

Car CD/MP3 Receiver

OWNER'S MANUAL MODEL : LAC-M0510R









Before connecting, operating or adjusting this product, please read this instruction booklet carefully and completely.



INTRODUCTION

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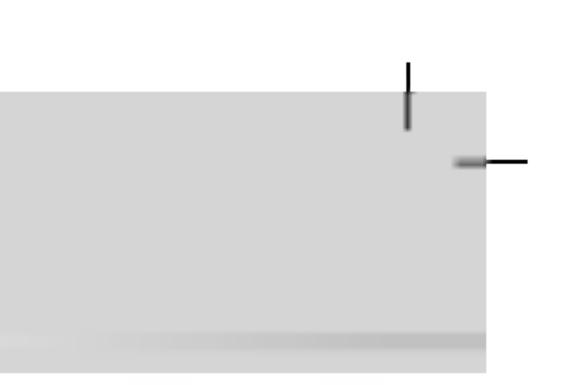
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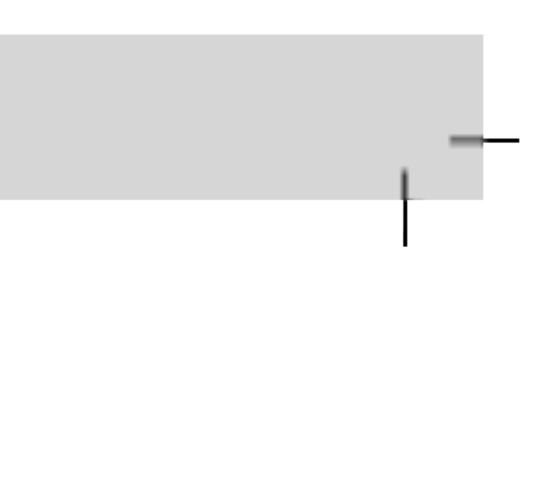
Specifications



Disposal of your old appliance

- When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
- 2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
- 3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
- 4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.







Warning: To reduce the risk of electric shock, do not remove the cover or back of this product. There are no user-serviceable parts inside. Refer servicing to qualified service personnel. Warning: To reduce the risk of fire or electric shock, do not expose this product to dripping or splashing water, rain, or



moisture.





Warning: Due to high temperature outside of the unit, please use the unit only installed in a car.

CLASS 1 LASER PRODUCT KLASSE 1 LASER PRODUKT LUOKAN 1 LASER LAITE KLASS 1 LASER APPARAT
KLASS 1 LASER APPARAT CLASSE 1 PRODUIT LASER

- Caution: Protect this product from moisture.
- Caution: If the battery is disconnected or discharged, the preset memory will be erased and must be reprogrammed.

Safety Precautions

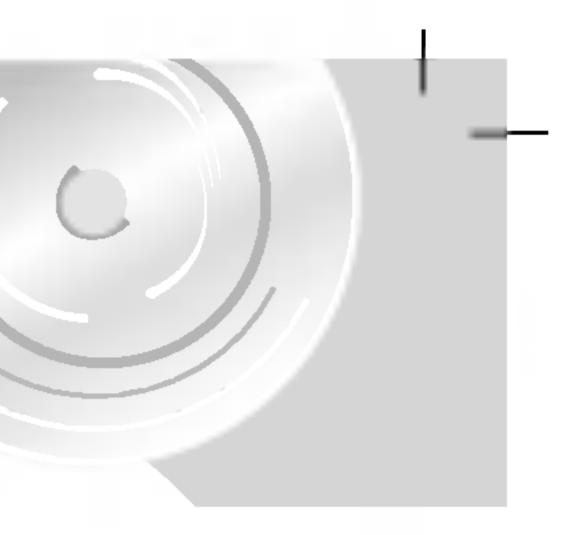
CAUTION:

This unit employs a Laser System.

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference should the unit require maintenance, contact an authorized service location (see service procedure). Use of controls, adjustments, or the performance of procedures other than

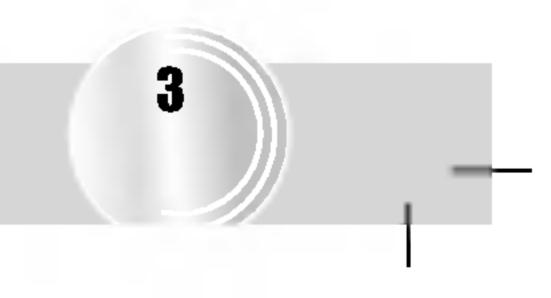
those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.



TRODU Ο

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To ensure proper use of this product, please read this owner's manual carefully and retain for future reference.

Symbol Used in this Manual



The lightning flash symbol alerts you to the presence of dangerous voltage within the product enclosure that may constitute a risk of electric shock.



Indicates hazards likely to cause harm to the unit itself or other material damage.

NOTE

TIP

Indicates tips and hints for making the task easier.

Handling the Unit

- ground electrical system only.
- may cause serious damage to the unit.



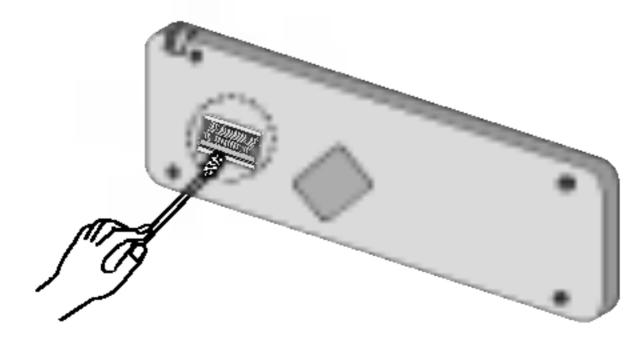
Before Use

Indicates special notes and operating features.

This unit is designed to be operated on a 12 volt DC negative

• When replacing the fuse, be sure to use the fuse whose amperage rating is identical. Use of a fuse with higher amperage

 Periodically wipe the contacts on the back of the front panel with a cotton swap moistened with alcohol.



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С е





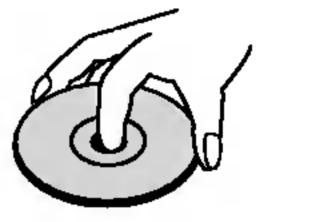


This unit cannot be operated by 8cm disc (using 12cm disc only).

Notes on Discs

-landling Discs

Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints do not get on the surface. Never stick paper or tape on the disc.



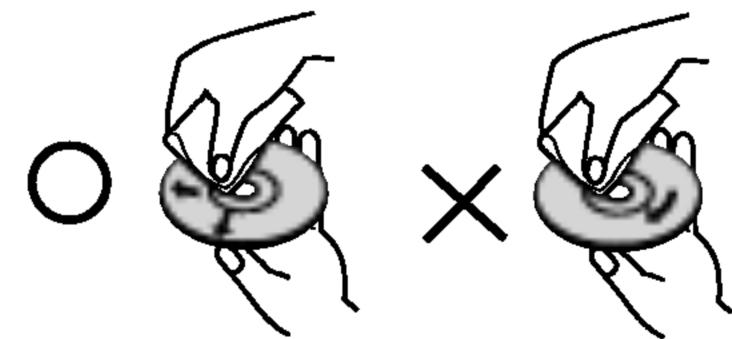


Storing Discs

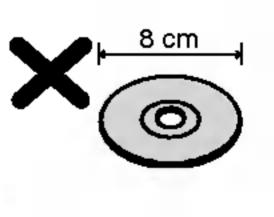
After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat and never leave it in a parked car exposed to direct sunlight.

