

# BARLOW WADLEY COMMUNICATION RECEIVER

## XCR 30 Mk II

### SPECIFICATIONS

#### RF SECTION

Frequency Range                      500 KHz to 31 MHz

#### HF SECTION:

Overall Sensitivity:                      Better than 1  $\mu$ V for 50 mW [– 19 dB (pW)]

Overall Selectivity:                      6 KHz on AM  
3 KHz on SSB and CW

Overall Image Rejection:                50 dB on all movable images  
 $\geq$  60 dB on immovable images

IF Rejection:                              455 KHz } 50 dB  
42,5 MHz }  
45 MHz > 60 dB

IF Selectivity:                              For 42,5 MHz                              300 KHz  
For 45 MHz                                1,3 MHz  
For 455 KHz                                7,5 KHz                                      } 10 dB

Clarify Range:                               $\pm$  1,5 KHz

#### POWER AND LF SECTION:

Max. O/P Power:                            400 mW

Speaker Impedance:                        8 ohms

Frequency Response:                        150 Hz to 3 KHz (3 dB points)

D.C. Power Consumption:                20 mA @ no signal  
200 mA peak

Ext. Power Supply:                        6 to 12 volts D.C.; Positive Earth; Reverse Polarity Protection

#### SIGNAL SENSITIVITY – SERVICE GUIDE

Typical Input signal levels required for 50 mW Audio Output

INPUT LEVEL	FREQUENCY	TEST POINT
12,5 mV	1 KHz	Junction of R5 – R50
1,4 mV	455 KHz	TR 12 Base
130 $\mu$ V	455 KHz	TR 11 Base
25 $\mu$ V	455 KHz	TR 10 Base
5 $\mu$ V	455 KHz	TP 3
12 $\mu$ V	2,5 MHz	TP 3
2 $\mu$ V	2,5 MHz	TR 8 Base
1 $\mu$ V	15,5 MHz	TR 5 Collector
<1 $\mu$ V	15,5 MHz	TR 5 Base

Input signal level to 42,5 MHz and 45 MHz Amplifiers with a D.C. mV meter connected to TP 2 via 4 K7 and C20 shorted out.

INPUT	LEVEL	FREQUENCY	OUTPUT
TP 1 via 1 K	3 mV	42,5 MHz	50 mV
TP 4 via 1 K	120 mV	45 MHz	25 mV