

Technical Bulletin

TB#: 0107-2
Date: July 23, 2001
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MODEL NUMBER : VXR-7000

Radios Affected: Any used with external accessories to be connected to the LINE jack

Reason for Technical Bulletin: Correct information on LINE jack connections

Warranty Reimbursement: None. For information only.

INFORMATION: The VXR-7000 Operating Manuals and Service Manuals have erroneous and incomplete information about connections to the LINE jack. Following is correct information about these connections. Underlined text is changed from or added to the information printed in the manuals.

Pins 1 & 2: [RX SQ(+), RXSQ(-)]

An opto-isolator is provided to facilitate E (EAR) signaling. The opto-isolator comes on when a signal exceeding the receiver squelch appears on the receiver channel (with correct CTCSS tone or DCS code, if enabled). The RX SQ(-) pin is the emitter. The RX SQ(+) pin is the collector. Maximum voltage is 20V, maximum current is 7mA. If the connected external device delivers more than 9V here, place an appropriate value resistor in series to safely limit the current to under 7mA.

Pins 3 & 4: [LINE IN (TX line audio)]

Analog signals between 300 and 3,000 Hz supplied to this pair are fed to the transmitter when the repeater is set to the BASE mode (the REPEATER LED is turned off) and keyed either by the TX KEY input signal (see below) or by the EXT PTT signal on pin 12 of the rear panel's ACC (DB-25) jack. Standard deviation is obtained with a line input level of -10dBm. S4002 (attenuation) and VR4003 (adjust) can be used to vary this level. Input impedance is 600Ω.

Pins 5 & 6: [LINE OUT (RX Line Audio)]

Bandpass filtered receiver audio (300 to 3,000 Hz) is available on this pair, subject to internal CTCSS or DCS decode, when the received signal strength is above the squelch threshold. A 1kHz test tone at full deviation will deliver -10dBm of line audio output. S4001 (attenuation) and VR4002 (adjust) can be used to vary this level. Output impedance is 600Ω.

Pins 7 & 8: [TX KEY(+), TX KEY(-)]

An opto-isolator is provided to facilitate M (MIC) signaling. That is, a voltage presented to these pins turns on the opto-isolator and keys the transmitter. The TX KEY (+) pin is the anode of the opto-isolator. The TX KEY (-) is the cathode of the opto-isolator. Maximum voltage is 20V, maximum current is 4mA. If the connected external device delivers more than 15V here, place an appropriate value resistor in series to safely limit the current to under 4mA.

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Ref #	Old Part No.	New Part No.	Qty	New Part Description