

OPERATION OF S.E.M. Q.R.M. ELIMINATOR

1. Plug your normal transmitting/receiving aerial into "MAIN ANT" socket.
2. Connect "RECEIVER" socket to your receiver/transceiver aerial socket.
3. Connect a pick up aerial to the "AUX ANT" socket. Any sort of aerial can be used because local interference can be received well with a poor aerial. If you have an aerial for another H.F. Band you can use this, or a 2m aerial, plug just the centre pin of the PL 259 into the Q.R.M. Eliminator socket, so that the ring of the plug is not making contact with the socket so that you are using the co-ax feeder as the aerial. Using an indoor length of wire has also proved highly successful.
4. Connect a 12v d.c. supply (10-15 v) 150 mA to the "12V" phono plug. Positive to the centre tag, negative to the ring. Note that in many circumstances the negative will be connected via the co-ax braid and will not need wiring.
5. If you are going to transmit through the Q.R.M. Eliminator the centre tag of the phono socket "CONTROL" will need to be connected to the transceiver so that an earth is applied on TRANSMIT and it is open on RECEIVE. This is usually the linear amp. control point. Not to the PTT.

Switching the ELIMINATOR OFF also puts it straight through and you can transmit through it.

OPERATING

Switch the Q.R.M. ELIMINATOR on. With the "GAIN" fully clockwise, carefully adjust the 2 "PHASE" controls for a reduction in the interference. If the interference is not completely removed, adjust the "GAIN" control, followed again by the "PHASES" for a complete null.

Adjustment of the 3 controls should produce complete attenuation of any offending local signals. Because you have 3 interacting, adjustments can be critical.