

## **PRODUCT DESCRIPTION**

The TC-650 wired remote control is primarily designed for use with Denon professional Mini Disc Player-Recorders, however, it can also be used with Denon professional CD players. The remote has the following functions: Search, forward and reverse. Track selection, stepping forward and reverse. Standby-Cue, with tally. Pause, with tally. Play, with tally. Record, with tally. The remote control supports all control functions that are available at the parallel remote connector on Mini Disc and CD player units. A 12 ft. DB-25 male to female control cable is furnished with each TC-650 remote control.

**NOTE: CD players and Mini Disc player-recorders that can use this remote control may have machine software "PRESET" selections that can have an effect on remote control functions. These preset selections can be set so that all remote control commands can be inhibited. Other settings can disable or modify certain remote commands once the "play" command has been issued. Please consult the manual for your specific unit for the appropriate menu settings to avoid operating difficulties.**

## **INSTALLATION**

Before installation, the TC-650 may need to be configured for your particular machine. The unit ships configured for use with the Denon **DN-1050R Mini Disc unit**. If you will be using the TC-650 with an older model Mini Disc unit or CD Player, follow the directions below.

### **Mini Disc Machines other than DN-1050R**

Configuration involves moving a jumper to provide proper operation of the record tally LED. To change the jumper, first remove the 4 phillips screws on the bottom of the remote control. Gently separate the upper section from the lower section. Locate the jumper in the upper right area of the circuit card. Remove the jumper from the "A" and "B" terminals and move to the right so that it now connects between "B" and "C". This sources the record tally from pin 18 of the DB-25 connector instead of pin 21. Re-assemble the unit.

### **CD Players**

Configuration for use with Denon CD players involves disabling the record tally. To change the jumper, first remove the 4 phillips screws on the bottom of the remote control. Gently separate the upper section from the lower section. Locate the jumper in the upper right area of the circuit card. Move the jumper so that it connects between "C" and "D". This totally disconnects the record tally LED. Re-assemble the unit.

### **General Installation**

After configuration of the jumpers, with the power to the Denon unit turned off, connect the male end of the supplied DB-25 cable assembly to the remote control connector on the rear of the Denon unit to be controlled. Connect the female end to the the RC-650 remote control unit. Turn on the power to the Mini Disc or CD player. Installation is now complete. Consult your machine operators' manual for detailed instructions regarding "preset modes" and machine operation. **Note: If remote inhibit is active (INH) in the preset mode, the remote control will not function.**

## **REMOTE FUNCTION DETAILS**

Since this remote control can be used with many different models of Denon products, some functions or features may not be used. EOM (end of message) tally and Index tally is not supported by the TC-650. Certain models of Mini Disc and CD players have machine software preset menu selections. Make sure that the "Parallel Remote" preset is set to be "ENA" or enabled, not "INH", which is inhibited. Some other examples of presets that can affect remote control functions are as follows: The "*Play Lock*" preset can be set to disable certain buttons' functions once the "play" command has been issued. The "*Tally Flash*" preset decides to flash or not to flash the remote control's tally LEDs. Please consult your Mini Disc or CD player's operators' manual for a detailed description of preset menu selections and how to best program them.

Certain model Mini Disc players feature a 10 or 20 "*Hot Start*" mode that share the parallel control connector. This "*Hot Start*" mode is activated by a preset menu selection. If the "*Hot Start*" mode is activated while the remote control is connected, all the LEDs associated with the lower buttons will illuminate. If this would happen, no damage to the player or remote control will occur, however, remote control functions are not available while the machine is in the "*Hot Start*" mode.

### **TC-650 DB-25 connector**

1- Chassis Gnd.	9- nc	17- nc
2- Play function	10- nc	18- Record tally
3- Pause function	11- nc	19- Record function
4- Standby / cue function	12- nc	20- nc
5- Track > function	13- nc	21- Record tally (DN-1050R)
6- Track < function	14- Play tally	22- + 5 vdc @ 20 ma.
7- Search > function	15- Pause tally	23- Function common
8- Search < function	16- Standby / cue tally	24- nc
		25- nc