TMC SPECIFICATION			NO. S 954
REV: 0 A			
COMPILED: RRH	CHECKED:	APPD:	SHEET COVER OF 4
TITLE:			

Typed by mtp 5/7/65

TEST PROCEDURE

for

BSP-6B

TMC SPECIFICATION			NO. S 954
REV: 0 A			
COMPILED: RRH	CHECKED:	APPD:	SHEET 1 OF 4
TITLE: TEST PROCEDURE FOR BSP-6B			

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A. TEST EQUIPMENT REQUIRED

1. Audio Signal Generator - Hewlett-Packard Model 200CD or equivalent.
2. Distortion Meter - Barker-Williamson Model 410 or equivalent.
3. Ballantine Model 314 A-C Voltmeter.
4. One 47 ohm 1 watt 5% resistor (dummy load).
5. Multimeter - Simpson

B. PRELIMINARY

1. Inspect unit for obvious mechanical defects. Record on Test Data Sheet.
2. Continuity Test (refer to CK962):

a. J101 -

With Multimeter , check for 50K reading across pins indicated with Receiver A set at channels indicated.

Channel	J101 Pins
B2	D and C
B1	F and E
A2	H and J
A1	B and A

b. J102 -

Same as for J101 except with Receiver B switch.

3. With power on, measure DC voltage between pins 1 and 2 of J3 (DC Supply Voltage). Record on test data sheet.
4. Measure voltage between pins 7 and 6 of J3 (Q5 voltage). Q5 voltage should be 1/2 of DC Supply voltage. If not, change R9 to produce this condition. Record on test data sheet.

C. PROCEDURE

1. Turn all gain controls fully counter-clockwise.
2. Disconnect speaker from equipment under test.
3. Connect Dummy Load across leads removed from speaker (BLACK and GREEN).
4. Connect Signal Generator to terminals 1 and 3 of terminal board TB1, (terminal 1 is ground, 3 is input).

C. PROCEDURE - Cont'd

5. Connect distortion meter to TB1, observing polarity as in 4, above.

6. Set distortion meter controls as follows:

DISTORTION FREQUENCY	to VOLTS
RANGE	to 0 VOLTS

7. Adjust Signal Generator for 1000 cps and a -6 dbm, or .4V indication on distortion meter.

8. Disconnect distortion meter from TB1 and connect to dummy load, insuring that "hi-side" is to GREEN lead and ground to BLACK lead.

9. Turn RANGE switch to 10 volts.

10. Adjust volume control of BSP for a 6.7-volt indication on distortion meter. Record on Test Data Sheet.

11. Turn DISTORTION FREQUENCY switch to 200 to 2K position.

12. Turn RANGE switch to 100%.

13. Adjust FREQUENCY and AMPLITUDE COARSE controls for a dip.

14. Turn RANGE switch to 30%.

15. Repeat Step 13 above.

16. Turn RANGE switch to 10%.

17. Adjust FREQUENCY and AMPLITUDE fine controls for a dip.

18. Turn RANGE switch to 3%.

19. Repeat Step 17 above.

20. Turn RANGE switch to -10 CAL.

21. Adjust CALIBRATE control for 10V on 10V scale.

22. Return RANGE switch to 3%.

23. Adjust FREQUENCY and AMPLITUDE fine controls again for a dip. Record distortion as indicated on meter on Test Data Sheet. Must be less than 2%.

24. Return DISTORTION FREQUENCY switch to VOLTS position.

25. Set RANGE switch on distortion meter to 10-volt position.

C. PROCEDURE - Cont'd

26. Set Signal Generator on 7000 cps. Output should not drop to less than 4.8 volts from the reading of 6.7 volts at 1000 cps. Record on Test Data Sheet.

27. Set Signal Generator at 200 cps. Output should be at least 4.8 volts. Record on Test Data Sheet.

28. Disconnect distortion meter leads from dummy load. Connect Ballantine Model 314 across dummy load.

29. Remove signal generator input. Observe hum level by turning range knob on Ballantine meter to successively lower scale until a reading is observed. Must be at least -40 db. Record on Test Data Sheet.

30. Replace speaker leads for LS101 and LS102.

THE TECHNICAL MATERIEL CORP.
700 FENIMORE RD.
MAMARONECK, N.Y.

TEST DATA SHEET

for

BSP-6B

SERIAL NO.:_____

MFG. NO.:_____

		Rec. A	Rec. B
B.1	MECHANICAL	_____	_____
B.2	CONTINUITY	_____	_____
B.3	DC SUPPLY VOLTAGE	_____	_____
B.4	Q5 VOLTAGE	_____	_____
C.10	OUTPUT AT 1000 CPS AT LEAST 6.7 VOLTS (1 WATT)	_____ VOLTS	_____ VOLTS
C.23	DISTORTION AT 1000 CPS AND 1 WATT OUTPUT (MUST BE 2% OR LESS)	_____ %	_____ %
C.26	OUTPUT AT 7000 CPS (AT LEAST 4.8V).	_____ VOLTS	_____ VOLTS
C.27	OUTPUT AT 200 CPS (AT LEAST 4.8 VOLTS)	_____ VOLTS	_____ VOLTS
C.29	HUM LEVEL AT 1 WATT OUTPUT (AT LEAST -40 DB).	_____ db	_____ db

DATE:_____

TESTER:_____

REVISION SHEET

THE TECHNICAL MATERIEL CORP.
MAMARONECK NEW YORK

S-954 0
LIST NO.

DATE	REV.	SHEET	EMN #	DESCRIPTION	APP.
5/10/65		1 of 4		O=ORIGINAL RELEASE FOR PRODUCTION.	
9/28/65	A	A11	14892	Revised per EMN	LS