

# Car CD///IP3 Receiver

OWNER'S MANUAL MODEL: LAC-M2500R







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

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INTRODUCTION





### CAUTION

ECTRIC SHOCK DO NOT OPEN



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



expose Warning: To reduce the risk of fire or electric shock, do not moisture. this product to dripping or splashing water, rain,



### 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.



Caution: Protect this product from moisture.



Caution: memory If the battery is disconnected or discharged, the preset will be erased and must be reprogrammed.

manual carefully To ensure proper use of this product, please real please read this owner's

### Symbol Used in this Manual



Indicates

hazards likely to cause harm to the unit itself

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



Indicates special

notes

and operating features.

other material damage.

Indicates tips and hints ਰ੍ਹ making the task easier.

### Notes 9 S Discs

### Handling Discs

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

stick

the



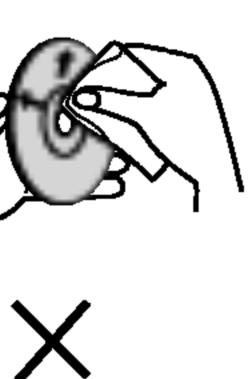


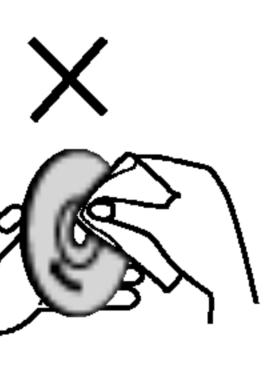
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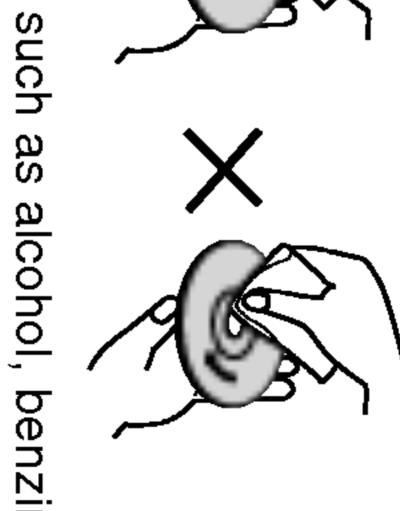
Storing Discs
After playing, store the disc in its case. Do not exp direct sunlight or sources of heat and never leave exposed to direct sunlight. in its case. Do not expose <u>⊒</u>. a pa parked disc car

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



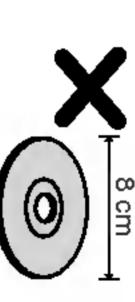






Do not use strong solvents such as alcoh mercially available cleaners, or anti-static vinyl records. spray intended benzine, ਨ੍ਰ older com

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

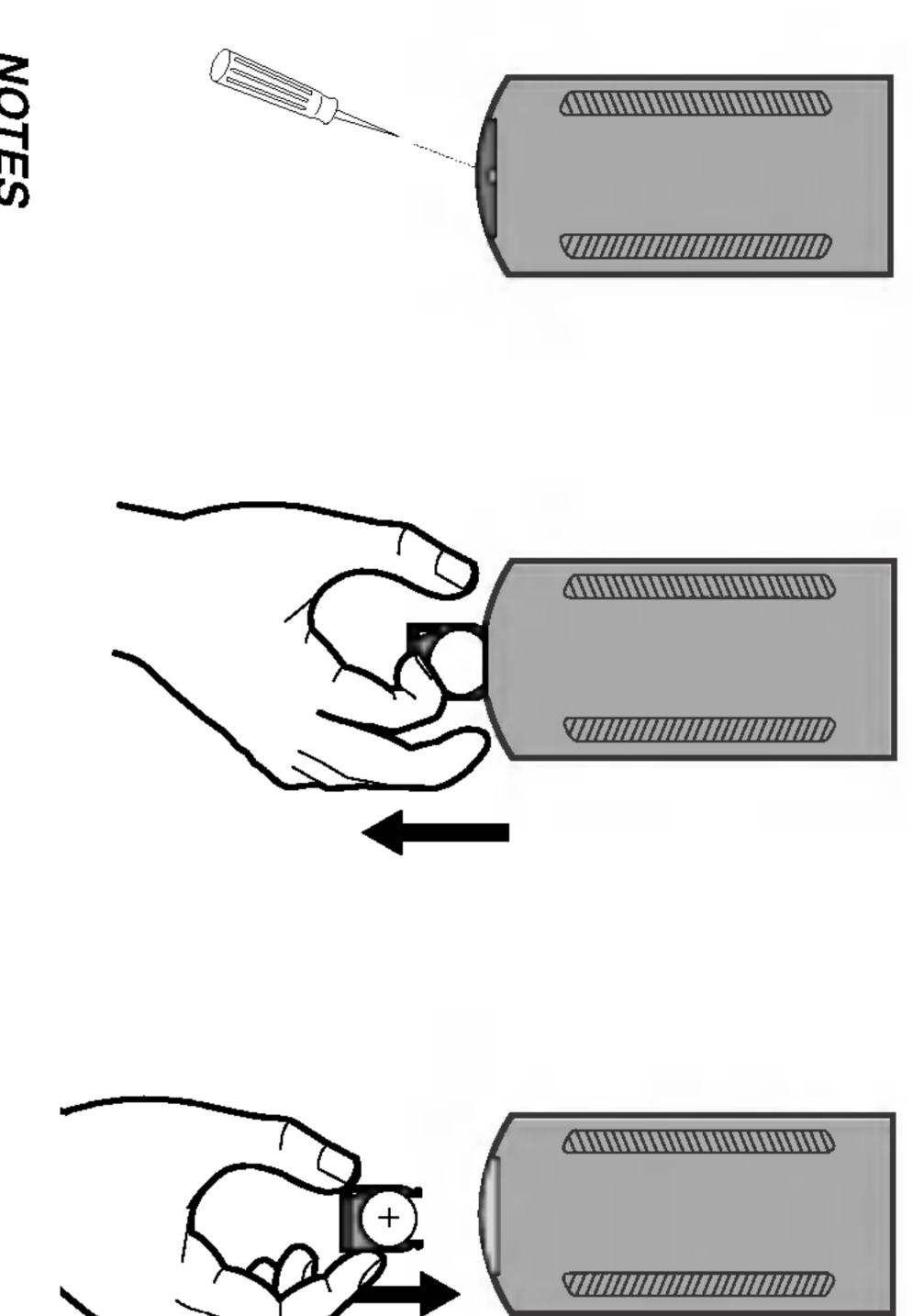




### Ŧ and care the remote control (OPTIONAL)

### Installing the Ittery

pencil minus Pull the po outw าt pen ard 음 and 크. the the insert the back proper 으 the battery remote ⊗ith control the snld ≶<u>i</u>th  $\widehat{\pm}$ 