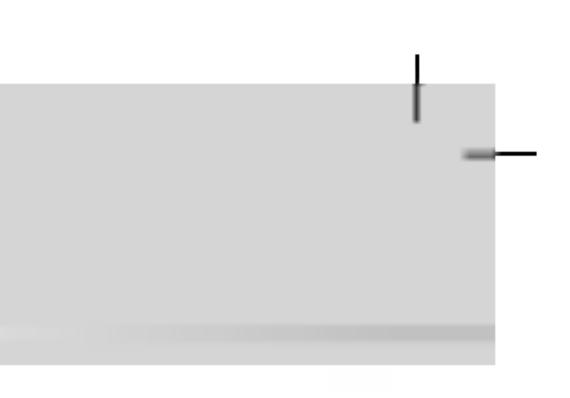
Cleaning Discs

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.



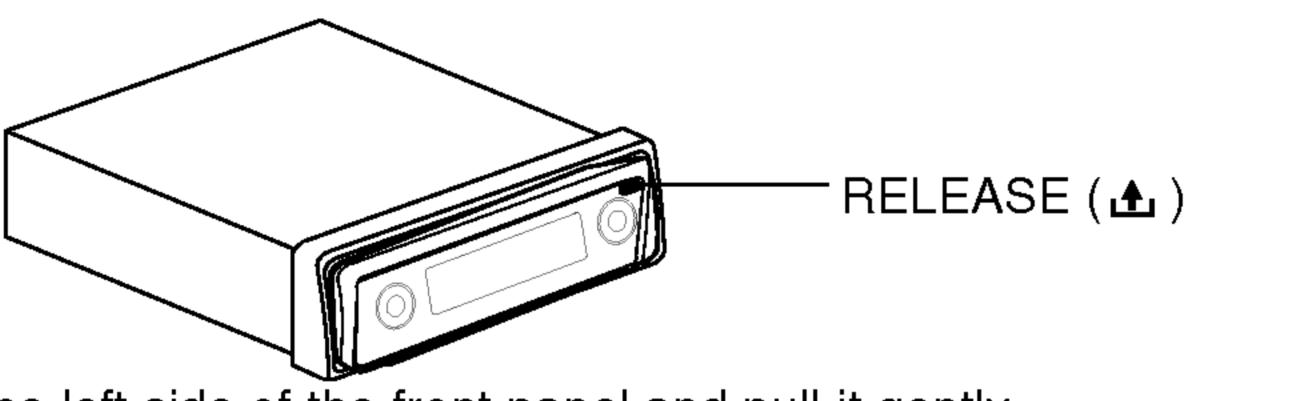
Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.





Protecting your unit from theft

The front panel can be detached from the head unit and stored in the protective case provided to discourage theft.



outward.



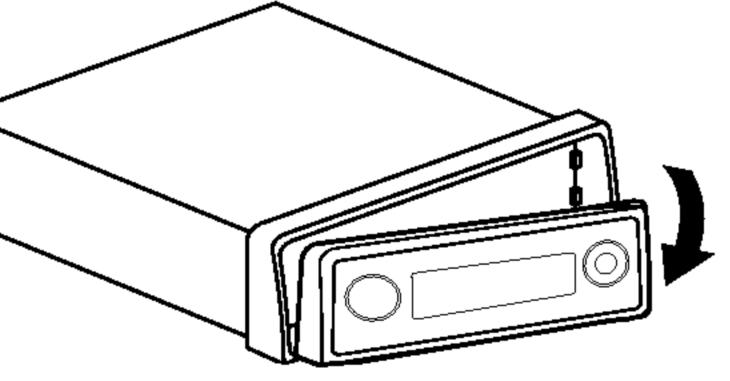
keeping.



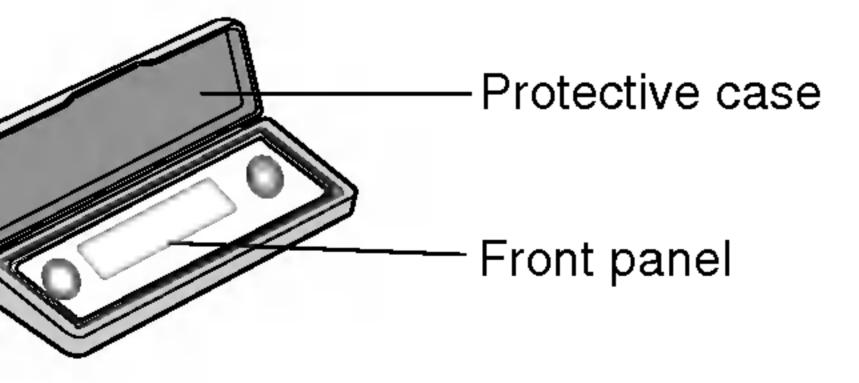
1. Press RELEASE (1) to open the front panel.

2. Grip the left side of the front panel and pull it gently

Take care not to grip it tightly or to drop it.

