/6
b. $3 \times 2 \times \frac{3}{4}$ inches high 1/6
c. $2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{8}$ inches high (Blue) ... 1/6
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Handy pack of assorted sizes 1/-</p> <p>86. Clip on Mes bulb holders 9d.</p> <p>87. Bulgin type with red or green glass ... 1/9</p> <p>88. Crocodile Clips Standard 6d.</p> <p>89. Crocodile Clips Miniature 6d.</p> <p>90. Insulated Croc. Clips 8d.</p> <p>91. Instrument type Croc. Clips 6d.</p> <p>92. $\frac{1}{4}$ inch shaft extension coupler 6d. Thin type 1/-</p> <p>93. $\frac{1}{4}$ inch x 2 inches spindle extension ... 1/-</p> <p>94. Moulded speaker baffle or plate. Cream Size $6\frac{3}{4} \times 3\frac{1}{2}$" 1/-</p> <p>95. Grey moulded cabinet front or speaker baffle for 7×4" speaker size $12 \times 5\frac{1}{4}$... 2/6</p> <p>96. Polythene 12-way terminal strip ... 3/-</p> <p>97. Slow motion reduction drive 6:1 ... 2/6</p> <p>98. Clear plastic box $2\frac{1}{4} \times 1\frac{1}{2} \times \frac{5}{8}$... 1/-</p> <p>99. General purpose test leads, pair ... 4/6</p> <p>100. Turret lugs (terminal pins) dozen ... 1/-</p> <p>101. Feed Through Insulators, dozen ... 2/6</p> <p>102. Bulgin 'Mes' enclosed bulb holders solder terminals—Panel fixing ... 2/-</p> <p>103. Bulgin chromed panel fixing type ... 3/6</p> <p>104. Pack of Nylon cable fixing clips ... 1/-</p> <p>105. PEA Lamp Holder 1/6</p> |
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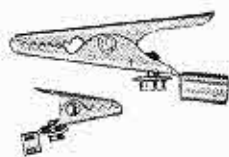
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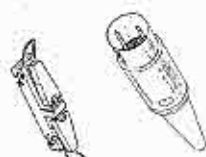
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* SPECIALLY RECOMMENDED

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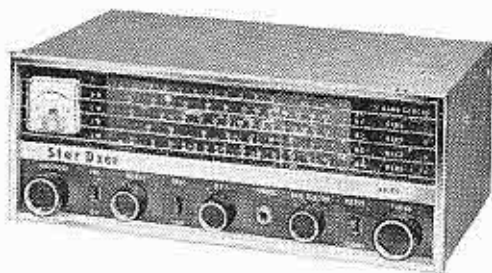
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SIZE 11 × 8 INCHES. 124 PAGES 15/-

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THE LARGEST RANGE OF QUALITY COMPONENTS FOR AMATEUR AND PROFESSIONAL APPLICATIONS LET US QUOTE FOR YOUR CIRCUIT.

● ALL TYPES OF CIRCUITS AND GENERAL INFORMATION ●



4 WAVEBAND HIGH PERFORMANCE COMMUNICATIONS RECEIVER

MODEL RX50 OR SR40
(Both Models Identical in Every Respect)

- ★ HIGH SENSITIVITY
- ★ ELECTRICAL BANDSPREAD
- ★ 5 INCH SPEAKER
- ★ AVC-NOISE LIMITER—BFO
- ★ BUILT IN 'S' METER
- ★ TELESCOPIC AERIAL

SMARTLY STYLED DURABLE METAL CABINET

Size $13\frac{1}{2} \times 5\frac{1}{2} \times 8\frac{3}{4}$, 12 lbs. weight.

4-Band superhot circuit covering 550Kc/s to 30 Mc/s. All amateur bands up to 30 Mc/s. Medium wave and short wave broadcast bands. Operates from standard 220/250 volt 50c/s mains. Built tested and ready to use.

PRICE

£25

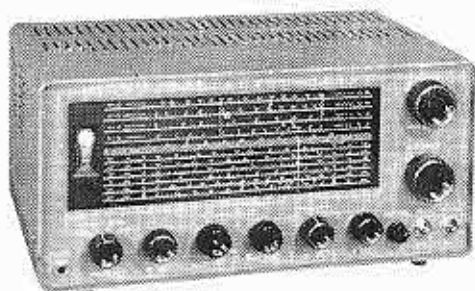
Carriage etc. 7/6

FULLY GUARANTEED AND TESTED

Now, you can tune in the world with this fabulous, BC-SW receiver. Keep up to date with on the spot news coverage. Power packed superheterodyne circuit covers the broadcast band (550-1600KC) and shortwave from 1600 KC to 30 MC in four bands. The perfect radio for short-wave listeners. Features a precision electrical bandspread with slide rule bandspread dial, 0-100 logging scale for easy self-calibration. Separate bandspread tuning condenser and calibrated "S" meter for accurate tuning. Meter can be electrically adjusted by rear panel control. Sensitive circuit features, AVC (Automatic Volume Control) to minimize blasting and/or fade out; Automatic noise limiter to reduce annoying interference. Includes convenient front panel B. F. O./selectivity control to allow for reception of C W (telegraphy). Also has convenient front panel headphone jack which automatically disconnects

speaker. Jack can be used to drive an external speaker. Built-in 5" PM speaker provides big, clear sound on all stations. Useful tone switch is included to vary sound to suit conditions, or taste. Three antennas (ferrite loop for broadcast band, adjustable 58" whip for short wave and wire antenna) provide high sensitivity and flexibility for best reception. Low impedance phones are recommended for use with this unit. Attractively styled steel cabinet with silver trim. Powered by 4 tubes plus a selenium rectifier, 1—12BE6 Converter, 1—12BA6 IF Amplifier, B. F. O., 1—12AV6 Audio Amplifier AVC detector; 1—50C5 Audio output.

- ★ SUPPLIED COMPLETE WITH FULL INSTRUCTION MANUAL AND CIRCUIT



4 WAVEBAND PROFESSIONAL COMMUNICATIONS RECEIVER

MODEL HE30 OR JR101

- ★ 4 Bands
 - 550 Kc/s to 1600Kc/s
 - 4.8 Mc/s to 14.5 Mc/s
 - 1.6 Mc/s to 4.8 Mc/s
 - 10.5 Mc/s to 30 Mc/s
- ★ 8 Valves plus Rectifier
- ★ IRF+2IF Stages
- ★ Q-Multiplier
- ★ Electrical Band Spread
- ★ 0-100 Logging Scale
- ★ Built in 'S' Meter
- ★ AVC-MVC Selector
- ★ Aerial Trimmer
- ★ Automatic Noise Limiter
- ★ 10μV Sensitivity for 20dB S/N.

Outstanding Bandspread Selectivity and sensitivity with a built-in Q-multiplier combine to make the HE30 one of the finest general coverage bandspread Receivers available at this price. Covering 550 kc/-1600 k/c., 4.8 m/c.-14.5 m/c., 1.6 cm/-4.8 m/c., 10.5 m/c.-30 m/c. For amateur bands an illuminated slide rule dial is provided, calibrated every 5 Kc/s. on 80 and 40 metres taking 16 revolutions of the bandspread dial to cover each of these bands every 20 Kc/s. on 20 and 15 metres and every 15 Kc/s. on 10 metres plus an edgewise S-meter. For the SWL a 0-100 logging scale for instant reset plus coverage from 0.55-30 Mc/s. The 8 valve plus Rectifier superhot circuit provides an RF stage with an Aerial Trimmer for peak performance

plus 2IF Stages for improved sensitivity of 1.0 microvolts for 10db S/N ratio. The BFO variable pitch control can be used to separate CW stations whilst the Q-multiplier adds the selectivity needed for crowded phone band operation. Controls: Function Switch, Audio Gain, Selectivity (Q-multiplier), Frequency (BFO), Band Selector, IF gain, Trimmer, AVC-MCV switch, Ant Switch, Main Tuning, Bandspread Tuning and Headphone Jack, Selectivity variable from -93dB to -60dB ±10 Kc/s (with Q-Multiplier). IF—455 Kc/s., External P.M. Speaker required 4 or 8 ohms impedance. Output 1.5 watts. 8 modern Miniature B7G Base Valves and 5Y3 Rectifier.

Size 15 in. x 10 in. x 7 3/4 in. Grey crackle finish. Built tested and ready to use.

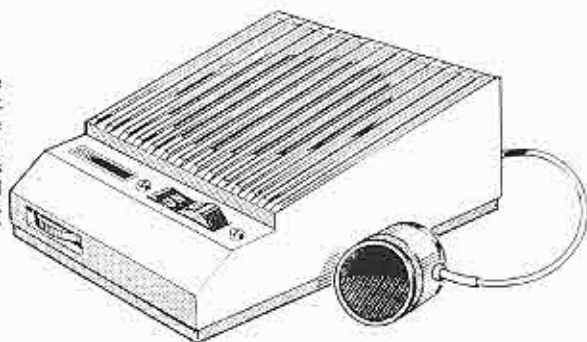
- ★ Supplied complete with full Instruction Manual and Circuit

£40 Carriage 15/-

TRANSISTOR TELEPHONE AMPLIFIER MODEL 300 (OR TA790)

This Unit is ideally suitable for use in the office or where long telephone messages need to be taken, simply by switching the Unit on and adjust the volume, then fix the Limpet Microphone to the side of the Telephone base by moistening the suction pad. The Handset of the Telephone can be placed on the desk and the conversation carried on, leaving both hands free. It is completely independent of the mains, being battery operated and includes three Transistors. It is attractive in appearance and convenient in size being only 3" x 4½" x 1½", finished in two tone ivory/beige.

Price 59/6 p.p. 1/6
WITH BATTERY



INTERCOMM SYSTEMS

● ATTRACTIVE AND EFFICIENT ●

FOR OFFICE,
HOME OR
WORKS



Type B

Type B. Deluxe two-way intercomm, suitable for home, office or works use. Two way calling and talking. Complete with battery and cable.

69/6 p.p. 2/-



Type C

Type C. Sensitive 4-transistor printed circuit system with 2½ in. speakers. Features two-way talking and press button two-way calling (buzzing). Housed in attractive moulded cabinets for desk or wall mounting. Save battery switch, i.e., unit is always off but buzzing system still operates. Supplied with batteries and cable.

£7.10.0 p.p. 2/-

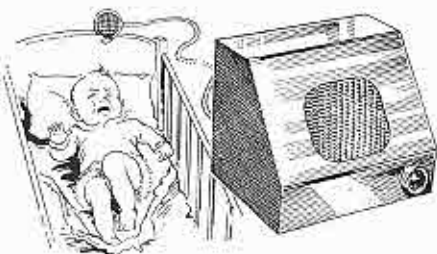


Type D

Type D. A 7-station intercomm (master and 6-slaves) permits calling and talking from slave units to master and master to slave units. Main unit houses printed circuit amplifier with indicator lights, and buzzing system, 3½ in. speaker and batteries. Housed in moulded cabinets with 3½ in. speakers in the slave units. Ideal for office or works use. Complete with batteries.

£12.12.0 Master station 2 gns. each Slave

PORTABLE TRANSISTOR BABY ALARM



READY TO USE

£5. 10. 0. p.p. 2/-

WITH BATTERY AND
MICROPHONE

An extremely sensitive amplifier unit housed in attractive style cabinets. This cabinet contains the speaker amplifier, volume control and battery. The microphone is connected via a twin wire (any type can be used), to the amplifier unit and plugged in. The amplifier can be up to 200 yards from the microphone and still be effective. The microphone is placed within 15 feet of the baby, on a table, hooked on the cot or bed, etc.

The advantage of a transistor baby alarm! No mains supply, only a 9 volt battery which guarantees 100% safety, fully portable enabling the amplifier unit to be used in any room even out of doors.

Suitable connecting wire 4d. yard.

THOUSANDS NOW IN CONTINUOUS USE

★ INDISPENSABLE FOR BABIES,
YOUNG CHILDREN AND INVALIDS ★

TRANSISTOR TELEPHONE AMPLIFIER

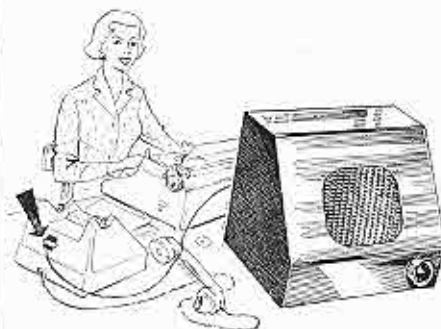
Designed for use with all telephones to enable more than one person to listen in to the same telephone conversation. Also eliminates 'holding on' and wasting time waiting for a call to come through. Unit can then be switched off or left on as required.

- No modifications or direct connection to the telephone. A pick-up coil with a rubber sucker is supplied which just presses onto back or side of telephone (where best output).
- Unit incorporates 4-transistor printed circuit high output amplifier with speaker. As unit is battery operated amplifier is 'on' immediately on turning volume control.

READY TO USE
£5. 10. 0. p.p. 2/-
WITH BATTERY

Other uses include relaying telephone information, direct dictation, etc.

— **A boon for the busy office** —



EXTENSION BOOSTER UNIT



Portable Booster Speaker designed to plug into the earphone socket of any transistor radio or recorder to give five times the volume. The unit can be put on a table or desk or hooked onto the wall.

Supplied fitted with leads with two sizes of jack plug to fit all transistor radios. Overall size $9\frac{1}{2} \times 3\frac{1}{2}$ in. diameter. 19/6 p.p. 1/-

You will be amazed at the quality and output available from your pocket radio.

- Also size $8 \times 2\frac{1}{2}$ in. diameter identical in appearance but with slightly reduced output compared with larger version. 19/6 p.p. 1/-

UN406 TRANSISTOR PORTABLE TAPE RECORDER

- ★ Two track single speed recorder with remote control operation.

SPECIFICATIONS

Dimensions	... 205 x 165 x 66m/m.
Weight	... 1.3 Kgs.
Amplifier	... 4 transistor, 1 thermistor.
Reel & Tape	... Standard 3" reel, 200 feet.
Recording System	... D.C. Bias system.
Recording Track	... Double Track.
Recording Time	... Approximately 20 minutes for double track.
Rewinding Time	... Approximately 80 seconds.
Output Power	... 125mW.
Speed	... 3-3/4" per sec. (9.5 cm) Variable speed system.
Speed Control	... Speed adjustable
Frequency Response	... 200-4,000 c/s.
Speaker	... 2 1/4 inch dia. Dynamic Speaker.
Motors	... 2 Micro Motor
Microphone	... Remote Control Microphone (Crystal).
Earphone	... Magnetic type plug-in system.
Batteries	... U11 x 2 for Motors (1.5V) VT3 or PP3 for Amplifier.
Battery Life	... About 12 hours.
Drive System	... Rim Drive.



STANDARD ACCESSORIES

Remote control Microphone
 Magnetic Earphone for Monitor
 200 ft. Tape with 3" Reel
 3" Empty Spool and Batteries.

PRICE 10 gns

- FULLY PORTABLE BATTERY OPERATED FULLY GUARANTEED ●

MODEL TP703 TWO SPEED TWO TRACK TRANSISTORISED PORTABLE TAPE RECORDER

- ★ SUITABLE FOR SPEECH AND MUSIC - CAPSTAN DRIVE RECORDING SYSTEM ★

The T.P.703 is suitable for all speech and most music recording situations. Operation is accomplished entirely by push buttons with rewind, stop-play, and record functions furnished by three simple dashboard styled push button controls. In addition, as a safety feature, a special record button is provided to prevent accidental erasure.

The correct recording level and battery condition is given by a front panel V.U. meter. Convenient volume control adjustment together with inputs for microphone extension speaker and radio. Two speeds $3\frac{3}{8}$ and $1\frac{7}{8}$ I.P.S. are provided with speed change easily accomplished by means of a simple adjustment.

Designed for maximum tape economy, the T.P.703 utilises precision, dual track heads, one erase plus one record/playback. Maximum record time 22 minutes at $3\frac{3}{8}$ I.P.S. and 44 minutes at $1\frac{7}{8}$ I.P.S. Exceptional sound fidelity are achieved by means of a specially developed recording bias system with a signal to noise ratio of -49 d.b. Equipped with remote control switch on microphone for exact recordings of your favourite music and important conversations, etc. Housed in an attractive two-tone high impact poly-vinyl case featuring a handy snap-open plexiglass top for fast efficient tape loading, complete with remote control microphone, 3" tape, earphone, batteries and instructions.



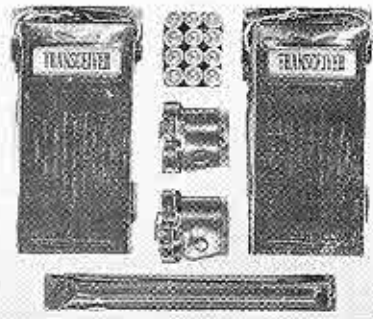
Price 17 gns.

SPECIFICATIONS

- **Transistors:** Six transistors, 1 diode, 1 thermistor.
- **Recording System:** Capstan Drive.
- **Tape Speeds:** $3\frac{3}{8}$ and $1\frac{7}{8}$ I.P.S.
- **Battery Life:** 10 hours continuous use.
- **Recording Track:** Dual Track.
- **Rewind Time:** Less than 1 1/2 minutes.
- **Output:** 150 m.W.
- **Monitor:** V.U. meter with battery level indicator.
- **Dimensions:** $9" \times 8\frac{1}{2}" \times 3\frac{1}{8}"$.
- **Weight:** 4.4 lbs.

- ★ QUALITY RECORDER WITH REMOTE CONTROL SWITCH INCORPORATED INTO MICROPHONE ★

WALKIE TALKIE MODEL STR908



PRICE
£25 Per pair

9-TRANSISTOR SELF CONTAINED TRANSMITTER/RECEIVERS



- ★ Self contained Transmitter and Receiver designed for Short range communication
- ★ Superhet Circuit Crystal controlled on Transmit and Receive. Push-pull Audio output to speaker.
- ★ Range up to 5 miles depending upon conditions.
- ★ Fitted detachable Telescopic Aerials, Volume Control, Push to talk button Belt clip.

Supplied in pairs complete with Leather cases, Batteries and Instructions.

8 WATT STEREO/MONO HI - FI AMPLIFIER

MODEL SA 80

£9.10.0



The SA-80 is a convincing example of the old adage "good things in small packages". So precisely designed that it has the look and feel of a fine camera. You can use it anywhere you would ordinarily place a book—on desk, table top, shelf or mantle, etc. The perfect choice for a low cost, high-fidelity music system.

Complete control facilities of the dual pre-amp. sections enable you to regulate stereo or monaural sounds with remarkable ease and precision. Selector switch gives you instant switching from 4 Watts per channel stereo operation to 8 Watts monaural operation. Wide range tone and volume controls provide thrilling stereo sounds in any room, even where one of your speakers cannot be placed for optimum stereo effect.