- 2025 (3V) lithium battery.
- battery ≕: not used for long.
- disassemble, dispose of the battery in fire.
- handle tools.
- the battery with metallic materials
- attery leakage, wipe the remote control

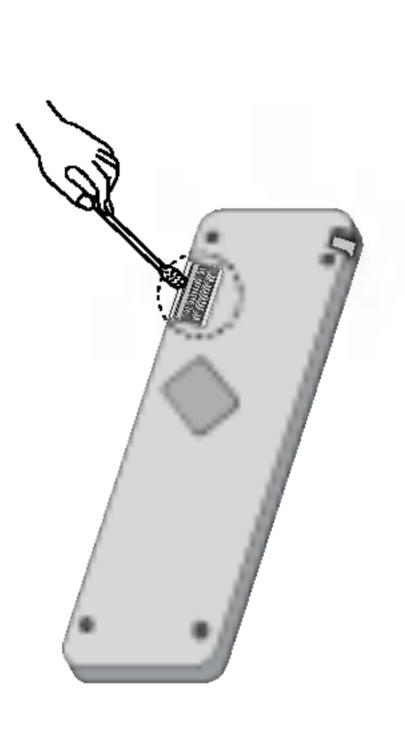
# Using the remote control (OPTIONAL)

operate. Point the remote control in the direction of the front panel to

### VOTES

- The remote control may not function properly in direct sunlight.
- Do not store the remote control in high temperatures or sunlight.
- jammed under the brake or accelerator pedal. Do not let the remote control fall onto the floor, where it may become

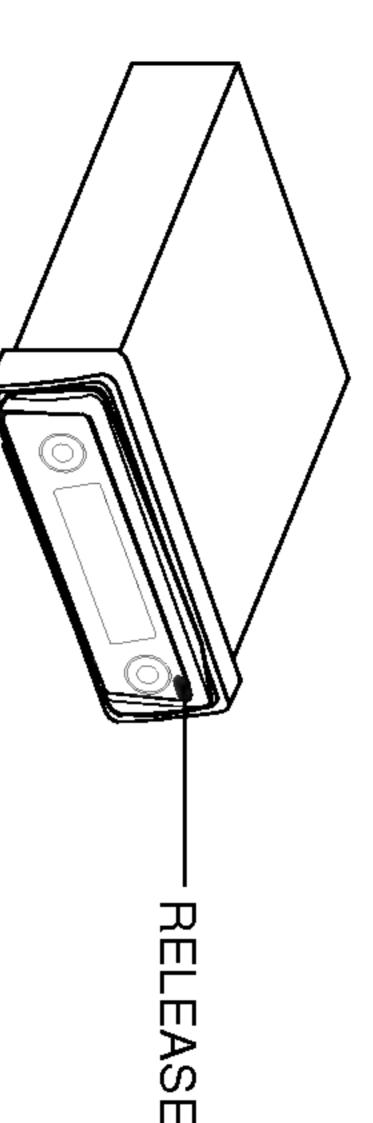
- **landling the Unit**This unit is designed to be operated on a 12 volt DC negative ground electrical system only.
- When replacing the fuse, be sure to use the fuse who age rating is identical. Use of a fuse with higher ampe cause serious damage to the unit. whose amperrage may
- Periodically wipe the contacts on the back of the front cotton swap moistened with alcohol. panel with



# Protecting your unit from theft

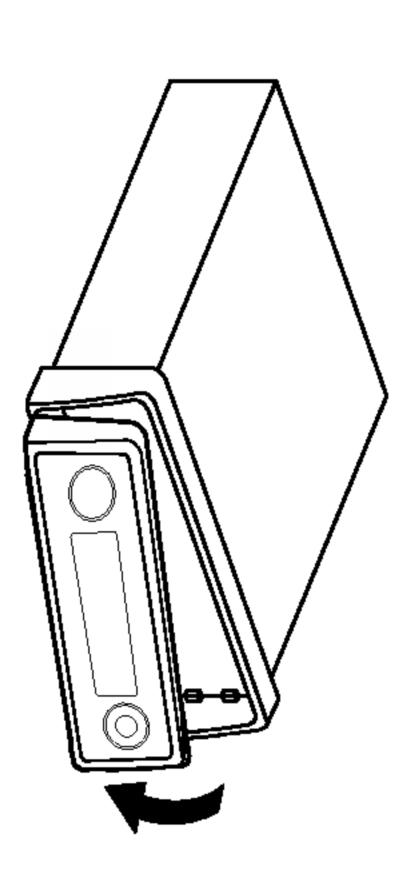
the protective case provided to discourage theft. The front panel can be detached from the head unit and stored in