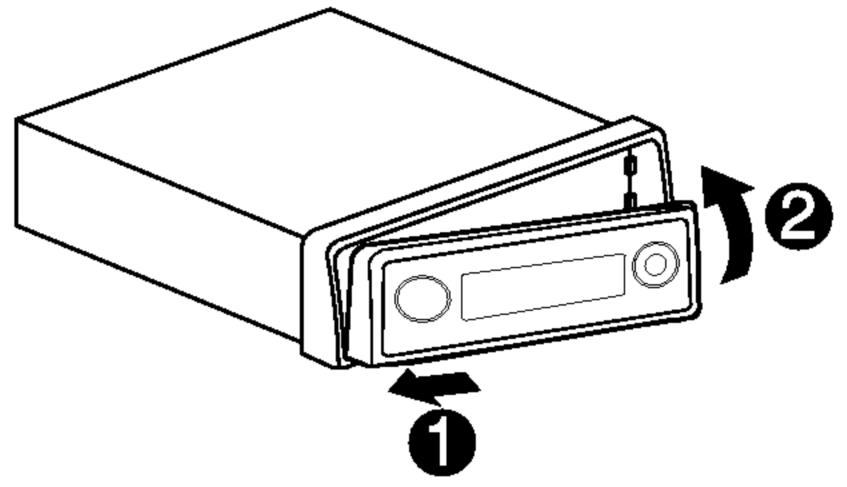


3. Put the front panel into the protective case provided for safe

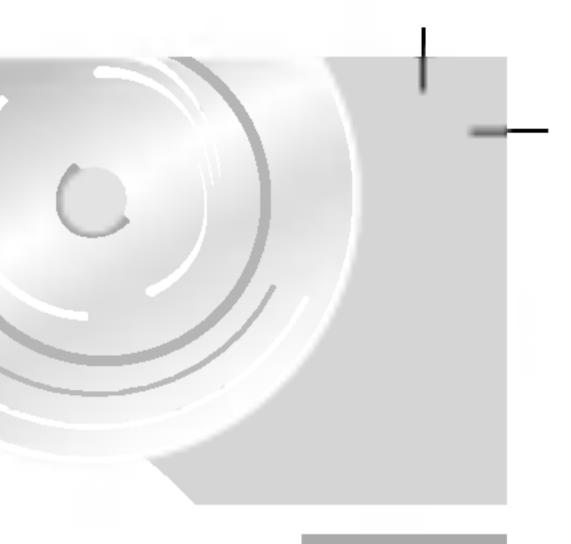




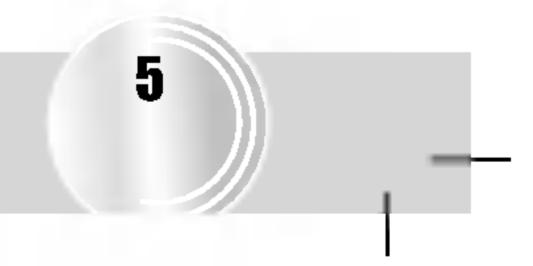
Attaching the front panel

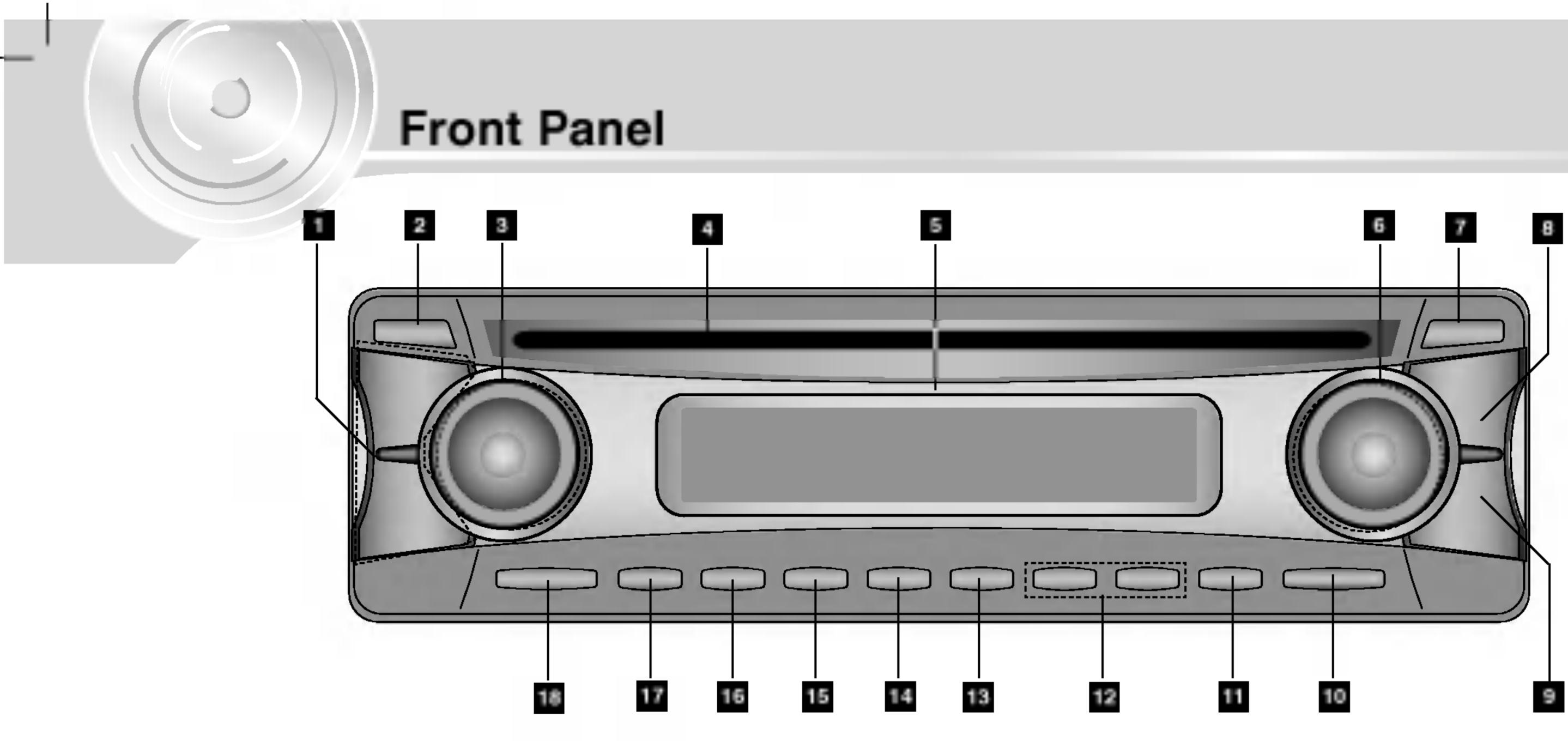


Align the left side of the panel with the stopper, and then push the right side or the panel into the unit until it clicks.



NTROD ž

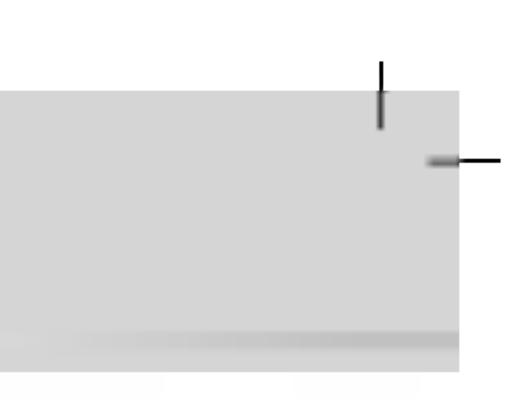




VOLUME (VOL-/+) button
CONTROL UP/DOWN button
EJECT (▲) button
CD SKIP/SEARCH (▲ / ▶) button
SEEK/TUNE (-/+) button
CD disc slot
DISPLAY WINDOW
PTY/TA button
ALTERNATIVE FREQUENCIES/REGIONAL (AF/REG) button
DISPLAY (DISP) button
RELEASE (▲) button
FUNCTION (FUNC) button
EQUALIZER/XDSS (EQ/XDSS) button

6

SELECTION (SEL.) button
AUTO STORE/PRESET SCAN (AS/PS) button
MP3 TRACK -/+10 button
SHUFFLE (SHF) button
REPEAT (RPT) button
INTRO SCAN (SCAN) button
CD PLAY/PAUSE (>/II) button
BAND button
PWR/MUTE button
, , , , , , , Preset Station buttons. (1-6)



Basic Installation

Before installing, make sure that the ignition-switch is set to OFF and remove the terminal of the car battery to avoid short-circuiting.

- 3. Install the installation sleeve.

Removing existing receiver unit

If there is already an installation sleeve for the receiver unit in the dashboard, it must be removed.