Complete facilities for connections to record players and tuners. All valves and components are mounted horizontally for compactness. Luxury styling too—the SA-80 features a deluxe, solid aluminium panel, beautifully colour styled in gold and brown with matching all gold cabinet.

Technical Specifications

Power Output	8 Watts, 4 Watts per channel
Frequency Response	—1 db, 50 to 15,000 cps.
Distortion	Less than 1% at 4 Watts, less than 2% at 8 Watts.
Sensitivity	Pick-up 5mV. Tuner 50mV.
Hum and Noise	40 db below rated output
Crosstalk	Better than 40 db at 1 Kc/s.
Tone Control	More than — 14 db at 1,000 cps. More than — 11 db at 100 cps.
Output Impedance	15/16 ohm.
Valve Lineup	2-30A5, 1-12AX7, 1-35W4.
Input	3 input sockets for each channel, i.e. pick-up ceramic, pick-up crystal and tuner.
Operating Voltage	200-250 V, 50 cycles.
Dimensions	7½" x 3" x 6".
Weight	4 lbs.

★ SUPPLIED COMPLETE WITH INSTALATION AND OPERATING MANUAL ★

● ALSO SA300 15+15 WATT PEAK £29.10.0 — LEAFLET ON REQUEST ●

● **ZEPHYR 7 MEDIUM WAVE POCKET RADIO**
7 TRANSISTOR DELUX RADIO

A truly remarkable radio, the "ZEPHYR" 730 is so compact and lightweight, you hardly know you are carrying it—turn it on and you get the biggest, clearest sound yet from a pocket set. Seven American "powertronic" transistors made by the world-famous Texas Instruments Inc. provide 300 milliwatts peak output power to bring you a new dimension in listening to small transistor radios.

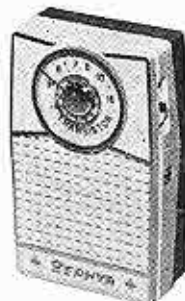
Covers entire broadcast band ... 535-1605Kcs bringing in stations sharp and clear with greater sensitivity than any other pocket radio.

Unique output circuit—"ZEPHYR'S" advanced technology makes use of distortion-free, transformerless circuitry for the clearest and sharpest sound ever built into transistor radios.

Giant gold trimmed dial, easy to read for precision tuning. New "superphonic" high impedance speaker directly coupled to output transistors eliminates distortion due to output transformers necessary in ordinary transistor radios. Acoustically matched to cabinet for rich even tone quality. Super automatic volume control—the latest technology of using Tandem AGC circuit to compensate for variations in signal strength while tuning from station to station or when moving set from one place to another, assuring constant volume for your greatest listening pleasure.

Rugged high-styled cabinet made of Dow Styron "high impact" plastic, available with gold trimmed white fronts, ebony, red, blue or white backs. 4" x 2½" x 1½". (Colours in stock vary depending upon latest deliveries.)

Complete with all accessories—fine leather carrying case, long life battery and dynamic earphone make the 730 a completely personal radio.



PRICE
79/6
pp. 1/6

● **ZEPHYR - 7 MEDIUM AND LONG WAVE POCKET RADIO**

7 TRANSISTOR 2 BAND RADIO

A delux 2-band radio for people everywhere. Tune in your favourite stations regardless of area. Choose either 535-1605Kcs medium wave or 160-280Kcs long wave with greater sensitivity than ever thought possible from a pocket size radio.

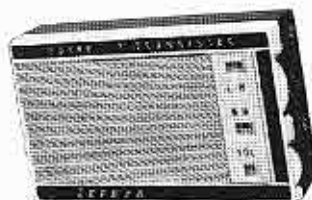
Seven perfectly matched American "powertronic" transistors made by the world-famous Texas Instrument Inc. provide compactness, power and long distance reception to give you endless hours of 2-band listening pleasure any and everywhere you go.

Includes all the exclusive "ZEPHYR" features plus extra long ferrite rod aerial for reception of distant stations most portables cannot pick up. Band change switch located on back of cabinet to select either long or medium waves.

Rugged two-tone styron cabinet with delux anodized aluminium grille available in a variety of handsome colours. 4½" x 2½" x 4½".

Complete with all accessories—fine leather carrying case, long life battery, dynamic earphone and car aerial make the 712 the most versatile personal radio.

(New model 2-Band types. Medium and long wave, only 5gns. pp. 2/6)



PRICE
£6.10.0.
pp. 1/6

★ **GALAZY - 6 MEDIUM WAVE POCKET RADIO**

Perfectly made and presented this 6-transistor and diode pocket radio represents the finest value for money obtainable today. Just the right size with full tuning of the medium waveband, providing a host of continental stations—including radio Luxembourg, as well as B.B.C. programmes.

The price includes a leather case, personal earphone (automatically cutting out the speaker), battery, earphone case and cleaning cloth. All packed in a presentation case.

★ **Fully guaranteed and tested**

Supplied ready to use in attractive presentation box complete with real leather case, earphone with case and battery

85/- pp. 1/6



OTHER RADIOS IN STOCK

* Recommended Types

★ 6-Transistor medium wave pocket radio. Complete with carry case, battery and earphone.

PRICE 69/6 pp. 1/6

★ 6-Transistor medium and long wave pocket radio. Supplied complete with leather case, Batteries, earphone etc..

PRICE £5.5.0 pp. 1/6

★ **THREE WAVEBANDS.** 7-Transistor medium, long and shortwave pocket portable. Complete with batteries, earphone and leather case.

PRICE £11.19.6 pp. 2/6

★ **ALL RADIOS ARE BRAND NEW AND FULLY GUARANTEED** ★



**TUNING AND
BATTERY
INDICATOR
MODEL R101**

This ultra-miniature tuning and battery indicator is easily mounted into portable radios, tape recorders or transmitters for indicating tuning centre and residual capacity of batteries. Galvanometer movement assures complete accuracy. Insulation resistance between case and terminals: 20 Megohms./500V. Sensitivity: 400 uA. Solder terminals are provided at rear. Plastic case cover. Complete with example circuit for use. Size: $\frac{3}{8}$ " \times $\frac{1}{2}$ " dial. Two fixing holes, $1\frac{1}{16}$ " centre, 1" overall front to back with $\frac{3}{16}$ " behind panel including terminals. **24/6 Post Free**



AVO MODEL 8 Mk III
Brand new in makers cartons complete and fully guaranteed
£24 pp. 5/-

★ SEE PAGES 64 AND 65 FOR FULL RANGE OF MULTI-RANGE TEST-METERS.

● QUALITY EQUIPMENT

AVO MULTIMINOR
Brand new Mk4 version. Fully guaranteed complete.

£9.10.0 pp. 2/6

STEREO BALANCE METER—Model SB305



★ FOR CORRECT BALANCING OF STEREO.

★ METER SENSITIVITY 100 MICROAMPS. RESISTANCE 280 OHMS. CENTRE ZERO.

● Overall size $1\frac{3}{8}$ \times $\frac{7}{8}$ \times $1\frac{5}{8}$ inches. $1\frac{1}{16}$ " fixing centres.

★ METER CAN OF COURSE BE USED FOR MANY OTHER APPLICATIONS.

Price 25/- pp. 1/-

★ FOR REAL STEREO A BALANCE METER MUST BE USED ★

PLEASE NOTE PAGE 61. Type A 500 Microamp 27/6 0/1 mA, 0/5 mA, 0/300 volts now 25/-

PANEL METERS

EXTENDED RANGE OF TYPE A METERS
(SEE PAGE 61 OPPOSITE)

● Postage and Packing 1/6 per meter or 2/- for two.

50 Microamp.	DC	...	...	...	...	32/6
100	"	"	...	...	...	29/6
200	"	"	...	...	...	27/6
500	"	"	...	...	...	27/6

15 Volts AC	} Moving coil rectifier type. 1000 ohms per volt.	} Price 25/- each.
50 " "		
300 " "		
15 Volts DC	} Resistance 1000 ohms per volt.	} Price 25/- each.
20 " "		
50 " "		
300 " "		

1 Milliamp.	DC	} Price 25/- each.
5	"	
10	"	
50	"	
100	"	
500	"	
0/5 Amp	"	

● BRAND NEW FULLY GUARANTEED. ●

★ LARGE RANGE OF TEST EQUIPMENT IN STOCK FOR ALL PURPOSES ★



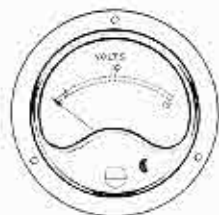
'A'

● TYPE A

Precision built clear plastic miniature DC moving coil panel meters.

Featuring jewelled bearings, silvered dials with black numerals and pointers. Accuracy 2% of full scale.

Size $1\frac{1}{2}$ " square front, $1\frac{1}{2}$ " overall front to back including terminals. Requires $1\frac{1}{2}$ " diameter hole in panel, four corner holes with $1\frac{1}{4}$ " centres. Supplied complete with mounting screws, etc.



'C'

● BLACK BAKELITE PANEL METERS

Precision built DC moving coil dual bearing meters. Accuracy 2% of full scale. Silvered dials with black numerals and pointers. Rugged and reliable meters.

TYPE B. Size $1\frac{1}{8}$ " square front, $1\frac{1}{2}$ " overall front to back with $\frac{1}{8}$ " behind panel including terminals. Requires $1\frac{1}{2}$ " diameter hole in panel, four corner holes with $1\frac{1}{2}$ " centres.



'B'



'BI'



'D'

AC—Alternating current.

MI—Moving iron.

TC—Thermo-couple.

MC—Moving Coil

RF—Radio Frequency.

*—Centre Zero

DC—Direct Current

● 3 in. square as type 'A'. Available as 1mA D.C. only

Price 49/6 p.p. 1/6

EDGE WISE PANEL METERS

(MODEL EW16)

★ 200 MICROAMP 69/6

★ 1mA METER 59/6



INDIVIDUALLY BOXED AND FULLY GUARANTEED

SIZE $3\frac{1}{4} \times 1 \times 3\frac{1}{2}$ IN.

● $2\frac{1}{2}$ inch centre zero two range voltmeter. Reading 3-0-3 volts and 30-0-30 volts. Ideal for transistor circuits. 12/6

ALL DC MOVING COIL TYPES

TYPE 'A'	0/50 MICROAMP	...	...	32/6
"	0/500	"	...	25/-
"	0/1 MILLIAMP	...	...	22/6
"	0/5	"	...	22/6
"	0/300 VOLTS (D.C.)	...	...	22/6
"	1mA 'S' METER	...	...	29/6
"	1mA with built in light (6 volt)	...	...	35/-

TYPE BI Size $2\frac{1}{8}$ " square front, $2\frac{1}{2}$ " overall front to back. Requires $2\frac{1}{2}$ " diameter hole, 4 corner holes $1\frac{1}{2}$ " centres.

TYPE C Size $3\frac{1}{4}$ " diameter, $1\frac{1}{2}$ " overall front to back including terminals. Requires $2\frac{3}{8}$ " diameter hole in panel. 3 fixing holes on $2\frac{1}{2}$ " triangle.

TYPE D Size $2\frac{1}{2}$ " diameter, $2\frac{1}{2}$ " overall front to back including terminals. Requires $1\frac{1}{2}$ " hole in panel.

TYPE DI As type D, but overall diameter $2\frac{1}{2}$ "

0/50 MICROAMP	MC (DC)	TYPE B	...	39/6
0/50	"	MC (DC)	" B1	35/-
0/500	"	MC (DC)	" B	32/6
0/500	"	MC (DC)	" C	20/-
0/750	"	MC (DC)	" DI	17/6
0/1 MILLIAMP	MC (DC)	" C	...	30/-
* $2\frac{1}{2}$ -0- $2\frac{1}{2}$	"	MC (DC)	" C	12/6
0/5	"	MC (DC)	" B	27/6
x 0/5	"	MC (DC)	" C	20/-
0/15 VOLT	MI (AC)	" C	...	8/6
0/300	"	MC (DC)	" B	27/6
0/3 or $3\frac{1}{2}$ AMP	TC (RF)	" B1	...	6/-
0/6	"	TC (RF)	" C	10/-
0/12	"	TC (RF)	" C	10/-

(x-scaled 0 to 3 K. volts)



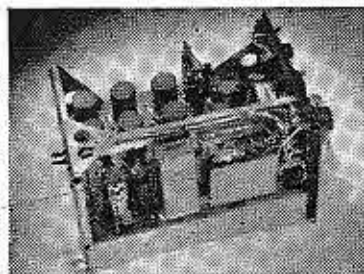
'S' METER

Standard ham signal strength indicator. Calibrated from 0 to 9 and +10 to +30dB. Also 0/5 and 0/10 linear scales. 1 mA meter sensitivity. $1\frac{1}{2}$ in. square \times $1\frac{1}{2}$ in. deep. 29/6

4x4 in. METERS (AS TYPE A)

New range of large size Clear Faced Panel Meters. Brand New and Boxed.

0/50 MicroAmp 0/100 MicroAmp 0/1 MilliAmp
69/6 p.p. 1/6 59/6 p.p. 1/6 45/- p.p. 1/6



STROBE UNIT

Brand new in cartons.
Ideal for experimentation
or breakdown.

Contains 12 valves,
6-EF50: 5-EA50: SP61

Also Relays, Transformers,
Controls, Chokes,
Switches, Condensers, etc.

WELL BUILT UNIT—BRAND NEW **37/6** p.p. 2/-

RF WATT METER

Type TS A7/AP

New units built into black crackle
finish case. General purpose watt
meter fitted with large sensitive
selenium light cell. RF is fed to
lamp, lamplight falls on cell which
operates 220 microamp meter.
Ranges 0/10/20/30 watts.

Complete with calibration charts
in wood case.

£5-10-0 Brand new

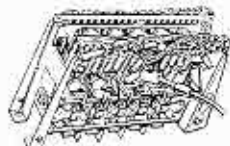


VHF 2-METRE EQUIPMENT

— TRANSMITTER — RECEIVER — I.F.S. — MODULATOR —
★ CRYSTAL CONTROLLED.

★ 9.72 Mc/s IF.

★ MOBILE OR FIXED STATION



(RECEIVER CHASSIS)

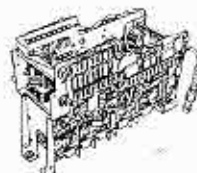
IDEAL FOR ALL
120 to 150 Mc/s APPLICATIONS.
CAN BE MODIFIED FOR OTHER
VHF FREQUENCIES.

TYPE 1985/86

COMPLETE UNITS COMPRISING RECEIVER, TRANSMITTER, IF STRIP MODULATOR, CRYSTAL ETC. BUILT INTO ORIGINAL CASINGS IN GOOD CONDITION.

LESS VALVES
AND DYNAMOTOR.

15/- EACH CARRIAGE 7/6
With Circuit.



(TRANSMITTER CHASSIS)

★ CIRCUIT DIAGRAMS 1/9
SEPARATELY post free.

- ★ VALVES AND TUBES
PAGES 23/24/25
- ★ QUARTZ CRYSTAL UNITS.
PAGES 20/21/22
- ★ SILICON RECTIFIERS
PAGES 26/27.
- ★ TEST INSTRUMENTS
PAGES 64/65
- ★ TRANSISTORS
PAGES 28/29
- ★ PANEL METERS
PAGE 60/61

VIBRATORS

Post and packing 9d.



2 volt 7 pin synchronous	7/6
6 4 non ..	7/6
6 .. 5	12/6
6 .. 7 synchronous	12/6
6 .. 7 .. (centre pin)	12/6
12 .. 4 .. non synch.	5/-
12 .. 4 .. Plessey	7/6
12 .. 6 .. synchronous	12/6
12 .. 7	12/6

VOLTAGE REGULATORS

Nominal input 230 volts AC
50/60 cycles. Output 0 to 260
volts. Fully shrouded.

2.5Amp Type £5.17.6 pp. 7/6
Weight 9½ lbs.

5Amp Type £9.0.0 pp. 10/6
Weight 16½ lbs.

10Amp Type £16.10.0 pp. 10/6
Weight 32 lbs.

Portable 2½ Amp. Type with
output metre weight 13 lbs.

Price £9.17.6 pp. 10/6

Brand new stocks fully guaranteed

AN/ARN-50 RECEIVERS

3-channel crystal controlled VHF receiver 332 to 335 Mc/s contains 6 miniature relays 7-6AJ5; 12SR7; 2- 12SN7; 28D7; 11 valves in all! IF'S, etc., in black crackle metal boxes.

only **59/6** p.p. 3/6

High stability transistor amplifiers. Comprising 10 OC201 Transistors. Rectifiers Tantalum Capacitors etc. in die-cast cases.

£5 each.

Morse Key

Miniature fully enclosed key with leads.

3/6 p.p. 1/-

LOW IMPEDANCE
MAGNETIC THROAT
MICROPHONES

4/6 pp. 9d.

BRAND NEW

LARGE RANGE OF
SURPLUS UNITS AL-
WAYS IN STOCK.

PLEASE CALL IN

Blower Motor

12/24 volt blower.
Die-cast casing
with nozzle.

12/6 p.p. 1/6

Dekatron

Ericsson GS12C
(CV1740) bi-di-
rectional 12 way
selector display
tube.

22/6 Brand new

DEKATRON

Ericsson GS10CS
(CV2325) Display
tubes complete with
base.

25/-
(Brand New)

Motor

24 volt 2½ x 2 x 2 in.
motor ideal for
models, etc.

8/6 p.p. 1/6

Flux Meter HEAD

Type AP58150 Head
with Indicator

7/6 p.p. 1/6

931A (CV2696) PHOTO MULTIPLIER

Brand new **60/-** p.p.
1/-, Base 2/-

Special purpose ver-
sion 931A-CV337
80/- p.p. 1/-

● HENRY'S RADIO LTD., FOR EQUIPMENT FOR THE AMATEUR ●



HALOGEN QUENCHED GEIGER LIQUID COUNTER TUBE

CV2886—TYPE M2H

Operating voltage ...	370 volts average
Plateau length ...	100 " min.
" slope ...	3% per 100 volts
Overall size ...	95 x 25 mm.
Capacity ...	5 ml.

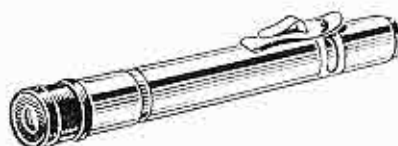
Thin wall beta counters giving fixed source geometry with liquid samples high stability and long life makes the tubes ideal for standardisation. Stainless iron helical cathodes.

22/6 p.p. 1/6

Fitted with rubber jacket.

QUARTZ FIBRE POCKET DOSIMETER

SIZE 4½ x 0.6 inches



Limited quantity of these portable radiation measuring pocket instruments. Supplied in airtight containers. Two types available.

0—150r ...	12/6 each p.p. 1/-
0—500r ...	12/6 each p.p. 1/-

CRYSTAL SWITCHING UNIT

Fitted 6 two pin Crystal sockets, coils, ceramic switch etc.