1. Press RELEASE to open the front panel.

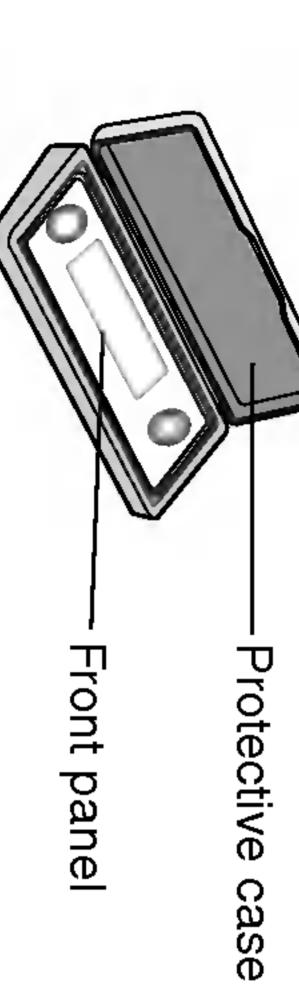


outward. Grip the left side of the front panel and pull it gently

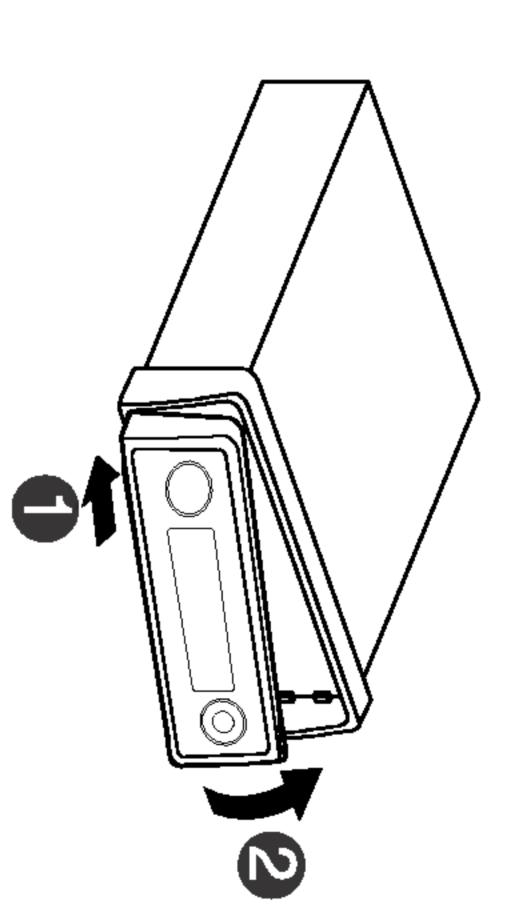
not to grip it tightly or to drop it.