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.

ISO-DIN Installation

- 5. Install trim ring to the unit.
- closed.

1. Remove the existing receiver unit.

2. Make the necessary connections.

4. Install the unit in to the installation sleeve.

2. Remove the front panel and trim ring from the unit.

3. Insert the lever 🚯 into the hole on one side of the unit. Do the same operation on the other side and pull out the unit from the installation sleeve.

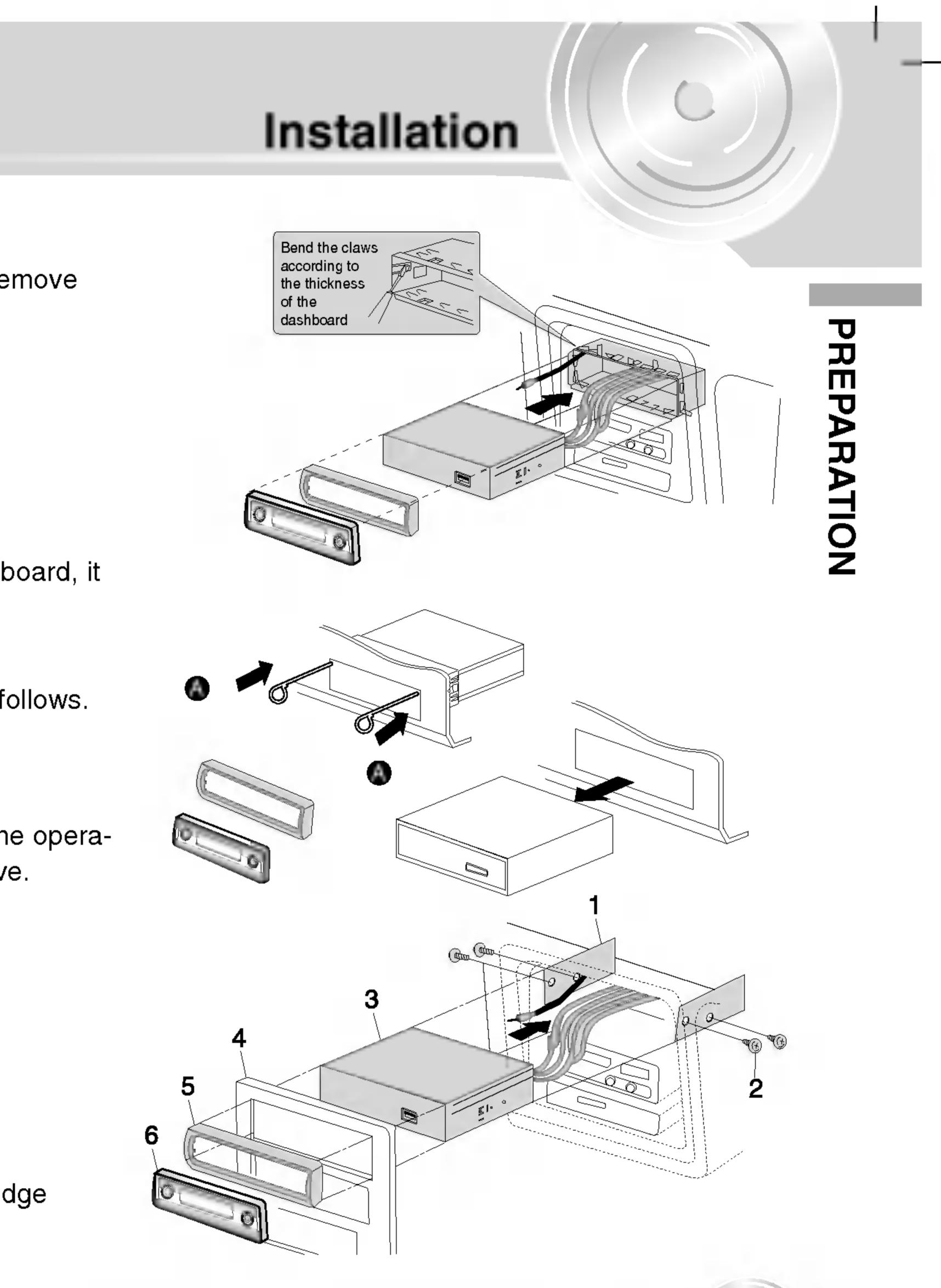
1. Slide the unit into ISO-DIN frame.

2. Install screws removed from old unit.

3. Slide the unit and frame into dash opening.

4. Install dash panel or adapter plate.

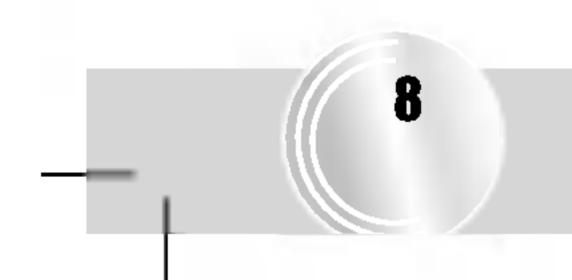
6. Install faceplate by fitting right edge into position then pushing left edge



