

TMC SPECIFICATION

NO. S *S 894*

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SHEET

1

OF

7

TITLE:

Typed by mtp 11/5/64

TEST PROCEDURE FOR RTPA

PROGRAMMER SWITCH S1003

TMC SPECIFICATION

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SHEET 2 OF 7

TITLE: TEST PROCEDURE FOR RTPA - PROGRAMMER SWITCH S1003

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A. EQUIPMENT REQUIRED

1. Test Set
2. VOM Simpson Model 260 or equivalent.

B. PRELIMINARY

1. This test procedure is designed to test the accuracy of the wiring, and operation of switches and indicator lights.
2. Prior to using the test set, inspect the switch assembly for mechanical imperfections such as cold solder joints, bent switch terminals and contact springs.
3. Test for shorts with the ohmmeter.
4. Connect the test set to the programmer switch, matching color coded wires of the test set to the color coded wires on the programmer switch. The test set wires are terminated with alligator clips to facilitate this step.
5. Ensure that all the push buttons are in the released position, then connect the test set to the a-c line.
6. Turn on the test set power and observe that the test set POWER ON indicator lights and the indicating fuse holders do not light.

C. PROGRAMMER SWITCH TESTS

Test 1: Depress the "1" button in Seven Button IFBW row.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamp No. 2 is lit.

Test 2: Depress the "6" button in the IFBW row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamp No. 3 is lit.

Test 3: Depress the "15" button in the IFBW row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamp No. 4 is lit.

Test 4: Depress the 3.5U button in the IFBW row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that the Test Set indicator lamp No. 2 & lamp No. 5 are lit.

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C. PROGRAMMER SWITCH TESTS - Cont'd

Test 5: Depress the 3.5L button in the IFBW row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that the Test Set indicator lamps No. 2 & 3 are lit.

Test 6: Depress the 7.5U button in the IFBW row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that the Test Set indicator lamps No. 3 & 4 are lit.

Test 7: Depress the 7.5L button in the IFBW row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamps No. 2, 4, & 5 are lit.

Test 8: Depress the AM button in DET row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamp No. 2 is lit.

Test 9: Depress the CW button in the DET row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that the Test Set indicator lamp No. 3 is lit.

Test 10: Depress the SSB button in the DET row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that the Test Set indicator lamp No. 4 is lit.

Test 11: Depress the "0" button in the kilocycles/RF Gain row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that the Test Set indicator lamp No. 2 is lit.

Test 12: Depress the "1" button in the Kilocycles/RF Gain row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that the Test Set indicator lamp No. 3 is lit.

Test 13: Depress the "2" button in the Kilocycles/RF Gain row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that the Test Set indicator lamp No. 4 is lit.

Test 14: Depress the "3" button in the Kilocycles/RF Gain row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that the Test Set indicator lamps No. 2 & 5 are lit.

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C. PROGRAMMER SWITCH TESTS - Cont'd

Test 15: Depress the "4" button in the Kilocycles/RF Gain row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that the Test Set indicator lamps No. 2 & 3 are lit.

Test 16: Depress the "5" button in the Kilocycles/RF Gain row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that the Test Set indicator lamps No. 3 & 4 are lit.

Test 17: Depress the "6" button in the Kilocycles/RF Gain row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that the Test Set indicator lamps No. 2, 4, & 5 are lit.

Test 18: Depress the "7" button in the Kilocycles/RF Gain row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that the Test Set indicator lamps No. 2, 3, & 5 are lit.

Test 19: Depress the "8" button in the Kilocycles/RF Gain row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that the Test Set indicator lamps No. 2, 3, and 4 are lit.

Test 20: Depress the "9" button in the Kilocycles/RF Gain row.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamps No. 3, 4, & 5 are lit.

Test 21: Depress the "10" button in the Kilocycles/RF Gain row.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamps No. 4 & 5 are lit.

Test 22: Depress the AGC button in the Kilocycles/RF Gain row.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamp No. 5 is lit.

Test 23: Depress the AFC ON button.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamp No. 2 is lit.

Test 24: Depress the AFC OFF button.

Observe that all lamps in the FUNCTION row are lit.
Observe that the Test Set indicator lamp No. 4 is lit.

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C. PROGRAMMER SWITCH TESTS - Cont'd

Test 25: Depress the 17 MC 2 button in the Megacycle row.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamps No. 2 & 5 are lit.

Test 26: Depress the 18 MC 3 button in the Megacycles row.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamp No. 2 is lit.

Test 27: Depress the 19 MC 3 button in the Megacycles row.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamps No. 3 is lit.