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



# front panel

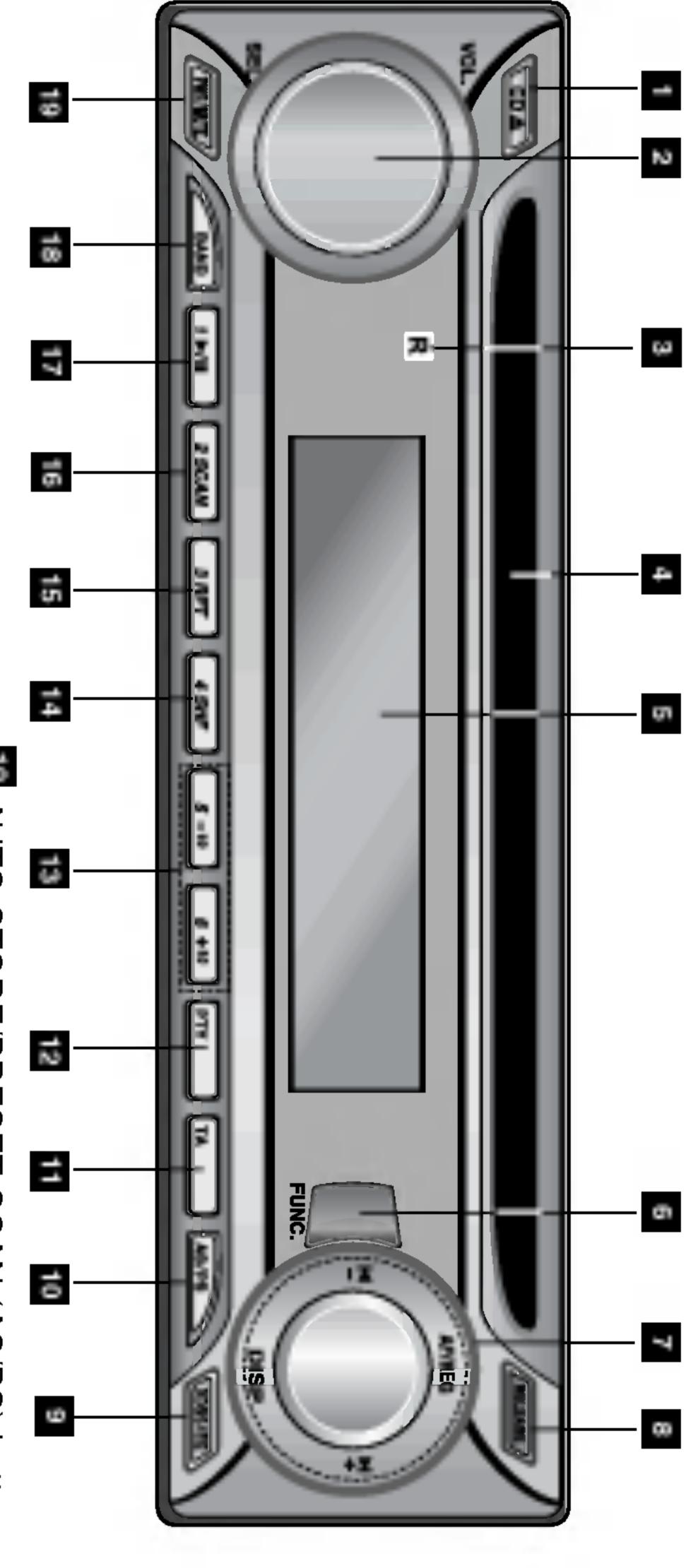


INTRODUCTION

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



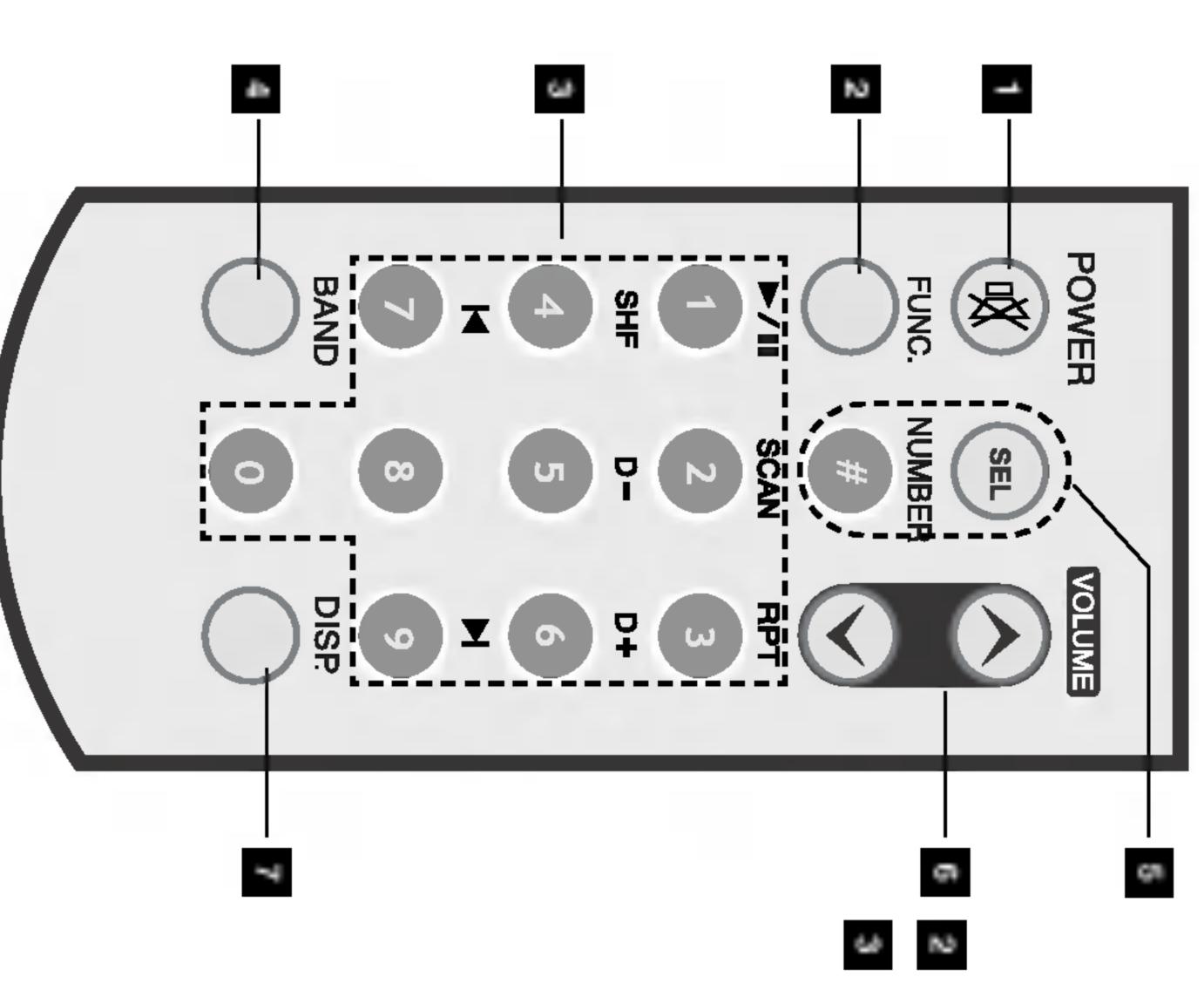




- ) button
- NOB
- JP/DOWN dial
- √ (SEL.) button
- REMOTE **NSOR (OPTIONAL)**
- CD disc
- MDOW
- (FUNC.) button
- E FREQUENCIES/REGIONAL (AF/REG) button
- JNE (-/+) button ↓) button
- )ISP) button
- button
- XDSS (EQ/XDSS) button

- AUTO STORE/PRESET SCAN (AS/PS) button
- TA button
- PTY button MP3 TRACK -/+10 (D-/+) button

- SHUFFLE (SHF) button
  REPEAT (RPT) button
  INTRO SCAN (SCAN) button CD PL AY/PAUSE (►/II) button
- BAND button
- POWER (PWR) / MUTE button
- \coprod , 💶 , 🔟 Preset Station buttons.



POWER/MUTE (尽) Switches the unit ON

SKIP/SEARCH ( M/

Backward or forward

search playback.

- and OFF. Switches
- sound from the speaker. Press to mute the
- FUNCTION (FUNC.) bu
- 0-9 number buttons
- CD PL
- Pauses playback temporarily.
- Plays the **REPEAT**

- Plays tracks repeatedly. SHF
- Plays tracks in random

- tton
- Preset Station buttons
- Starts playback. AY/PAUSE (►/I
- the
- first 10 secor
- (RPT)
  - nds of all track.

- Selects three FM and MW (Al BAND
- SEL settings.
- Enters the audioNUMBER (#)
- YOLUME (♥ /♠)
  Adjusts the volume
- volume
- DISPLAY (DISP.) Changes the display.

ІИТВОРИСТІОИ

previous track.

DISC SELECTOR (D-/+) but

(Optional)

