



Detachable Front Panel Car Receiver

OWNER'S MANUAL

MODEL:TCC-9310

Take time to read this OWNER'S MANUAL thoroughly. Familiarity with installation and operating procedures will help you obtain the best performance from your CAR Receiver.



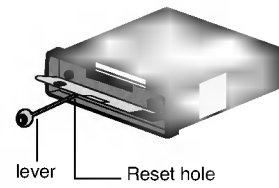
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■ Precautions:

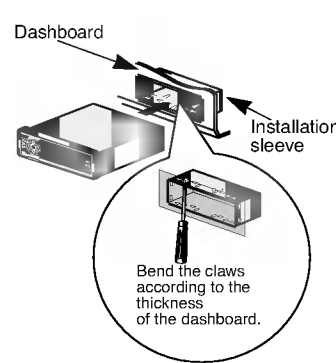
- ▶ Be careful not to touch the rear side panel of the unit when removing the unit from the installation sleeve, since it may be hot. On this side the cooling ribs are located.
- ▶ The unit is designed to operate only on 12 volt DC negative ground electrical system.
- ▶ When you replace the fuse, be sure to use a fuse of specified amperage for each wire as mentioned in chapter "Connections". Using a fuse of higher amperage may cause serious damage to the unit.

■ Reset Switch

If the event of abnormal operation, insert the Reset hole, located behind the Front Panel, with a lever or thin steel object. (short the jump wire into the Reset hole)
Operating the Reset switch will erase all control settings.



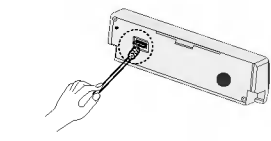
■ Mounting the unit



Notes:

- ▶ Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- ▶ Consult with your nearest car audio dealer if installation requires the drilling of holes or other modifications of the vehicle.
- ▶ Do not use the front panel as a way of gripping the unit during installation and wiring. The front panel may come away and the unit may drop on the floor.

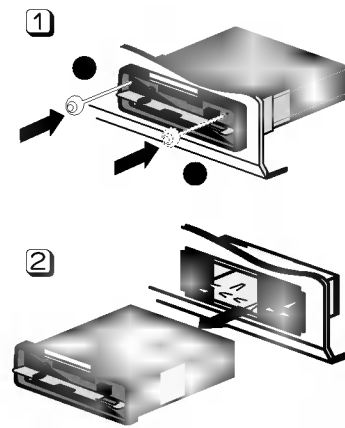
- ▶ Periodically wipe the contacts on the back of the front panel with a cotton swab moistened with alcohol.



■ When removing the unit from the installation sleeve

If you need to remove the unit from the installation sleeve, proceed as follows.

- 1 Remove the rear supporter from the unit.
- 2 Remove the front panel from the unit.
- 3 Insert the lever into hole on one side of the unit, and pull the lever toward you. Do the same operation on the other side and pull out the unit from the installation sleeve.



■ Main connector

Connect the main connector to the female connector on the back of the unit.

■ Antenna Connection

Insert the plug of the car antenna cable into the jack at the rear of the unit.

■ Ground Connection(Black)

- ▶ Connect the ground lead (black) to a metal part of the vehicle and secure it using the screw provided on the vehicle for this purpose.
- ▶ If this connection is loose, or if the cord is connected to something other than a metal part of the car, noise or malfunction may result.

■ Power Supply Lead (Red)

Connect the red power supply wire to the 12V + terminal controlled by the car ignition switch.

■ Memory Back-up Lead (Yellow)

Connect the yellow memory power supply wire to a 12V + terminal that is always supplied with power regardless of the vehicle's ignition switch position. If this connection is made incorrectly or is not made at all, the unit will not work.

■ Line Out Jacks(Optional)

Connect to the Line-in RCA jacks of the power amplifier.

■ Power Antenna Lead/External Amplifier Remote Turn-on Lead

You will find a separate lead, blue with a male terminal suitable to many automatic antenna. This lead is not to be used with non-automatic antenna. If an automatic car antenna is used, when connecting the lead, the antenna will be automatically extended when the main switch is turned on. This can also be used as a remote turn-on wire connection for amplifiers that have a remote sensing lead. Using this connection will allow simultaneous turning on/off of the radio and an external amplifier.