7/6 pp. 1/6

RF TUNER UNIT

RF 25 Switched tuning covering 30-40 Mc/s; Contains 3-VR65 valves, complete in metal case, size 8½ x 7 x 4 inches. Output 7.5 Mc/s IF.

10/- p.p. 2/6 with circuit.



EDWARDS High Vacuum Gauge Head

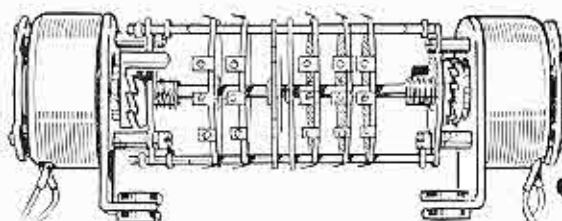
Type M6
Brand new

15/- each. p.p. 1/6

GAMMA PROBE UNIT

Type 1292A with CV2147 (G24H) GEIGER tube (400 volt) built into rubber covered "T" shape container

Brand new. 75/- p.p. 1/6



24 VOLT DC OPERATION FITTED TWO ACTUATORS FOR REVERSING PURPOSES FITTED AT LEAST 5 BANKS OF CONTACTS. SMALL SIZE EACH ACTUATOR IS ONLY 1¼ INCH DIAMETER.

A MINIATURE AND COMPACT FORM OF UNISELECTOR—BRAND NEW

MINIATURE LEDEX ELECTRICALLY OPERATED SWITCHES

● AS ILLUSTRATED WITH DOUBLE ACTUATOR ... 45/-

Also single actuator single set of contacts (few only) ... 25/- pp. 1/6

100-150 volt DC 6 banks of contacts (few only) 45/- pp. 1/6

MARCONI No. 19 SET CRYSTAL CALIBRATOR



● Crystal controlled oscillators with spot frequencies at 10 kc/s, 100 kc/s and 1 Mc/s on/off modulator, etc., contains 3 - 12SC7 valves and 2 built in spares. Size 8½ x 4½ x 2 in. Supplied complete with full handbook. (Available separately 2/6)

79/6
p.p. 1/6

PYE BRIDGE UNIT Type 1



Built into varnished wood cabinet with black control panel. Fitted precision controls and switches. Galvo shunt, etc. Brand new in perfect condition, size 10 x 6½ x 4½ in. Ideal for laboratory use.

27/6 pp. 2/6

- ★ 4-Figure pulse counter, 0/9999 3/6 volt/Amp. Size 4 x 1 x 1 inch. Brand new boxed. Price 10/- pp. 9d.
- ★ Cadmium plated 7 pin plugs and sockets with plug cover 5/6 pp. 6d.
- ★ 100 yard reels multistrand wire PTFE covered 12/6 pp. 1/-
- ★ 6 Pole 2 way push on release off miniature switch size 1 x 1 x 1 inch. Price 6/- pp. 6d.
- ★ ORP12 Cd. cell 9/6 and ORP60 5/-

- ★ Bulgin bulb holder. M. E. S. type Chromed with red glass ... 2/6
- ★ 12 volt 700 ohm relay 2 pole 2 way 7/6 pp. 9d.
- ★ Siemens high speed relay. Sealed type 1 pole 2 way, 1K+1K or 1.7K+1.7K 15/- each pp. 9d.
- 12 volt 700 ohm relay 4 pole 2 way 15/- each pp. 9d.

See Page 29 for full range of Relays

If you are unable to find in this catalogue the component or equipment you require please contact us, our stocks are continually changing and therefore we may be able to help.

TEST METERS

ANYONE WHO USES A SOLDERING IRON KNOWS THAT WHEN HE WANTS TO BUILD, SERVICE OR DESIGN ANYTHING TO DO WITH RADIO OR ELECTRONICS — A MULTI-RANGE TEST METER IS A MUST

REMEMBER! YOU ARE ONLY GUESSING WITHOUT A TEST METER—GUESSING CAN BE VERY EXPENSIVE AND TAKES THE FUN OUT OF ELECTRONICS.



MODEL PT34

PT34
 DC VOLTS : 0/10/50/250/500/1,000 (1,000 ohms/volt)
 DC CURRENT : 0/1/100/500mA
 AC VOLTS : 0/10/50/250/500/1,000 (1,000 ohms/volt)
 RESISTANCE : 0/100 kohm (3kohm half scale)
 SIZE : $3\frac{1}{8} \times 2\frac{3}{8} \times \frac{1}{4}$ in.

1000 ohms
per volt

Complete with battery
 Test Leads and **£1.19.6** p.p. 1/6
 Instructions



MODEL THL33

THL33
 DC VOLTS : 0/10/50/250/500/1,000 (2,000 ohms/volt)
 DC CURRENT : 0/500 microamp, 0/10/250mA
 AC VOLTS : 0/10/50/250/500/1,000 (2,000 ohms/volt)
 RESISTANCE : 0/10k/100k/1 megohm
 (100 ohms : 1k, 100k half scale readings)
 CAPACITY : 250pf to 0.1mfd
 dB : -20 to +22dB and +20 to +36dB
 SIZE : $5 \times 3\frac{1}{2} \times 1\frac{1}{2}$ in.

2000 ohms
per volt

Complete with battery,
 Test leads and full **£3.15.0** p.p. 1/6
 Instructions

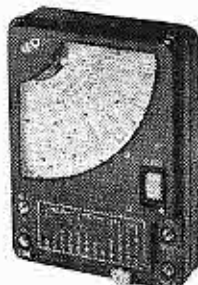


MODEL M1

M1
 DC VOLTS : 0/6/30/120/600/1,200 (2,000 ohms/volt)
 DC CURRENT : 0/30/300mA
 AC VOLTS : 0/6/30/120/600/1,200 (2,000 ohms/volt)
 RESISTANCE : 0/100kohm (2kohm half scale reading)
 SIZE : $4 \times 3 \times 1\frac{1}{2}$ in.

2000 ohms
per volt

Complete with battery,
 test leads and **£2.9.6** p.p. 1/6
 full instructions



MODEL EPI0K

EPI0K
 DC VOLTS : 0/5/25/100/500/1,000 (10,000 ohms/volt)
 DC CURRENT : 0/100 microamp, 0/250mA
 AC VOLTS : 0/5/25/100/500/1,000 (10,000 ohms/volt)
 RESISTANCE : 0/30K : 0/3 Meg.
 (150ohm and 15Kohm Half scale readings)
 dB : -20dB to +16dB
 ACCURACY : DC voltage and current $\pm 2\%$ FSD.
 AC voltage $\pm 4\%$ FSD.
 Resistance $\pm 3\%$
 SIZE : $4\frac{1}{2} \times 3 \times 1\frac{1}{4}$ inch

10,000 ohms
per volt

* LEATHER CASE
 19/6 extra

Complete with battery,
 Test Leads and **£3.19.6** p.p. 1/6
 full instructions

All the meters described feature easy to read scales and clearly marked range selectors — comprehensive instruction manuals and without doubt the best value and quality obtainable.

Suitable for the service engineer — home constructor — mobile tests — schools — design laboratories — electrical and electronics trades.

● BRAND NEW AND FULLY GUARANTEED ●

See page 66 for valve
 Voltmeters.



MODEL ITI-2
(or 200H)

ITI-2
(or 200H)

DC VOLTS : 0.5/2.5/250/500/2,500 (20,000 ohms/volt)
 DC CURRENT : 0.50 microamp, 0.25/250mA
 AC VOLTS : 0.10/50/100/500/1,000 (10,000 ohms/volt)
 RESISTANCE : 0.6k/6 megohm
 (300 ohms and 30kohm centre scale reading)
 CAPACITY : 10pf to 0.001 mfd and 0.001mfd to 0.1 mfd
 dB : -20 to +22dB
 SIZE : 4½ x 3½ x 1½ in.

20,000 ohms
per volt

Complete with Battery 89/6 p.p. 1/6
 Test leads and full instructions (Carry case 13/6 extra)



MODEL TP55

TP55

DC VOLTS : 0.10/50/250/500/1,000 (20,000 ohms/volt)
 DC CURRENT : 0.50 microamp, 0.5/50/500mA
 AC VOLTS : 0.10/50/250/500/1,000 (10,000 ohms/volt)
 RESISTANCE : 0.10k/100k and 0.1meg/10meg
 CAPACITY : 50pf to 5000pf and 5000pf to 0.1mfd
 dB : -20 to +36dB
 SIZE : 5½ x 3½ x 1½ in.

20,000 ohms
per volt

★ Leather case
25/- extra

Complete with battery, Test leads and full instructions £5.19.6 p.p. 1/6



MODEL 500

500

DC VOLTS : 0.5/1/2½/10/25/100/250/500/1,000 (30,000 ohms/volt)
 DC CURRENT : 0.50 microamp, 0.5/50/500mA, 0.12 amps
 AC VOLTS : 0.2½/10/25/100/250/500/1,000 (15,000 ohms/volt)
 RESISTANCE : 0.60k/6 meg/60 meg (350 ohms 35k and 350k
 midscale readings)
 SHORT TEST : INTERNAL BUZZER FOR CONTINUITY TEST
 dB : -20 to +56dB (0dB = 1mW 600 ohms)
 OUTPUT : 7-RANGE OUTPUT METER
 SIZE : 6½ x 4½ x 2½ in.

30,000 ohms
per volt

★ Leather case
29/6 extra

Complete with batteries test leads and full instructions £8.19.6 pp. 2/-



MODEL EP30K

EP30K

DC VOLTS : 0.5/1/10/50/250/500/1000 (30,000 ohms/volt)
 DC CURRENT : 0.50 microamp, 0.10/250mA
 AC VOLTS : 0.10/50/250/500 (12,000 ohms/volt)
 RESISTANCE : 0.10K/10Meg.
 DECIBELS : -10dB to +22dB
 ACCURACY : DCV, DC current ± 3%
 RESISTANCE ± 3%, ACV ± 4%
 SIZE : 4½ x 3½ x 1½ in.

30,000 ohms
per volt

★ Leather case
19/6 extra

Complete with batteries Test Leads and full instructions £6.10.0 pp. 2/-



MODEL EP50K

EP50K

DC VOLTS : 0.10/50/250/500/1,000 (50,000 ohms/volt)
 DC CURRENT : 0.25 microamp, 0.25/25/250mA.
 AC VOLTS : 0.10/50/250/500/1,000 (10,000 ohms/volt)
 RESISTANCE : 0.10K/100K/1 meg/10 meg.
 DECIBELS : -20dB to +20dB : +20dB to +36dB.
 CAPACITANCE : 0.001mfd to 0.1mfd
 INDUCTANCE : 10H to 5,000H.
 ACCURACY : DCV : DC CURRENT ± 3%
 ACV and dB ± 4%
 SIZE : 6½ x 4½ x 2½ in.

50,000 ohms
per volt

(Leather case 29/6)

Complete with batteries Test Leads and full instructions £9.10.0 pp. 2/-

Also MODEL EP100K

100,000 OHMS PER VOLT Version of EP50K (see page 90) £10.19.6 p.p. 2/- (Leather case 29/6)

VALVE VOLTMETER

RANGES.

- **DC VOLTAGE - POSITIVE AND NEGATIVE.**
0/1½/5/15/50/150/500/1500 Volts.
(Lowest reading is 100 microvolts.)
Accuracy BS in. × 3.
Sensitivity 7.33 Megohm/Volt. 1½ v. Range.
- **AC VOLTAGE - RMS.**
0/1½/5/15/50/150/500/1500 Volts.
(Lowest reading 100 microvolts.)
- **AC VOLTAGE - PEAK TO PEAK.**
0/4.2/14/42/140/420/1400/4200 Volts.
(Lowest reading 100mV.)
- **RESISTANCE - From 0.2 ohm to 1000**
Megohm, in 7 ranges.
0/10/100/1K/100K/1Meg/10Meg.
Centre Scale Accuracy ± 3% of Scale.

● AC/DC VACUUM TUBE VOLT OHM METER ● RMS AND PEAK TO PEAK AC SCALES

- A high stability AC mains operated instrument. Features meter size 3½ × 3½ in. of 195 microamps. DC input impedance 11 megohms. AC sensitivity 7.33 Meg/Volt. Frequency response (without optional RF probe) ±3% 50c/s to 2Mc/s or ±10% 25c/s to 4 Mc/s.
- Measures DC voltage positive and negative. AC Rms and AC peak to peak and resistance. Pointer can be adjusted for centre zero.
- Overall size 7½ × 4½ × 5 ins.
Weight 4½ lbs.



Price

£13-19-6 pp. 2/6

Complete with
manual and
AC/DC Probe

- ★ RF probe to extend frequency range to 100 Mc/s 40/- extra.

FULLY GUARANTEED.
LEAFLET ON REQUEST.

VALVE VOLTMETER



AC/DC VACUUM TUBE MILLIVOLT OHM PLUS 1 Kc/s TEST OSCILLATOR

- ★ **DC Voltmeter.**
Range: 100mV to 1,500V on 7 switched ranges.
- ★ Accuracy ±3% of full scale.
Input resistance: 11 Megohms.
- ★ **Resistances.**
Range: 0.1 ohms to 1,000 Megohms, switched on 7 ranges.
- ★ Accuracy: ± 5% at centre of scale.
dB Scale: -30dB to +65 dB O dB;
1mW in 600 ohms.

★ AC Voltmeter.

Range: 5mV to 1,500V on 10 switched ranges.

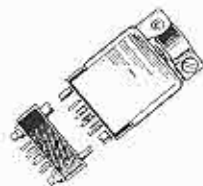
- ★ Accuracy ±5% of full scale.
Frequency range: 20 cps to 4 Mc.
Frequency response: 0-500mV
(20cps. to 150 Kc.).
1.5 to 150V (4 Mc).
1.5V to 1,500V
(20cps. to 4 Mc ±1db).
Input Impedance: 11 Megohms.
Test Source: 1Kc. ±10%.

- ★ Test probe fitted with BUILT IN AC/DC switch, no fumbling or fiddling with Knobs.
Operates from Mains source. 240V. A.C. 50 c.p.s.
Size: 5½" × 3" × 6".
Weight: 5½ lbs.
In attractive light grey crackle case, with satin alloy front.

This superbly finished instrument, made to the highest standards, is capable of innumerable tests in Laboratories and Production departments due to this remarkable specification:

Price £35

WITH TEST PROBES.



MINIATURE PLUG AND SOCKET

7 Pin cadmium plated pins. Plug with cover size 7/8 × 2/8 × 1/4 inch inclusive of pins. Socket 2/8 × 1/8 × 3/8 inch two hole fixing.

Price 5/- pp. 6d.

TRANSISTOR SIGNAL INJECTOR

A pocket size signal injector for checking valve or transistor radios for faults. Consists of transistor printed circuit oscillator with a long life built-in battery supply. Features a removable probe and lamp to light up circuit under test. Ready for use with instructions.

Model
IT-1

37/6 p.p. 1/6



HARMONIC OUTPUTS UP TO 3 TO 4 Mc/s
IDEAL FOR CHECKING ALL TYPES OF
CIRCUIT.

● PROFESSIONAL QUALITY INSTRUMENT ●

"TMK" TRANSISTORISED INSULATION TESTER MODEL 521 WITH LEATHER CARRYING CASE

Designed for rapid testing and checking of electric circuits, appliances and components. A transistor DC-DC converter is employed to supply the high potentials, and is operated from 2-1.5 volt cells. There are three testing voltages, 100, 200 and 500 volts, to measure up to 500 megohms.

The tester is housed in a strong steel case, making it suitable for use in the field, factories and service workshops. It is complete with test leads and leather carrying case.



SPECIFICATION:

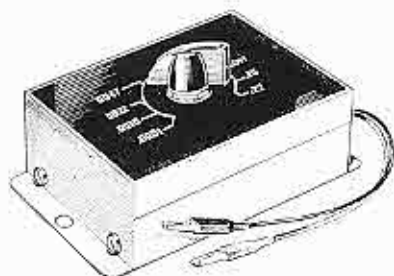
Ranges	Volts	Resistance
	100	0-100 Meg
	250	0-200 Meg
	500	0-500 Meg
Size	7 ins x 4½ ins x 4 ins.	
Weight	3 lbs 5 ozs.	

£17.10.0 pp. 5/-

● FOR FIXED, MOBILE
OR FIELD USE.

CAPACITANCE SUBSTITUTION BOX

- 9 RANGES FROM
0.000 1mFD TO 0.22mFD



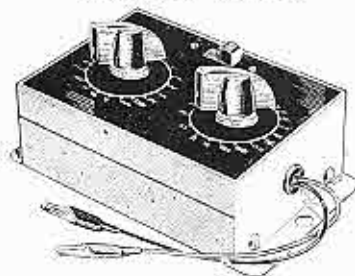
A must for the Serviceman or Design Engineer. Fast accurate selection of 9 standard value 600 volt working ceramic coated condensers. Built into metal box with calibrated dial. Fitted 36" red/black leads with croc. clips.

22/6 p.p. 1/-

Unit size 4 x 2½ x 1½ inches

RESISTANCE SUBSTITUTION BOX

- 24 RANGES FROM
15 OHMS TO 10 MEGS



Ideal for design or service application. Provides 24 accurate standard resistors for circuit substitution. Easy to find correct bias values for all types of circuit.

Two switched ranges: 15 ohm to 10K rated 1 watt and 15K to 10 meg. rated ½ watt. Fitted 36" red/black leads with croc. clips.

32/6 p.p. 1/-

Unit size 4 x 2½ x 1½ inches.

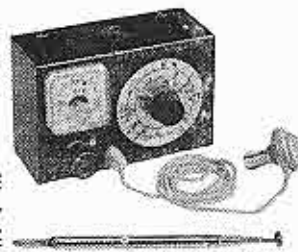
ALL WAVE FIELD STRENGTH METER MODEL FL30H

- 5-SWITCHED BANDS 1MC/S TO 200MC/S.
- 200 MICROAMP METER INDICATION FOR RF; PHONE FOR AF.

A MINIATURE WAVE-METER FOR CHECKING TRANSMITTER OUTPUTS. DETERMINES RELATIVE STRENGTH OF FUNDAMENTAL FREQUENCY AND ANY HARMONIC OR PARASITIC RADIATION. COMPLETE AND SELF CONTAINED TELESCOPIC AERIAL AND EARPHONE INCLUDED. TO USE, SELECT REQUIRED FREQUENCY BAND, TUNE UNTIL METER INDICATES THE RF TRANSMISSIONS. LISTENING ON THE EARPHONE WILL ENABLE YOU TO HEAR THE MODULATION NOTE OR TO MONITOR AUDIO.

BANDS: 1. 1MC/S TO 3½MC/S. 2. 3½MC/S TO 9MC/S. 3. 9MC/S TO 25MC/S.
4. 25MC/S TO 90MC/S. 5. 90MC/S TO 200MC/S.

