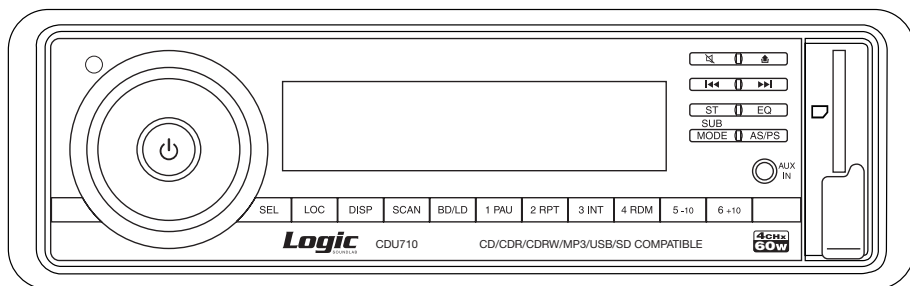


INSTRUCTION MANUAL

- MP3/WMA/AM/FM/CD Receiver
- Flip Down/Full Detachable Front Panel
- SD/MMC/USB and Front Aux Input
- CD-R/CD-RW Compatible
- Oversized, Active Black Matrix Display



PLEASE READ THIS INSTRUCTION MANUAL CAREFULLY BEFORE OPERATING YOUR UNIT.

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Installation	1
Installation in the dashboard	1
Detaching and Attaching the front panel	1
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General Controls	4
CD/MP3/WMA Control	6
How to Select MP3/WMA Files	7
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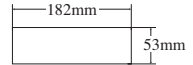
INSTALLATION

PRECAUTIONS

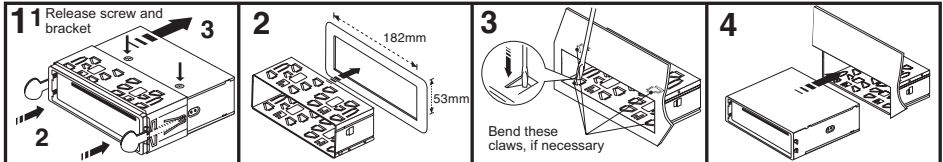
- Choose the mounting location carefully so that the unit will not interfere with normal driving functions.
- Avoid installing the unit where it may be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it may be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.
- Be sure to remove the front panel before installing the unit.

Mounting angle adjustment

Adjust the mounting angle to less than 20°.



MOUNTING EXAMPLE – Installation in the dashboard





Note: Keep the release key in the safe place as you may need it in future to remove the unit from the car.

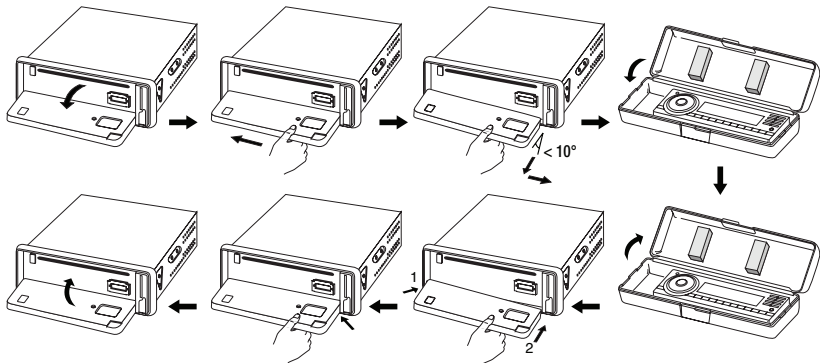
Detaching and attaching the front panel

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

FOLDING DOWN AND DETACHING/ATTACHING THE FRONT PANEL

Before detaching the front panel, be sure to press the  button (1) OFF first.


Then press the  button and detach the panel by pulling it towards you as illustrated.



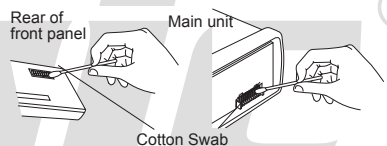
Notes:

- Do not press the front panel hard against the unit when attaching it. It can be easily attached by pressing it lightly against the unit.
- When you carry the front panel with you, put it in the supplied front panel case.
- Do not press hard or give excessive pressure to the display window of the front panel when attaching it to the unit.

