

APPLICATION NOTE

Amateur Radio Division

SUBJECT: TH-G71A REMOTE CONTROLLER FUNCTIONDATE: 12/22/97

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The TH-G71A is capable of operating as a Remote Controller for the TM-733A, TM-742A, and TM-V7A.

PREPARATION AND ACTIVATING THE REMOTE CONTROL FUNCTION:

Select the desired operating frequency for the remote control function. The frequency must match the mobile transceiver. For U.S. operations you must select a UHF frequency since remote control operations are prohibited below the UHF band.

Select the desired DTSS code. The code must match the mobile transceiver. To perform this step on the TH-G7A, switch on the power while the PTT and VFO keys are depressed. Then enter the three digit code from the keypad. When all three digits are entered, the transceiver automatically returns to the normal frequency display.

To activate the remote control function, switch on the power of the TH-G71A with the PTT and MR keys depressed. The TH-G71A will display the letters "rc" on the right side of the display.

OUTPUT COMMAND STRUCTURE:

When a front panel key is pressed, the TH-G71A will send out a command to the mobile transceiver. The command is followed by another command to return the TH-G71A to standby. As an example of turning on CTCSS, the TH-G71A will send the command structure AXXX#3 A#. The XXX is the DTSS code, 3 is the CTCSS ON key command, and the A# command returns the TH-G71A to standby. All front panel keys follow this structure.

KEY COMMANDS:

Figure 1 shows the commands dedicated to each front panel key. The commands are also described below:

1. REV ON (TM-V7A). T.ALT ON (other models). Commands the mobile to turn on the Reverse function (TM-V7A) or the Tone Alert (Bell) function (other models).
2. Tone ON. Turns on the Tone function of the mobile.
3. CTCSS ON. Turns on the CTCSS function of the mobile.
4. REV OFF (TM-V7A). T.ALT OFF (other models). Turns off the Reverse or Tone Alert function of the mobile.
5. TONE OFF. Turns off the Tone function of the mobile.
6. CTCSS OFF. Turns off the CTCSS function of the mobile.
7. CALL. Places the mobile transceiver on the CALL channel.

8. VFO. Places the mobile transceiver in the VFO mode.
9. MR. Places the mobile transceiver in the Memory recall mode.
10. LOW. Reduces the mobile transceiver's output power to the LOW setting.
11. ENTER. Places the mobile into the enter mode so you can enter VFO frequencies. If you do not enter a frequency within 10 seconds, the function will cancel. After you enter the frequency, press the ENTER key one more time to send the information. This command accepts 5 digits starting from the 10MHz digit. As an example, press 46520 to enter 146.520. Any extra digits will cause the TH-G71A to send additional commands, such as changing the output power to Low.
12. TONE SEL. Allows you to change the Tone frequency of the mobile unit using a 2 digit code. If you do not enter a code within 10 seconds, the function will cancel. After you enter the code, press the TONE SEL key one more time to send the information. See Table 1 for a list of codes.
13. REP ON. Places the mobile into the Repeater Cross Band mode. This command does not work if the mobile is not modified for this function.
14. REP OFF. Turns off the mobile's Repeater Cross Band mode.
15. DOWN. Reduces the operating frequency of the mobile by one step or reduces the memory channel by one channel.
16. UP. Increase the operating frequency of the mobile by one step or increases the memory channel by one channel.

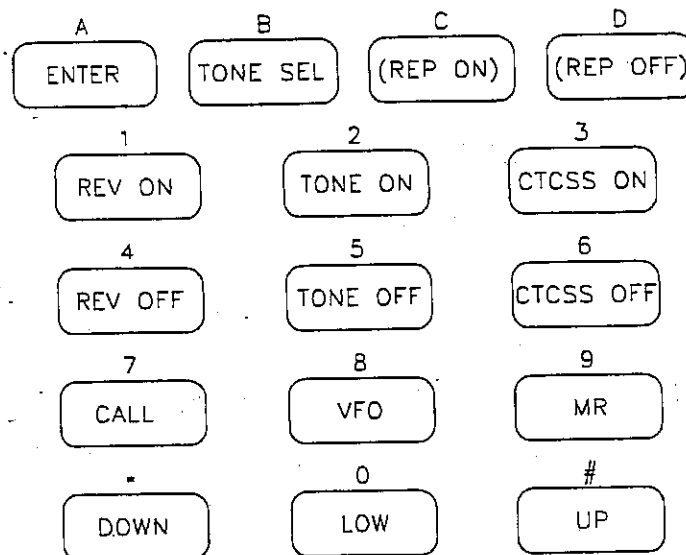


FIGURE 1

CODE	TONE	CODE	TONE	CODE	TONE	CODE	TONE
01	67.0	11	97.4	21	136.5	31	192.8
02	71.9	12	100.0	22	141.3	32	203.5
03	74.4	13	103.5	23	146.2	33	210.7
04	77.0	14	107.2	24	151.4	34	218.1
05	79.7	15	110.9	25	156.7	35	225.7
06	82.5	16	114.8	26	162.2	36	233.6
07	85.4	17	118.8	27	167.9	37	241.8
08	88.5	18	123.0	28	173.8	38	250.3
09	91.5	19	127.3	29	179.9		
10	94.8	20	131.8	30	186.2		

TABLE 1