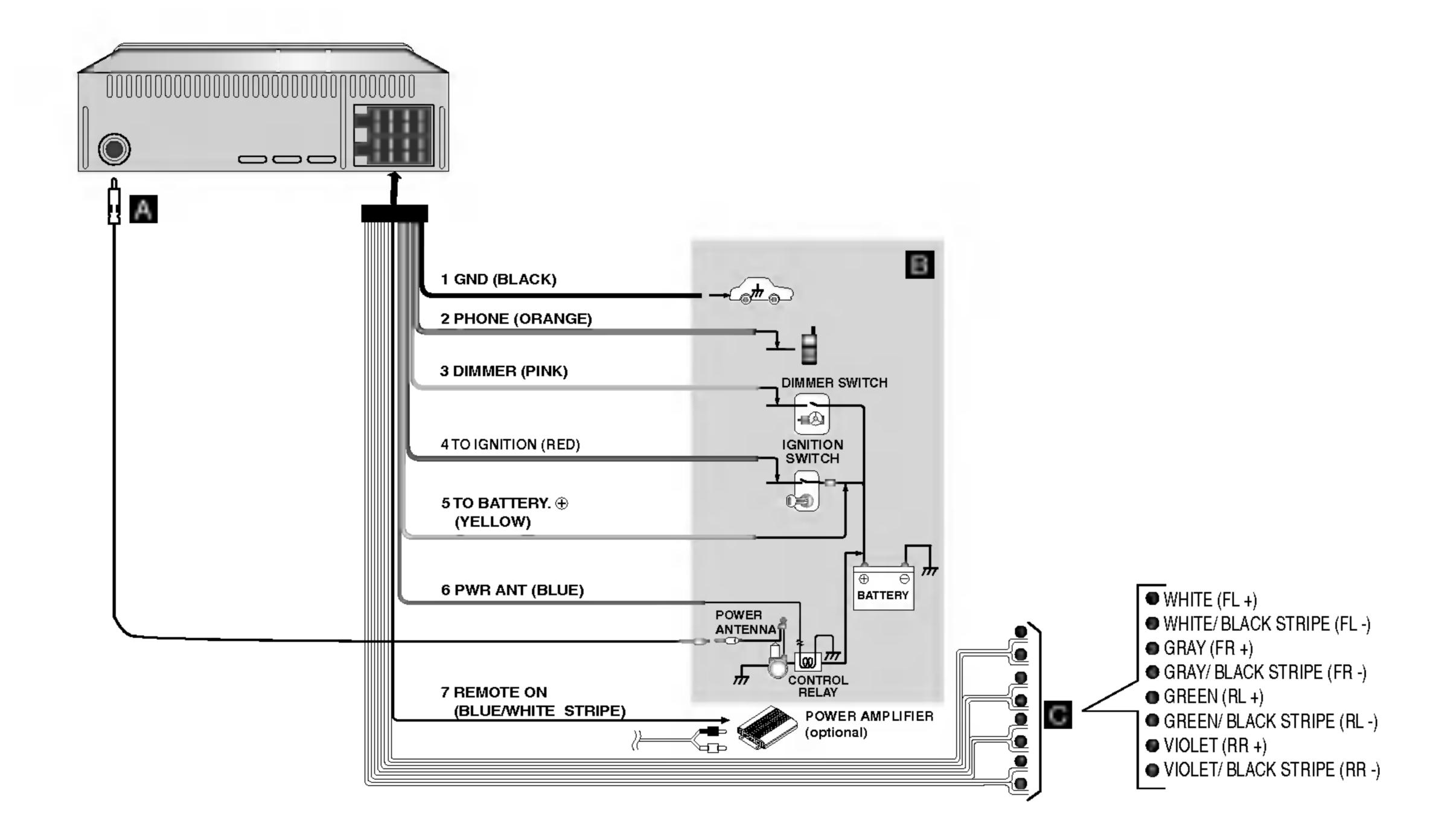




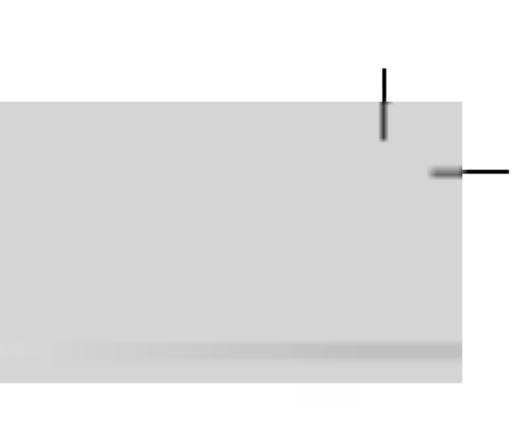
Before connecting, make sure that ignition switch is set to OFF, and remove the \ominus terminal of the battery to avoid short circuits.



Connections







Connecting to Car

- A From antenna
- - 3 PINK :
 - 4 RED :

B To the wiring of vehicle Colors of leads

I BLACK : This lead is for connection to the Ground.

2 ORANGE : This lead is for connection to the phone line.

This lead is for connection to the Dimmer line

This lead is for connection to the terminal from which the power is supplied when the ignition switch is set to ACC.

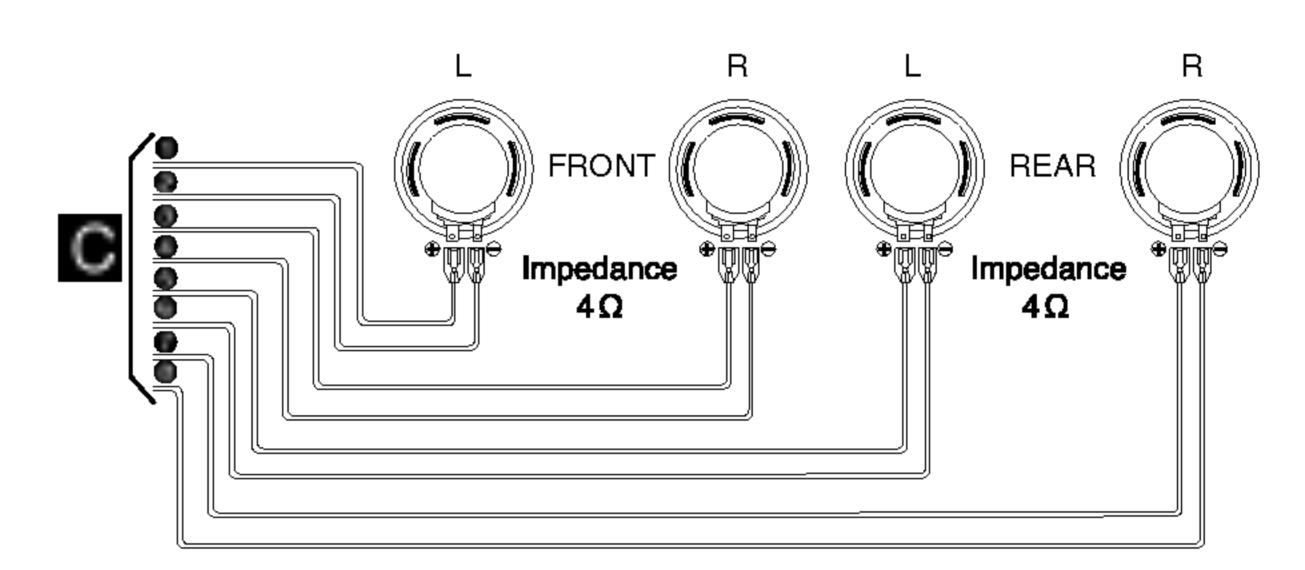
5 YELLOW : This lead is for connection to the Battery (back-up) terminal from which the power is always supplied.

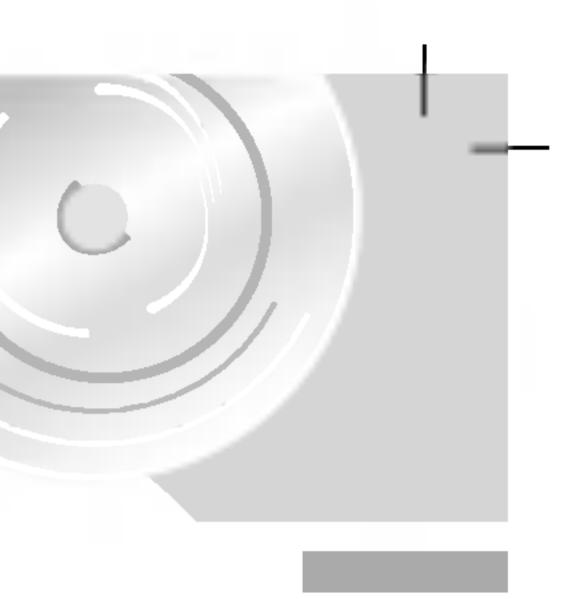
6 BLUE : This lead is for connection to the power antenna.