CLEANING THE CONNECTOR

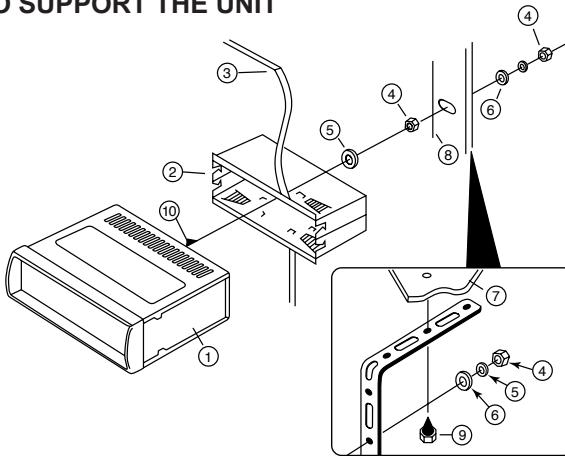
The unit may not function properly if the connectors between the unit and the front panel are contaminated with dirt. In order to prevent this from happening, detach the front panel by pressing the  button and clean the connectors from time to time.

Clean the connectors with a cotton swab and contact cleaner as illustrated. Clean each pin carefully and make sure not to damage the connecting points.



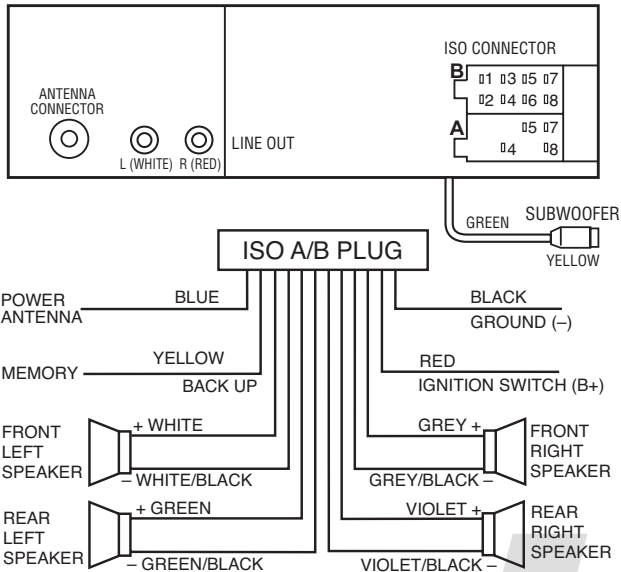
INSTALLATION

TO SUPPORT THE UNIT



1. UNIT
2. RELEASE CASE
3. DASH BOARD
4. HEX NUT
5. LOCK WASHER
6. PLAIN WASHER
7. CAR BODY
8. REAR SUPPORT STRAP
9. TAPPING SCREW
10. M5 X 15 HEX BOLT

WIRING CONNECTION



FUSE REPLACEMENT

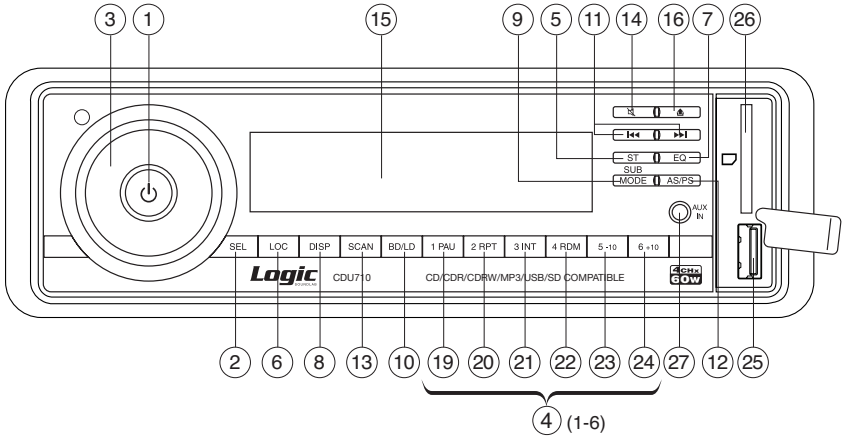
If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after the replacement, there may be an internal malfunction. In this case, consult your nearest repair center.

