TMC SPECIFICATION			NO. S 1241
REV:			
COMPILED: SD	CHECKED:	APPD: S.D.Marco 9/17/70	SHEET OF
TITLE:			

TEST PROCEDURE

FOR

RTPH-3,4

TMC SPECIFICATION			NO. S 1241
REV:			
COMPILED:	CHECKED:	APPD:	SHEET 1 OF 5

TITLE: TEST PROCEDURE FOR RTPH-3, 4

I. EQUIPMENT REQUIRED

A. VOM, Simpson Model 260, or equivalent.
B. Oscilloscope, Tektronic (dual trace), or equivalent.
C. Electronic Counter, Hewlett-Packard 5244, or equivalent.
D. DDRR-10()Remote Test Set
E. CK1401, 02, 03, 04, 05 and CK1406 Schematic Diagrams.
F. CH 801 Timing Chart

II. PRELIMINARY ELECTRICAL TESTS

CAUTION: Be sure AC power is removed from the RTPH-3,4.

A. Connect ohm-meter across AC input of unit. Be sure fuses F1 and F2 are in place.

B. Set AC switch S1 to ON. Continuity should exist across the AC input (approximately 4 ohms). Removing either F1 of F2, or setting S1 to OFF will break continuity.

C. Continuity should not exist between AC leads and ground. Set S1 to OFF and remove ohm-meter from unit.

D. Record preliminary Electrical Test on Test Data Sheet.

III. POWER SUPPLY VOLTAGE CHECKS

A. Insert PC-378/A-4601 into A1 and Connect AC power to unit.

B. Set S1 to ON. Power light DS1 will light. Removing either fuse will cause the power light to go out.

C. Meter the voltage levels at test points +12V and -12VDC. Voltages should be as indicated $\pm$ 1VDC. Record on Test Data Sheet.

D. Monitor TP +12 and jumper TP+12 to ground. Remove ground. Voltage level should return to +12VDC. Repeat for test point -12VDC. Record on Test Data Sheet.

E. Monitor TP +12 with the high gain scope. The ripple present on TP +12 should be no more than 20 millivolts peak to peak. Repeat for test point -12VDC. Record on Test Data Sheet.

F. Set AC power switch S1 to OFF. Connect scope probe to DC reset test point.

G. Set AC power switch S1 to ON. Level on DC reset test point should rise to approximately +7VDC and then fall and remain at approximately -6 volts. Record on Test Data Sheet.

IV. MEASURE THE FOLLOWING POINTS FOR VOLTAGES AND GROUNDS:

CONNECTOR	PIN CONNECTIONS		
	+12VDC	-12VDC	GRD
A2	20	4	1,22,A,Z
A3	20	4	1,22,A,Z
A4	20	4	1,22,A,Z

Set the AC power switch S1 to OFF.

V. PROGRAM TEST:

PC-333/A-4518

A. Insert PC-333/A-4518 into A3 and set AC power ON.

B. Monitor TP3 with the scope and observe a free runing "clock".

C. Connect frequency counter to TP8 and adjust R1 for 27.00* milliseconds (100 wpm), ±0.05 milliseconds. Set AC power OFF. Record on Test Data Sheet.

D. Insert PC-375/A-4598 into A4 and PC-290/A-4453 into A5. Set AC power ON.

E. Monitor TP3 on PC-333/A4518 with scope probe.

F. Depress any pushbutton and observe the "clock" pulses start and then stop (approximately 135 milliseconds,100 wpm)+. Set AC power OFF.

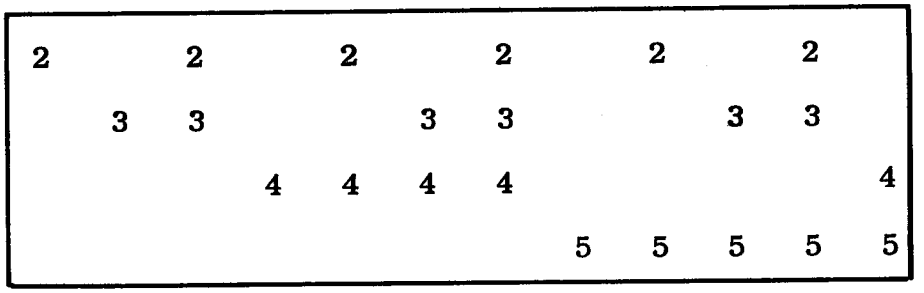
G. Insert PC-331/A-4516 into A2 and interconnect RTPH-3 (J2) to DDRR-10() Remote Test Set.