7 BLUE/WHITE STRIPE : This lead is for connection to the amplifier remote on.

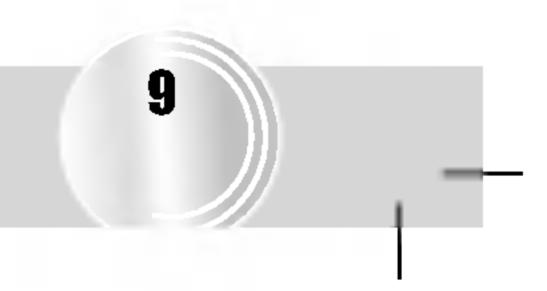


CSpeaker Connections









Turning the unit on

Press **PWR/MUTE** or any other button on the front panel.

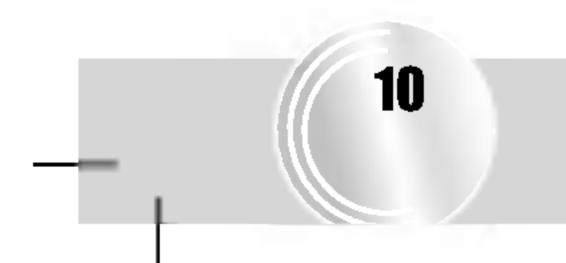
Turning the unit off

Press **PWR/MUTE** on the front panel for more than 1.2 second to turn the unit off.

Selecting a source

You can select a source you want to listen to. Press FUNC. to select a source. Press FUNC. repeatedly to switch between the following sources: Tuner \rightarrow CD \rightarrow Tuner...

NOTE



Basic Operation

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

Adjusting the volume

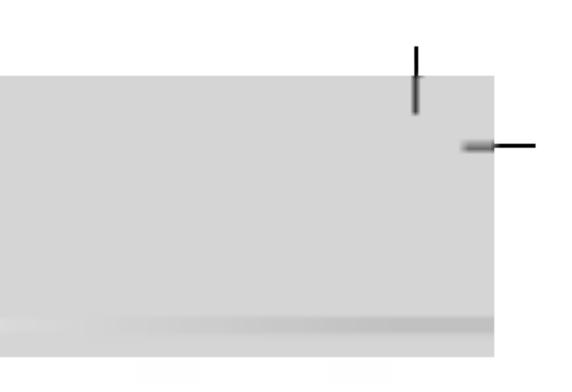
Use VOLUME to adjust the sound level. Press VOLUME (VOL+/-) button on the front panel to increase or decrease the volume.

Checking the clock

You can see the clock pressing **DISP** for more than 1 second.

NOTES

• If the unit is received the RDS broadcasting with CT (Clock Time) information, the clock will be shown automatically in the display window. • Unless, "NO CLOCK" appears in the display window.



SOUND Adju Using the EQ

The equalizer lets acoustic character There are 3 stored any time.

Here is a list of the

- EQ POP : Repro
- EQ CLASSIC :
- EQ ROCK : Rep
- 1. Press EQ/XDS
- 2. Press EQ/XDS Equalizer settin POP → CLASS \rightarrow FLAT (NO dis

MUTE

<u>ustment</u>	
(Equalizer)	Ş
s you adjust the equalization to match the eristics of the car's interior as desired. In equalizer curves which you can easily recall at	1
ne equalizer curves:	
roduces pop music acoustics. Reproduces orchestral music acoustics. produces rock music acoustics.	2
SS on the front panel to select the equalizer. SS repeatedly to choose between the following ngs.	
SIC → ROCK → JAZZ → VOCAL lisplay) → POP	

1. Press **PWR/MUTE** to cut the sound. 2. To cancel it press **PWR/MUTE** again.

Basic Operation

SELECTION (SEL) Button

1. Press the SELECTION (SEL.) button repeatedly to select the mode you want to adjust from volume, bass, treble, balance and fader. The mode indicator lights up in the following order.

 \rightarrow VOL \rightarrow BAS \rightarrow TRB \rightarrow BAL \rightarrow FAD \neg

2. Press CONTROL UP (VOL+) or DOWN (VOL-) to adjust the sound quality.

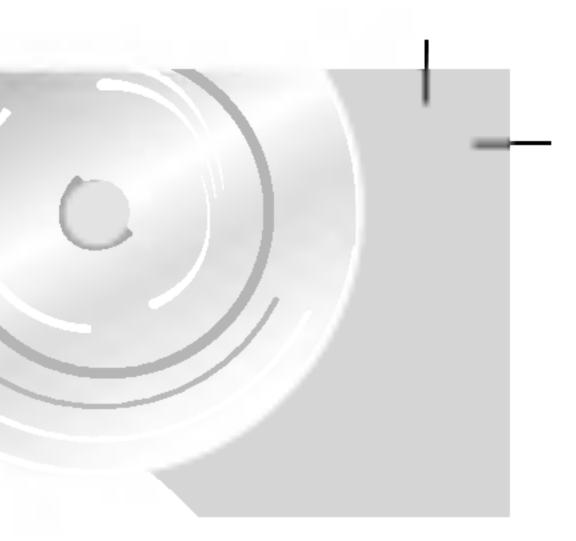
	Turn right	Turn left
VOL	Increase the volume level.	Decrease the volume level.
BAS	Increase the bass level.	Decrease the bass level.
TRB	Increase the Treble level.	Decrease the Treble level.
BAL	Decrease the level of the left speaker(s).	Decrease the level of the right speaker(s).
FAD	Decrease the level of the front speaker(s).	Decrease the level of the rear speaker(s).

NOTE

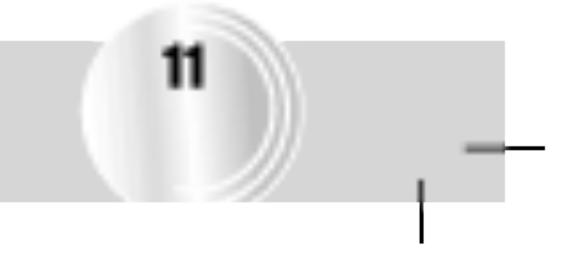
The unit cannot adjust the bass and treble in the EQ/XDSS mode.

XDSS (Extreme Dynamic Sound System)

Press and hold the EQ/XDSS button to reinforce treble, bass and surround effect.







RDS Display O

In normal RDS or name. Pressing D through the variou

- (CT→FREQUEN
- CT (Time control
- PTY (Program ty
- RT (Radio text re
- PS (Program Sei
- PI (Program Ider
- **AF** (Alternative
- TP (Traffic Progr
- TA (Traffic Annou • EON (Enhanced
- NOTES

RDS AF/REG FUNCTION

To switch on or off the AF function (Network-Tracking), shortly press the 'AF' button. To switch on or off the REG function (Regional Network Tracking), press the 'AF' button longer than 2 seconds.

LOCAL/DX selection in EON-TA mode

In the EON-TA mode, press the TA button for more than 2 seconds, causes only local and strong stations to be received. When TA button is pressed for more than 2 seconds, it receives all stations, including distant and weak ones. It is recommended to set TA button to the local position to receive local stations with good sound quality.