Go to next track.
 Returns to beginning of current track or go to

### nstallation

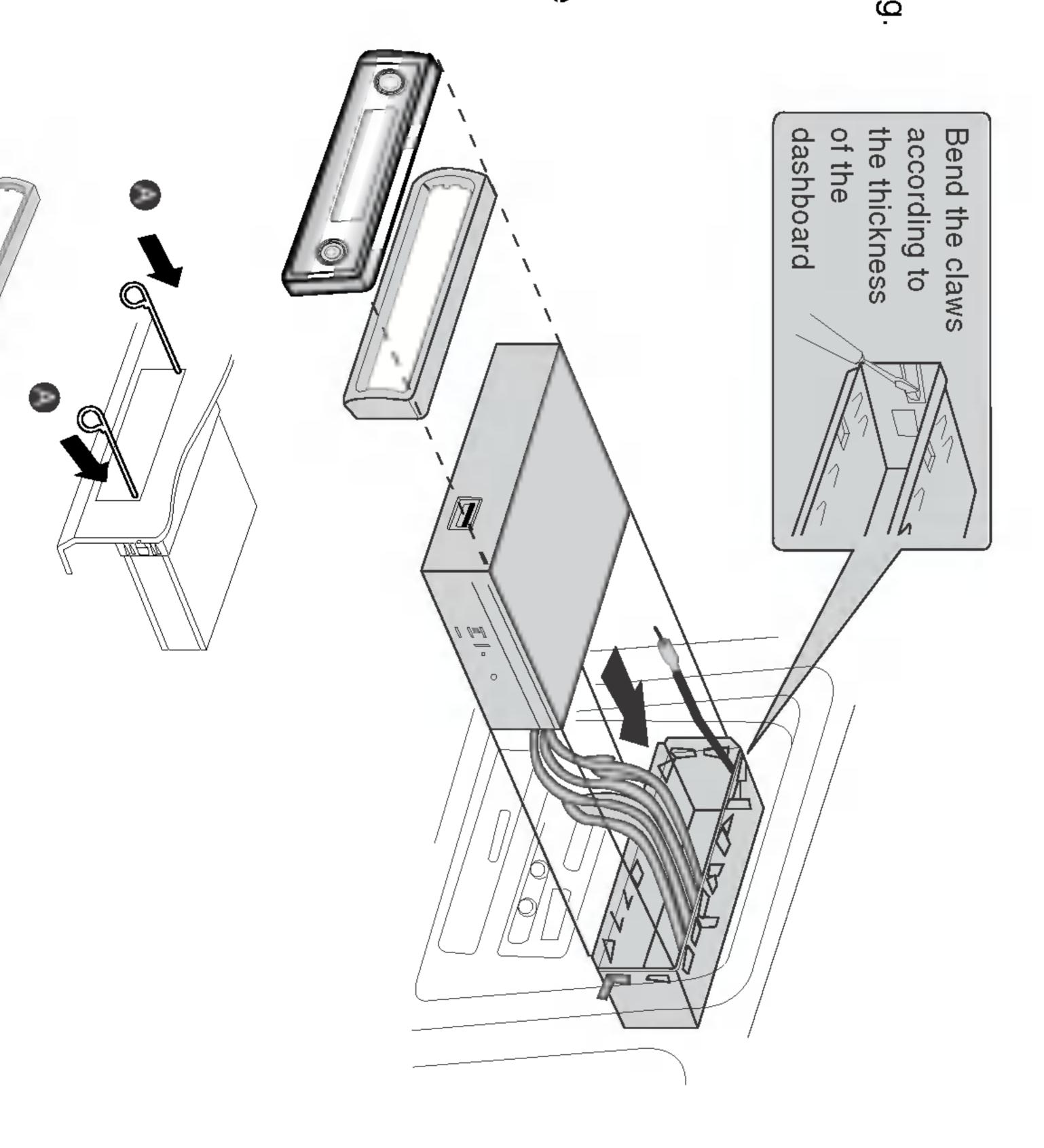
### Basic Installation

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

- Remove the existing receiver unit.
- Make the necessary connections.
- 3. Install the installation sleeve.
- 4. Install the unit in to 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.



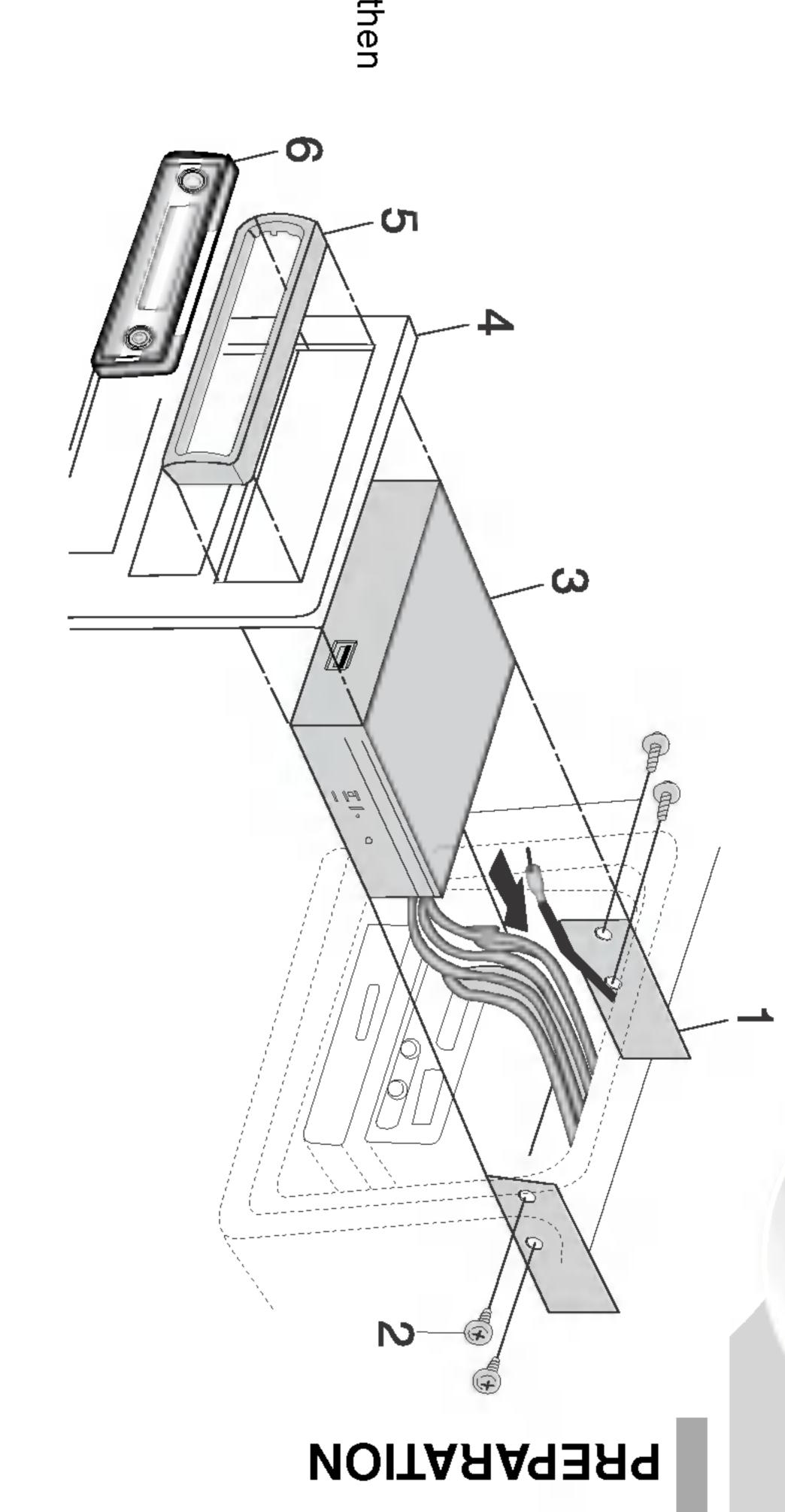
# When removing the unit from the installation sleeve

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

- Remove the rear supporter from the unit.
- 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.

## O-DIN Installation

- Slide the unit into ISO-DIN frame.
- Install screws removed from old unit.
- Slide the unit and frame into dash opening.
- Install dash panel or adapter plate.
- Install trim ring to the unit.
  Install faceplate by fitting right edge into position then pushing left edge closed.

