

TMC SPECIFICATION

NO. S 997

REV:

COMPILED: WM

CHECKED: *FCC 7/29/65* APPD: *W. McKay 7/29/65*

ET cover OF ?

TITLE:

typed by vab 7/7/65

TEST PROCEDURE FOR THE RTDA-1

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SHEET 1

OF 7

TITLE: TEST PROCEDURE FOR THE RTDA-1

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The RTDA-1 provides three modes of programming. The Decoder (RTTD-1).

- (1) Pre-punched tape with tape reader, (2) Manually with push button and,
- (3) by extracting information stored in the memory unit (RTMU-1).

Extensive inspection of the RTDA-1 is not necessary because of previous inspection; however any noted defects or errors should be repaired before starting the test procedure.

EQUIPMENT REQUIRED:

- A. 1 - RTTD-1
- B. 1 - RTMU-1
- C. Test Set
- D. One RTP() or T.D.

The above listed equipment must be working properly together as a system before it can be used to test the RTDA-1. Connect Plug #1 on the RTDA-1 to J5001 on the RTMU-1. Connect Plug #2 on the RTDA-1 to J4004 on the RTTD-1. Connect RTTD test set as per S893.

NOTE: TURN OFF POWER ON RTMU-1 WHEN CONNECTING OR DISCONNECTING PLUGS.

Turn OFF the "DECODER READY" switch on the RTTD-1 and turn ON the "DECODER READY" switch on the RTDA-1. The Decoder Ready Lamp will light on the RTDA-1 and on the RTTD-1. Turn ON the time "DELAY OVERRIDE" switch to permit uninterrupted testing. Turn the selector knob to the "Manual Program" position. Lift the handle on the tape reader and insert the test tape.

Press the "DECODER ENENGIZE" switch. The "DECODER ENERGIZE" indicator will light and the "DECODER READY" indicator will extinguish.

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SHEET 2

OF 4

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Turn the selector switch to the "TAPE READER" position. The RTTD-1 will step the tape reader one character at a time and position the Ledex Motors to the position indicated on the tape. *When the "E" character (Bit #1) is read the decoder will de-energize and the tape reader will stop. To restart the tape reader press the "Decoder Energize" switch.

The indicators marked "BIT REGISTER" indicate from left to right Bits one through five, that are fed out of the RTDA-1 in either mode of operation.

Turn the selector knob to the "Manual Program" position. The numbered push buttons can now be used to program the Decoder. The numbers on the buttons are the same as the bit that the button will program. The Green Button is pressed to simultaneously read the selected Bits. The Red Button cancels any selected Bits without feeding the information to the Decoder. The attached chart can be used to select the proper Bits for programming the desired functions and Ledex positions.

With the selector switch in the "Manual ADV" position the information stored in the memory unit can be fed to the decoder one character at any time by pressing the "MANUAL ADV" Button.

With the selector switch in the "AUTO ADV" position the Decoder (RTTD-1) will extract the entire program from the memory unit (RTMU-1). When the "E" character is reached the Decoder will De-Energize.

The selector knob on the RTTD test set must be in the position indicated on the manual program chart which corresponds with the function being programmed, either manually or with the tape reader or memory unit.

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<u>CODE</u>	<u>FUNCTION</u>	<u>SET</u>	<u>MC</u>
1-2-5	MC-2-16	R	
2-5		↑ ↓	2
2			3
3			4
2-3			5
2-4			6
2-3-4			7
2-3-5			8*
2-3-4-5			9*
3-4			10
3-4-5			11
2-4-5			12
4-5			13
3-5			14
5			15
4	MC-2-16		
1-5	MC-17-32		
2-5			17
2			18
3			19
2-3			20
2-4			21
2-3-4			22
2-3-5	MC-17-31	R	23

K4018 in Decoder will activate on MC positions marked with an asterick.

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SHEET 5 OF

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<u>CODE</u>	<u>FUNCTION</u>	<u>SET</u>	<u>MC</u>
2-3-4-5	MC-17-31	R	24
3-4		↑	25*
3-4-5		↓	26
2-4-5		↓	27
4-5		↓	28
3-5		↓	29
5		↓	30
4	MC-17-31	R	31
1-4-5	100 KC	C	
2		↑	
3		↓	
4		↓	
2-5		↓	
2-3		↓	
3-4		↓	
2-4-5		↓	
2-3-5		↓	
2-3-4		↓	
3-4-5	100 KC	C	
1-4	10 KC	D	
2		↑	
3		↓	
4		↓	
2-5	10 KC	D	

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SHEET 6 OF 7

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2-3	10 KC	D	
3-4		↑	
2-4-5		↓	
2-3-4		↓	
3-4-5		D	
1-3-4-5	1 KC	E	
2		↑	
3		↓	
4		↓	
2-5		↓	
2-3		↓	
3-4		↓	
2-4-5		↓	
2-3-5		↓	
2-3-4		↓	
3-4-5	1 KC	E	
1-3-5	,1 KC	F	
2		↑	
3		↓	
4		↓	
2-5		↓	
2-3		↓	
3-4	,1 KC	F	

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SHEET 9 OF 9

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<u>CODE</u>	<u>FUNCTION</u>	<u>SET</u>	<u>MC</u>
1-2-3	Function #5	K	
2	↕	↕	
4	Function #5	K	
1-2-3-5	Function #6	L	
2	↕	↕	
3	↕	↕	
4	↕	↕	
2-5	↕	↕	
2-3	↕	↕	
3-4	↕	↕	
2-4-5	↕	↕	
2-3-5	↕	↕	
2-3-4	↕	↕	
3-4-5	↕	↕	
4-5	↕	↕	
5	Function #6	L	
1-2	Function #7	M	
2	↕	↕	
3	↕	↕	
4	↕	↕	
2-5	↕	↕	
2-3	↕	↕	
3-4	↕	↕	
2-4-5	Function #7	M	

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SHEET

11

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<u>CODE</u>	<u>FUNCTION</u>	<u>SET</u>	<u>MC</u>
3-4	Function #9	0	
2-4-5	↑	▲	
2-3-5			
2-3-4			
3-4-5			
4-5			
5			
1	▼	▼	
	Function #9	0	