

K.W. ELECTRONICS LIMITED.

Telephone: Dartford 25574.

DECCA COMMUNICATIONS LTD.
CRAMPTONS ROAD
SEVENOAKS KENT. TEL 50911

Vanguard Works,
1, Heath Street,
Dartford, Kent.

K.W. REMOTE VFO 4B.

General Description.

The VFO 4B is designed for use with the K.W.2000B and from Serial Number B1455 no modification is required to the Transceiver. Earlier models can easily be modified, including the K.W.2000A and K.W.2000. The Unit comprises a K.W.2000B VFO covering 200 KHz, 2.5 to 2.7 MHz. The power requirements, 6.3v at 0.3 Amp and HT 250v 8 m/a are derived from the transceiver. The RF output of the Remote VFO is fed through the Units selector switch and a relay to the Mixer in the main transceiver which is normally fed by the Internal VFO. The selector switch provides four positions.

- OFF - This permits "Transceive" operation on the Internal VFO.
- RX - VFO 4B in operation, only on "Receive".
- T/R - VFO 4B provides frequency control both on "Transmit" and "Recieve". (The Internal VFO in the main equipment is not operational).
- TX - VFO 4B in operation only on "Transmit".

A CAL SET Control permits the VFO calibration to be adjusted, using the 100 KHz crystal calibrator in the main transceiver.

Installation.

K.W.2000B's after Serial Number B1455 have a 12 pin plug at the rear of the chassis. Remove plug and insert 12 pin plug, at the end of the VFO 4B cable, into the vacant socket. A separate Modification Sheet is available for the K.W.2000B's - prior to above serial number - K.W.2000A and K.W.2000. The length of connecting cable allows the VFO 4B to be conveniently located at the side of the main transceiver.

Operation.

The frequency coverage of the transceiver using the VFO 4B is exactly the same as the transceiver, according to the main wave-band switch and "Pre-Selector" positions. The function of the VFO 4B can best be explained by providing a few operational examples. Remember the IRT/ITT Control in the main transceiver only operates on the internal VFO.

Example 1.

The station is working "transceive" on 14150 and due to QBM is asked to call about 20 KHz higher, whilst listening on the original frequency (14150). Having previously checked the VFO 4B calibration, switch the VFO 4B selector switch to TX and tune VFO dial to 170. This provides operation on 14170 "transmit" and 14150 "receive". Note, the dial light on the Remote VFO lights only on Transmit.

Example 2.

The station is set up on 3790 KHz "transceive" and the operator wishes to search 3700 to 3900 KHz on the receiver. Switch VFO 4B selector to RX. It is now possible to transmit in the European SSB DX Band and listen in North American Band up to 3900 KHz. (Assuming normal crystals in the transceiver). VFO 4B dial light remains ON during "receive" and is switched-off when the P.T.T. or VOX is operated to "transmit".

Example 3.

It sometimes happens that a DXpedition will be transmitting on say, 14150 and listening on 14250 KHz. To accomodate this facility, one extra operational function will be necessary when changing each time, from "transmit" to "receive" and visa-versa. i.e. the waveband switch must be in position 14A to transmit on 14150 and 14B to receive 14250. In this case, the internal VFO will be at 150 and the VFO 4B at 050, with the function switch at RX. After a little practise this becomes a very simple operation.

Example 4.

You are in a multi-way QSO on 3750 KHz. A "caller" asks for a quick QSO 20 KHz higher both using "transceive". Set the VFO 4B dial to 070 and function switch to T/R. The dial light will remain "on" all the time for both "Transmit" and "Receive". After the QSO, switch the VFO 4B to OFF and you are immediately on the frequency of the original QSO, with normal IRT/ITT facilities of the internal VFO.

IMPORTANT

When using the VFO 4B with frequencies for "transmit" and "receive" separated by more than 50 KHz, ALWAYS GIVE PRE-SELECTOR TUNING ADJUSTMENT PREFERENCE TO THE TRANSMIT FREQUENCY.

11 - 12 Sholex } mine
1 - 10 Cu leads }