

TMC SPECIFICATION

NO. S 1064

REV:

Ø A

COMPILED: RRH

CHECKED:

APPD:

M. May
1/24/66

SHEET 1

OF 6

TITLE:

Typed by mtp 1/20/66

TEST PROCEDURE DDR-7J

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TITLE: TEST PROCEDURE FOR DDR-7J

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I. INTRODUCTION

The DDR-7J is a receiving system designed for SSB, AM and FSK reception. It is also capable of certain transmitter control functions.

II. COMPONENT PARTS

The DDR-7J consists of the following rack mounted units:

One RAK-106-2	Cabinet, Electrical Equipment
One LSP-4	Loudspeaker Panel
One GPR-90RXD	Receiver
One MSR-4	Single Sideband Converter
One CFA-1	Frequency Shift Converter
One LPP-3	Patch Panel
One AP133	Power Supply, 115VAC or AP134, 230 VAC
One AX625	Mode Selector Panel

III. TEST EQUIPMENT REQUIRED

- 1) RF Signal Generator - Measurements Model 82 or equivalent.
- 2) A-C Line Cord.
- 3) RF Cable, BNC to BNC, CA480-6 or equivalent.
- 4) Teleprinter and inter-connect cable, if available.
- 5) Receiving Antenna.
- 6) 60 MA power supply - TMC PSP-1 or equivalent.
- 7) VOM - Simpson Model 260 or equivalent.
- 8) Shorting Plug.
- 9) 600 ohm 10 watt load.

IV. PROCEDURE

- 1) Connect the A-C line cord.
- 2) Set up patches in LPP-3 per Table I.
- 3) Connect the signal generator to the ANT, 72 ohm, jack on the GPR-90. Set SSB switch to ON.

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IV. PROCEDURE - Cont'd

- 4) Set the signal generator output at 10 mc modulated by a 1000 cps tone.
- 5) Set output switch on MSR-4 to LOW position. Turn on the GPR-90 and MSR-4. The red power indicator should light on the MSR-4, and the dial lights should come on in the GPR-90.
- 6) Set controls of MSR-4 as per Table II. With the MSR-4 sideband switch in USB position, tune for audio tone on loudspeaker.
- 7) Switch to LSB position. Retune for audio tone.
- 8) Disconnect the signal generator.
- 9) Connect the 60 ma teleprinter loop terminals 1 and 2 of E1 on LPP-3 to the teleprinter.
- 10) Turn on CFA-1 (and PSP-1 if used). Red power indicators should light.
- 11) Connect the antenna to GPR-90.
- 12) Set the Channel 1 switch on the CFA to "ON", the Selector Switch to "LINE" and Channel 2 switch "OFF".
- 13) Tune GPR-90 for an intelligible teletypewriter signal, and observe normal display on CFA-1 screen.
- 14) Turn off all units and disconnect power line.
- 15) Place a 600 ohm load across the "XMT" terminals of the Power Supply and adjust R1 for 48VDC across "MIKE" terminals.

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TABLE I

LPP-3 Normal Patching

GPR-90, 4 ohms	J23,24	to	LSP-4	J19,20
GPR-90, 600 ohms	J27,28	to	CH 1 CFA-1,	J39,40
CFA-1 Load	J41,42	to	TPY LOOP	J45,46
(Normal through, no patch cord required)				

TABLE II

CONTROLS

SETTING

Bandsread	Tune to Audio
Manual/Xtal	Xtal
BFO ON/OFF	OFF
AVC ON/OFF	ON
AVC FAST/SLOW	SLOW
Audio Gain	Normal Level
Power/OFF	ON
Sideband	USB or LSB

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THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, N.Y.

DDR-7J TEST DATA SHEET

DDR-7J SERIAL NO.: _____

MFG. NO.: _____

<u>Component</u>	<u>Serial No.</u>	<u>Mfg. No.</u>
CFA-1	_____	_____
GPR-90RXD	_____	_____
MSR-4	_____	_____
LPP-3	_____	_____
LSP-4	_____	_____
RAK-106-2	_____	_____

TESTS:

- III. 4. Power on GPR-90 and MSR-4. _____
5. MSR-4 Upper Sideband _____
6. MSR-4 Lower Sideband _____
9. CFA-1 Power ON _____
12. Teletypewriter signals _____
14. DELETED _____
15. 48 VDC ADJ on AP133 or AP134 _____

TESTER: _____

DATE: _____