RDS Operation

ptions	P
peration the display will indicate the station	Т
DISP on the front panel enables you to cycle	fo
us data types in the sequence:	1
CY→PTY→RT→PS)	2
olled by the channel)	
ype recognition)	
recognition)	3
ervice name)	0
ntification)	
Frequencies for the actual program)	
ram Identification)	
ouncement Identification)	
d Other Networks)	

RDS is only available for FM reception.

PROGRAM TYPE FUNCTION

To select a certain program type out of the reception band, ollowing procedure can be operated.

- Press BAND to select in FM mode.
- 2. After, pressing **PTY** button one by one activated as selecting each mode.

music group→speech group→search off

Press one of the **PRESET (1-6)** button shortly. Each time this button is pressed, the display mode changes as follow.

No	Music group	
1.	Pop M, Rock M	
2.	Easy M, Light M.	
3.	Classics, Other M	
4.	Jazz, Country	
5.	Nation M, Oldies	
6.	Folk M	
	Speech group	
No	Speech group	
1.	Speech group News, Affairs, Info	
1.	News, Affairs, Info	
1. 2.	News, Affairs, Info Sport, Educate, Drama	
1. 2. 3.	News, Affairs, Info Sport, Educate, Drama Culture, Science, Varied	



RDS MODE Adjustment

- selecting mode.
- each mode.
- indicator.

Press the **SEL**. button for more than 2 seconds it is activated

2. After, pressing SEL. button one by one activated as selecting

3. Press CONTROL UP (VOL+) or DOWN (VOL-) to select the

RDS Operation

TA SEEK mode

When the newly tuned station does not receive TP information for 5 sec, the receiver retunes to next station which has no same PI as the last station's, but has the TP information.

TA ALARM mode

When a newly tuned station has no TP information for 5 sec, double beep sound is ouput.

PI SOUND mode

If the sound of a station with different PI is heard once in a while, the receiver mutes the sound after 1 second.

PI MUTE mode

If the situation described above is occurred, the receiver mutes the sound right now.

RETUNE L mode

The waiting time for starting TA search or PI search is selectable. Retune time is set to 90 seconds.

RETUNE S mode

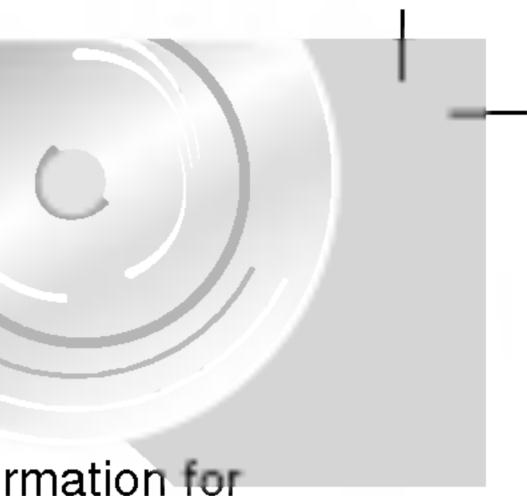
The waiting time for starting TA search or PI search is selectable. Retune time is set to 30 seconds.

BEEP 2ND mode

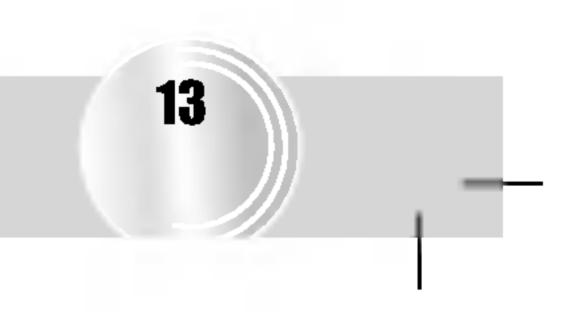
The beep is only generated when key is pressed long (1 sec)

BEEP ALL mode

The beep is generated when every key is pressed.







Listening the

- 1. Press PWR/MU
- When you sel
- 2. Press FUNC. b
- 3. Press BAND bu - Press **BAND** FM2, FM3, M\
- 4. To perform seel
 - The tuner will enough for go
 - You can cance with quick pres
- 5. To perform mar second. And the
 - The frequencie

NOTES

 When the selected indicator will light.

Auto Search

This function lets broadcast frequer

- 1. Press **FUNC.** b

14

Radio Operation

e radio stations	Ν
UTE button to turn the unit on.	•
lect a source the unit is turned on.	
outton to select the tuner.	•
outton to select a band.	
button until the desired band is displayed, FM1, W(AM).	P Te
ek tuning, press the Id / 🕨 with quick presses.	Т
I scan the frequencies until a broadcast strong	Р
ood reception is found.	n
el seek tuning by pressing either the IM / IM	Т
esses. And tuning aroos and hold the lat / NL for t	р
nual tuning, press and hold the IM / IM for 1 nen press the IM / IM with quick presses.	S
ies move up or down step by step.	
	Y
ed frequency is being broadcast in stereo, "(((•)))"	W 1
	2
Memory	2
you automatically store the six strongest	3
ncies. Nutton to coloct the tunor	Ň
outton to select the tuner.	•

2. Press **AS/PS** button on the front panel for about 1 second.

- The scanning starts from the currently displayed frequency to higher frequencies and stops when 6 stations have been

preset or the receivable frequencies have been scanned once.

NOTES

- The presetting is not performed if there is no station to be tuned in. When the automatic presetting is performed, the previous preset stations are automatically erased.
- To stop the automatic presetting, press BAND or AS/PS button.

o scan the preset stations

Press AS/PS button on the front panel. fo stop the scanning, press AS/PS button.

fo tune in the preset stations

Press BAND to select the desired band and press the desired umber buttons (1-6).

The number of the preset station button is displayed and the preset station is received.

Storing and recalling broadcast frequencies

You can easily store up to six broadcast frequencies for later recall vith the touch of a button.

- Select the desired frequency
- Press one of the preset station buttons (1 6) for more than 1 seconds. The number of the pressed preset station button is displayed.
- . Repeat steps 1 and 2 to preset other stations.

VOTES

As F1, F2, F3 have the same frequency range, up to 18 station can be preset for FM.

 When a station is preset on the preset station button on which another station of the same band has already been preset, the previously preset station is automatically erased.





The unit can play CD-RW discs. Before playing M Recordings on page

Operation with Audio CD, MP3 Disc

Idio CD and MP3 Disc	F
	1
MP3 formatted recordings on CD-ROM, CD-R or	2
P3 recordings, read the notes on MP3 age 18.	Ν
age ro.	•
	S
	F

Pause CD MP3

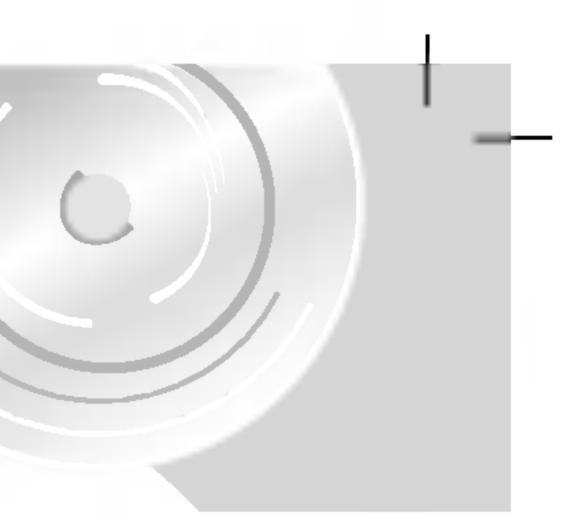
- I. Press PLAY/PAUSE (►/II) during playback.
- 2. To return to playback, press PLAY/PAUSE (>/II) again.