A MUST FOR ANY TRANSMITTER — IDEAL FOR RADIO CONTROL



62/6 POST FREE

WIDE RANGE TRANSISTORISED
Nombrex Model 2

CAPACITANCE - RESISTANCE BRIDGE

RANGES

- (1) 1 ohm to 10K ohms.
- (2) 100 ohms. to 1 megohm.
- (3) 10K ohms to 100 megohms.
- (4) 1 pf. to 0.01mfd.
- (5) 100pf. to 1 mfd.
- (6) 0.01mfd. to 100mfd.

£8.5.0 pp. 2/6
COMPLETE WITH BATTERY
AND INSTRUCTIONS.

PROVIDES QUICK AND RELIABLE MEASUREMENT OF CAPACITANCE UP TO 100MFD AND RESISTANCE UP TO 100 MEG-OHMS. FEATURES CLEARLY MARKED DIAL, INDICATOR TUBE, POWER FACTOR AND LEAKAGE CHECK FACILITIES, PRINTED CIRCUIT CONSTRUCTION. FULLY PORTABLE BATTERY OPERATED INSTRUMENT. IDEAL FOR AMATEUR, PROFESSIONAL AND COLLEGE USES. FEATURES 3-TRANSISTOR, 2-DIODE CIRCUIT.



Size 6 $\frac{5}{8}$ " x 4 $\frac{1}{8}$ " x 2 $\frac{1}{8}$ " in.
Weight under 2lbs.

★ DETAILED LEAFLET ON REQUEST ★

WIDE-RANGE ALL TRANSISTOR
Nombrex Model 27

Signal Generator



Size 6 $\frac{5}{8}$ " x 4 $\frac{1}{8}$ " x 2 $\frac{1}{8}$ "
Weight under 2 lbs.

Covers radio broadcasts and I.F. band. All amateur, V.H.F., shipping and television channels up to 350 Mc/s.

- ★ 149 KC/S TO 350 MC/S IN 8 RANGES.
- ★ OUTPUT : RF AND IF, AF, MODULATED RF.
- ★ FULL RF ATTENUATION.
- ★ 1 KC/S 1 VOLT RMS AF OUTPUT.

RANGES

- (1) 149 Kc/s — 438 Kc/s.
- (2) 425 Kc/s — 1.25 Mc/s.
- (3) 1.18 Mc/s — 3.83 Mc/s.
- (4) 3.4 Mc/s — 10.75 Mc/s.
- (5) 9.8 Mc/s — 34.1 Mc/s.
- (6) 29.5 Mc/s — 69 Mc/s.
- (7) 56 Mc/s — 166 Mc/s.
- (8) 118 Mc/s — 350 Mc/s.

OFFERS PERFORMANCE COMPARABLE WITH MOST STANDARD SIZE INSTRUMENTS SELLING IN THE HIGHER PRICE RANGES. THE WIDE FREQUENCY RANGE, ROBUST CONSTRUCTION AND EASY PORTABILITY MAKE IT THE IDEAL ALL-PURPOSE INSTRUMENT FOR RADIO AND TELEVISION SERVICE ENGINEERS, TECHNICAL COLLEGES AND INSTITUTES, AMATEUR ENTHUSIASTS AND TECHNICAL LABORATORIES. PRINTED CIRCUIT DESIGN BUILT INTO A ROBUST METAL CASE WITH EASY TO READ FRONT PANEL. FULLY PORTABLE AND BATTERY OPERATED.

★ 12 MONTHS
GUARANTEE

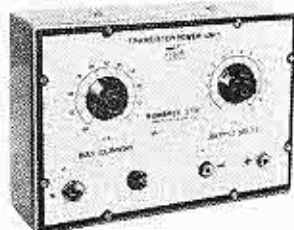
£9.10.0 pp. 2/6
INCLUDING BATTERY
TEST LEAD & INSTRUCTIONS

SUPPLIED COMPLETE WITH INSTRUCTIONS AND CIRCUIT.

★ FULLY DESCRIPTIVE LEAFLET ON REQUEST ★

TRANSISTOR POWER SUPPLY UNIT

Also see
Page 66



Size 6 $\frac{5}{8}$ " x 4 $\frac{1}{8}$ " x 2 $\frac{1}{8}$ "
Weight under 2lbs.

NOMBREX MODEL 61.

A TRANSISTORISED REGULATED MAINS OPERATED POWER SUPPLY UNIT PROVIDING SMOOTH DC OUTPUT FROM $\frac{1}{2}$ VOLT TO 15 VOLTS. ANY VOLTAGE UP TO 15 AT ANY CURRENT FROM 2MA. TO 100MA. DESIGNED FOR RUNNING OR TESTING TRANSISTOR RECEIVERS, AMPLIFIERS AND OTHER EQUIPMENT ELIMINATING THE INCONVENIENCE AND EXPENSE OF USING DRY BATTERIES. SUPPLIED WITH INSTRUCTIONS — MAINS CABLE — PLUGS — FULLY FUSED.

£6.10.0 pp. 2/6
With full instructions:

FULLY GUARANTEED AND TESTED

★ DETAILED LEAFLET ON REQUEST ★

★ See page 66 for NEW ADDITIONS to TEST EQUIPMENT ★

WIDE RANGE AUDIO GENERATOR

Nombrex Model 63

RANGES

- (1) 10 to 100 c/s
- (2) 100 to 1Kc/s
- (3) 1Kc/s to 10Kc/s
- (4) 10 Kc/s to 100 Kc/s

Features 5-Transistors; Controlled when bridge oscillator with thermal automatic control of output voltage sine wave. Separate triggered circuit for square wave output. Maximum output 1 volt peak from 1 Kohm. Three position attenuator and continuously variable control. 1dB voltage constant stability over entire range.



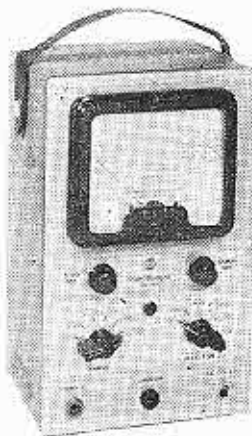
£16.15.0 pp. 2/6

Complete with battery, test lead & instructions.

Size $6\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{2}$ in.
Weight under 2 lbs.

● DETAILED LEAFLET ON REQUEST ●

PORTABLE Valve Voltmeter Type 195-A Made by Electronic Designs for R.C.A.



Size $9\frac{1}{2} \times 6 \times 6$ in.

- DC ELECTRONIC VOLTMETER
0/3/10/30/100/300/1,000 VOLTS. INPUT RESISTANCE, CONSTANT ON ALL RANGES, 11 MEGOHM, SENSITIVITY 3 666,666 OHMS PER VOLT ON 3 VOLT RANGE.
- AC VOLTMETER (DIRECT READING)
0/10/30/100/300/1,000 VOLTS SENSITIVITY 1,000 OHMS PER VOLT.
- ELECTRONIC OHMMETER
0/1k/10k/100k/ 1 meg/10 meg/1,000 meg ohms. 6-ranges.
- 110/250 VOLTS AC MAINS INPUT.

- METER MOVEMENT 200 microamps DC ACCURACY $\pm 2\%$.
- ALL SCALES ARE SUB-DIVIDED SO THAT VERY SMALL ACCURATE DIFFERENCES CAN BE READ. SCALE SIZE IS 4 in. CLEARLY MARKED WITH INDIVIDUAL AC AND DC SCALE MARKINGS. A KNIFE EDGE POINTER IS USED. CLEARLY MARKED RANGE SELECTOR SWITCHES. ZERO AND OHMS ADJUST CONTROLS ARE PROVIDED.

Price **£9.19.6**
p.p. 5/-
Fully guaranteed

Complete with Instruction Book, circuit, test and leads.

THE IDEAL INSTRUMENT FOR PROFESSIONAL, AMATEUR OR RESEARCH.

WIDE RANGE ALL TRANSISTOR MODEL 66



Allows measurement of inductance from $1\mu\text{H}$ to 100H, 'Q' and tan δ measurements. Features two directly calibrated scales and moving coil edge wise panel meter. Clearly marked scales and control switches.

All transistor printed circuit design comprising source oscillator and amplifier coupled to bridge circuits. Full selective negative feed back.

Size $6\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{2}$ in. Weight under 2lbs.

INDUCTANCE BRIDGE

RANGES

★ INDUCTANCE

1 Microhenry	to	100 μH
100 μH	to	10mH.
10mH	to	1.0H.
1.0H	to	100H.

Accuracy $\pm 5\%$

★ 'Q' MEASUREMENT AT 1592 C/s (i.e. $W=10,000$)
0.1 to 1000

★ TAN δ MEASUREMENT
10 to 0.001

Price **£18** p.p. 2/6 Complete with battery and instructions.

● DETAILED LEAFLET ON REQUEST ●

"Lafayette"

AMERICAN
RECORDING TAPE

BRAND NEW
AND BOXED

FULLY
GUARANTEED



ACETATE BASE

5 inch Standard	600ft	...	...	8/6
5 inch Long play	900ft	...	...	10/-
5 1/2 inch ..	1200ft	...	...	12/6
7 inch ..	1800ft	...	...	15/-

(Post and Packing 1/- per reel)

MYLAR BASE

3 1/2 inch Double Play	600ft	...	...	11/6
5 inch ..	1200ft	...	...	15/-
5 1/2 inch ..	1800ft	...	...	22/6
7 inch Standard ..	1200ft	...	...	12/6
7 inch Long Play	1800ft	...	...	20/-
7 inch Double ..	2400ft	...	...	25/-

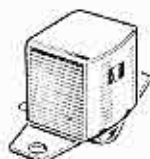
"DEL-CLEER" CANADA'S HI-FI RECORDING TAPE

5 inch 600ft. standard play	12/6
5 .. 900ft. LP	15/-
5 1/2 .. 1200ft. LP	18/6
7 .. 1200ft. standard play	18/6
7 .. 1800ft. LP	25/-

(Postage and packing 1/- per reel)

Fitted leaders: First quality acetate base attractive boxed.

MINIATURE 1/2 TRACK TAPE HEAD



15/- p.p.9d.

RECORD PLAYBACK TAPE HEAD IDEAL FOR ECHO EFFECTS ON EXISTING RECORDERS OR AS A TWO TRACK TAPE HEAD FOR A RECORD/PLAYBACK AMPLIFIER.

IMPEDANCE IS 1.9k ohm AT 1 kc/s: D.C. RESISTANCE 260 ohms. BIAS CURRENT 300 MICRO-AMP, D.C. SIGNAL RECORD CURRENT 60 MICRO-AMPS.

RESPONSE—53dB: INDUCTANCE APPROX. 0.5H.

OVERALL SIZE—1/2 x 1/2 x 1/8 inch.

"Scotch Boy" 3 inch 150ft	5/3
Spare Reels 3 inch	1/6
5 1/2 inch	2/6
7 inch	2/6

GARRARD ★ Magazine with one 4" spool (Empty)	12/-
★ Garrard 4" empty spool	3/3

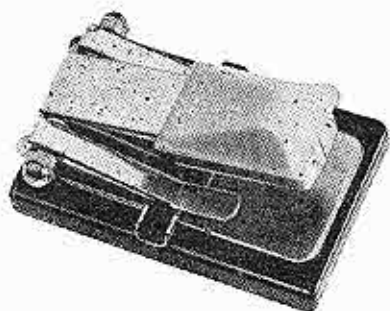
BARGAIN OFFER

SCOTCH BOY TAPE

3 1/2 INCH L.P. TAPE BRAND NEW AND SUPPLIED WITH SPARE SPOOL.

PRICE 5/6 PP. 1/-

3 1/2 INCH SPARE SPOOLS 1/- EACH.



MODEL T635
TAPE SPLICER

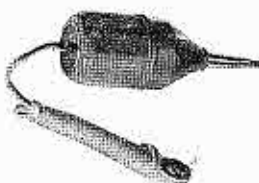
For editing and repairing tape. Complete with three blades.

14/- pp. 1/-

SPECIALS

- ★ Scotch Boy 3 1/2 in. 300 ft. LP type with spare spool Price 5/6 pp. 1/-
- ★ Marriot 1/2 track R/RP. head with Mullard PM erase. Price 15/- pp. 1/-

SEE PAGE 84 FOR DETAILS

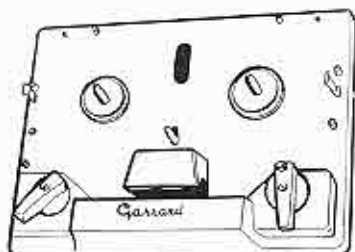


TAPE HEAD DEMAGNETIZER Model TD 79

When a recording machine leaves its factory the heads are unmagnetized. However, music and speech consist of a series of transients often not symmetrical in peak value. Other asymmetrical transients may occur in line noise in starting and stopping the machine. The effect is cumulative and after a short time the recording head will have picked up enough magnetism to raise the noise level by several dB and to increase second harmonic distortion. "Eagle's" TD.79 is a compact easy to handle, truly professional quality tape head demagnetizer to completely remove magnetism from tape heads, permitting improved tape recordings and through frequent use reduces harmonic distortion and noise level. 230/250V AC complete with instructions.

32/6 Post Free

TAPE DECKS — MAINS AND BATTERY OPERATION



£10.10.0 pp. 3/6
BRAND NEW
FULLY GUARANTEED

★ GARRARD TWO SPEED TWO TRACK TAPE DECK

New 9 volt 2 speed battery tape deck. Provides $3\frac{3}{4}$ and $1\frac{1}{2}$ inches/sec. tape speeds, two track recording. Fitted $\frac{1}{2}$ track medium impedance record play head and erase head/Oscillator coil. Facilities provided are fast wind—forward and reverse—7 to 9 volt motor with centrifugal electrical governor—70 minutes record/play playback at $3\frac{3}{4}$ in/sec. or 140 minutes at $1\frac{1}{2}$ in/sec.—Pause button etc. takes spools up to 4 inches up to 650 feet.

LEAFLET WITH FULL DETAILS ON REQUEST.

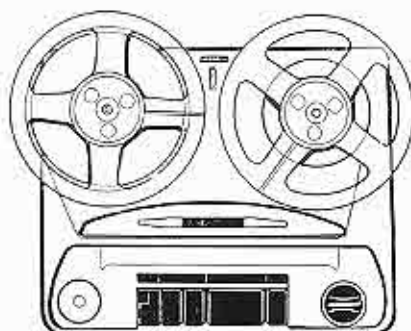
★ SUPPLIED WITH TEMPLATE AND LEAFLET GIVING FULL SPECIFICATIONS, DETAILS OF BIAS CURRENTS ETC. ETC.

★ COMPLETE WITH TAPE MAGAZINE ★

★ NEW LOW PRICE ★



★ COLLARO STUDIO TWO AND FOUR TRACK TAPE DECKS



LATEST QUALITY TAPE DECK FITTED COLLARO RECORD/PLAYBACK AND ERASE HEADS WITH SPACE FOR ADDITIONAL HEAD. FEATURES THREE FULLY SCREENED 4-POLE INDUCTION MOTORS, FULL FUNCTION CONTROLS FOR WIND/REWIND, RECORD/PLAYBACK, PAUSE ETC. FITTED DIGITAL COUNTER. STANDARD 220/250 VOLT MAINS OPERATED.

THREE SPEEDS : $1\frac{1}{2}$ " , $3\frac{3}{4}$ " AND $7\frac{1}{2}$ " PER SECOND.

OVERALL SIZE : $12\frac{1}{2} \times 10\frac{1}{8}$ INCHES : DEPTH 4" BELOW PLATE.

PLAYING TIME : 120, 60 OR 30 MINUTES PER TRACK WITH STANDARD 1200 FT. REEL. MAXIMUM TAPE SIZE 7 INCHES WITH 1800 FT.

PRICES

- Two Track **£10.10.0** pp. 5/-
- Four Track **£13.19.6** pp. 5/-

BRAND NEW
FULLY GUARANTEED

★ SUPPLIED COMPLETE WITH HAND BOOK GIVING ALL NECESSARY INFORMATION. TAPE HEAD IMPEDANCES — VOLTAGES — RESPONSE CONNECTIONS ETC.

★ CABINET FOR COLLARO STUDIO DECK, WITH SPEAKER, 5 GNS. pp. 3/6 — SEE PAGE 13

★ ALSO RECORDING AND PLAYBACK AMPLIFIERS SEE PAGES 2/12/13/14

★ BSR TD2 TWO TRACK TAPE DECK

Speed $3\frac{3}{4}$ " per second. Half Track : Upper track, left to right. Reel size : Up to $5\frac{1}{2}$ ". ($5\frac{1}{2}$ " reel of standard tape 850 feet, $5\frac{1}{2}$ " reel of long play tape 1200 feet). Playing time : $1\frac{1}{2}$ hours with $5\frac{1}{2}$ " reel of standard tape, 2 hours 8 minutes with $5\frac{1}{2}$ " reel of long play tape. Winding facilities : Fast forward wind and fast rewind. Rewind time is about 3 minutes for $5\frac{1}{2}$ " reel of standard tape. Motor : Dynamically balanced. For 220-240 volts 50 cycles.

PRICE **£7.10.0** pp. 5/-



★ See Pages 2/12/13/14 For Recording and Play back amplifiers.

COMPLETE TRANSCRIPTION UNITS, RECORD DECKS AND ACCESSORIES

★ GARRARD AUTOSLIM

The Autoslim has been designed to occupy as small a space as possible, 6½ inches in depth, 6½ lbs. in weight. One piece pick-up arm or plug in head arm which is wired for stereo. Cabinet space required: 14½" long, 12½" wide, 4½" above and 2½" below top of motorboard, mono units. Fitted with GC8 cartridge or similar. Four speeds: 78, 45, 33 and 16 r.p.m. Automatic selection or manual operation. For all record sizes. Supplied complete with crystal or ceramic cartridge.

★ FIXED HEAD MODEL (mono)	£6.10.0	pp. 3/-
★ PLUG IN HEAD MODEL (mono)	£6.19.6	pp. 3/-
★ PLUG IN HEAD MODEL MONO/STEREO	£7.10.0	pp. 3/-
★ PLUG IN HEAD DERAM MONO/STEREO	£10.10.0	pp. 3/-
★ PLUG IN HEAD 6 to 9 volt Battery version (mono)	£8.19.6	pp. 3/-



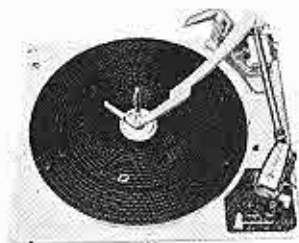
★ GARRARD AT6 AUTOSLIM ★ MONO OR STEREO ★

Model AT6 has a heavy turntable with an aluminium tubular pickup arm dynamically balanced and counter-weighted as standard fitting. It is a professional arm in every respect with plug-in pickup head and has the unique Garrard Stylus Pressure Adjustment with no variation from first to last record. A high performance unit which is ideal for manual playing yet embodies automatic selection of all types of records when required.