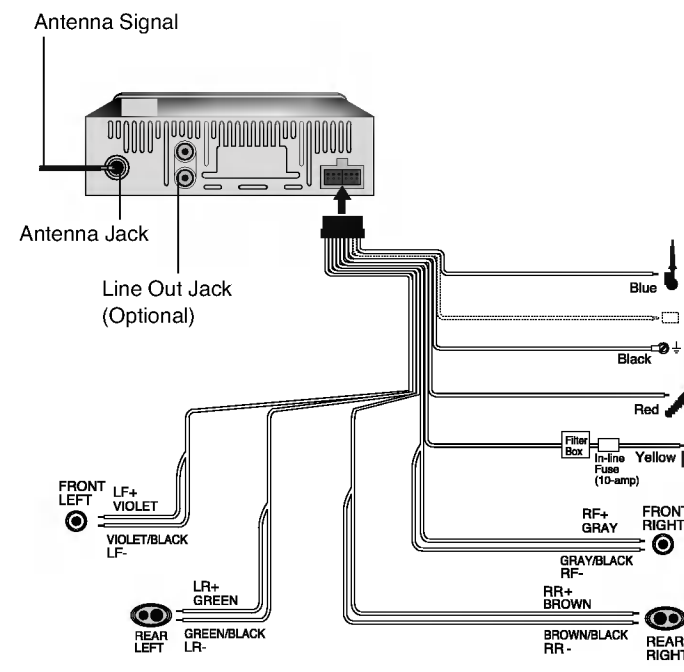
■ Precautions

- ▶ Do not bring the connecting cords near parts whose temperature will rise when the vehicle is driven.
- ▶ Secure the connectors securely so that they are locked into position. Improper connection can result in noise or hamper operation.

This car receiver is not designed to utilize the vehicle's chassis as the electrical return path from the speaker to the radio. Always use two conductor wire between each speaker and your stereo unit.

■ 4-Speakers connection

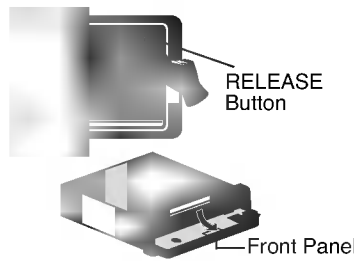
Use 4~8 Ohm impedance speakers. Refer to the following connections diagram.



The front panel of this unit can be detached to prevent theft.

■ Detaching the Front Panel

- 1 Press the RELEASE button (▲) to open the front panel.

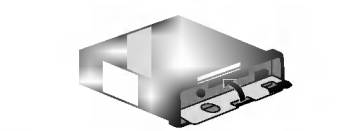


- 2 Pull the front panel toward you.

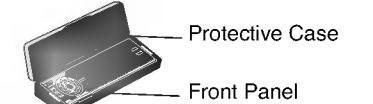


Note:
Take care not to put pressure on the display or control buttons, or drop the front panel.

- 3 Close the inner lid.



- 4 Place the Front Panel in the supplied protective case.



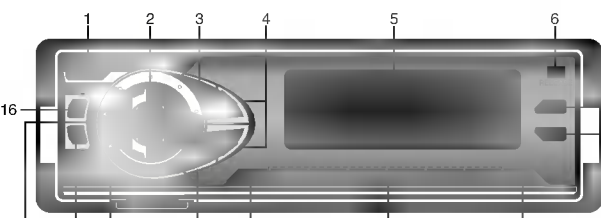
■ Attaching the Front Panel

- ▶ Push the front panel against the main unit to reattach it.



Notes:

- ▶ When replacing the front panel, do not put pressure on the display or control buttons.
- ▶ The control buttons may not work properly if the front panel is not attached properly. If this occurs, gently press the front panel.
- ▶ Do not leave the front panel in any area exposed to high temperatures or direct sunlight.
- ▶ Do not drop the front panel or otherwise subject it to strong impact.
- ▶ Do not allow such volatile agents as benzene, thinner, or insecticides to come into contact with the surface of the front panel.
- ▶ Never try to disassemble the front panel.

