

TMC SPECIFICATION

NO. S 1140

REV:

0 A

COMPILED: WML

CHECKED:

W. M. Lane

APPD:

J. E. Eaton

SHEET 1 OF 6

TITLE:

typed by vita

4/20/67

TEST PROCEDURE

FOR

LSCA/LRCA

TMC SPECIFICATION

NO. S 1140

REV:

ø A

COMPILED:

CHECKED:

APPD:

SHEET 2

OF 6

TITLE:

TEST PROCEDURE FOR THE LSCA/LRCA

typed by vita

4/20/67

I. TEST EQUIPMENT

1. Multimeter - Simpson Model 260 or equivalent.
2. LSCA/LRCA Test Jig.

II. PRELIMINARY

1. Inspect the unit for mechanical imperfections such as loose hardware, broken printed circuit boards, cold solder joints, missing relays, etc.
2. Set all power switches to OFF position. Connect unit to be tested to test jig.

A. LSCA

Remove the connector from J103 on the unit in the test jig, and connect it to J103 on the LSCA to be tested. Set the LOCAL/REMOTE switch, to the remote position on the test jig.

B. LRCA

Remove the connector from J102 on the unit in the test jig, and connect it to J102 on the LRCA to be tested. Set the LOCAL/REMOTE switch on the unit to be tested to the REMOTE position.

NOTE: It is NOT advisable to test both the LSCA and LRCA simultaneously. This will require isolating improper operation to one or the other of the units which in turn will require more troubleshooting time.

- C. Connect the a-c power to the unit under test with the a-c cord in the rear of the test jig. The a-c power switch on the front of the test set will control the a-c power to the unit under test.

III. PROCEDURE

1. The unit under test is substituted for the corresponding unit in the test set. All voltage measurements and read-back indications will be on the unit which is connect externally

TMC SPECIFICATION

NO. S 1140

REV: 0 A

COMPILED: WML

CHECKED:

APPD:

SHEET 4 OF 6

TITLE: TEST PROCEDURED FOR THE LSCA/LRCA

typed by vita 4/20/67

- C. Press the tune button when each channel position is selected and observe the positions of the channel position indicator on the test jig.

BIT REGISTER INDICATIONS

<u>FUNCTIONS</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
TUNE POSITION NO. 1	OFF	ON	ON	ON	OFF
2	ON	OFF	ON	ON	OFF
3	ON	ON	OFF	ON	OFF
4	OFF	ON	ON	OFF	OFF
5	OFF	OFF	ON	ON	OFF
6	ON	OFF	OFF	ON	OFF
7	OFF	ON	OFF	OFF	OFF
8	OFF	OFF	ON	OFF	OFF

5. With the main power "ON" press the OVERLOAD switch on the test set. The OVERLOAD indicator on the LSCA will light.
6. The "TUNE" button is used to position the channel selector indicator on the test set to the corresponding position on the channel indicator on the LSCA. Turn the channel select knob to Position 7; press the TUNE button. The channel selector indicator will turn to Position 7. With the TUNE button depressed the CARRIER INSERTION Lamp "A" will extinguish and Lamp "B" will light. While rotating the channel select switch in a counterclockwise direction (from Position 8 to Position 1), check all positions on the channel select switch by momentarily pressing the TUNE button between each selected position.
7. * Set the potentiometer (R8) on the A4447 in the LRCA for a 60-second time delay. First press the reset button on the LSCA. To start the time delay sequence momentarily press the overload button on the test jig, 60-seconds later the

TMC SPECIFICATION

NO. S 1140

REV:

0 A

COMPILED:

WML

CHECKED:

APPD:

SHEET 5

OF 6

TITLE:

TEST PROCEDURE FOR THE LSCA/LRCA

typed by vita 4/20/67

fault light on the LSCA will light. To reset the time delay circuit press the RESET button. With the fault lamp on press the Tune button, the fault lamp will extinguish. When the fault lamp on the LSCA is lit, Indicators "A" under Servo Tune will light. When the fault lamp is out, Indicators "B" will light.

*NOTE: ADJUST R8 WHEN TESTING THE LRCA.

8. With the H. V. and MAIN POWER off, set the LOCAL/REMOTE switch to the LOCAL position. The H. V., on air and the MAIN POWER indicators will light.
9. When the LOCAL/REMOTE switch is returned to the REMOTE position the "High Voltage" and the "ON AIR" indicators will extinguish and the ready Indicator will Light.

TMC SPECIFICATION

NO. S 1140

REV:

Ø A

COMPILED:

WML

CHECKED:

APPD:

SHEET

6

OF 6

TITLE:

TEST PROCEDURE FOR THE LSQA/LRCA

typed by vita

4/20/67

TEST DATA SHEET

MFG. NUMBER: _____

TMC MODEL NO.: _____

1. Visual Inspection		_____	OK
2. Voltage Measurements:	TP1	_____	OK
	TP2	_____	OK
3. Main Power		_____	OK
4. High Voltage		_____	OK
5. ON AIR		_____	OK
6. READY		_____	OK
7. OVERLOAD		_____	OK
8. FAULT		_____	OK
9. RESET		_____	OK
10. Channel Tune		_____	OK
11. Servo Tune		_____	OK
12. Carrier Insertion		_____	OK

DATE: _____

TESTER: _____