Cabinet space required—
15½" long by 13½" wide by 4½" above and 2½" below top of motorboard.
Four speeds: 78; 45, 33 & 16 r.p.m.
Full autochanging or manual operation for all record sizes.

★ Mono Version GC8 Head	... ..	£10.10.0	pp. 3/6
★ Mono/Stereo ACOS 73/2 Cartridge	... ..	£10.19.6	pp. 3/6
★ Mono/Stereo *Sonotone or EV26 or Ronnette	... ..	£11.19.6	pp. 3/6
★ Mono/Stereo Decca Deram	... ..	£13.19.6	pp. 3/6

(* DEPENDS UPON CURRENT STOCKS)



ALL MODELS COMPLETE WITH CARTRIDGE

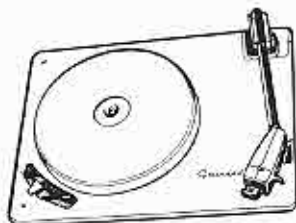
★ GARRARD SRP10.

Model SRP10 is a new Single Record Four Speed Player, designed to meet the modern trend for compactness and styling, whilst still maintaining the standard of quality and reliability. It possesses all the features usually associated with larger units and is economically priced.

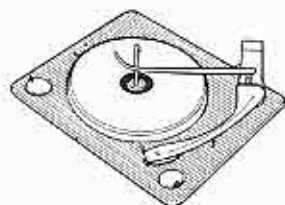
Although small in size—it weighs only 3 lb. 11 oz.—it will play all sizes of records up to 12" diameter at one of four speeds: 16, 33½, 45 and 78. r.p.m.

Minimum cabinet space—11" long and 8½" back to front, with 2" clearance above and 1½" below the top of motorboard.

- Complete with GC8 Cartridge £5.5.0 p.p. 3/-
- Also 6/9 volt
- Battery version £6.5.0 p.p. 5/-



★ BSR MONARCH UA15 AND UA14



(UA15)

Automatically plays 10—12 in., 10 in. or 7 in. records of same speed intermixed in any order. 4 speed, 78, 45, 33 and 16 r.p.m. Simple to operate with manual play facility. Adapted to take any of the standard stereo cartridges. Transcription quality. Automatic cut off. Dimensions: Height from top of motor board to top of fully raised control arm 5½ in. Depth below top face of motor board 1½ in. Length 13½ in. Width 11½ in.

★ UA15 IS NEW SLIMLINE VERSION ★

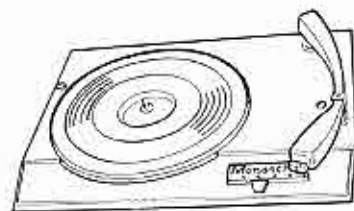
UA14 £5.19.6. p.p. 3/6

UA15 £6.19.6. p.p. 3/6

★ COMPLETE WITH TC8 MONO CARTRIDGE ★



(UA14)



BSR GU7 FOUR SPEED RECORD PLAYER

A 4-speed Gramophone unit of compact design, the GU7 has clean, modern styling and upholds the B.S.R. standard of reliability and first-class engineering. Plays 10", 12" or 7" records. Four speeds: 78, 45, 33 and 16 r.p.m. Rubber turntable mat for record protection and positive drive. Simple to operate with On/Off switch. Automatic cut-off. Jockey Pulley automatically disengaged when not in use. (9 volt) Battery or 220/250 volt mains operation. Built-in monaural cartridge. 45 r.p.m. adaptor and clip supplied with each unit.

Overall sizes: 11 x 8½ in. 3 in. under deck. 1½ in. above deck.

★ TWO MODELS ★

9 VOLT BATTERY
OR
STANDARD MAINS

Complete with
Cartridge.

5 gns pp. 3/-
(either type)

● ALL UNITS FEATURED ARE BRAND NEW AND FULLY GUARANTEED ●

TRANSCRIPTION UNITS - BATTERY DECKS - RECORD CLEANER-CARTRIDGES



★ STARR SINGLE SPEED DECK

A light weight single speed battery operated record deck for portable record players. Plays 45 rpm records. Fitted crystal pickup. Overall sizes: Deck size $9 \times 7\frac{1}{2}$ inch, $\frac{3}{8}$ inch above deck, $2\frac{1}{2}$ inch below. Fitted low current 9 volt governed motor.

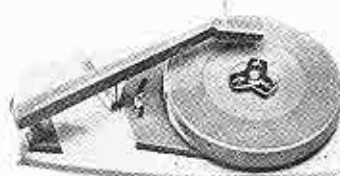
Supplied complete with pickup arm and cartridge Price **39/6** pp. 2/-

★ STARR TWO SPEED DECK

A compact lightweight efficient 2-speed record player for 7", 10" or 12" records. Fitted 9 volt low current governed motor. Plays 45 rpm. and 33 rpm. Fitted locking lightweight crystal pick-up arm automatic cut out switch coupled to pick-up arm.

Overall sizes $9\frac{1}{2} \times 5\frac{1}{2}$ inches reducing to $3\frac{1}{2}$ inches. $1\frac{1}{2}$ " below deck, $1\frac{1}{2}$ " above deck.

★ PRICE **79/6** pp. 1/6



Well known Garrard BAI turntable fitted with crystal pick-up plays 45 r.p.m. records. Works from 6 to $7\frac{1}{2}$ volt battery with 100Ω speed control (supplied) : Mechanical speed governor. Ideal for use with transistor or mains amplifiers. Fitted cut out switch 60 mA average current on 6 volt battery. Overall sizes: $8\frac{1}{2} \times 7$ in. $1\frac{3}{8}$ in. Above base. 2 in. below.

Price **39/6** pp. 2/-

TRANSCRIPTION MOTORS

POST ETC.
7/6
ANY TYPE.

★ Garrard 4HF Mono (less plug in pickup) ...	£15 16 6
★ Philips AG1016 Mono/Stereo ...	£12 12 0
★ Garrard A Mono/Stereo (less plug in pickup)	£18 19 9
★ Garrard 301 Transcription ...	£22 0 0
★ Garrard 401 Strobe ...	£32 10 0
★ Garrard LAB 80 Transcription Auto ...	£27 10 0
★ Sugden Connoisseur II ...	£16 6 6
★ Goldring Lenco GL70 ...	£26 3 0
★ Goldring Lenco 88 ...	£17 14 0
★ Goldring Lenco GL58 ...	£15 19 0
★ Garrard 3000 LM Sonotone Stereo ...	£12 12 0
★ Garrard Deccadeck Deram Stereo ...	£15 15 0

(Above units to order only 1-2 days)

We will be pleased to quote for other transcription units.

★ ACOS 73/2 Cartridge diamond stylus (Stereo)	35/-
★ Above with Garrard plug in moulding (Suitable for autoslim and AT6)	42/6
★ Decca deram stereo cartridge ...	£ 3 13 6
★ Plug in head with deram (Suitable Autoslim, AT6 and 4HF)	£ 4 0 0
★ GC6 Mono Cartridge ...	19/6
★ Above fitted to Garrard plug in moulding	25/6
★ Eagle PPI90 Arm with Mono stereo cartridge	£ 3 5 0
★ Decca Deram transcription Arm ...	£ 4 14 6
★ Eagle A-18 transcription Arm ...	£ 8 10 0
★ Eagle A15 Transcription Arm ...	£ 4 17 6
★ Model PG40 Stylus Gauge ...	9 6



STYLUS MICROSCOPE MODEL SSI

The stylus scope has been specially and most carefully designed to solve all stylus problems with a magnification lens of $\times 230$, the scope is battery operated, the needle is placed on the inspection plate, the tip is then magnified, and projected on the screen at any desired angle by use of back and forth, up and down controls.

Complete with on/off switch, bulb and instruction book, fully guaranteed — **52/6** Post Free

RC12. AUTOMATIC RECORD CLEANER



Now you can protect your valuable records from dirt and dust—the professional way. "Eagle's" R C. 12 record cleaner is easily fitted to any pick-up arm,

either autochanger or transcription types and there is absolutely no change on needle pressure. The brush contains many hairs different in thickness, length and set towards different directions. Thus removing dirt and dust over the entire record and these are absorbed on a rotating roller. Complete with adjustable mounting bracket to fit all arms.

Complete with instructions.

Price **15/6** pp. 9d.

'EAGLE' HIGH FIDELITY LOUDSPEAKERS — QUALITY AND PERFECTION



CX300 12 INCH TWO WAY SPEAKER

Both diaphragms are specially treated for ultra-linear distortion-free response and are driven by a long aluminium coil suspended in a total flux of 200,000 Maxwells. Clean crisp response to the lowest frequencies, excellent damping and built-in electrical crossover network are inherent in this speaker system to produce the truest high fidelity without feeling any change of the sound source on the overall frequency range. Finished in blue opalescent enamel, complete with chrome-plated screw terminals and carrying handles.

Price £12.19.6

Frequency Response—30-16,000 cps.
Resonant Frequency—35 cps.
Capacity — 15 watt, Peak: 25 watt
Sensitivity — 105 db
Impedance — 15/16 ohm

Crossover Frequency —2,500 cps.
Total Flux Tweeter 18,000 maxwell
—Woofer 200,000 maxwell
Flux Density Tweeter 10,500 gauss
Woofer 12,000 gauss

● **CR12AE 12 INCH TWO WAY SPEAKER** ●

A remarkable speaker system for true high fidelity and superb stereo at low cost. The CR-12AE embodies two reproducing cones mounted co-axially with power coming from the same voice coil. The woofer cone reproduces the lower frequencies and the tweeter cone gives efficient high frequency reproduction. Due to the double cone construction velvet smooth crossover is possible. A series of Accordion diffusers on the cone eliminates that interference inherent in all symmetrical speakers, bringing you the finest in concert hall music reproduction.

Price £7.19.6

Frequency Response — 30-16,000 cps.
Resonant Frequency — 45 cps.
Capacity — 10 watt
... .. — Peak 20 watt
Sensitivity — 102 db
Impedance — 15/16 ohm

Diameter — 12 1/4"
Voice Coil Diameter — 2"
Depth — 3 1/4"
Baffle Opening — 11" diameter
Crossover Frequency — 18,000 cps.
Total Flux — 85,000 maxwell



● **CR30AE 12 INCH THREE WAY SPEAKER** ●

A 12" Speaker designed and engineered to satisfy the most discriminating listener. The CR.30AE achieves full 3 speaker performance through its advanced triaxial design. The woofer, midrange radiator and tweeter are all axially mounted within a single speaker system. The quality of the CR.30AE is immediately evident in its uncompromising performance. Bass response is tight and solid without boom or hangover to achieve phenomenal realism. At 1,800 cps, frequencies are channelled into a stiff-coned mid frequency radiator by means of a smooth mechanical crossover. High frequencies are reproduced with naturalness by means of a compression driver tweeter. A built-in crossover allows the tweeter to take over at 5000 cps. Rigid low silhouette die cast frame ensures perfect alignment and minimum space.

Frequency Response —30-16,000 cps.
Resonant Frequency —45 cps.
Capacity —10 watt, Peak 20 watt
Sensitivity —102 db
Impedance —15/16 ohm
Crossover Frequency —18,000 cps, 5000 cps.
Total Flux —Woofer 85,000 Maxwell
... .. Tweeter 13,000 Maxwell
Flux Density —Woofer 10,500 gauss
... .. Tweeter 11,000 gauss
Diameter 12 1/4"; Depth 3 1/4"; Baffle opening 11" diam.

Price £9.19.6

8A7 8 INCH TWO WAY SPEAKER

The remarkable quality and performance of this 8" hi-fi speaker provide it with the largest 8" of sound you have ever heard. With almost uncanny ability the 8A7 achieves a standard of natural balance, distortionless performance and superb transient responses normally associated with larger and costlier speakers.

The dual-cone construction ensures wide range response. The 2" cone tweeter has a bell shaped mounting for maximum dispersion of high frequencies with no back radiation. Its small size makes it perfect for use in a wide variety of small enclosures for hi-fi and stereo systems.

Frequency Response : 50-16,000 cps.
Resonant Frequency : 60 cps.
Capacity : 6 watt
Sensitivity : 98 db
Impedance : 15/16 ohms
Total Flux : 53,000 Maxwell
Diameter : 8"
Voice Coil Diameter : 1"
Depth : 4 1/2"
Mounting : 4 holes equal spaced on 7 1/2" dia.

Price 75/- pp. 2/-



★ **CORNER CABINET 20 INCHES HIGH BY 9 INCHES ACROSS, REXINE COVERED CHIP BOARD CABINET WITH GOOD BAFFLE QUALITIES — IDEAL ECONOMY UNIT FOR 8A7 SPEAKER** 35/- pp. 2/6

AXIETTE 8 (8 inch—6 watt—15 ohm)

The latest model of the smallest true High Fidelity Loudspeaker produced features a new high efficiency permanent magnet system using FERObA II anisotropic ceramic magnet material, allowing considerable reduction in magnet assembly depth. The unique hyperbolic diaphragm—plastic terminated, aluminium drive coil and magnet system are housed in a new precision diecast chassis of strong and slender design. Enclosure volume requirement only 3,000 cubic inches. This is an ideal speaker for stereophonic and monophonic installations.

Price £5.5.6 pp. 3/-

Specification

Frequency range.....	40-15,000 c/s
For amplifiers up to.....	6 watts (12 watts U.S.A.)
Fundamental resonance.....	.65 c/s
Flux density.....	13,500 gauss
Total flux.....	53,000 maxwells
Voice coil.....	1" (2.54 cm) diameter-aluminium
Impedance.....	15/16 ohms
Chassis.....	Diecast
Overall diameter.....	8 $\frac{3}{8}$ " (21 cm)
Overall depth.....	3 $\frac{3}{8}$ " (9.2 cm)
Reflex enclosure volume (Internal).....	3,000 cu. ins.
Baffle hole diameter.....	.7" (17.8 cm)
Fixing holes.....	4 holes $\frac{3}{32}$ " (0.7 cm) diameter equally spaced on 7 $\frac{3}{8}$ " (19.4 cm) P.C.D.
Nett weight.....	4 lbs (1.81 kg)

AXIOM 10 (10 inch—10 watt—15 ohm)

This very popular High Fidelity Loudspeaker bridges the gap between small installations (using the Axiette 8) and those involving large enclosures. It features a new magnet system in FERObA II anisotropic ceramic magnet material, plastic terminated hyperbolic diaphragm and aluminium voice coil all housed in a precision diecast chassis. With a power handling capacity of 10 watts, and an enclosure volume requirement of only 5,000 cubic inches, the Axiom 10 is a highly satisfactory, yet economical, choice for all medium sized domestic High Fidelity installations.

Price £6.6.0 pp. 3/6

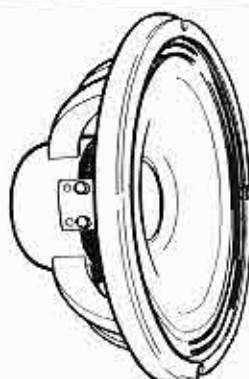
Specification

Frequency range.....	40-15,000 c/s
For amplifiers up to.....	10 watts (20 watts U.S.A.)
Fundamental resonance.....	.45 c/s
Flux density.....	13,500 gauss
Total flux.....	53,000 maxwells
Voice coil.....	1" (2.54 cm) diameter-aluminium
Impedance.....	15/16 ohm
Chassis.....	Diecast
Overall diameter.....	10 $\frac{1}{8}$ " (26.6 cm)
Overall depth.....	4 $\frac{1}{8}$ " (10.9 cm)
Reflex enclosure volume (Internal).....	5,000 cu. ins.
Baffle hole diameter.....	8 $\frac{1}{2}$ " (21.6 cm)
Fixing holes.....	4 holes $\frac{1}{8}$ " (0.6 cm) diameter equally spaced on 9 $\frac{3}{8}$ " (24.4 cm) P.C.D.
Nett weight.....	4lbs 12 ozs (2.16 kg)

AUDIOM 51 BASS (12 inch—15 watt—15 ohm)

The AUDIOM 51 BASS is a rugged 12" single diaphragm unit handling up to 15 watts of power. It is specially designed for High Fidelity enthusiasts who need a 12" Loudspeaker as the Bass unit in their three-way systems. The AUDIOM 51 BASS has a fundamental resonance of 35 c/s, and is fitted with a powerful FERObA II magnet system giving high efficiency and control. A rigid diecast chassis holds all parts in permanent alignment; connection is by means of binding posts.

Price £9.2.6 pp. 4/6



- ★ AXIOM 301, 12 inch 20 watts full range £15 4 6 pp. 7/6
- ★ AUDIOM 61, 12 inch 20 watts bass £14 7 6 pp. 7/6
- ★ AUDIOM 81, 15 inch 25 watts bass £25 0 0 pp. 8/6

(Note: Three types above to order only).

GOODMANS PRESSURE UNITS, CROSSOVERS, ATTENUATORS AVAILABLE TO ORDER.

—Leaflets on request—

AXIOM 201 (12 inch—15 watt—15 ohm)

The Axiom 201 is an entirely new addition to the GOODMANS High Fidelity range, and is specially designed for High Fidelity enthusiasts who prefer a 12" Loudspeaker but do not need the high power handling capacity and the extra high efficiency of the AXIOM 301.

This remarkable twin diaphragm 12" unit has smooth performance from 30 to 16,000 c/s and can be used with amplifiers up to 15 watts. It has a plastic treated suspension, aluminium voice coil, powerful FERObA II magnet assembly, and is mounted in an elegant diecast chassis of great strength and slender silhouette.

Equally suitable for stereophonic or monophonic installations.

Price £10.7.0. pp. 4/6

Specification

Frequency range.....	30-16,000 c/s
For amplifiers up to.....	15 watts (30 watts U.S.A.)
Fundamental resonance.....	.35 c/s
Flux density.....	13,000 gauss
Total flux.....	87,500 maxwells
Voice coil.....	1 $\frac{1}{2}$ " (4.4 cm) diameter-aluminium
Impedance.....	15/16 ohms
Chassis.....	Diecast
Overall diameter.....	12 $\frac{3}{8}$ " (32.1 cm)
Overall depth.....	5 $\frac{3}{8}$ " (13.2 cm)
ARU 172 enclosure volume (Internal).....	7,800 cu. ins.
Baffle hole diameter.....	11" (28 cm)
Fixing holes.....	4 holes 0.312" (0.8 cm) diameter equally spaced on 11 $\frac{3}{8}$ " (29.8 cm)
Nett weight.....	9 lbs. 12 oz.