Warning

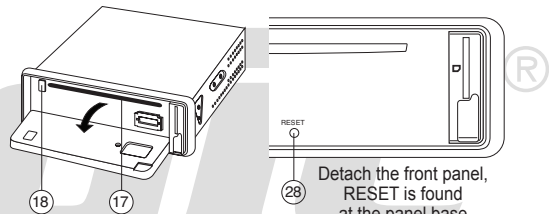
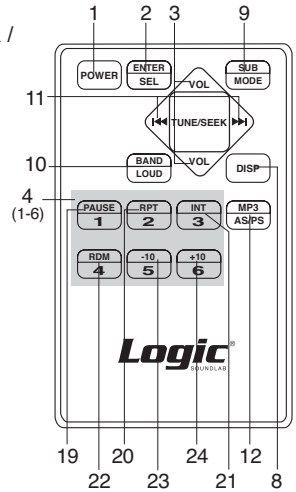
Use the specified amperage fuse for each lead. Use of a higher amperage fuse may cause serious damage.

OPERATION

LOCATIONS OF CONTROLS



1. POWER ON/OFF ()
2. FUNCTION SELECT BUTTON: BASS/TREBLE/BALANCE/FADER / BEEP/ADJ TIME/AUDIO DSP
3. VOL UP/VOL DOWN FOR BASS/TREBLE/BALANCE/FADER / BEEP/ADJ TIME/AUDIO DSP
4. PRESET STATIONS (1,2,3,4,5,6)
5. STEREO/MONO BUTTON (ST)
6. LOCAL/DISTANT BUTTON (LOC)
7. EQUALIZER CONTROL (EQ)
8. DISPLAY BUTTON (DISP)
9. MODE / SUBWOOFER BUTTON (MODE)
10. BAND / LOUDNESS BUTTON (BD/LD)
11. AUTOMATIC OR MANUAL TUNING (FREQ UP OR FREQ DOWN / CD TRACK/SEARCH BUTTON
12. AUTO SEEK SEARCH TUNING (AS/PS)
13. 'SCAN' AUTOMATIC TUNING CONTROL (SCAN)
14. MUTE BUTTON ()
15. LCD DISPLAY
16. OPEN PANEL RELEASE BUTTON ()
17. CD SLOT
18. CD EJECT BUTTON ()
19. PAUSE BUTTON
20. REPEAT BUTTON
21. INTRO BUTTON (Preview all Tracks)
22. RANDOM BUTTON
- 23, 24. 10 TRACK SEARCH DOWN/UP
25. USB PORT
26. SD/MMC CARD SLOT
27. AUX IN
28. RESET BUTTON



OPERATION

GENERAL CONTROLS

1. POWER ON/OFF

By pressing this key, the unit is switched on and off. This unit is turned on by pressing any key.

2. SELECT

3. VOLUME UP/DOWN

By turning the VOL (3) knob Right or Left, you can adjust VOL/BASS/TREB/BAL/FAD in the order listed. To select each function, Press the SEL (2) button briefly until the desired function is shown on the display. Figure 1 shows how functions are selected:

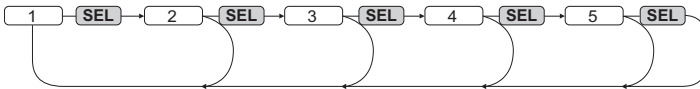


Fig. 1 Selection of sound control function

1. VOL 2. BAS 3. TRB 4. BAL 5. FAD

Turning the VOL knob Right or Left. Increase or decrease the volume by turning or . These buttons can be used to adjust the BASS, TREBLE, BALANCE and FADER.

BEEP MODE (2)

Press the SEL button again (for more than 2 seconds) to activate Selecting mode for BEEP:



ALL Button sound is on permanently

2nd Button sound is triggered by secondary button functions (hold button down for a while)

OFF Button sound is off

ADJUST TIME (2)

Press the SEL button again (for more than 2 seconds) to activate Selecting mode for ADJUST TIME:



Turn VOL knob clockwise to set hours and counter clockwise to set minutes.

AUDIO DSP CONTROLS (2)

Press the SEL button again (for more than 2 seconds) to activate Selecting mode for DSP:



4. PRESET STATIONS

Six numbered preset buttons store and recall stations for each band.

Storing a station:

1. Select a band (if needed)
2. Select a station
3. Hold a preset button longer than one second. Preset station number appears in the display when station is saved.

Recall a station:

1. Select band (if needed)
2. Press a preset button for less than one second to select stored station.

5. STEREO/MONO BUTTON

Press **ST** button to switch between stereo and mono sound for FM radio reception. When reception of an FM station is weak, listening quality can be improved by switching to mono sound.

OPERATION

6. LOCAL/DISTANT BUTTON

Press Local/Distant (LO/DX) button for listening to weak stations. "LOCAL" indicator will appear on the display. Press this button again (Distant mode) for normal operation.



