

## SECTION 2 (cont'd)

### SPECIFICATION (cont'd)

#### CONTROLS: (Front Panel)

FUNCTION (OFF-LSB/USB/AM)  
AF GAIN  
RF GAIN  
PRE-SELECTOR

CAL- ON/OFF  
DIAL SWITCH  
TUNING

#### (Chassis Rear)

LISTING SOCKET (with normally shorting Plug link)  
ANTENNA SOCKET  
POWER LEAD

"Q" MULTIPLIER SOCKET

DIAL: Slide rule Vernier Scale 2 inches provides effective scale length 12.5 inches.

DIAL DRIVE: Reduction Ratio 1 : 10

#### WARNING

THE VOLTAGES IN THIS ARE DANGEROUS  
AND EVERY CARE MUST BE TAKEN  
TO AVOID CONTACT

DISCONNECT THE POWER LEAD BEFORE  
CHANGING FUSE OR REMOVING CHASSIS

## SECTION 3

### INSTALLATION and OPERATION

3-1

#### Power Connections

The green wire in the mains lead should be taken to the earth (ground) pin of a three-pin power plug. To select the correct power input tap on the receiver (200/220/240v AC) the black wire in the mains lead should be connected to either the Grey, Yellow or Black lead from the Main transformer. These colours correspond to 200 - 220 - 240v respectively (see Fig. 1). The receiver is set for 240 v AC input as it leaves the factory and should it be necessary to alter the tap, access is obtained by removing the chassis from the cabinet (see Section 3 para. 11). Always take care when removing the chassis from the Cabinet not to damage the Speaker cone - AND DO NOT FORGET TO REMOVE POWER LEAD FROM SUPPLY VOLTAGE.

## SECTION 3 (Cont'd)

### 3-2 Aerial.

The Receiver is designed for an antenna input of 50 - 75 ohms from a co-axial line, and the best results will be obtained when using this. However, almost any type of aerial may be used, such as a long wire, etc.

### 3-3 (a) Wavechange Switch

The wavechange switch has eleven positions, clearly marked at the front panel with the lowest frequency of each range. The markings on the main tuning dial are additive to the switch marking, e.g. with the Switch on 14.2 and the dial at 100 Kc/s the receiver is tuned to 14.3 mc/s or 14300 Kc/s. With the standard crystals fitted to the equipment the frequency bands covered are as shown in Section 2. Set the switch to the required frequency band.

### (b) Pre-Selector

The Pre-Selector is calibrated in bands 10 15 20 40 80 and 160 metres and is situated at the front panel adjacent to the wavechange switch. The control is equipped with a slow motion device to facilitate easy tuning. The calibration pointer painted red, which moves slowly behind the skirt of the knob, should be set approximately to the frequency band required. After tuning to a signal, adjust the Pre-Selector knob for maximum signal strength as indicated on the 'S' Meter.

### 3-4 AM Reception

To switch on, turn switch OFF/LSB/USB-AM at Front Panel to THE AM Position.

### 3-5 SSB Operation

Reception of single sideband with this receiver will be found to be quite simple. There is only one adjustment to be made as with AM, that being the main tuning dial.

The function switch should be switched to the appropriate sideband, either upper or lower, and tune the desired signal for optimum intelligibility.

### SECTION 3 (cont'd)

3-5 (cont'd) It is normal agreed practice to use upper sideband on 10, 15 and 20 metres and lower sideband on 40, 80 and 160 metres. Occasionally, operators use the other sideband, so that if difficulty is experienced in tuning in an SSB signal the opposite sideband should be tried.

#### 3-6 CW Reception

For reception of CW signals, the same procedure as for SSB should be adopted.

#### 3-7 CW Reception using the KW 'Q' Multiplier

The KW 'Q' Multiplier cable should be plugged into the four pin socket at the rear of the receiver (see fig. 2). The 'Q' Multiplier 'Selectivity' control should then be advanced towards MAX until the desired selectivity is achieved. The "Tune" control should then be altered to give the Peak beat note required by the operator.

#### 3-8 Calibration

The method of reading off the dial frequency is illustrated in fig 4. Calibration may be carried out on the receiver in any mode of operation by tuning the marker signal to Zero beat with the "Cal" push button depressed. On all bands the 100 kc crystal calibrator can be heard at both ends of the dial calibration and in the centre. The dial can then be reset by loosening the two knurled screws on each side of the dial scale. Then slide the scale until a 100 kc/s point coincides with the Zero beat of the Marker Signal.

#### 3-9 'S' Meter

The 'S' Meter is provided to assist in tuning and to give an indication of relative signal strength. The meter may be used on any type of signal, with the RF Gain at Maximum. When adjusted at the factory the 'S' meter reads 39 for an input of 50 uv. and is calibrated at 4 db. each S point. The meter may be set to Zero by means of the potentiometer at the back of the printed circuit board (see fig.3)

#### 3-10 Muting

The receiver is provided with a socket at the rear of the chassis (Two Pin Non Reversible) which is for Muting. This should be used with an external relay with a "Make" contact on Receive. When used on its own, the Receiver will remain "muted" until a link is placed across the Non-Reversible Plug. The KW 201 is normally supplied with a link plug fitted, also a non-link plug for use when 'change-over' facilities are required.

## SECTION 3 (cont'd)

3-11

### Removing the Chassis

To remove chassis from cabinet, the four cabinet feet have to be unscrewed. To gain access to the screw-head in the front feet it is necessary to first remove the plastic studs which are just a 'push fit' and can be lifted out with a screwdriver. After removing four fixing screws the chassis may be pushed at the rear and pulled forward through the front of the cabinet.