Specification of AUDIOM 51

Maximum power handling capacity	15 watts (30 watts U.S.A.)
Fundamental resonance.....	.35 c/s
Total flux.....	87,500 maxwells
Voice coil.....	1 $\frac{3}{8}$ " (4.4 cm) diameter
Impedance.....	15/16 ohms
Chassis.....	Diecast
Overall diameter.....	12 $\frac{3}{8}$ " (32.1 cm)
Overall depth.....	5 $\frac{3}{8}$ " (13.2 cm)
ARU 172 enclosure volume (Internal).....	7,800 cu. ins.
Baffle hole diameter.....	11" (28 cm)
Fixing holes.....	4 holes 0.312" (0.8 cm) diameter equally spaced on 11 $\frac{3}{8}$ " (29.8 cm) P.C.D.
Nett weight.....	9 lbs. 12 ozs. (4.431 kg)

TWEETERS - CROSSOVERS - MATCHING TRANSFORMERS - LOUDSPEAKER CONTROL

See Page
90 for
20 Watt

'EAGLE' HI-FI HORN TWEETER MODEL CT10



The CT.10 horn tweeter represents the latest manufacturing techniques employed for true high-fidelity reproduction in the upper, middle and top frequency ranges in multi-unit speaker installations. The operating system is of the pressure unit type and utilizes a spun aluminium diaphragm driven by an aluminium wire wound voice coil operating in a magnetic gap of high-flux density. The driving unit and magnet are mounted in a spun alloy pot which carries the short exponential horn of circular section into the throat of which the drive diaphragm feeds. Due to the constructional stiffness of the horn no undesirable resonances are excited in use and this in connection with the wide and smooth angular dispersion of the high frequencies provide brilliant, clean and crisp sound. Finished in matt black the unit is flange and drilled for baffle mounting. The speaker lead connections are made by two solder tags polarized for correct phasing.

Specifications

Maximum Output: 10 Watts
Frequency Response : 1500-18,000 c.p.s.
Optimum Crossover : 3,000 c. p. s.

PRICE 27/6 pp. 1/6

Sensitivity: 104db/w
Impedance: 15/16 ohm
Mounting Hole 3 1/8"

RECTANGULAR HORN TWEETER

MODEL HT20

An example of 'Eagle Products' advanced engineering and design. The HT.20 rectangular horn tweeter is ideal for 2-way and 3-way speaker systems for the smooth and clean high-quality reproduction of the critical upper, middle and top frequencies. The operating system used is a pressure unit utilising a plastic domed voice coil wound with aluminium wire operating in a magnetic gap of high-flux density produced by a generously proportioned magnetic assembly. A heavy cast alloy exponential rectangular horn with special sonophase throat design is mounted on the magnet face and this besides subduing unwanted resonances also provides 180° dispersion of high-frequencies so necessary for the natural reproduction of speech and music. The HT.20 in addition features high sensitivity and with its extra heavy drive unit it may confidently be used in systems of the highest power. Finished in stove enamelled gold with an adjustable chrome base to permit mouncting either inside or on top of enclosure. The speaker leads connections are made by two terminals polarized for correct phasing. Complete with instructions.

PRICE 69/6 pp. 2/-

Specifications

Maximum Output : 20 Watts
Frequency Response : 1,500-18,000 c.p.s.
Optimum Crossover : 3,000 c.p.s.

Sensitivity : 102db/w
Impedance : 15/16 ohm.
Flux Density : 13,500 gauss
Mounting Hole : 4" x 1 3/8"

★ Also HT40 89/6 pp. 2/- See Page 90



★ WB CONE TWEETER UNIT MODEL T359



Provides a very high standard of reproduction when used in conjunction with 'Stentorian' 10" or 12" units. Incorporates High Sensitivity 9,000 gauss magnet, special cone and lightweight coil.
Frequency response : 3,000-15,000 c.p.s.
Overall size : 3 1/2" square x 2" deep.
Voice coil impedance : 15 ohms or 3/5 ohms. (State which).
Power handling capacity : 15 watts when used with a 3,000 c.p.s. crossover.

Price 30/6 pp. 1/6

★ SEE PAGE 90 FOR SUPER CROSSOVER WITH CONTROLS.

COMPLETE RANGE OF
WB STENTORIAN AND
GOODMANS LOUDSPEAKERS,
CABINET ASSEMBLIES AND
ACCESSORIES AVAILABLE.
LEAFLETS WITH PRICES OF
FULL RANGE ON
REQUEST.

★ WMT2. As WMT1 but fully isolated
13/6 pp. 1/3

★ DIVIDER NETWORK COILS

Denco divider network coils, complete with connection diagrams.

For 3/5 ohm speakers 15/-

For 12/16 ohm speakers 17/6
pp. 1/6 either type.

★ WB CROSS OVER NETWORKS ★

CX3000 Half section series connection 12dB per octave attenuation	3000 c/s cross over 15 ohm	...	...	31/6 pp. 1/6
CX1500 " " " " " " " " " " " "	1500 c/s " " " " " " " " " " " "	...	...	40/- pp. 1/6
CX500 Quarter " " " " " " " " " " " "	500 c/s " " " " " " " " " " " "	...	...	27/3 pp. 1/3

★ WHARFDALE MATCHING TRANSFORMERS AND CONTROL ★

★ WMT1.

Speaker/Amplifier matching auto transformer matches any output to any speaker for any Impedance between 2 and 16 ohms. Up to 15 watts. Low loss construction. Complete with instructions.

Price 13/6 pp. 1/3

★ SMI.

Stereo mixing and isolating transformer. Provides stereo combinations for either two treble and one full range speakers or two full range and one treble or one treble and one full range speaker. Complete with instructions. 15 watts maximum.

Price 30/- pp. 1/6

★ LOUDSPEAKER VOLUME CONTROLS 'TRUQUAL'

Constant impedance type control which does not cause distortion. For use up to 15 watts. Supplied complete with instructions.

Type 32 for 2/5 ohm speakers 15/-
pp. 1/-

Type 98 For 6/16 ohm speakers 15/-
pp. 1/-

WB STENTORIAN — HIGH FIDELITY SPEAKERS

★ MODEL H.F.1012

10" Die-Cast Unit, incorporating 12,000 gauss magnet. Fitted with cambric cone and universal impedance speech coil providing instantaneous matching at 3, 7.5 and 15 ohms. Handling capacity 10 watts. Frequency response 30 c.p.s. to 14,000 c.p.s. Bass resonance 35 c.p.s.

PRICE 87/6 pp. 3/-

★ MODEL H.F.1016

10" P.M. Unit, 16,000 gauss magnet, Fitted with cambric cone, die-cast chassis and universal impedance speech coil providing instantaneous matching at 3, 7.5 and 15 ohms. Handling capacity, 10 watts. Frequency response, 30 c.p.s. to 15,000 c.p.s. Bass resonance, 35 c.p.s.

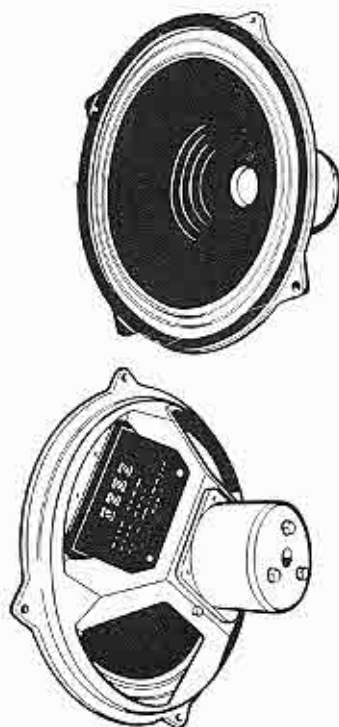
PRICE 47 pp. 3/-

★ MODEL H.F.812

8" Die-cast Unit, handling capacity 5 watts. Frequency response 50 c/s to 12,000 c/s Bass resonance 65 c/s. Fitted 12,000 gauss magnet. Universal speech coil for 3, 7½ or 15 ohms.

PRICE 72/6 pp. 3/-

★ HF1012 : HF1016 : HF812 :
ALL TYPES IN STOCK.



SPECIAL OFFER

EMI 13½ x 8½ x 4½ in. high 10 watt 15 ohm with Tweeter. 50c/s to 20 kc/s. Resonance

Price £6.19.6 pp. 3/-

★ HF1016 MAJOR

16,000 gauss, 10 watts, 30 c/s to 16 kc/s. 10 inch, 15/16 ohms.
£8.19.6 pp. 3/6

★ HF1214

14,000 gauss, 15 watts, 25 c/s to 14 kc/s. 12 inch, 15/16 ohms.
£10.5.6 pp. 3/6

★ HF1216

16,000 gauss, 15 watts, 20 c/s to 16 kc/s. 12 inch, 15/16 ohms.
£15.15.0 pp. 3/6

★ HF912

12,000 gauss, 7 watts, 40 c/s to 13 kc/s. 9 inch, universal 3.7.5 and 15 ohms.
77/- pp. 3/-

★ HF916

16,000 gauss, 7 watts, 40 c/s to 14 kc/s. 9 inch, 3.7.5 and 15 ohms.
£6.4.3. pp. 3/-

★ HF816

16,000 gauss, 6 watts, 40 c/s to 14 kc/s 8 inch. 3.7.5 and 15 ohms.
£6 pp. 3/-

★ HF 1016 MAJOR : HF 1214 :
HF 1216 : HF 912 : HF 916 :
HF 816 TO ORDER 2 DAYS

All WHARFDALE Speakers available on 48 hour delivery

ECONOMY SPEAKER CABINETS

WITH AND WITHOUT SPEAKERS.

ALL TYPES ARE WOOD BAFFLE CABINETS ATTRACTIVELY COVERED WITH TWO-TONE REXINE UNLESS STATED. ATTRACTIVE MATCHING MATERIAL GRILLS — FULLY GUARANTEED.

CABINETS : — SEE PAGES 53, 64 AND 65 FOR SUITABLE SPEAKERS.

1. Polish Wood Non-Burn Speaker baffle type Cabinet for 7x4 inch elliptical Speaker.

12/6 pp. 1/6

2. Rexine covered to house 8½ x 5½; two 5 inch or any others up to 9x6 inches.

22/6 pp. 1/6

3. Rexine covered for two 6½ inch; 8x5 inch; 9x6 inch; 10x6 inch Two 7x4 inch etc.

29/6 pp. 1/6

4. Rexine chip board corner cabinet. 20 inches high, 9 inches across. To house 5 to 8 inch Hi-Fi speakers or 8x5 elliptical only 35/- pp. 3/6

5. Cabinet for 5 inch speaker 12/6 pp. 1/6

6. 10/12 inch Cabinet. 49/6 pp. 5/-

7. Portable Amplifier/Speaker Cabinet. 39/6 pp. 2/6

Size 17x15x7½ ins.

Size 14½x7½x8 ins.

CABINETS WITH SPEAKERS

1. Rexine covered fitted 7x4 inch 3 ohm speaker, corner cabinet type for vertical use.

29/6 pp. 2/-

2. Rexine covered extension speaker. Fitted 5 inch 3 ohm speaker.

22/6 pp. 2/-

3. Rexine covered cabinet fitted 8 inch 3 ohm speaker. Ideal for extension or main speaker unit.

39/6 pp. 2/6

4. Extension speaker cabinet with 6½ inch 3 ohm speaker.

29/6 pp. 2/-

5. Column units fitted 2 off 7x4 inch and 4 inch tweeter for 3 ohms.

69/6 pp. 3/-

★ SPECIAL OFFER ★

ACOS 45 HAND MICROPHONE



Crystal microphone styled for comfort in either hand. Robust die cast case for stability and freedom from hand capacity effects. Neat foldaway stand. ± 3 dB 30 c/s to 6 kc/s. Supplied with 6 ft. screened cable and detachable clip. Very sensitive.

19/6 Post Free

★ List price of Acos 45 is 2 Gns. ★

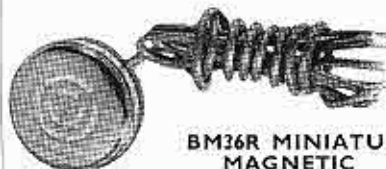
ACOS 39-1 STICK MICROPHONE



Omni-directional crystal microphone size $4\frac{1}{2}$ in. long $1\frac{1}{2}$ in. dia. and $\frac{1}{2}$ in. dia. Supplied with 8 ft. screened cable. Response about ± 3 dB to 12 kc/s.

32/6 p.p. 1/6

Complete with detachable desk stand.



BM36R MINIATURE MAGNETIC MICROPHONE

Medium impedance hand microphone ideal for recording, public address and other general uses. 2K ohms impedance. Complete with screened lead

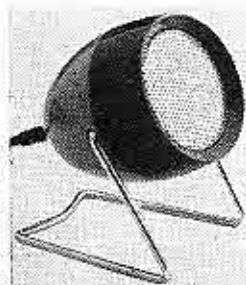
Price 8/6 pp. 1/-

ACOS 60 STICK MICROPHONE

Similar in appearance and performance to type 39/1. All plastic moulded lightweight construction. Complete with stand.

Price 22/6 pp. 1/6.

1K ohm Miniature Dynamic Microphone Type DM 175



Size $1\frac{5}{8} \times 1\frac{3}{8}$ $2\frac{1}{2}$ in. 1k ohm impedance, Sensitivity - 60 dB. Response 150 c/s to 9 kc/s Finished in two tone enamel body gold Grill and detachable stand.

Price 39/6 pp. 1/6

Supplied with 5 ft. screened cable.

TELEPHONE RECORDING ADAPTOR



Designed for use with amplifiers or tape recorders for listening to or recording telephone conversations. Impedance about 2k ohm with sufficient output for valve or transistor equipment. Miniature size, fitted with rubber sucker which presses on to telephone in position giving maximum volume.

9/6 pp. 1/-

ACOS 40 DESK OR HAND MICROPHONE

A robust sensitive crystal microphone giving good results with a wide range of amplifiers and recorders ± 3 dB 40 c/s to 6 kc/s. Supplied with 6ft. cable. 15/- p.p. 1/6



Crystal Contact Microphone



A sensitive high impedance contact microphone particularly suitable for musical instruments. Clips onto sound-board of guitar. Ideal for any amplifier. Supplied with screened cable.

12/6 pp. 1/-

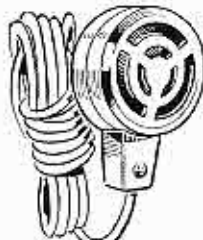


MODEL MM71 DYNAMIC

Desk or hand microphone. Small size high sensitivity. 1 K ohm Impedance.

Price 12/6

Size $2\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{8}$ inches. pp. 1/-



MINIATURE CRYSTAL MICROPHONE

Handy unit ideal for portable tape recording and general entertainment uses

$1\frac{1}{2}$ in. dia. Fitted with coat lapel clip. Very sensitive. Response ± 3 dB

100 c/s to 9 kc/s 12/6 pp. 1/-

Complete with 5 ft. screened lead.

● CRYSTAL AND DYNAMIC MICROPHONES AND PICK-UP/RECORD DEVICES ●

MICROPHONE STANDS

For Microphones on Pages 79 and 80

FS3(OR MS4) MICROPHONE FLOOR STAND

Professional telescopic floor stand featuring "velvet action" for fast quiet adjustment without slipping or wear. Functionally designed base assures maximum stability. Full chrome plated tube assembly adjustable from 20" to 54" Terminates in a $\frac{1}{2}$ " 27 thread to fit models 100C, BM3, DM11, DM16HL, DM17HL, DM304, SMD100, UD19HL, and MC70 microphones etc.

PRICE 57/6 pp. 2/6



DS2 (OR MS2) MICROPHONE TABLE TOP STAND

Telescopic two section stand. Heavy chrome finish with black base. Minimum height 9 inches, maximum 15 inches. For all microphones as listed for FS3 above.

Price 29/6 pp. 1/6



DS1 MICROPHONE TABLE TOP STAND

Moulded economy type for any of the Microphones listed in above floor stand list.

Price 10/6 pp. 1/6



Table Stand as fitted to 100C 10/6
" " " " " BM3 12/6

(See page 80 for illustrations)
(Post and packing 1/6 Extra)



MODEL CN35

GUITAR MICROPHONE

59/6 pp. 1/6

Fitted Lead, Volume and Tone Controls.

PROFESSIONAL QUALITY MICROPHONES

★ 25 foot screened microphone extension cable with sockets, plug etc. for all microphones 29/6

DMII (OR DM301) DYNAMIC MICROPHONE WITH BASE

Here is a flexible newly-designed dynamic microphone integrated with a matching desk stand. This professional quality microphone is ideal for tape recording, public address, broadcasting and communication use. Ruggedly constructed with tapering body and removable base for desk or hand use. 360° swivel ball joint allows tilting in any direction making it simple to aim the microphone at the source of sound. Magnificently finished in mist blue enamel with chrome trimming. Complete with shielded cable, stand, individually cartoned and guaranteed.

PRICE 5 GNS pp. 2/6

Specification :

Sensitivity : —54 db
Response : 60—12,000 cps
Impedance : 50K ohms
Pick-up : Omni-direction
Case : Die-cast zinc
Finish : Blue enamel and satin chrome
Size : 9" high, 2" diameter at head, tapering to 1 1/2"
Stand : 5"



SEE PAGE 80 FOR MORE TYPES

● New DM15R 50Kohm two direction type. 65/- pp. 1/6



DM 16HL (OR DM301) DUAL IMPEDANCE DYNAMIC MICROPHONE

The highest quality, most strikingly designed microphone in our range. Designed by leading audio engineer to offer you the most outstanding performance for those applications where highest quality is essential, yet cost is an important factor. The DM-16HL will stop or greatly reduce feed-back howl and, because of its acoustically correct grill head, eliminates unwanted pick-up from sides and rear to allow greater working distance from microphone. Built-in switch for high or low impedance, allowing longer mike lines without frequency loss. Self-adjusting swivel action permits tilting through 90° backward. Complete with shielded cable, individually cartoned and guaranteed.

PRICE 89/6 pp. 2/6

(DM301 is 50Kohm single impedance)

Specification

Sensitivity : —62 db
Response : 40—15,000 cps
Impedance : 50 ohms low
50K ohms high
Pick-up : Single direction
Case : Die-cast zinc
Finish : Satin chrome
Size : 6 1/4" high, 1 1/2" wide, 2" deep

★ Floor Stand 57/6 pp. 2/6
★ Table Stand 29/6 pp. 1/6
(See Page 78 for full details)

DM 17HL (OR DM304) DUAL IMPEDANCE DYNAMIC MICROPHONE

Specification :

Sensitivity : —52 db
Response : 40—15,000 cps
Impedance : 50 ohm low,
50K ohm high
Pick-up : Single direction
Case : Die-cast zinc
Finish : Satin chrome
Size : 7 3/8" long, 1 3/8" diameter

For the first time ever a cardioid variable "D" (variable distance) microphone at a price everyone can afford. The highly desirable cardioid pattern provides a significant front-to-back signal ratio to suppress noise, reverberations and feedback. Pop-proof wire mesh grill and space construction allow close talking without booming bass, air blasts or distortion. Front pick-up range is near twice that of pressure microphones. Impedance easily changed from high to low by moving one wire. Complete with On-Off switch, swivel action and shielded cable. Individually cartoned and guaranteed.

PRICE 82/6 pp. 2/6

(DM304 is 50Kohm single impedance)



(See Page 78 for stands)

STEREO DYNAMIC MICROPHONE

Model SMD100

Response 50 c/s to 15 kc/s. Sensitivity —60dB, Impedance 50 Kohm.

