

SPECIFICATIONS FOR BOTH TRANSMITTERS

| | |
|----------------------|---------------------------------------|
| Panel size | 4" x 3" |
| Height overall valve | 2.1/2" |
| Switch hole centres | 2.1/4" |
| Operating voltage | Minimum Maximum |
| | 85 volts 135 volts |
| Operating current | Minimum Maximum |
| | 1.1/2 volta 12 - 20 m/a 200 m/a |

Tone transmitter modulation to suit receivers 500-900 c.p.s.

Both transmitters are designed exclusively for single-channel operation, and cannot be modified either for crystal control or multi-channel.

BATTERIES FOR BOTH TRANSMITTERS

The following batteries are recommended for use with these transmitters:-

| | | |
|--------------------------------|---------------|-----------------|
| 135 volt H. T. (2 x 67.1/2 v.) | Exide DM. 501 | Eveready B. 101 |
| 1.1/2 volt L. T. | Exide H. 1184 | Eveready AD. 35 |
| 90 volt H. T. (see note) | Exide DM. 526 | Eveready B. 101 |

For maximum range it is advisable to use the higher 135 volt H. T. supply. These batteries may be used down to a level of 85 volts ON LOAD, i.e. with equipment switched on and keyed. There will be a subsequent gradual loss of range as voltage is reduced.

Whilst 90 volt batteries may be initially cheaper, the commencing range is less and they must still be discarded at 85 volts.

BATTERY CONNECTORS ARE SUPPLIED IN THE KIT FOR THE HIGHER VOLTAGE ONLY.

L. T. batteries must be discarded when approaching 1 volt ON LOAD.

MATCHING EQUIPMENT AND OPERATION

The Carrierwave Transmitter is designed for use with our Transistorised Carrier-wave Receiver.

The Tone Transmitter is designed for use with our Terrytone and Minimac Receivers. It will also operate most other similar receivers which require a tone frequency in the order of 500-900 c.p.s. If optimum tone frequency matching is required this may be obtained by increasing or reducing the value of capacitor C.4.

This transmitter may be operated with constant carrierwave and keyed tone or both keyed simultaneously.

When tested with our own receivers ground range of either transmitter is in excess of 600 yds, providing all the equipment is being operated at the recommended voltages.

Experiments have shown that there is no appreciable increase of range by the incorporation of a centre loaded aerial.

Please note also these transmitters conform to operate within the allotted frequency of 26.96 to 27.28 M/cs for which a G.P.O. transmitting licence is required costing £1 for five years.

PARTS AND CONTENTS FOR THE CARRIERWAVE TRANSMITTER KIT.

The following components are common to both transmitters.

PRINTED CIRCUIT PANEL

Insulator panel

VALVE DCC 90 or 1A5 Marked

Valveholder Printed circuit type B7G

RESISTOR 15K. ohm Brown/Green/Orange

TUBULAR CAPACITOR 100 pf Marked

TRIMMER 5-30 pf Beehive

H. F. C. Standard miniature

COILS Pre-wound 1/2" dia. x 18 awg. enameled copper wire.

L. 1 18 awg. tinned copper wire and sleeving provided.

L. 2 Pre-wound 1/4" dia. x 20 awg. enameled copper wire.

L. 3 Double pole on-off.

TOGGLE SWITCH Press to make.

KEY SWITCH Two pin plug.

BATTERY CONNECTORS 2-Positive press studs Brass colour.

1.1/2 volt L. T. 2-Negative press studs Silver colour.

135 volt H. T. (2 x 67.1/2 v.)

SUNDRIES Solder tags, coloured flexible wire, tinned copper wire, sleeving, switch bushes, coil bushes and solder.

TRANSFORMER Ref. RC 252

RESISTORS 100K. ohm Brown/Black/Yellow.

R. 2 4.7K. ohm Yellow/Violet/Red.

R. 3 .01 mfd. Marked.

MOULDED FOIL CAPACITORS .022 mfd. Marked.

C. 2 .01 mfd. Marked.

C. 3 Standard miniature

C. 4 H. F. C.

SUNDRIES Solder tags, extra solder and wire.

H. F. C. Sleeved Brown P. V. C.

ADDITIONAL COMPONENTS SUPPLIED FOR THE TONE TRANSMITTER KIT.

Also the contents of the conversion kit.

TRANSFORMER Ref. RC 252

RESISTORS 100K. ohm Brown/Black/Yellow.

R. 2 4.7K. ohm Yellow/Violet/Red.

R. 3 .01 mfd. Marked.

MOULDED FOIL CAPACITORS .022 mfd. Marked.

C. 2 .01 mfd. Marked.

C. 3 Standard miniature

C. 4 H. F. C.

SUNDRIES Solder tags, extra solder and wire.

H. F. C. Sleeved Brown P. V. C.