7. EQUALIZER CONTROL

Press **EQ** to select between Off/Pop/Rock/Classic/Flat equalizer modes.

8. DISPLAY BUTTON (Set the Clock)

Selects radio frequency or clock display.

To set the clock:

1. With clock display selected, hold down (DISP) button until clock display starts flashing.
2. Rotate  to change minutes,  to change hours.
3. Press (DISP) button to start clock.

9. MODE / SUBWOOFER BUTTON

Press MD to select between: AUX/TUNER/CD-MP3/USB or MMC/SD modes.

SUBWOOFER: Press and hold the button to engage subwoofer output.

10. BAND SELECTOR / LOUDNESS BUTTON

Push this switch to select the desired band, either AM or FM.

LOUDNESS: Press and hold the button to select LOUDNESS mode.

11. AUTOMATIC OR MANUAL TUNING (FREQ UP OR FREQ DOWN)

(A) RADIO MODE

When pressed for less than 1 second, these keys operate as SEEK Tuning mode.

When pressed longer than 1 second, they operate as MANUAL tuning mode.

If the keys are not pressed for 3 seconds, they will return to Automatic mode.

(B) CD/MP3/WMA PLAYER MODE

When pressed for less than 1 second, these keys operate as TRACK UP or TRACK DOWN mode.

When pressed longer than 1 second, they will operate as CUE or REVIEW mode.

12. AUTOMATICALLY STORE STATIONS

Select six strong stations and store them in current band.

1. Select a band (if needed)
2. Hold **AS/PS** button for more than three seconds. The new stations replace stations already stored in that band.

Preset Scan

Scan stations stored in current band

1. Select a band (if needed)
2. Hold **AS/PS** for more than one second but less than three seconds. Radio pauses for five seconds at each station. Press **AS/PS** again to stop scanning when desired station is reached.

13. 'SCAN' AUTOMATIC TUNING CONTROL

This key operates RADIO SCAN. The operation is similar to normal search but holds 5 seconds on every station detected in RADIO SCAN mode.

14. MUTE BUTTON

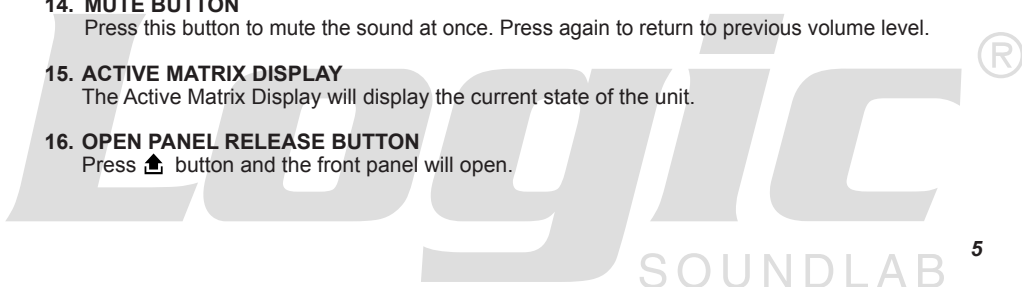
Press this button to mute the sound at once. Press again to return to previous volume level.

15. ACTIVE MATRIX DISPLAY

The Active Matrix Display will display the current state of the unit.

16. OPEN PANEL RELEASE BUTTON

Press  button and the front panel will open.



OPERATION

CD/MP3/WMA CONTROL

Inserting the CD

Carefully slide the CD or CD-R or CD-RW through the CD slot into the CD compartment. The CD starts playing automatically.

TRACK/SEARCH BUTTON

FORWARD ►► AND REVERSE ◀◀ TRACK SEARCH (11)

Press and release to advance to next track or to return to the beginning of the current track (track number will be displayed). Press and hold to fast forward ►► or reverse ◀◀. Play will begin at the point when you release the button.

17. CD SLOT

18. CD EJECT BUTTON

Press the EJECT ▲ button to remove the CD. The receiver will automatically switch to radio mode.

19. PAUSE BUTTON

Press ►◄ to pause CD playback. Press again to resume playback.

20. REPEAT BUTTON 'RPT'

When this button is pressed, 'RPT' indication is displayed and the selected track will be continually repeated until the Track Repeat mode is cancelled by pressing 'RPT' button again.

21. INTRO BUTTON (Preview all Tracks) 'INT'

When this button is pressed, 'INT' indication is displayed and the first several seconds of each track are played. Press again to stop intro and listen to current track.