Mono/stereo switch-parallel output on mono.

Size with base 8 1/2 in high
microphone 2 1/2 in. diameter
base 4 1/2 in. diameter.

Total weight 6 lbs.
(Floor stand 57/6 pp. 2/6)

PRICE WITH
STAND AND
CABLE

£6-19-6
pp. 2/-



DM12 (OR DM3)

50Kohm high sensitivity stick type.

Price 5 Gns.
pp. 2/6

DM18HL

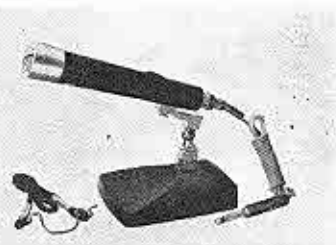
Dual impedance. 600 ohm and 50 Kohm. Very sensitive. Supplied with stand.

Price 5 Gns.
pp. 2/-



Quality Crystal and Dynamic Microphones

MODEL BM3 (or 200C) CRYSTAL STICK MICROPHONE



OUTSTANDING VALUE

A superb High Impedance Microphone of professional appearance. Size 7 in. x 1 in. (average dia.). Black finish with chrome fittings. Response 60 c/s to 15,000 c/s; -62 dB sensitivity.

Can be hand held, stand mounted for desk or table, or suspended by neck cord. Stand, neck cord and 6 ft. cable fitted with Jack plug all included in the price. Fitted muting switch.

Complete as illustrated with stand in Presentation Box.

Price with stand 49/6 p.p. 1/6

Low Priced High Fidelity

MINIATURE DYNAMIC STICK MICROPHONE AND STAND



High sensitivity—Output Impedance, 50 Kohm Frequency response, 100-12,000 c/s. The magnets and other parts are made from carefully selected materials and precision finished. Built-in permalloy transformer minimises induction and interference. Cast aluminium casing with Two-tone fawn enamel finish with chrome desk stand with rubber lined bracket. Length of body, 3 1/2" x 3/4" dia.

(Model DF1 has claw foot base instead of illustrated solid type).

Complete with Stand and Cable

Price 52/6 pp. 1/6

SENSITIVITY—58dB ± 3dB, non directional.

IDEAL FOR PROFESSIONAL OR AMATEUR USE—
HAND HELD OR DESK TOP ★

MODEL DF3 DYNAMIC STICK MICROPHONE WITH STAND



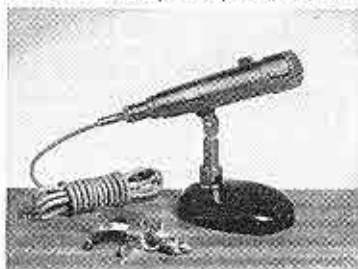
High Impedance Dynamic Microphone suitable for most types of good quality Tape Recorders, complete with Desk Stand with adjustable elbow. Die-cast body and stand finished in two-tone grey enamel and chrome. Measurements: Length of body, 5 1/2" x 1 1/2" dia., height on stand (as shown), 7".

Impedance 50Kohm, sensitivity—50dB.

Supplied complete with cable and DETACHABLE STAND.

Price 79/6

MODEL 100C (CM30) CRYSTAL MICROPHONE



May be hand held, stand mounted or suspended by Lavalier cord. The 100.C is a truly slim crystal microphone for desk top, floor stand, hand held or chest use. Smooth rounded design attractively finished. Here is a flexible quality microphone with characteristics for almost all public address, recording, communication, general and professional applications. Has built-in-locking On-Off switch complete with detachable shielded cable, felt lined, Lavalier cord and bracket, chrome finish stand holder and stand, swivel cradle to allow tilting for multi-angle use. Individually cartoned and guaranteed.

Specification

Sensitivity : -52 db.

Response : 60-10,000 cps.

Directional Characteristics : Non-directional.

Finish : Aluminium diecast casing in satin chrome.

Size : 5" long, 1 1/2" diam.

PRICE

32/6 pp. 1/6

(Including Table stand)

MC70 STUDIO CRYSTAL MICROPHONE



This professional omni-directional microphone provides features found only in microphones selling for many times the price. 360° pick-up—using a new variable "D", shock-mounted crystal cartridge for added power and sensitivity. Two separately tuned chambers in microphone housing maintains smooth response and provide natural reproduction. Complete with shielded cable, stand holder, swivel mounting, individually cartoned and guaranteed.

Specification .

Sensitivity : -50 db

Response : 50-12,000 cps

Pick-up : Omni-directional

Finish : Black plastic case with chrome punched basket

Size : 7" high, 3" wide

PRICE 42/- pp. 1/6

● Floorstand 57/6 pp. 2/6

● Tablestand 29/6 pp. 1/6

★ DM614 DYNAMIC STICK MICROPHONE WITH STAND



Similar in appearance and specification to model DM14S above.

But casing made from non-metallic moulded materials.

Supplied complete with cable and detachable plastic stand.

Price 32/6 pp. 1/6

UD19HL PROFESSIONAL MICROPHONE DUAL IMPEDANCE



PRICE

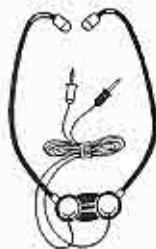
£9.19.6

pp. 3/6

Unidirectional type size 10" x 1 3/4". Dual impedance 600 ohm and 50 Kohm. Response to 14 Kc/s. Sensitivity -75dB. For 600 ohm or -55dB at 50 Kohm.

● See page 79 for more professional type microphones.

STEREO-STETHOSCOPE HEADPHONES



Freq. response 40-16000 cps., Impedance 2×8 ohms. Equipped with two individual earphones for true stereo reproduction. Extremely sensitive, the sound is carried through plastic tubes tipped with removable earpieces, ingenious hinge device permits adjustment to any desired spacing.

Weight less than 2 ozs. May also be used for monaural listening. 25/- p.p. 1/-

MONAURAL STETHOSCOPE HEADSETS

Suitable for radio, recorders, monitoring etc. Two versions available.

- ★ Low impedance, 100 ohm, 12/6
- ★ High impedance, crystal 10/6

Supplied with leads (Post etc 1/6 extra)



SUB MINIATURE EARPHONES

(Shown twice actual size)
High quality earphones with twice output of imported types. Excellent response.

- ★ MO59. 150ohm DC. 500 ohm impedance 9/6
- ★ Sub Minor. 400 ohm. DC. 1500 ohm impedance 12/6
- ★ Ultra Minor. 500 ohm. DC. 2000 ohm impedance 12/6

DYNAMIC MICROPHONE INSERT MODEL MM2



Size $1\frac{1}{2}$ inch round and $\frac{3}{8}$ inch deep. Response extends up to 20 Kc/s. impedance 2000 ohms. Price 15/- pp. 6d. Also 2Kohms $\frac{3}{8} \times \frac{3}{8} \times \frac{1}{2}$ inch. Price 10/- pp. 6d.

ACOS CRYSTAL MICROPHONE INSERTS



2 in. diameter 43-2 9/6 p.p. 6d.
 $\frac{3}{8}$ in. square ... 2/6 "

ACOS 39-1 STICK CRYSTAL INSERT



Die cast case. Gold finish. Very sensitive.

15/- pp. 6d.

CRYSTAL INSERT TYPE MCI



Output—53dB, 100 c/s to 6,000 c/s. Response. 5/- pp. 6d.

STEREO HEAD PHONES MODEL RF7D



Light weights Semi-professional stereo headphones. 8+8 ohms impedance. Fitted moulded ear pads and adjustable headband. Ideal for stereo or mono reproduction. Excellent quality.

Price 62/6 pp. 1/6

Low impedance brand new headphones. Very sensitive 8/6 pp. 1/-

LIGHTWEIGHT HEADPHONES

* 2000 ohm 12/-
* 4000 ohm 14/6
p.p. 1/- any type.

Two Colour quality Headphones with adjustable headband and leads. Ideal for all equipment.



PERSONAL EARPHONES

Type A

1000 ohm Impedance with Earclip. Leads and Jack Plug and Jack Socket. 7/6

250 ohms as above 6/6

Type B.

8/10 ohm Impedance, with leads, and jack plug and socket. 5/-

600 ohm impd. with jack plug and Sockets 5/-

Type C.

Crystal (high impedance) earphone With jack plug and Socket 5/-

Note:

All sockets fitted with cut-out switch.

● All Prices Post Paid



TYPE A



TYPE B.



TYPE C.

PROFESSIONAL STEREO HEADPHONES (MODEL SE1)

For absolute stereo perfection. Fitted 3 inch dynamic loudspeakers in each side. Foam rubber ear pads — Fully isolated left and right Channels. Response 25 C/s to 14 K/s. 8+8 ohms impedance, 500mW Maximum input.

£5.19 6 pp. 2/-

WITH CONTROL BOX.

★ FULLY GUARANTEED

★ Supplied complete with control box, for matching and switching, instructions and lead in cartons.

● 25ft EXTENSION SCREENED CABLE 18/6 EXTRA



(Control Box)

● HEADPHONES — EARPHONES — MICROPHONE INSERTS ●

BRAND 5

● HI-FI RECORDING TAPE ●



● BRAND NEW FULLY GUARANTEED

Supplied in modern design boxes.

Note. This range now replace the Lafayette range on page 70.

Type		Description		Retail Price	Post & Packing
15-DJ	1200ft.	Acetate	7" STD	13/9	1/9
10-D7	1800ft.	Acetate	7" L/P	17/-	
10-D7M	1800ft.	Polyester	7" L/P	22/-	
5-D7M	2400ft.	Polyester	7" D/P	26/9	
5-D7MT (SPEC)	3600ft.	Tensilised Polyester	7" T/P	63/6	
10-D57	1200ft.	Acetate	5 3/4" L/P	14/6	1/6
10-D57M	1200ft.	Polyester	5 3/4" L/P	18/9	
15-D5	600ft.	Acetate	5" STD	9/6	1/6
10-D5	900ft.	Acetate	5" L/P	12/-	
5-D5M	1200ft.	Polyester	5" D/P	15/6	
5-D5MT (SPEC)	1800ft.	Tensilised Polyester	5" T/P	35/9	
5-C 32M	600ft.	Polyester	3 1/4" T/P	13/-	1/6
10-C3	225ft.	Acetate	3" L/P	5/-	
5-C3M	300ft.	Polyester	3" D/P	7/6	
3-PAK	3x225ft.	Acetate	3" L/P	11/6	

TSL

SUNDOWN

AUTOMATIC PARKING LIGHT

Operates from car battery to switch parking lights on and off. Transistorised circuit with photo cell device. Supplied complete with lamp, which clips to window top, and 'brain' which attaches by means of a rubber sucker to window.

Fully Guaranteed.

PRICE 45/- pp. 1/6

GOES ON WHEN IT'S DARK AND OFF WHEN IT'S LIGHT



SPECIAL MICROPHONE OFFER

ACOS 45 HAND MICROPHONE



A first class crystal microphone originally Sold at 2Gns. Special shape fits easily into either hand. Robust die-cast case.

Response 30c/s to 6 kc/s. Supplied with cable and foldaway clip/stand.

Fully guaranteed.

PRICE 19/6

EAGLE MODEL PG40

STYLUS GAUGE



PRICE 9/6 pp. 1/-

CONSTANT VOLTAGE TRANSFORMER

(Automatic Voltage Stabilizer.)

Essential equipment in Laboratories for ensuring correct readings of Test Gear, etc.



Provides Fluctuation-free Mains Supply.

Input: 110-125-160-220-240 v. A.C.

Output: 240v. A.C. \pm 1.5% 250 VA.

- ★ NO MAINTENANCE
- ★ NO MOVING PARTS
- ★ NO ATTENTION

Saturate Core design which provides immediate response—Continuous—Self protecting if appliance is short circuited.

Entirely suitable for use as a step-up Transformer

Compact: 10" x 5" x 7" high. Weight: 17 lbs.

Fitted with switch and signal lamp, in attractive Silver Hammer Finish steel case with carrying handle

PRICE

£11 10. 0.

Carriage 8/6

complete with
Lead & Plug.

PORTABLE VARIABLE AC POWER SUPPLY UNIT



Designed for Technicians whose requirements call for a visual indication of applied voltage.

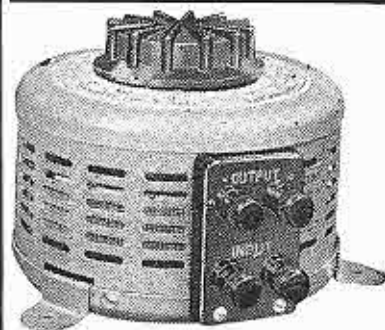
Output: 0-260v. 1.5 amps.

Input: 230v. A.C. 50/60 c.p.s.

Steel louvred case finished in hammer bronze houses "SLIDUP" variable transformer, voltmeter, fuse, safety indicator & switch.

PRICE **£7 15. 0.** carriage 7/6
Complete with Lead & Plug.

VARIABLE TRANSFORMERS



MODEL S85. 5 AMP.

Variable control of Voltage, Power, Speed, Light and Heat.

Output: 0-260v.

Input: 230 v.A.C. 50/60 c.p.s.

- ★ Shrouded fully variable transformers suitable for bench or panel mounting.
- ★ Rated current consistent at all points along the winding.



LATEST
PATTERN
BRUSHGEAR
PROVIDING
1 VOLT
VARIATION

Prices and Models
available

(Carriage
extra)

2.5 Amp	£5 17. 6.	3/6
5 Amp	£9 0. 0.	5/-
10 Amp	£18 5. 0.	5/-
20 Amp	£32 10. 0.	10/-

TRANSISTORISED MEGOHMMETER

Battery operated. 500v - 1,000 megohms.

This most advanced insulation and continuity tester incorporates these outstanding advantages:

- ★ One handed push button operation.
- ★ 4 in. A.C./D.C. Voltmeter with fine Zero adjustment.
- ★ Stable & accurate readings.
- ★ Easy to read scaling.
- ★ Metal case 7" x 5" x 3".

Complete with probes, leads and carrying case.

PRICE **Only £19 10. 0.** p.p. 5/-

BATTERIES INCLUDED



MODEL MT-500

500v - 500 megohms insulation tester.
Mains operated, suitable for bench use.
Complete with leads and probes.

25 Gns. p.p. 7/6

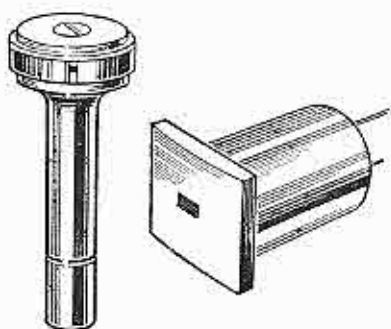
**PROFESSIONAL
ELECTRICAL
EQUIPMENT**

● ALL UNITS DESCRIBED ARE FULLY GUARANTEED ●

MARRIOT $\frac{1}{2}$ TRACK RECORD/PLAYBACK HEAD

AND MULLARD PERMANENT MAGNET ERASE WITH MOUNTING POST

PRICE
15/- pp. 9d.
THE PAIR



★ Record/playback head type R/RP/3 and erase magnet type TS 1238 with mounting post.

SPECIAL SCOOP OFFER

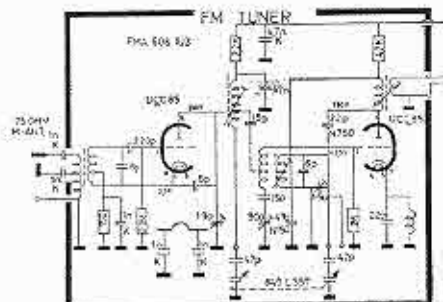
TAPE HEAD SPECIFICATION

- | | | | |
|--|--------------------|-------------------------|-----------------|
| ★ Medium impedance ... | 700 ohms at 1Kc/s. | ★ inductance at 1Kc/s. | 0.11H. |
| ★ DC Resistance | 175 ohms. | ★ Impedance at 50Kc/s. | 17.5 Kohms. |
| ★ Track width | 0.090 inches. | ★ Bias current 50Kc/s. | 1.2 to 2.4 mA. |
| ★ Gap | 0.0002 inches. | ★ Record current 1Kc/s. | 60—200 μ A. |
| ★ Maximum output at $3\frac{3}{4}$ in./Sec. and 2Kc/s. about 1.5 to 2mV. | | | |

★ BRAND NEW STOCKS—IDEAL FOR PORTABLE AND DOMESTIC EQUIPMENT ★

VHF FM TUNING HEART

SPECIAL OFFER



- ★ Standard FM coverage.
- ★ Geared precision tuning
- ★ RF amplifier and oscillator stages
- ★ Nominal 10 to 15 Mc/s IF output
- ★ Requires UCC85 valve (6/6d.)
- ★ Fully screened unit.

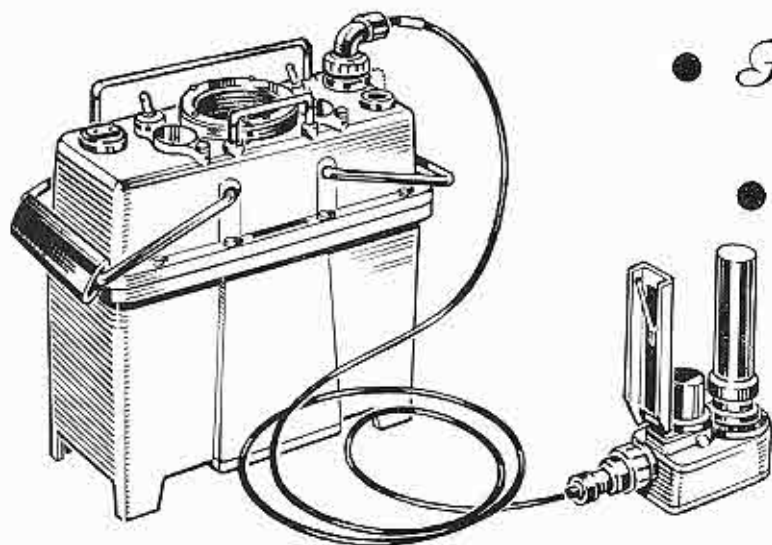
Brand New
 In Sealed Boxes

1/5- pp. 1/6d.

— SUPPLIED COMPLETE WITH CIRCUIT DIAGRAM —

● VALUE FOR MONEY BARGAINS ●

PORTABLE RADIO ACTIVITY COUNTER



- *Fully Portable*
- *Brand New*
- *Sold at a fraction of original cost*

PROVIDES MEASUREMENT OF GAMMA RADIATION FROM 0 TO 10.0 MILLI-ROENTGENS PER HOUR WITH CV2247 TUBE SUPPLIED. ALSO AVAILABLE CV2886 GEIGER—MULLER TUBE FOR BETA RADIATION DETECTION OF LIQUIDS—CV2886 TUBE 22/6d. EXTRA. PROVISION IS MADE FOR HEAD PHONES TO BE PLUGGED IN TO MONITOR THE COUNT. BATTERIES SUPPLIED HAVE A WORKING LIFE OF APPROXIMATELY 600 HOURS.

