

SPECIFICATIONS

RECEIVER	
AM Sensitivity	1 μ V for 10 dB S/N
FM Sensitivity	1 μ V for 20 dB S/N
SSB Sensitivity	0.2 μ V for 10 dB S/N
AM/FM Selectivity	5 dB at 4 kHz, 50 dB at 10 kHz
SSB Selectivity	5 dB at 2 kHz
Image Rejection	More than 50 dB
IF Rejection	More than 80 dB at 455 kHz
AGC	Change in Audio Output less than 12 dB: from 10 μ V to 0.4V
Squelch	Adjustable-Threshold less than 0.7 μ V
Audio Frequency Response	400 to 2,500 Hz
Distortion	Less than 10% at 2 Watts Output into 8 Ohms
Adjacent Channel Rejection	> 75 dB
Cross Modulation	> 50 dB
Intermediate Frequency	10.695 MHz (AM-1 st , SSB), 455 kHz (AM-2 nd)
Clarifier Range	\pm 5 kHz
Noise Blanker	IF Single Gate Type
Audio Output Power	More than 3 Watts into 8 Ohms
Built-In Speaker	8 Ohms
External Speaker (Optional)	Disables Internal Speaker when connected

* Specifications subject to change without notice.

1.1 INTRODUCTION

Thank you for your confidence in selecting the RCI-2980 Amateur Base Station two-way radio. We know you'll find your transceiver as exciting as it is practical. Many years of valuable experience designing electronic products are behind our two-way communications systems. Only the highest quality components are incorporated into Base Station radios to assure reliability and maximum performance.

Installing and operating the Base Station radio is not complicated, but the flexibility provided by its numerous operating features may not be fully appreciated until a little time is spent becoming familiar with its controls and connections. It will be to your advantage to save all the packing materials: cartons, fillers, cushioning, etc., they will prove valuable in preventing damage should you ever have occasion to transport or ship your Base Station radio to the Dealer.

2.1 INSTALLATION

2.1.2 Location and Connection

The transceiver should be placed in a convenient operating location close to an AC power outlet and the antenna cable.

The transceiver is attached with the AC power cord set. Proceed as follows to complete all necessary connections to the transceiver.

(1) Your transceiver has a standard antenna connector of type SO-239 located on the rear panel; for easy connection to standard PL-259 coax plugs. If the coax antenna cable must be made longer, use coax cable with impedance of 50 Ohms and use only enough cable to suit your needs. This will insure a proper impedance match and maximum power transfer from the transmitter to the antenna.

(2) **AC POWER OPERATION:** Use 110 volts AC power for the base station. (220 volt option available. Consult your dealer.)