

Wireless

3920 Series EIA/TIA-603 Land Mobile Radio Test Software 390XOPT603

AEROFLEX
A passion for performance.



Validate radios faster than ever with ease.

This application is self contained within the 3920 Digital radio Test Set and automatically performs the test functions as prescribed by the EIA/TIA-603 standards for testing any FM Land Mobile Radio.

Configure up to 30 channels with independent test customization for each channel.

Test High/Low or Both power level settings on any channel with support for a PTT line to auto-key/de-key the transmitter.

Test Options:

- Complete Test
- Single Test

Test all selected channels or perform tests on a single channel to re-check a failed channel.

Supports re-test, accept failure or abort on any failed test.

Supports store and recall for test configurations and test results.

Network or local printer support allows for an immediate hard copy to be obtained.



Test Selection Display

Test options include:

TX Tests

- Frequency
- Power
- CTCSS
- Microphone Sensitivity
- Modulation Limiting
- Audio Distortion
- Audio Frequency Response
- FM Hum and Noise

RX Tests

- Audio Distortion
- Audio Sensitivity
- Audio Frequency Response
- Usable Sensitivity
- Displacement Bandwidth
- Audio Squelch Sensitivity
- Audio Squelch Blocking
- Hum and Noise

Specification	Description	Units	Lower Limit	Upper Limit
				2.000000
Rx audio sensitivity deviation		kHz		
Tx output low power		Watts	1.000000	1.100000
Tx output high power		Watts	2.800000	3.600000
Tx frequency error		ppm	-1.500000	1.500000
Tx CT/DCSS deviation		kHz	0.500000	1.000000
Tx CT/DCSS frequency error		%	-0.300000	0.300000
Tx microphone sensitivity		mV/mas	9.000000	15.000000
Tx mic sensitivity dev (set and meas)		kHz	2.900000	3.100000
Tx modulation limiting		kHz	3.000000	5.000000
Tx audio distortion		%		3.000000
Tx audio response delta from 6 dB/oct		dB	-3.000000	1.000000
Tx audio response roll <0.5 kHz		dB/Oct		6.000000
Tx audio response roll >2.5 kHz		dB/Oct		6.000000
Tx audio response roll >2.3 for 896-940M		dB/Oct		12.000000
Tx audio response roll >2.7 for 896-940M		dB/Oct		12.000000
Tx hum and noise		dB		-39.000000

Specification Entry Display

The operator interface allows easy entry of pass/fail parameters in user selectable units. Specifications may be stored on the 3920's internal hard drive for specific radio models or customer configurations. Stored configurations can be quickly recalled to test a group of new radios.

Automation is only valuable if it is based on accurate measurements. The 3920 offers unsurpassed measurement accuracy for all of the primary alignments of Power, Frequency and Deviation. This will ensure that the radio has been optimized and will operate at peak performance.

Requirements:

3901, 3902 or 3920 with 390XOPT59

CHINA Beijing

Tel: [+86] (10) 6539 1166
Fax: [+86] (10) 6539 1778

CHINA Shanghai

Tel: [+86] (21) 5109 5128
Fax: [+86] (21) 5150 6112

FINLAND

Tel: [+358] (9) 2709 5541
Fax: [+358] (9) 804 2441

FRANCE

Tel: [+33] 1 60 79 96 00
Fax: [+33] 1 60 77 69 22

GERMANY

Tel: [+49] 8131 2926-0
Fax: [+49] 8131 2926-130

HONG KONG

Tel: [+852] 2832 7988
Fax: [+852] 2834 5364

INDIA

Tel: [+91] (0) 80 4115 4501
Fax: [+91] (0) 80 4115 4502

JAPAN

Tel: [+81] 3 3500 5591
Fax: [+81] 3 3500 5592

KOREA

Tel: [+82] (2) 3424 2719
Fax: [+82] (2) 3424 8620

SCANDINAVIA

Tel: [+45] 9614 0045
Fax: [+45] 9614 0047

SPAIN

Tel: [+34] (91) 640 11 34
Fax: [+34] (91) 640 06 40

UK Cambridge

Tel: [+44] (0) 1763 262277
Fax: [+44] (0) 1763 285353

UK Stevenage

Tel: [+44] (0) 1438 742200
Fax: [+44] (0) 1438 727601
Freephone: 0800 282388

USA

Tel: [+1] (316) 522 4981
Fax: [+1] (316) 522 1360
Toll Free: 800 835 2352



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www.aeroflex.com
info-test@eroflex.com



Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.