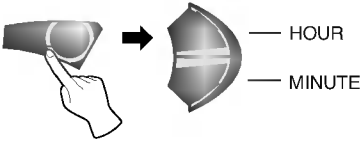


- 1 POWER (PWR) Button
- 2 SELECTION (SEL) Button
- 3 CLOCK (CLK) Button
- 4 TUNE/AMS UP/DOWN(±) Button (FF/REW, CLOCK Adjust)
- 5 LCD Display
- 6 RELEASE(▲) Button
- 7 MUTE Button
- 8 LOUD Button
- 9 EQUALIZER (EQ) Button
- 10 PRESET Button
- 11 BAND Button
- 12 AS/PS Button
- 13 FUNCTION (FUNC) Button
- 14 AMS ON/OFF Button
- 15 CONTROL UP/DOWN dial
- 16 DIRECTION (◀▶) Button
- 17 EJECT (▲) Button
- 18 CASSETTE slot

- 1 Press CLOCK (CLK) button once momentarily to display the time.

- 2 Press the CLOCK (CLK) button for more than 2 seconds, and clock indication will be displayed for 5 seconds. Adjust the clock within 5 seconds.

- ▶ Pressing TUNE (TN+) button adjusts the hour.
- ▶ Pressing TUNE (TN-) button adjusts the minute.



- 3 Press the CLOCK (CLK) button, the display returns to the previous display after 5 seconds.

■ Power ON and OFF

- ▶ Press POWER (PWR) button or any other button to turn the unit on.
- ▶ Press POWER (PWR) to turn it off.

Note:
When you turn off, the unit is memorized automatically the volume level currently before you turn off. Whenever you turn on the unit, it will operate at the volume level memorized.

■ Loudness Function

Press the LOUDNESS (LOUD) button, activates the loudness circuit which boosts to compensate the human ear's lack of sensitivity to bass at low levels.

■ Mute Function

- ▶ MUTE button is operated as "muted" state on/off.
- ▶ The releasing mode mute state is when any button is pressed again.

■ SELECTION (SEL) Button

After pressing the SELECTION (SEL) button to change the control of volume, bass, treble, balance and fader.

Note:
The unit cannot adjust the bass and treble in the EQ on mode.

■ CONTROL UP/DOWN DIAL

- 1 After you have selected the proper mode by using the SELECTION (SEL) button, control the desired function by turning this dial within 5 seconds. After you finish selecting modes, the unit returns to the initial mode.

- 2 Operating display in all modes:
A numeric display is converted by turning this dial.

■ FUNCTION(FUNC) Button

This button serves to switch over between the audio sources at cassette operation (cassette ↔ radio).

■ EQUALIZER(EQ) Button

Each press of the EQ button switches the unit to the other equalizer mode, as follows.
POP → CLASSIC → ROCK → Release → POP

- POP : Optimized for R&B, Soul and Country music.
- CLASSIC : Optimized for orchestral music.
- ROCK : Optimized for Hard Rock and Heavy Metal music.

■ Switching between audio sources

Using the button FUNCTION (FUNC). This button serves to switch over between cassette and radio operation even if the cassette remains inserted. If you switch over to radio operation the cassette tape is stopped.

■ Beep Sound Function

- 1 "BEEP ALL" Sound Mode
▶ Press the SELECTION (SEL) button for more than 2 seconds.

- ▶ "BEEP ALL" or "BEEP 2ND" appear in the LCD.
- ▶ Turn left or right CONTROL UP/DOWN dial to select the "BEEP ALL" indicator.

- When any button is pressed, beep sounds.

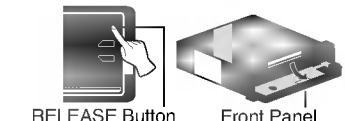
- 2 "BEEP 2ND" Sound Mode

- ▶ Press the SELECTION (SEL) button for more than 2 seconds.
- ▶ "BEEP ALL" or "BEEP 2ND" appear in the LCD.
- ▶ Turn left or right CONTROL UP/DOWN dial to select the "BEEP 2ND" indicator.

- When TN+, TN-, preset 1 ~ 6 and SELECTION (SEL) buttons are pressed for more than 2 seconds, beep sounds.

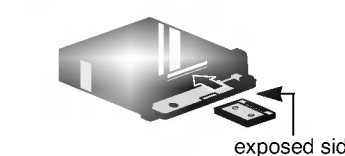
■ Basic Operation

- 1 Open the front panel.



