TM	C SPECIFICATION	N	NO. S 1140
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typed by vita	4/20/67		

TEST PROCEDURE

FOR

LSCA/LRCA

TM	NO. S 1140								
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#### I. TEST EQUIPMENT

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

## II. PRELIMINARY

- 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 <u>NOT</u> 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 trouble-shooting 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

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with the test jig.

- 2. Turn on the a-c power switch of the unit under test, and the units in the test jig. Measure +34V to +42V at TP2 and +60Vto +66V at TP1 on the front of the test set panel. Record readings on Test Data Sheet.
- 3. Press the reset button on the LSCA, and then press all of the other function buttons labelled "OFF". Press the main power "ON" button on the LSCA. The main power indicator will light. With the main power ON, press the "H.V. ON" button. The H.V. indicator and the "ON AIR" indicator will light. Then the H.V. is turned OFF, the H.V. indicator and the "ON AIR" indicator will extinguish, and the READY indicator will light.
- 4. A. The following chart may be used to determine if the correct code is being fed from the LSCA to the LRCA.

  The BIT REGISTER indicators on the test jig will extinguish when the bit for that lamp is energized.

  Disregard, Bit No. 5; it is used only for testing the equipment select panel. The function buttons must be depressed while reading the bit register indicators.

В.		BIT R	EGIST	ER IN	DICAT	IONS
	FUNCTION	1_	2	_3_	4	_5_
	MAIN POWER ON	ON	OFF	OFF	OFF	OFF
	MAIN POWER OFF	ON	OFF	ON	OFF	OFF
	H.V. ON	OFF	OFF	OFF	ON	OFF
	H.V. OFF	OFF	ON	OFF	ON	OFF
-	RESET	OFF	OFF	OFF	OFF	OFF

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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 R	BIT REGISTER INDICATIONS						
FUNCT:	IONS	1	2	3	14	_5_				
TUNE I	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

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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 RB 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 indicator, 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.

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TEST PROCED	URE FOR THE LSCA/LRCA	<del></del>		
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	TEST DA	TA SHEET		
MFG. NUMBER				
TMC MODEL N	0.:			
1.	Visual Inspection			OK.
2.		, ma		
	vorvage measurements	TP1		OK OK
3.	Main Power			OK
4.	High Voltage			OK
5.	ON AIR		<del></del>	OK
6.	READY			OK
7.	OVERLOAD			
8.	FAULT		****	ок
				OK
9.	RESET			OK
10.	Channel Tune			OK
11.	Servo Tune			ок
12.	Carrier Insertion			ОК
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