Moving to another Track CD MP3

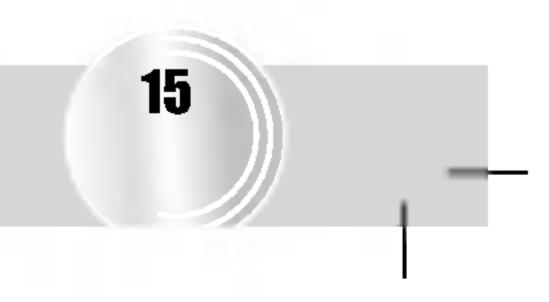
- Press the or to return to the beginning of the current track.
- Press the I twice briefly to step back to the previous track. (If playing times is in less then 3 seconds and then this function is not operated.)

Search CD

Press and hold the Image: Image: For about 1 second during playback and then release at the point you want.







Repeat

. Press RPT dur The "RPT" appea (It is played repea

2. Press RPT aga The "RPT" disapp (The repeat mod

Random

- 1. Press SHF duri The "SHF" appea (It is played redor
- 2. Press SHF aga The "SHF" disap (The random play

NOTE

 During random pla the previous track





aring playback. CO MP3 ears in the display window. eatedly the whole music within disc) pain. ppears in the display window. de is cancelled.) ring playback. CO MP3 ears in the display window. omly the whole music within disc) pain. ppears in the display window. ayback is cancelled.) playback, if you press K button, you won't go back to ck.		Μ
ears in the display window. omly the whole music within disc) ain. uppears in the display window. ayback is cancelled.)	in the display window. edly the whole music within disc) ars in the display window.	D 1(tra 1.
ayback is cancelled.)	s in the display window. y the whole music within disc)	2.
	ears in the display window.	IC W in
	back, if you press 🖊 button, you won't go back to	w di P

MP3 TRACK -10/+10

Durning playback, press the -10 button to go back to the previous 10th track, and press +10 button to go forward to the next 10th rack.

ntro scan

- . Press SCAN. CD MP3 The "SCAN" appears in the display window. (It is played first 10 seconds of the whole music within disc)
- . Press SCAN again. The "SCAN" disappears in the display window. (The intro scan is cancelled.)

ID 3 TAG MP3

When playing a disc containing information, you can see the nformation (ID3 TAG, Title, Artist and Album) in the display window. If there is no information "NO TEXT" will be shown in the display window.

Press twice the **DISP** button during MP3 file playback.



Symptom

Power doesn't tu The unit doesn't operate.

Playback is not possible.

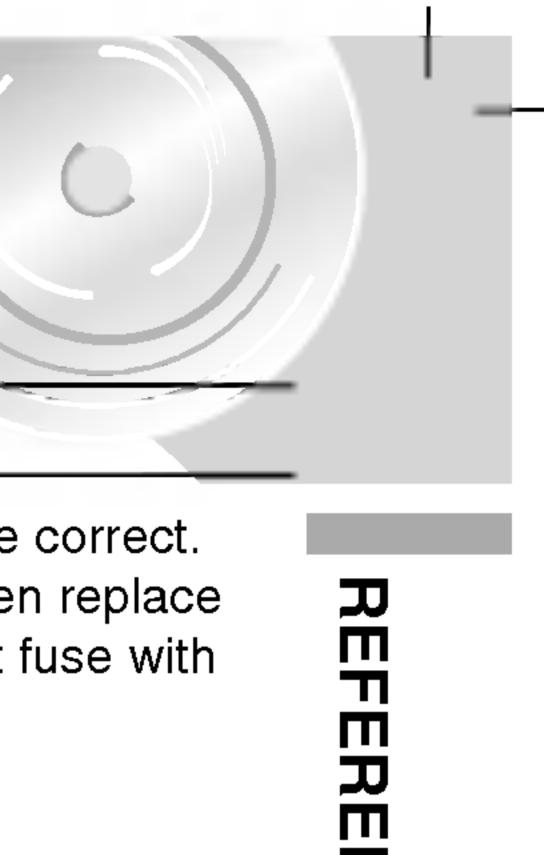
No sound are hea The volume level not rise.

There's no sound

There's audio skip

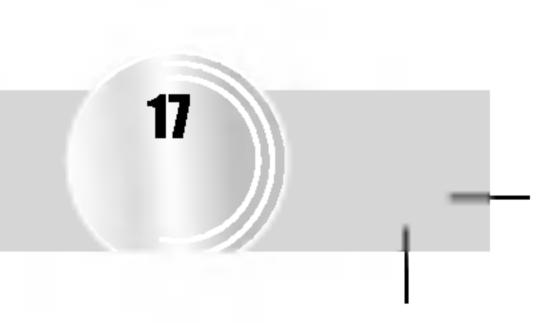
m	Cause	Correction
turn on. 't	 Leads and connector are incorrectly connected. The fuse is blown. Noise and other factors are causing the built-in 	 Confirm once more that all connections are of Rectify the reason for the fuse blowing, then the fuse. Be very sure to install the correct furthe same rate. Turn the unit off and then on.
	microprocessor to operate incorrectly.	
	 The disc is dirty. The loaded disc is a type this unit cannot play. 	 Clean disc. Check what type the disc is.
eard. el will	 Cables are not connected correctly. 	 Connect the cables correctly.
nd.	 The volume level is low. 	 Adjust the volume.
kipping.	 This unit is not firmly secured. 	 Secure this unit firmly.

Troubleshooting



Ζ

CE



Specifications

MP3 Disc compatibility with this unit is limited as follows:

Customers should also note that permission is required in order to download MP3 files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

P/NO: 3834RR0029X

1. Sampling Frequency / 8 - 48kHz (MP3) 2. Bit rate / within 8 - 320kbps (include VBR) (MP3) 3. CD-R/CD-RW physical format should be "ISO 9660" 4. If you record MP3 files using the software which cannot create a FILE SYSTEM, for example "Direct-CD" etc., it is impossible to playback MP3 files. We recommend that you use "Easy-CD Creator" which creates an ISO9660 file system.

ieneral
utput Power
ower Source
peaker impedance
M tuner
requency Range
sable sensitivity
IW(AM) tuner requency Range
<u>D</u> requency Response
Design and specifications are subject to change with

4CH(Max.) . .DC 12 V \ldots 4 Ω egative type Front Panel)1.8 kg 07.9MHz or .5-108 MHz55 dB1.0% ...12 dBµV

2-1620 kHz45 dB1.0% . .32 dBµV

- 20000 Hz70 dB0.15%

hout notice.