22. RANDOM BUTTON 'RDM'

When this button is pressed, 'RDM' indication is displayed and each track is played in random order instead of normal progression. To cancel RANDOM mode, press 'RDM' button again.

23, 24. 10 TRACK DOWN/UP SELECT: (In case of MP3/WMA files)

Press Button 5: 10 Track down / Press Button 6: 10 Track up

OPERATION

HOW TO SELECT MP3/WMA FILES

A. Searching Track:

- Press and hold "AS/PS" to activate Search Track mode.
- Press "SEL" button. The first digit will flash.
- Rotate "VOL" knob to right or left to select first digit desired.
- Press "SEL" button. The first digit is fixed and second digit will flash.
- Rotate "VOL" knob to right or left to select second and third digits respectively.
- The selected song will start automatically.

B. Searching Character:

- Press and hold "A/SPS". Press "AS/PS" again to activate Search Character mode.
- Press "SEL" button. The first directory is displayed.
- Rotate "VOL" knob to right or left to select the desired directory.
- Press "SEL" button again. The directory is fixed and the first file name is displayed.
- Rotary "VOL" knob to right or left to select the file you want.
- Press "SEL" button and the selected song will start.

25. USB PORT

Enhanced control of connected Portable Media such as Flash Drives and digital MP3 players by using function keys on the CDU710 or the remote control unit.

CDU710 features the latest ID3 Tag support, which allows you to see the song's name and folder location on the black matrix display.

26. MULTI-MEDIA CARD (MMC) / SD CARD SLOT

Supports MP3/WMA ID3 format music only.

27. FRONT AUX IN

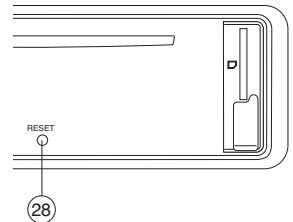
Convenient front "AUX IN" input jack allows easy connection of Portable media such as iPod and other digital MP3 Players.

28. RESET

Reset button is located on the housing.

The reset button is to be activated for the following reasons:

- Initial installation of the unit when all wiring is completed.
- All the function buttons do not operate.
- Error symbol on the display.



TROUBLESHOOTING

Check all wiring connections before referring to the list below. If problems persist after consulting the list, contact your nearest service dealer.

SYMPTOM	CAUSE	SOLUTION
No power.	The car ignition switch is not on.	If the power supply is properly connected to the car accessory circuits, but the engine is not on, switch the ignition key to "ACC".
	The fuse is blown.	Replace with a new fuse of equal rating.
Disc cannot be loaded or ejected.	A CD is in the player.	Remove the disc in the player, then insert a new one.
	Disc is inserted upside down.	Insert the CD with the label facing up.
	CD is very dirty or defective.	Clean the disc or try to play a new one.
	Temperature inside the car is too high.	Allow the ambient temperature to cool to a normal level.
	Condensation is present in the CD player.	Leave the player off for an hour or so, then try again.
No sound.	Volume control is set to the minimum level.	Adjust volume to a desired level.
	Wiring is not properly connected.	Check wiring connections.
Sound skips.	The installation angle is more than 20 degrees.	Make sure the head unit is installed at an angle of less than 20 degrees from horizontal.
	The disc is extremely dirty or defective.	Clean the CD or try to play a new one.
The operation keys do not work.	The built-in microcomputer is not operating properly.	Press the RESET button and try again.
	Front panel is not attached or seated properly.	Remove and reinsert the front panel according to the instructions in this manual and try again.
The radio does not work. The radio station automatic selection does not work.	The antenna cable is not connected.	Insert the antenna cable firmly.
	The signals are too weak.	Select a station manually.

SPECIFICATIONS

CDU710

MP3-Compatible AM/FM CD Receiver

CD/MP3/WMA PLAYER

Signal to Noise Ratio	> 60 dB
Channel Separation	> 50 dB (1kHz)
Frequency Response	20Hz - 20 kHz

TUNER (FM)

Frequency range	87.5-107.9 MHz
Sensitivity	2.8 μ V
Stereo separation	30 dB
Signal to noise ratio	50 dB
Channel step	200 kHz

TUNER (AM)

Frequency range	530-1710 KHz
Intermediate frequency	25 KHz
Usable Sensitivity	32 dB μ V

LINE-OUT

Output	5 V (max.)
Impedance	10k Ohm

GENERAL

Power Supply	12V DC (10.8-15.6V allowable)
Speaker impedance	4 or 8 ohm
Output power	60 Watts x 4 Channels