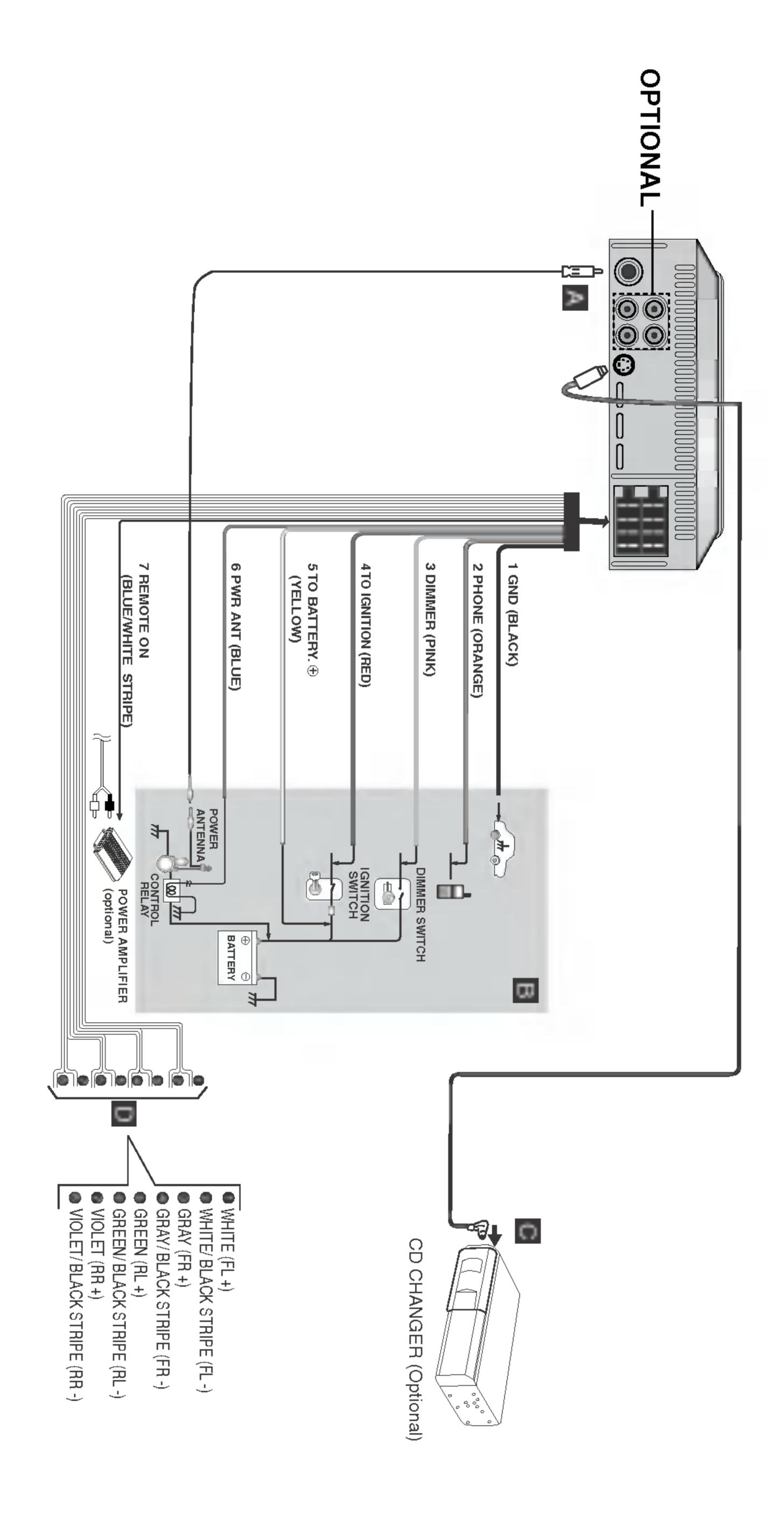


Installatio



# Connecting to Car

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



### From antenna

### To the wiring

1. BLACK of vehicle Colors of leads

This lead is for connection to the

Ground.

ORANGE This lead is for connection to the phone line.

PINK: This lead is for connection to the Dimmer line

RED:

which the power is supplied when the ignition

This lead is for connection to the terminal from

switch is set to ACC.

This lead is for connection to the Battery

always supplied. (back-up) terminal from which the power is

To AUDIO IN

To AUDIO IN

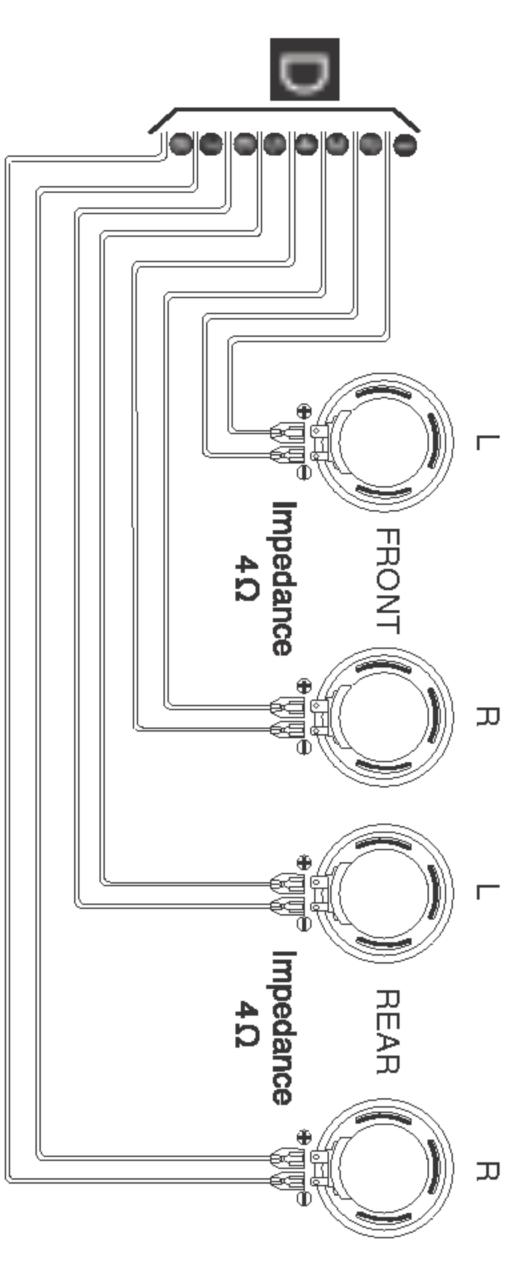
**Amplifier** 

**BLUE/WHI** This lead is lead is for connection to the **TE STRIPE**: This lead is for c amplifier remote lead is for connection to the power ٩ ص antenna.