Test 28: Depress the 20 MC 5 button in the Megacycles row.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamps No. 2 & 3 are lit.

Test 29: Depress the 21 MC 6 button in the Megacycles row.

Observe that all lamps in the FUNCTION row are lit.
Observe that the Test Set indicator lamps No. 2 & 4 are lit.

Test 30: Depress the 22 MC 7 button in the Megacycles row.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamps No. 2, 3, & 4 are lit.

Test 31: Depress the 23 MC 8 button in the Megacycles row.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamps No. 2, 3 & 5 are lit.

Test 32: Depress the 24 MC 9 button in the Megacycles row.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamps No. 2, 3, 4 & 5 are lit.

Test 33: Depress the 25 MC 10 button in the Megacycles row.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamps No. 3 & 4 are lit.

Test 34: Depress the 26 MC 11 button in the Megacycles row.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamps No. 3, 4 & 5 are lit.

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C. PROGRAMMER SWITCH TESTS - Cont'd

Test 35: Depress the 27 MC 12 button in the Megacycles row.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamps No. 2, 4 & 5 are lit.

Test 36: Depress the 28 MC 13 button in the Megacycles row.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamps No. 4 & 5 are lit.

Test 37: Depress the 29 MC 14 button in the Megacycles row.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamps No. 3 & 5 are lit.

Test 38: Depress the 30 MC 15 button in the Megacycles row.

Observe that all lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamp No. 5 is lit.

Test 39: Depress the 31 MC 16 button in the Megacycles row.

Observe that all the lamps in the FUNCTION row are lit.
Observe that Test Set indicator lamp No. 4 is lit.

Test 40: Depress the MC2-6 button in the FUNCTION row.

Observe that all lamps in the FUNCTION row are extinguished, and that all lamps in the MEGACYCLES row are lit.
Observe that the Test Set indicator lamps No. 1, 2 & 5 are lit.

Test 41: Depress the MC 17-31 button in the FUNCTION row.

Observe that all lamps in the Megacycles row are lit.
Observe that Test Set indicator lamps No. 1 & 5 are lit.

Test 42: Depress the 100 KC button in the FUNCTION row.

Observe that all lamps in the Megacycles row are extinguished and that lamp 0 to 9 in the Kilocycles/RF Gain row are lit.
Observe that Test Set indicator lamps No. 1, 4 & 5 are lit.

Test 43: Depress the 10KC button in the FUNCTION row.

Observe that lamps 0 to 9 in the Kilocycles/RF Gain row are lit.
Observe that Test Set indicator lamps No. 1 & 4 are lit.

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C. PROGRAMMER SWITCH TESTS - Cont'd

Test 44: Depress the 1 KC button in the FUNCTION row.

Observe that lamps 0 to 9 in the Kilocycles/RF Gain row are lit.
Observe that the Test Set indicator lamps No. 1, 3, 4 & 5 are lit.

Test 45: Depress the .1 KC button in the FUNCTION row.

Observe that lamps 0 to 9 in the Kilocycles/RF Gain row are lit.
Observe that Test Set indicator lamps No. 1, 3 & 5 are lit.

Test 46: Depress the CH A IFBW button in the FUNCTION row.

Observe that lamps 0 to 9 in the Kilocycles/RF Gain row are extinguished and that all the lamps in the IFBW row are lit.
Observe that Test Set indicator lamps No. 1,2,3,4 & 5 are lit.

Test 47: Depress the CH A DET button in the FUNCTION row.

Observe that all lamps in the IFBW row are lit.
Observe that the Test Set indicator lamps No. 1,2,4 & 5 are lit.

Test 48: Depress the CH B IFBW button in the FUNCTION row.

Observe that all the lamps in the IFBW row are lit.
Observe that Test Set indicator lamps No. 1, 3 & 4 are lit.

Test 49: Depress the CH B DET button in the FUNCTION row.

Observe that all lamps in the IFBW row are lit.
Observe that Test Set indicator lamps No. 1,2,3 & 4 are lit.

Test 50: Depress the AFC button in the FUNCTION row.

Observe that lamps in the IFBW row are extinguished and that lamps in the AFC ON and OFF buttons are lit.
Observe that the Test Set indicator lamps No. 1,2 & 3 are lit.

Test 51: Depress the RF GAIN button in the FUNCTION row.

Observe that the lamps in the AFC ON and OFF button are extinguished, and that all lamps in the Kilocycles/RF Gain row are lit.

Test 52: Depress the TUNE button.

Observe that all lamps in the Kilocycles/RF Gain row are extinguished.
Observe that Test Set indicator lamp No. 1 is lit.

