

DATE 7 January 1965

SHEET COVER OF

TMC SPECIFICATION NO. S-902

0

[Signature]
COMPILED

[Signature]
CHECKED

TITLE:

[Signature] 3/18/65
APPROVED

SS

RTPA -1
OPERATING
INSTRUCTIONS

DATE 7 January 1965

SHEET 1 OF 5

TMC SPECIFICATION NO. S -902

0

COMPILED

CHECKED

TITLE: RTPA OPERATING INSTRUCTIONS

APPROVED

SS

A. PRELIMINARY

1. Turn the Programmer (RTPA) power switch S1001 to ON and observe that indicator DS1001 lights.
2. Turn the Tape Reader/Punch (RTKY) power switch to ON and observe that indicator DS1002 lights, and an audible sound is heard from the RTKY.
3. Set the Selector switch S1004 to the desired mode of operation.

B. TO ENERGIZE PROGRAMMER SWITCH S1003

1. Depress Equipment Selector #1 or #2 on the RTRS Panel.
2. Observe that the lamp in the button depressed lights, indicating a receiver to be tuned has been selected and that S1003 is now energized, permitting the transmission of further tuning instructions.

C. MANUAL PROGRAM

1. With S1004 in the Manual Program position and the appropriate receiver selected, proceed as follows:
 - a. Depress the MC button of S1003 either 2-16 or 17-31, as desired. in the function row.

The appropriate code is transmitted to the receiver and all the lamps in the Megacycle row will light, indicating that one of these buttons, in accordance with the desired megacycle range must be depressed next.
 - b. Depress the desired megacycle button.

The appropriate code is transmitted to the receiver and all the lamps in the Megacycle row will extinguish and all the lamps in the Function row will light, indicating that the next function button must be depressed.

DATE 7 January 1965
SHEET 2 OF 5

TMC SPECIFICATION NO. S 902

0

COMPILED

CHECKED

TITLE: RTPA OPERATING INSTRUCTIONS

APPROVED

SS

- c. Depress the 100 KC button in the Function row.
The appropriate code is transmitted to the receiver, the lamps in the Function row are extinguished and lamps 0 to 9 in the Kilocycles/RF GAIN row light, indicating one of these buttons must be selected next.
- d. Depress the desired Kilocycle button.
The appropriate code is transmitted to the receiver. All the lamps in the Kilocycle row will be extinguished and all the lamps in the Function row light, indicating that the next function button is to be selected.
- e. Depress the 10 KC button.
The appropriate code is transmitted to the receiver and lamps 0 to 9 in the Kilocycles/ RF GAIN row light, indicating one of these buttons must be selected next.
- f. Depress the desired Kilocycle button.
The appropriate code is transmitted to the receiver, the lamps in the Kilocycle/RF GAIN row will be extinguished, all the lamps in the Function row will light indicating that the next Function button is to be selected.
- g. Depress the 1 KC button in the Function row.
The appropriate code is transmitted to the receiver, the lamps in the Function row are extinguished and lamps 0 to 9 in the Kilocycle/RF GAIN row light, indicating that one of these buttons must be selected next.
- h. Depress the desired Kilocycle/RF GAIN button.
The appropriate code is transmitted to the receiver, the lamps in the Kilocycle/RF GAIN row are extinguished, all the lamps in the Function row light, indicating that the next Function button is to be selected
- i. Depress the .1 KC button in the Function row.
The appropriate code is transmitted to the receiver, the lamps in the Function row are extinguished and lamps 0 to 9 in the Kilocycle/RF GAIN row light, indicating that one of these buttons must be selected next.
- j. Depress the desired Kilocycle/RF GAIN button.
The appropriate code is transmitted to the receiver, the lamps in Kilocycle/RF GAIN row are extinguished and all the lights in the Function row light, indicating that the next Function button is to be selected.