If more than 30 seconds have elapsed after opening the front panel, unit was turned off automatically.

- 2 Insert a cassette.
The cassette is automatically loaded and play begins.



- 3 The tape direction can be reversed by pressing DIRECTION (◀▶) button.

- 4 The tape direction automatically reverses when the tape end has been reached.

- 5 To stop playback, press the EJECT (▲) button and remove the cassette tape.

- 6 Fast forwarding and rewinding the tape

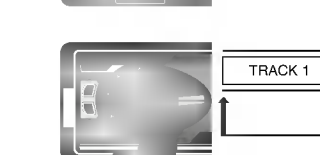
- * Fast forwarding tapes : Press the FF (▶▶) button.
- * Rewinding tapes : Press the REW (◀◀) button.

■ Auto Music Search (AMS)

- ▶ Your car receiver has the ability (by searching track gaps) to quickly find the beginning of next or before tracks on a cassette.

While the playing, press the AMS button. And then press the REW/FF (◀▶) button. The cassette deck will search for and play the next(before) track.

During searching "AMS" will show in the display.



■ Ejecting a Cassette

- 1 Open the front panel.



- ▶ Music search may not function properly for the following types of recordings.
This is due to the recording and is not a malfunction of the unit.
 - There are noises in the spaces between tracks.
 - A blank space is less than 4 seconds long.
 - A track includes a long pause or continues at low volume for several seconds.

■ Basic Operation

- 1 Turn the power ON.
- 2 For Radio source selection press the FUNCTION (FUNC) button shortly
- 3 Press the BAND button to select the desired frequency band.
- 4 Select the desired stations.

- ▶ **AUTO Tuning**
Press the TUNE (TN+/-) buttons for more than 1 seconds.

- ▶ **MANUAL Tuning**
Press the TUNE (TN+/-) buttons repeatedly until the desired station appears.

- 5 Adjust the Volume and Tone using SELECTION (SEL) and CONTROL UP/DOWN dial.

■ Memorizing Stations

24 stations [18FM, 6AM(MW)] can be preset using PRESET (1-6) buttons. Stations often listened to can be quickly recalled.

- 1 Select the desired band using the BAND button.

- 2 Tune in the desired station using the TUNE (TN+/-) buttons.

- 3 Press one of the PRESET (1-6) button for more than 2 seconds. The station has now been stored at one of the preset buttons.

- 4 Repeat steps 2 and 3 for each of the remaining 5 PRESET buttons.

■ Auto Store (AS)

6 stations in the selected band can be stored automatically.

- 1 Turn the power ON.
- 2 Select the desired band of stations to be received.
- 3 Press the AS/PS button for more than 2 seconds, and then this function implements.
- 4 The selected band is automatically scanned and the 6 strongest stations are stored. Then the preset stations are displayed repeatedly.
- 5 Press the AS/PS button to stop scanning the preset stations.

■ Preset Scanning (PS)

- 1 Store a station for each one of PRESET (1-6) buttons.
- 2 When the AS/PS button is pressed, the preset stations are monitored in sequence for 5 seconds each. The station number is shown in the preset station indicator.
- 3 When the desired station is received, press the AS/PS button again to stop scanning.

■ General

Output Power50 W × 4(Max.)
Power SourceDC 12-15 V
Speaker Impedance4 Ω × 4 or 8 Ω × 4
Ground SystemNegative
Dimensions(W × H × D)188 × 58 × 166 mm(Without Front Panel)
Net Weight1.3 kg

■ Tape Player

Tape Drive SystemFull Auto Reverse
Tape Speed4.75 cm/sec.
Wow/Flutter0.2% (WRMS)
S/N Ratio50 dB
Frequency Response40-14,000 Hz
Distortion (T.H.D. 0.5W)0.5%

■ Tuner

FM
Frequency Range65.0-74.0 MHz, 87.5-108 MHz
S/N Ratio60 dB
Distortion (T.H.D. 0.5W)0.5%
Channel Separation30 dB

AM(MW)
Frequency Range522-1, 620 kHz
S/N Ratio50 dB
Distortion (T.H.D. 0.5W)0.5%

*Note : The design and specifications are subject to change without notice in the course of product improvement.

"The working life of this product is 7 years since the date of purchase."