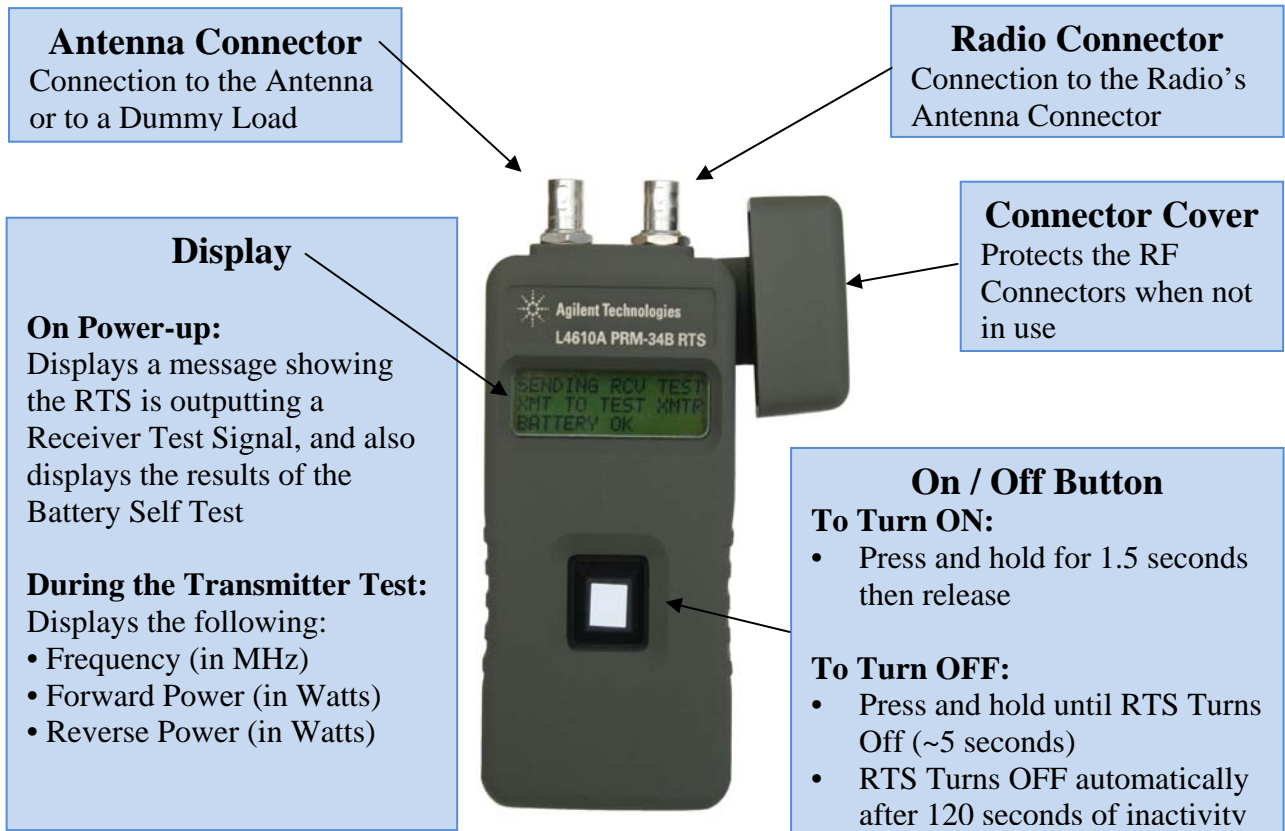




L4610A PRM-34B Radio Test Set Users Guide

The PRM-34B is simple to use and quickly performs the required Operational Checks to insure a radio is fully operational. This guide will help you identify the different components of the Radio Test Set (RTS), provide a brief description of the operating features, and provide step-by-step instructions on how to test a SINCGARS radio.

L4610A PRM-34 Identification



L4610A Modes of Operation

• ON / OFF Modes *

ON Press and hold the ON/OFF button for 1.5 seconds, to turn the RTS ON.

OFF Press and hold the ON/OFF button for 5 seconds until the RTS turns OFF

The RTS turns OFF automatically after 120 seconds of inactivity

**Note: The RTS powers-up in the Receiver Test Mode*

• Receiver Test Mode (Sensitivity/Squelch Measurement)

Upon Power-up, anytime a signal is not present on the Radio Connector Port, the Radio Test Set outputs a 30 to 85 MHz (@ 5 MHz Intervals) Complex FM modulated signal for the Receiver Test Mode.

• Transmitter Test Mode (Frequency, Forward Power, and Reverse Power Measurements)

When a signal of 0.05 Watts or higher is detected, the RTS automatically switches to the Transmitter Test Mode and displays Frequency, Forward Power and Reverse Power Measurements.



L4610A PRM-34B Radio Test Instructions

The following table provides step-by-step user instructions on how to perform the Receiver and Transmitter Operation Checks of the SINCGARS Radio Tests. These tests are simple to perform, and shows how easily and quickly a radio can be tested.

Testing a SINCGARS Radio with the PRM-34B Radio Test Set		
Step	Instructions	Results
1	<p>Connect the Radio to the PRM-34B Radio Test Set</p> <ul style="list-style-type: none"> • Connect the supplied BNC cable from the Radio's ANT connector to the RTS's Radio connector. • Connect a RF Cable from the RTS's ANTENNA connector to a dummy load. 	N/A
2	<p>Setup the Radio's test conditions</p> <ul style="list-style-type: none"> • Set the Radio for the following setup: <ul style="list-style-type: none"> - Single Channel Mode (MODE to SC) - Squelch ON (FCTN to SQ ON) - Push to Talk (COMSEC to PT) - RF Power to Hi (RF PWR to HI) - Set Channel to 54000 	N/A
3	<p>Perform the Receiver Checks (Sensitivity / Squelch Measurements)</p> <ul style="list-style-type: none"> • Turn the PRM-34B Radio Test Set ON <p><i>Note: The RTS automatically powers up in the Receiver test mode and outputs the RF Signal for the Receiver Tests.</i></p>	Test Tone should be heard in Handset
4	<p>Perform Transmitter Checks (Frequency, Forward Power, and Reverse Power)</p> <ul style="list-style-type: none"> • Press the Headset's Push To Talk (PTT) Switch : <p><i>Note: The PRM-34B detects the Radio's output signal, automatically switches to the Transmitter test mode, and displays the measurement results.</i></p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>FREQ 54.001 MHz FWD 2.62 WATTS RVS 0.87 WATTS</p> </div> <p><i>PRM-34B Display Example</i></p>	<p>Frequency 53998 to 54002 MHz</p> <p>FWD PWR 2.5 Watts Minimum</p>
End	Tests are Complete	



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