DATE 7 January 1965

SHEET 3 OF 5

TMC SPECIFICATION NO. S 902

0

COMPILED

CHECKED

TITLE: RTPA OPERATING INSTRUCTIONS

APPROVED

SS

- k. Depress the Channel A IFBW button in Function row.
The appropriate code is transmitted to the receiver, the lamps in the Function row are extinguished and the lamps in the IFBW row light, indicating that one of these buttons must be selected next.
- l. Depress the desired IFBW button.
The appropriate code is transmitted to the receiver, the lamps in the IFBW row are extinguished and all the lamps in the Function row light, indicating that the next Function button is to be selected.
- m. Depress the Channel A DET button in the Function row.
The appropriate code is transmitted to the receiver, the lamps in the Function row are extinguished and the lamps in the DET row light, indicating that one of these buttons is to be selected next.
- n. Depress the desired DET button.
The appropriate code is transmitted to the receiver, the lamps in the DET row are extinguished and all the lamps in the Function row light, indicating that the next function button is to be selected.
- o. If diversity reception is utilized depress the Channel A IFBW button in Function row.
The appropriate code is transmitted to the receiver, the lamps in the Function row are extinguished, and the lamps in the IFBW row light, indicating that one of these buttons must be selected next.
- p. Depress the desired IFBW button.
The appropriate code is transmitted to the receiver, the lamps in the IFBW row are extinguished, and all the lamps in the Function row light, indicating that the next function button is to be selected.
- q. Depress the Channel B DET button in the Function row.
The appropriate code is transmitted to the receiver, the lamps in the Function row are extinguished, and the lamps in the DET row light, indicating that one of these buttons is to be selected next.
- r. Depress the desired DET button.
The appropriate code is transmitted to the receiver, the lamps in the DET row are extinguished, and all the lamps in the Function row light, indicating that the next function button is to be selected.

DATE 7 January 1965
SHEET 4 OF 5

TMC SPECIFICATION NO. S -902

0

COMPILED

CHECKED

TITLE: RTPA OPERATING INSTRUCTIONS

APPROVED

SS

- s. Depress the AFC button in the Function row.
The appropriate code is transmitted to the receiver, the lamp in the Function row are extinguished, and the lamps in the AFC row light, indicating that one of these buttons is to be selected next.
- t. Depress the desired AFC button.
The appropriate code is transmitted to the receiver, the lamps in the AFC row are extinguished, and all the lamps in the Function row light, indicating that the next function button is to be selected.
- u. Depress the RF GAIN button in the Function row.
The appropriate code is transmitted to the receiver, the lamps in the Function row are extinguished, and all the lamps in the Kilocycles/RF GAIN row light, indicating that one of these buttons is to be selected next.
- v. Depress the desired Kilocycle/RF GAIN button.
The appropriate code is transmitted to the receiver, the lamps in the Kilocycle/RF GAIN row are extinguished, and all the lights in the Function row light, indicating that the last Function button is to be selected.
- w. Depress the Tune button.
The appropriate code is transmitted to the receiver, all the lights on S1003 are extinguished and switch S1003 is de-energized.

2. With S100⁴ in the Manual Program/Tape Punch position, proceed as above.

Indications are as above with the addition of the advancing of the tape in the tape punch section of the RTKY, each time a button is depressed, indicating that the tape is punched.

3. With S100⁴ in Tape Punch position, proceed as previously.

Indications are as discribed in Section 1 and Section 2, with the exception that no code is transmitted to the receiver.

4. With S100⁴ in Tape Read position preceed as follows:

1. Insert a pre-punched tape or card in the Tape Reader section of the RTKY.

The automatic advance circuit will rapidly advance the tape or card to the first character of the message, whereupon the tape will advance at a slower rate,

DATE <u>7 January 1965</u>		TMC SPECIFICATION NO. S-902	0
SHEET <u>5</u> OF <u>5</u>			
COMPILED	CHECKED	TITLE: RTPA OPERATING INSTRUCTIONS	
APPROVED		SS	

determined by the clock card installed in the equipment. The tape will continue to advance until the end of the tape or a letter E is reached. The tape reader will stop on sensing an E or coming to the end of the tape.

When the tape reader stops because of an E on the tape it is necessary to depress the Tape Read button (S1005) to advance the tape to the next message.

