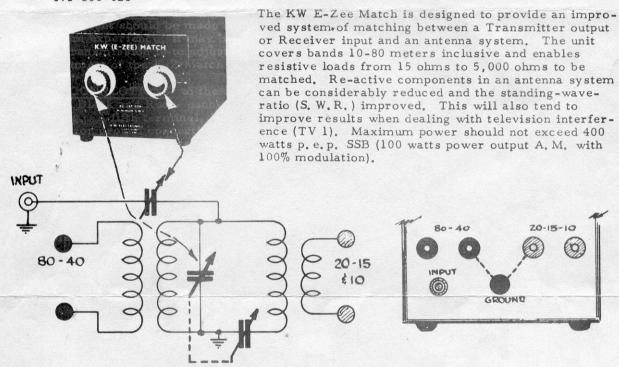


Decca Communications Limited

SPECIFICATIONS AND INSTRUCTIONS

KW E-ZEE MATCH ANTENNA TUNING UNIT

471-600-021



TRANSMITTER OPERATION Connect the low impedance output of the transmitter to the RF input of a standing-wave-ratio bridge (e.g. the KW Match) and the RF "output" of the SWR Bridge to the RF input co-axial socket on the KW E-Z Match. Connect the antenna to the appropriate terminals at the rear of the E-Z Match. (See instructions below). With the SWR Bridge switched to "reflected" power, tune the two controls at the front of the E-Z Match for minimum SWR indication. NOTE: It may be necessary to re-adjust the sensitivity of the SWR indicator, with the switch in the "forward" power position, to obtain optimum SWR indication. When the correct match has been found, log the dial reading of E-Z Match for easy reference after a frequency change.

WARNING
During the tuning process, always ensure that the P. A. stage is not pulled off-resonance. Slight re-adjustment to maintain resonance may be necessary.

RECEIVER OPERATION The same principals apply when using the E-Z Match with a Receiver only. Adjustment should be made for optimum signal strength. An SWR Indicator is not required. From experience, it may be found, that a quick approximate method of tuning the E-Z Match for transmission is to adjust on a received signal at the required transmission frequency. Final adjustment of the E-Z Match should be done using the SWR Indicator method.

ANTENNA CONNECTIONS to the E-Z Match. At the rear of the unit are two pairs of terminals - Black and Red - each will accept a 'Banana' plug or screw down on to wire or to a 'spade' tag. A fifth terminal, black in colour, situated below the two pairs of terminals, is provided for ground connection and for a connection link to one of the terminal pairs when using a single-wire-feed-antenna. The BLACK pair of terminals are for use on 40 and 80 meters. The RED pair of terminals are for use on 10, 15, and 20 meters. A pair of terminals should always be used when the antenna is fed with co-axial cable, twin cable, or open wire feeder. For single-wire-feed use only one terminal of the pair (Black 40/80 - Red 10/15/20) for the antenna connection and link the other terminal of the pair to the ground terminal. Try reversing the connections to antenna and ground terminal pairs for best SWR. ALWAYS connect a ground wire to the E-Z Match. It is desirable that this be made as short as possible to a ground-post and not to the ground of the domestic electricity supply.