TMC SPECIFICATION

NO. S 933

REV: 0 A

COMPILED: MMM | CHECKED: | APPD: RR | SHEET COVER OF

TITLE:

Typed by ss. 3/3/65

TEST PROCEDURE
for
BSP-1D, 2D & 3D

TMC SPECIFICATION

NO. S 933

REV: A

COMPILED: | CHECKED: | APPD: | SHEET 1 OF 3

TITLE: TEST PROCEDURE FOR BSP-1D, 2D, and 3D

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 or equivalent.
4. One 47 ohm 1 watt 5% resistor (dummy load).
5. Multimeter - Simpson or equivalent.

B. PRELIMINARY

1. Inspect unit for obvious mechanical defects. Record on Test Data Sheet.
2. With power turned on each amplifier, measure D.C. voltage between pins 1 and 2 of J3 (DC Supply Voltage). Record on Test Data Sheet.
3. Measure D.C. voltage between pins 7 and 6 of J3 (Q5 voltage). This voltage should be 1/2 of D.C. Supply Voltage. If not, R9 should be changed to produce this condition. Record voltage 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).
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 VOLT
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%.

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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.

26. Set Signal Generator on 7000 cps. Output should not drop to l ss 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 Ballantin 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.

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TMC SPECIFICATION	NO. 5933
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TITLE:	

SERIAL NO. _____

THE TECHNICAL MATERIEL CORP.
700 FENIMORE RD.
MAMARONECKM N.Y.

MFG. NO. _____

AZ102 MFG. _____

TEST DATA SHEET
for
BSP-1D, 2D and 3D

AZ102 MFG. _____

		1	2
B.1	MECHANICAL	_____	_____
B.2	DC SUPPLY VOLTAGE	_____VOLTS	_____VOLTS
B.3	Q5 VOLTAGE	_____VOLTS	_____VOLTS
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 4.8 V)	_____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 -40DB)	_____db	_____db

FINAL TEST

A) CONNECT INPUT POWER (AC) AT J1 (LS101)

B) CONNECT AUDIO GENERATOR AT TB101 ON (LS101) TERMINALS 1 & 3

INSERT FROM THE AUDIO GENERATOR 1000Hz -6dbm (.4V)
ACTIVATE AC (INCR) KNOB CLOCKWISE. _____

ADJUST KNOB (INCR), VARIFY AUDIO LEVEL VARIES
FROM MINIMUM TO MAXIMUM. _____

DATE: _____

TESTER: _____

REVISION SHEET

THE TECHNICAL MATERIEL CORP.
MAMARONECK NEW YORK

S-933 0
LIST NO.

DATE	REV.	SHEET	EMN #	DESCRIPTION	APP.
3/16/65		1 of 3		O=ORIGINAL RELEASE FOR PRODUCTION.	
10/5/65	A	all	14897	Revised per EMN	