- ★ COMPLETE WITH PROBE UNIT
- HAVER SACK—INSTRUCTIONS
- INDICATING UNIT
- GEIGERMULLER TUBE
- BUILT IN BATTERY SUPPLY

£7 - 10 - 0

SET OF BATTERIES 50/-

POST AND PACKING 10/-



QUARTZ FIBRE POCKET DOSIMETERS

- | | | |
|---|----------|------------|
| ★ | 0 — 150r | 12/6 each. |
| ★ | 0 — 500r | 12/6 each. |

AVAILABLE FROM

HENRY'S RADIO LTD.

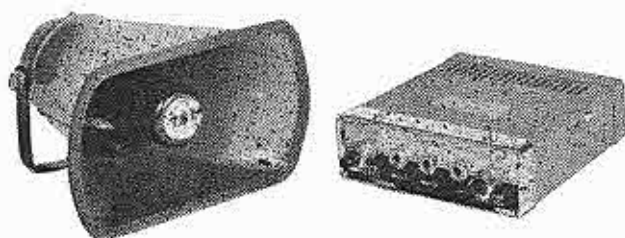
303 EDGWARE ROAD, LONDON, W.2

Telephone: PADdington 1008/9

● Electronic Component and Equipment Specialists. ●

MOBILE P.A. EQUIPMENT

MODELS CA512 AND SC.10F.



- ★ 12 VOLT OPERATION
- ★ ALL TRANSISTOR
- ★ 15 TO 20 WATTS
POWER OUTPUT

★ MODEL CA512 AMPLIFIER

Provides a complete mobile public address equipment. Features 3-inputs for microphones (600 ohm to 150 Kohm), tape input, and record player. Full mixing facilities, tone and volume control. Output impedance 3/4, 7/8 and 15/16 ohm. Response 200 c/s to 8 Kc/s. Sensitivity 4mVolts.

Overall size $6\frac{1}{2} \times 8\frac{1}{2} \times 2$ inches, weight 4 lbs.

★ **MODEL SC10F REFLEX HORN SPEAKER** Rated 7 to 10 watts. Impedance 4 ohms. One or two in series can be used with above amplifier. Also suitable for use with our 10 watt equipment see page 2.

PRICE

£22

(CA512 Amplifier)

PRICE

5 Gns.

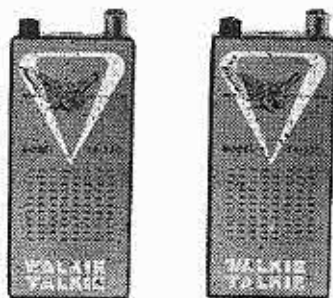
(SC10F Speaker)

EAGLE PRODUCTS ITEMS AVAILABLE

- ★ BCX50 HI-FI 8 inch Speaker **£9.15.0**
- ★ AP801 Audio Panel Speaker System 20 watts. 40-20,000 c/s. $29 \times 21 \times 4\frac{1}{2}$ in. 2-Woofers (Bass units), 2-Cone Tweeters. **£25**
- ★ AP601 Audio Panel 10 watts, 5 speaker unit **£18**
- ★ TSA18 20 watt per channel transistor stereo amplifier and control unit **49 gns.**
- ★ RX80 Communication receiver 4-wave band superhet. **£45**
- ★ CA712 40 watt mobile PA amplifier **£55**
- Transistor Tape Recorders TP703 **16Gns.**
- TR563 **14Gns.**
- UN406 **10Gns.**
- MT1000 **£8.19.6**
- ★ CL65A clamp. Volt/Ammeter **£6.14.6**

TRANSISTOR WALKIE TALKIE

MODEL TR220



3-Transistor Walkie Talkie. Superhet Crystal Controlled circuit with 85mW output. Range up to 1 mile under good conditions. Supplied with batteries, 10 section telescopic aerials, leather cases and instructions. Price per pair.

Price **£9.19.6 THE PAIR**

(SEE PAGE 58)

**SEE BACK INSIDE COVER
CONCERNING LEAFLETS AND
DETAILS.**

TRANSISTOR STEREO AMPLIFIER

MODEL TSA218



Price
49 gns.
Carriage
Free

A new full function stereo amplifier and pre-amplifier. 18 transistor design with inputs for pickups (2mV to 74mV), tuner 120mV, tape head (3mV) and aux. 120mV. For impedances between 100 K and 160 K ohm.

Fitted bass, treble, volume, loudness, controls* rumble and scatch filters, input selector, balance control, mode switch, speaker phase switch.

Power Output

20 watts per channel for 3 to 5 ohm Speakers
16 " " " " 7 to 8 ohm " "
13 " " " " 15 to 16 ohm " "

Frequency Response. 18c/s to 22 Kc/s ± 1 dB.

Signal to Noise. Between 60 and 80dB—
—Depends upon Input used.

Operates from 115 volt to 240 volt AC Mains.

Overall Size $13\frac{1}{2} \times 9\frac{1}{2} \times 3\frac{1}{2}$ ins.

● FULLY GUARANTEED ●

15 WATTS MONAURAL
OR $7\frac{1}{2} \pm 7\frac{1}{2}$ WATTS STEREO.

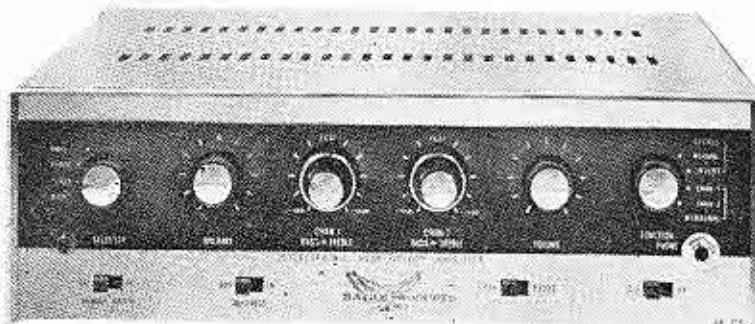
7-Valve design with inputs for pickups, tape, tuner and auxiliary. Sensitivities between $3\frac{1}{2}$ mV and 500mV from 50 Kohm to 2 Megohm. Output to 3 or 4, 7 to 8 and 15 to 16 ohm speakers. Controls include treble, bass, volume, balance, selector, rumble filter, mode switch, speaker phasing etc. Harmonic distortion less than 1% at 1 Kc/s at 10 watts. Response ± 0.5 dB. 30 c/s to 25 Kc/s. Hum and noise more than 60dB below rated output.

(Similar in appearance to model illustrated)

★ FULLY GUARANTEED ★

VALVE STEREO AMPLIFIER

MODEL SA200



Price **£26.10.0** Carriage Free

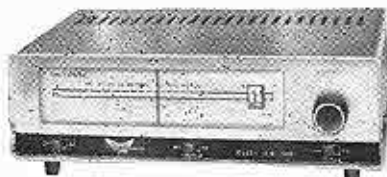
● SUPPLIED COMPLETE WITH FULLY DETAILED AND ILLUSTRATED INSTRUCTION MANUALS ●

MODEL FMT640

VHF FM TUNER

Price
£23.3.0
(Including P.T.)

Carriage
Free



A truly superb high fidelity FM Tuner. Features multi-plex output socket, flywheel tuning, low noise front end, high sensitivity and automatic audio shut off - for noise free tuning between stations. Switchable automatic frequency control—locks onto station. Fitted tuning indicator. Standard mains operated.

Seven valve plus rectifier superhet design covers 88 to 108 Mc/s. Armstrong circuit with dual limiters and wide band discriminator.

Sensitivity : 2 Microvolt FM 20dB queeing.
Selectivity : 200Kc/s band with at 6dB donn.
Harmonic Dist : Less than 1%
Hum Level : —58dB.
IF Rejection : 70dB.
Image Rejection : Better than 40dB.
Response : 20 20,000 c/s.
Aerial Input : 300 ohm unbalanced.
Tuning Indicator : FM Signal strength level meter.
Dimensions : $11 \times 7\frac{1}{4} \times 3\frac{1}{4}$ ins.

VALVES

(1) 6AQ8 RF Amplifier. (1) 6AQ8 AFC/OSC.
(2) 6BA6 1st, 2nd, IF (2) 6AU6 1st, 2nd, limiter.
(1) 6AL5 Discriminator PLUS RECTIFIER.

Sinclair MICRO-6 Personal POCKET RADIO

Actual Size!

- ★ 6-STAGE SENSITIVITY
- ★ SELF CONTAINED AERIAL AND BATTERY
- ★ PLAYS ANYWHERE—FULL MEDIUM WAVE

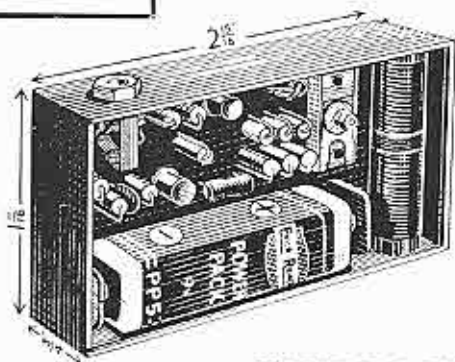
TOTAL COST
OF ALL PARTS **59/6** POST FREE

- ★ 3-TRANSISTORS AND 2-DIODES
- ★ PRINTED CIRCUIT CONSTRUCTION
- ★ COMPLETE WITH PERSONAL EARPHONE AND INSTRUCTIONS



● YOU HAVE SEEN IT ADVERTISED ●

SINCLAIR SLIMLINE



PERSONAL POCKET RADIO

- ★ FULL MEDIUM WAVE TUNING
- ★ 2-TRANSISTORS AND 2-DIODES
- ★ PRINTED CIRCUIT

TOTAL COST
OF ALL PARTS **49/6** POST FREE.
WITH EARPHONE

★ SIMPLE TO BUILD—EASY TO USE RADIO ★

TYPE ZM312



MALLORY 6-CELL PACK OFFER

Single Mallory Mercury Cells,
1/11 each.
Pack of 6, at special price of 10/6
pp. 6d.

SINCLAIR MICRO-INJECTOR KIT

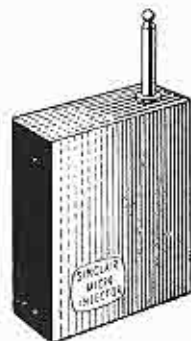
A rapid and dependable instrument for tracing faults in Valve or Transistor Radio and Audio Equipment.

Using two MICRO-ALLOY TRANSISTORS, this precision sub-miniature instrument generates and injects a test signal into any part of a receiver or amplifier at any frequency from 1 Kc/s to 30 Mc/s. By this means the location of any fault can be rapidly found.

Powered by a 6d. standard battery which will last for about 6 months. Assembly is extremely simple and will take even a beginner only half an hour.

Total cost of all parts including 2 M.A.T.S., probe, case and full instructions.

● Output from 1Kc/s to 30 Mc/s. ●



1 3/8" x 1 1/4" x 1/2"

27/6 POST FREE

● FOR SPEEDY AND ACCURATE FAULT TRACING ●

TRANSISTORS

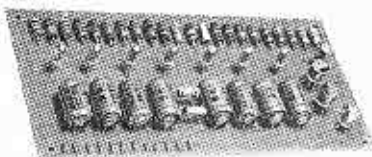
MAT 100	...	...	...	7/9
MAT 101	...	...	...	8/6
MAT 120	...	...	...	7/9
MAT 121	...	...	...	8/6
ADT 140	...	...	...	15/-

NEW

SINCLAIR X-10

● 10 WATT TRANSISTOR AMPLIFIER ●

The Sinclair X-10 is a high fidelity integrated power amplifier and pre-amp using 11 transistors and having a transformerless output of 10 watts for feeding into a 15 ohm loudspeaker system. It requires only the addition of tone and volume controls plus a twelve volt D.C. power supply to make it a complete mono high fidelity assembly of exceptional quality. Stereo is achieved by using two X-10 amplifiers and ganged or separate controls. Input sensitivity is sufficient for all crystal or magnetic pick-ups and the manual supplied with the X-10 gives detailed instructions for connecting the controls and for using the amplifier in a wide variety of applications.



This radically new transistor amplifier (patents applied for) is the first to be marketed anywhere in the world using the pulse width modulation principle (P.W.M.) as described by D. R. Birt in "Wireless World," February, 1963. This technique permits an enormous reduction in the power dissipation in the output transistors of an amplifier; and in the case of the Sinclair X-10, the output efficiency is about 95% as compared with about 60% for conventional class B output stages. Thus the dissipation is only 1/4th or less of that occurring in all other amplifiers. That is why no heat sink is required for the output stage, why small high frequency transistors can be used in place of the conventional low frequency power transistors and why the X-10 will operate from two 4/- batteries with normal use for about 3 months.

- ★ No heat sink.
- ★ Add your own choice of tone control circuit.
- ★ Input Sensitivity 1mV.
- ★ Total harmonic distortion >0.1%.
- ★ Output power 10 watts.
- ★ Frequency response 5-20,000 c/s ± 0.5 dB.
- ★ Speaker impedance 15 Ω .
- ★ Damping factor Greater than 100.
- ★ Quiescent consumption 75mA.
- ★ Supply voltage 12 to 15 volts.

Price, inclusive of all parts and Instruction Manual for building X-10. **£5.19.6**

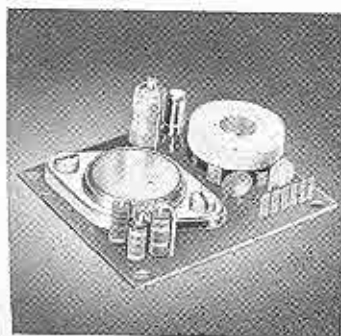
Ready Built and Tested including Instruction Manual **£6 19.6**

Mains Power Supply Unit (A.C. 200/240V) **£2.14.0**
will power one or two amplifiers.

● NEW DESIGN, PRINCIPLES, PERFORMANCE ●

SINCLAIR TR750

Complete with Built-in Volume Control and on/off Switch.



**POWER AMPLIFIER
PERFECT FOR USE WITH THE
MICRO-6 AND SLIMLINE**

Measuring only 2x2in. and having its own built-in volume control and on-off switch, the TR750 has a full 750 milliwatt transformerless output for 10mV into 10K ohms. Frequency response is from 30 to 20,000 c/s within ± 1 dB. This amplifier makes a powerful car, domestic or portable radio used with the Micro-6 or Slimline receivers, or a hi-fi record reproducer used singly or paired for stereo. There are many other uses for the TR750, which is available for building. All parts with instructions come to

Price 39/6 Post Free.

**BUILD AN F.M.
TRANSMITTER WITH THE
SINCLAIR MICRO
MICRO-AMPLIFIER**



Smaller than a 3d. piece! Frequency response 30 to 50,000 c/s ± 1 dB. Power gain 60 dB

(1,000,000 times) Instructions show you how to make a broad-band R.F. amplifier, F.M. transmitter or a sub-miniature hi-fi amplifier with an output suitable for any earpiece or even loud-speaker.

Smaller than a 3d. piece. Parts and instructions come to

28/6

CN3 CROSSOVER



Provides matching from amplifier to bass speaker and tweeter or to bass speaker, mid range speaker and tweeter. Cross over frequencies 500 c/s and 3300 c/s. Fitted

treble and mid-range 'L' pad level controls. 15 to 16 ohms impedance.

Price 99/6 pp. 2/6

HT40 HORN TWEETER

High fidelity high performance professional tweeter. Frequency range: 3,000 c/s to 20,000 c/s.

Crossover frequency can be between 3500 c/s and 10 Kc/s.

Impedance 15/16 ohm. Sensitivity 108dB, input 20 watts. Flux density 17000 gauss.



Price 89/6 pp. 2/-

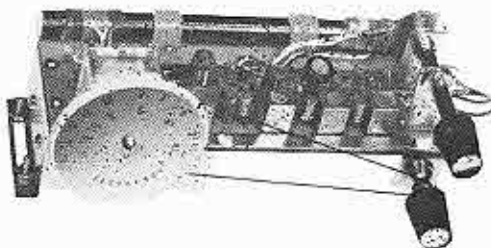
★ SPECIAL HI-FI SPEAKER BARGAINS

- 12 inch 15 ohm 6 watt with HF cone. Large magnet 39/6 pp. 2/6
- 12 inch 3 ohm as above 39/6 pp. 2/6
- 13½ × 8½ 6 watt 3 ohm 39/6 pp. 2/6
- 13½ × 8½ 6 watt 15 ohm 39/6 pp. 2/6

(See also pages 74 to 77 and 46)

MODEL AST1 TRANSISTOR MEDIUM WAVE AND SHORT WAVE TUNER

Operates from 9 volt battery Frequency coverage medium wave band 530-1600 Kc/s and 4.5 to 12 Mc/s shortwave band. Four transistor superhet circuit with output up to 250mV. Supplied built and tested ready to be used with any transistor or valve amplifier.



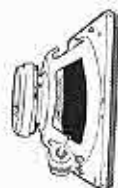
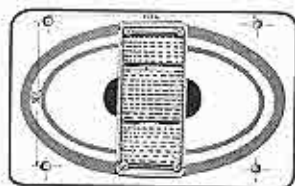
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A complete Loudspeaker system on one frame combining two critically matched ceramic magnet speakers with a low loss crossover network. Peak handling power 10 watts; Impedance 15/16 ohms; Flux density 11,000 gauss; resonance 40-60c/s. Frequency range 50c/s to 20 Kc/s.

Size 13½ × 8½ × 4½ inches.

Price £6.19.6 pp. 3/-



Price £10.19.6 pp. 2/-

EP100K

DC VOLTS	: 0/¼/2½/10/50/250 (100,000 ohms/volt)
	0/500/1000 volts (20,000 ohms/volt)
DC CURRENT	: 0/10/microamp. 0/1/25/250µA. 0/10Amp.
AC VOLTS	: 0/2½/10/50/250/1000 volts (10,000 ohms/volt).
RESISTANCE	: 0/20K/200K/2Meg/20Meg
DECIBELS	: -20 to +10dB. +10dB to +22dB.
CAPACITY	: 0.001mfd to 0.1 mfd.
INDUCTANCE	: 100H to 5000H.
ACCURACY	: Approximately ±3%
SIZE	: 6½ × 4½ × 2½ inches.

100,000 ohms per volt

Complete with batteries
Test Leads and Full Instructions
(Leather case 29/6)

CROSSOVER - SPEAKERS - TWEETER - TUNER - MULTI-METER

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THE FOLLOWING DETAILED LEAFLETS
ARE AVAILABLE.

All prices are post paid.

†3d. per 4 leaflets.

*Circuit diagrams included.

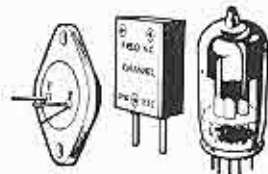
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