

TEN-TEC INSTRUCTION SHEET
MODELS 282, 285 and 288 CRYSTAL FILTERS

GENERAL

Models 282, 285 and 288 are 6.3 MHz crystal ladder filter options designed for use in the DELTA and CORSAIR transceivers.

SPECIFICATIONS

	<u>Model 282</u>	<u>Model 285</u>	<u>Model 288</u>
CENTER FREQUENCY, MHz.	6.299250	6.299250	6.300
6 DB. BANDWIDTH, Hz.	250 NOMINAL	500 NOMINAL	1800
SHAPE FACTOR, 6/60 dB.	3.4:1	2.9:1	1.75:1
INSERTION LOSS, dB	11.5	5.5	2.5
ULTIMATE, REJECTION, dB	+90	+90	+100
Z _{in} , Z _{out} , OHMS	200	200	200

INSTALLATION - CORSAIR TRANSCEIVERS

- 1.) Turn power off. Remove four screws securing top cover and remove it.
- 2.) Locate the PBT Board 80979. LOCATE the socket for the filter being installed.
- 3.) MODEL 288 ONLY: locate the short gray jumper wire in the middle of the 1.8 socket, and cut it off flush with the board at each end.
- 4.) Carefully align the four pins of filter with the corresponding sockets on the board and gently push down until each pin seats in its socket. NOTE: There is no IN or OUT orientation to the filter; it may be inserted into its socket either way.
- 5.) Turn power back on and check for proper filter operation. Make sure the transceiver "receives" in the XTAL switch position associated with the filter just installed. If not, check that the filter is seated in its correct socket.
- 6.) Replace top cover and 4 screws.

INSTALLATION - DELTA TRANSCEIVERS

- 1.) Turn power off. Remove the four top cover screws and remove top cover.
- 2.) Locate the IF Amplifier Board 80554 directly in front of the final amplifier assembly. A GREEN jumper wire runs diagonally across the board.
- 3.) Remove GREEN jumper wire by cutting it off flush with the board at each end.
- 4.) Carefully align the four pins on the crystal filter being installed with the corresponding sockets on the board and gently push down until each pin seats in its socket. NOTE: There is no IN or OUT orientation to the filter. It may be inserted into its socket either way.
- 5.) Turn power on and check for proper filter operation. Make sure the DELTA "receives" in the CW-1 switch position. If not, make sure the filter is seated in its socket.
- 6.) Replace top cover.

OPERATION - CORSAIR TRANSCEIVER

When one of the optional filters has been installed on the PBT board, it can be selected by the XTAL switch on the front panel. It will become part of the passband tuning system.

OPERATION - DELTA TRANSCEIVER

When one of the optional crystal filters has been installed on the IF Amplifier board, it can be selected for use in cascade with the 2.4 kHz standard filter with the SELECTIVITY switch on the front panel. The optional filter will be active in the