### Connect the CD changer

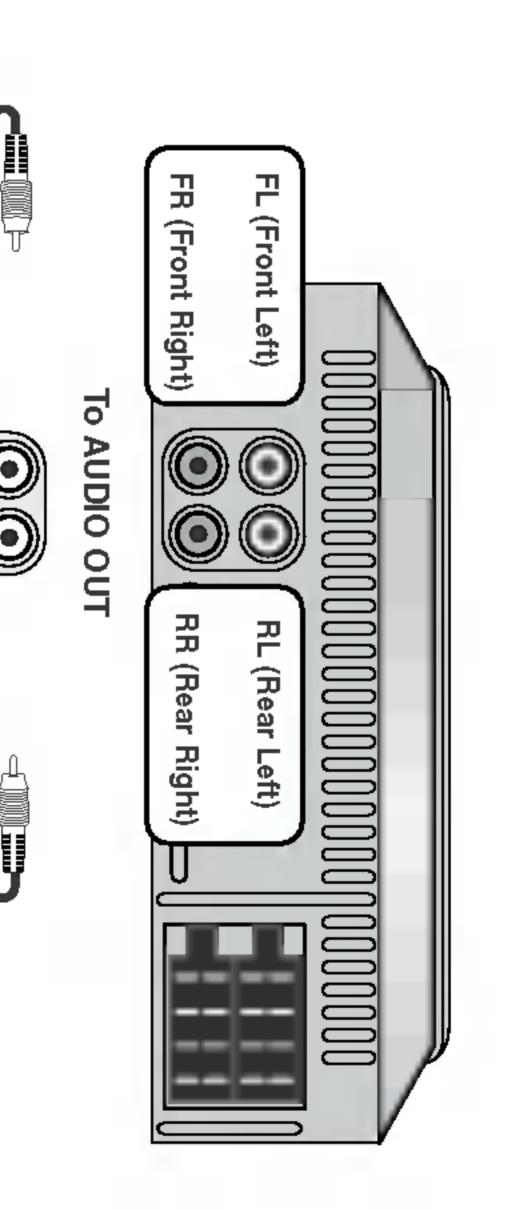
- Your car receiver works as control unit for a later. CD changer
- which you can buy, if not yet done, The suitable cord shown on the sc together with the cord shown on the scheme will be provided the CD changer.

### D Speaker nections



### Connecting to Auxiliary Equipment

Connect the AUDIO INPUT connector of Auxiliary Equipment. **AUDIO OUTPUT** connector of this unit t o the



**NOITARA93R9** 

### Iurning the unit on

Press PWR/MUTE POWER/MUTE (感) on the remote control to turn the unit on. or any other button on the front panel or

### Turning the unit off

- to turn the unit off. Press PWR/MUTE on the front panel for more than 1.2 second
- Press POWER/MUTE (感) 1.2 second to turn the unit off. on the remote control for more than

### Selecting source

You can select a source you want to listen to.

Press FUNC. to select a source.

Tuner Press FUNC. CD repeatedly to switch between the following sources: CD Changer (optional) → Tuner...

### NOTE

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

# Adjusting the volume

Use VOLUME to adjust the sound level. Rotate **VOLUME KNOB** on the front panel to increase the volume. or decrease

decrease the volume. Press VOLUME (◈ /◈) on the remote control to increase or

# Checking the clock

more than 1 second. You can see the clock pressing DISP. on the remote control for

### NOTES • If the u

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

# ustment

### Using the EQ (Equalizer)

acoustic characteristics as desired. The equalizer lets you adjust the equalization to match car interior

any time. There are 3 stored equalizer curves which you can easily recall at

Here is list of the equalizer curves:

- Rep
- roduces the acoustics of pop music. Reproduces the acoustics of orchestral music.
- EQ POP: EQ CLASS
- Press
- Press equalizer. CK: Reproduces the acoustics of rock music. **EQ/XDSS** on the front panel to select the equalizer. **EQ/XDSS** repeatedly to select among the following

POP CLASSIC -→ ROCK -→ FLAT (NO display) → POP....

### MUTE

- Press PWR/MUTE [POWER/MUTE (域 )] to cut the sound.
- To cancel it press PWR/MUTE [POWER/MUTE (啾 )] again.

# SELECTION (SEL) Button

\_

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

**NOITARAGO** 

Turn left or right CONTROL UP/DOWN ( or press ( **⋄** / **⋄** ) on the remote control) to adjust the sound quality. OLUME

 $\dot{\wp}$ 

	Turn right	Turn left
<i>₩</i>	Increase the volume level.	Decrease the volume level.
3 <i>B</i> 8	Increase the bass level.	Decrease the bass level.
EBI	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).
FAI	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** on mode.

XDSS (Extreme Dynamic Sound System)

Press and hold EQ/XDSS button to reinforce treble, bass round effect. and sur-

# peration

### Abo 5 **RDS**

nals translating ROS These Name Name (PS), A list of program Type(PTY), Traffic Announcement(TA), Clock Time(CT), Radio Text(RT) together (Radio codes these Data ese signals and putting the information on the displacent contain the following informations. Program Service Data System) is a method for sending information sigwith the transmitter signals. Your tuner is capable of

### RDS Display )ptions

on the types tion is the mation in addition station name, RDS in the first front pane system tuned. sequ l enables you to cycle through the various data In normal RDS operation the display will indicate is capable of transmitting a wide variety of inforbroadcast network or call letters. Pressing **DISP** to the initial call sign that appears when

(C T \*FREQUEN CY-→PTY-**≯**RT\_ →PS)

- the (Time actual time controlled by the channel): Enable the unit to receive time and show it on the display window.
- the display (Program type recognition): The program type is shown on Wind JOW.
- played on (Radio the text display recognition): The radio station's information is diswindow.
- the PS display window. (Program Service name): The program title is displayed on

### NOTE

Some not being transmitted, the Display Window will show a NOCLOCK, PTY NONE, RT NONE, Frequency message. additional feature RDS statio ns may not choose to include some of these s. If the data required for the selected mode is

- regional program operation
  AF (Alternative Frequencies for the actual program)
  TP (Traffic Program Identification)
  TA (Traffic Announcement Identification) PI (Program Identification) contains additional information for
- to use their services like traffic announcement etc EON (Enhanced Other Networks) Information on other programs

### NOTES

- RDS is only available for FM reception.