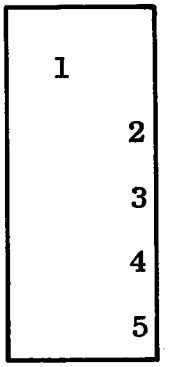
* 44.00 milliseconds (60 wpm)
\+ 220 milliseconds (60 wpm)

VI. OPERATIONAL CHECKS

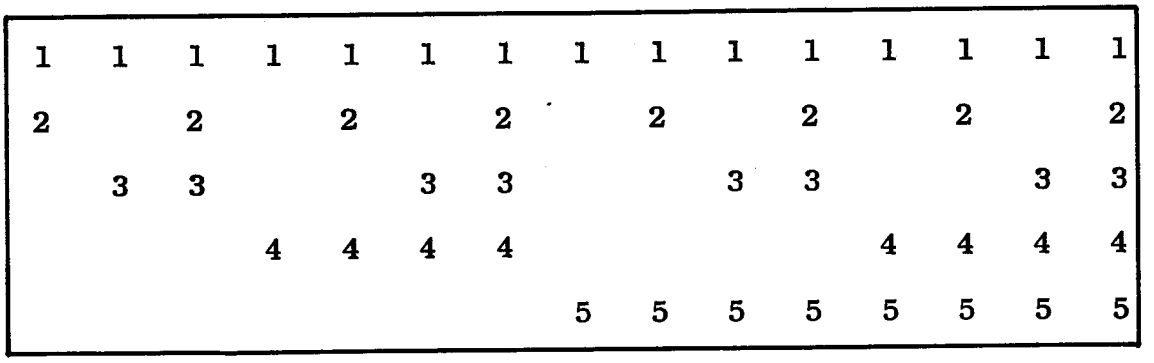
A. Depress each pushbutton in turn and observe the bit indicators on the test fixture. Reference should be made to Chart #1 for proper bit information.

TOP FRONT





FUNCTION



EQUIPMENT SELECTION

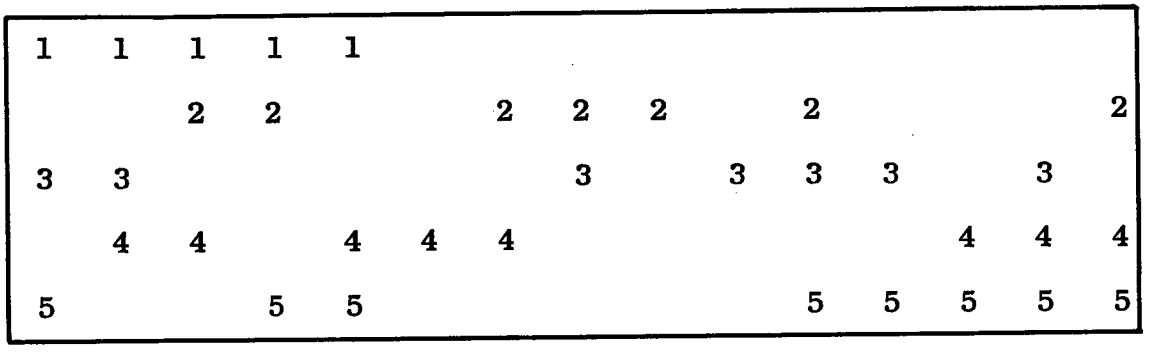


CHART #1

RTPH-3,4 TEST DATA SHEET

ACCEPT

I. Preliminary Electrical Tests _____

II. Power Supply _____

A. Voltage

1. TP +12_____VDC
2. TP -12_____VDC

B. Ripple

1. TP +12_____Millivolts
2. TP -12_____Millivolts

C. Shorting

1. TP +12_____OK
2. TP -12_____OK

D. DC Reset TP_____OK

III. PC Cards _____

A. PC-333/A-4518_____OK
B. PC-375/A-4598_____OK
C. PC-290/A-4453_____OK
D. PC-331/A-4516_____OK
E. PC-378/A-4601_____OK

IV. Clock Period Adjusted to_____milliseconds

TESTED BY:_____ DATE:_____

REVISION SHEET

THE TECHNICAL MATERIEL CORP.
MAMARONECK NEW YORK

S 1241
LIST NO.

DATE	REV.	SHEET	EMN #	DESCRIPTION	APP.
8/17/70	Ø			ORIGINAL RELEASE FOR PRODUCTION	