  The PS function allows station names to be displayed in clear let-
- Network Tracking reception uses the PI and AF codes. The PI code identifies the country, area and broadcast system. AF lists up which reception frequencies at the area are broadcasting th same program and automatically changes to the best reception quality offering frequency without the need to interrupt the probroadcasting the
- gram by a seek function.

  Traffic programmes and announcements can be automatically received using the TP/TA features.

  EON-TA: With activated EON function traffic announcements cabe heard when listening programs which do not broadcast such afterwards to the previous listened program. information by the selves. To do this, the tuner changes to all er program only for announcements, returning automatically to anoth can
- programs who are supporting this service. program type selection enables to select the tents of

# RDS Operation

# STATION NAME DISPLAY

The station name is displayed automatically when a RDS station is received.

# **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.

• Mode 1 (AF: on/REG: on):

Network-Tracking is activated. Regional mode is engaged (AF function changes between stations broadcasting the same program at all times). Regional mode shall be selected only in case of driving in certain local areas.

Mode 2 (AF: on/REG: off):

Network-Tracking is activated. AF function changes between stations belonging to the broadcast net-

work being received.

Note: A station broadcasting a different regional program in the same network may be received at certain times. This can happen only in case of listening to regionalized programs; in mode 2 this is no malfunction!

Mode 3 (AF: off):

Network-Tracking is deactivated. Only station name will be displayed. In case of poor reception no alternative station can be used!

# Network-Tracking reception

When you are driving in an area where RDS data is broadcasted by stations in a network, following procedures are operated in modes 1 and 2 if a RDS station is tuned:

modes 1 and 2 if a RDS station is tuned: A flashing of the AF indicator in the LCD display shows, the processor is still collecting the complete set of RDS data of this program. Whenever the flashing stops, all data are complete and the RDS functions of this unit can be used as far as they are supported by the program.

If AF functions are activated: When the reception quality drops, the tuner automatically changes to another station in the network, broadcasting a better reception quality, using the PI and AF codes. This mean: wherever you drive, you can continue to listen to the same programme without interruptions.

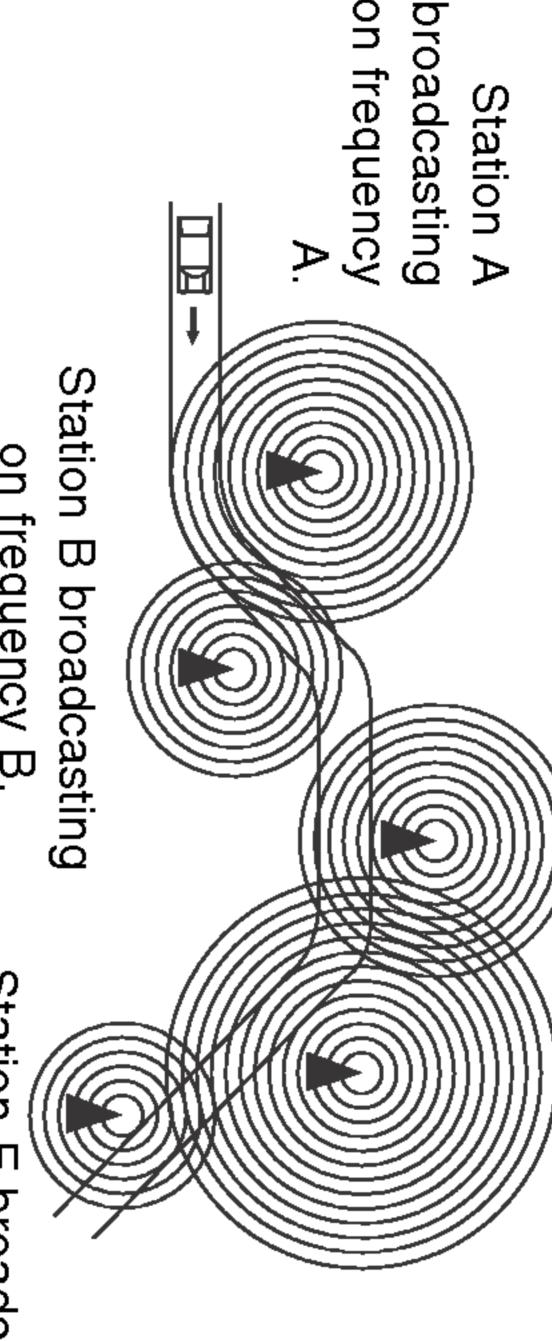
PI SEEK procedure: If the reception quality drops too much without finding a better quality alternative frequency from the AF list, after a while the PI SEEK function starts (Display: 'SEEK-PI'). The tuner is searching a station of the same program not regarding the AF list, which has the same PI code.

# Operation

70 same progra m can be received on different frequencies Station  $\circ$ broadcasting Station D

on frequency C.

on frequency broadcasting Ō



# on frequency B.

on frequency E. Station E broadcasting

### RDS data ₫ preset buttons

is received with a sufficient quality, the receiver will tune to that frequency. When the reception quality is not sufficient for good recep-When a preset button is pressed, if the station with that frequency gram is selected). the same program which is broadcasting the best reception quality tion, referring to its AF list, the receiver will change to a station of the AF list, PI-seek tuning starts (a station broadcasting the same program contents may not be received when mode 2 (REG off) is selected and a regional pro-If a sufficient quality station cannot be found in automatically.

# LOCAL/DX selection in EON-TA mode

good sound stations, seconds, causes When TA button 5 set TA button to the EON-TA m , causes only local and strong stations to be received. button is pressed for more than 2 seconds, it receives including distant and weak ones. It is recommended to quality. the local position to receive local stations with ode, press the TA button for more than 2

mode

follow.

### REG FUNCTION(Regional)

Only available in certain countries)
 When the AF button is pressed for

- When the AF button is pressed for more than 2 seconds, the indication "REG" appears on the display and the radio activation of the contraction of the search for regional programmes being transmitted same broadcasting station. by the activates
- programmes. When the REG function is enabled, you can only hear regional
- programmes by means of the alternative frequencies.
  The regional function covers restricted areas of transmission, When the REG function is enabled, you can also lister n to various
- hence it is advisable to use it only for short distances.

# PROGRAM TYPE FUNCTION

following procedure J Press a certain program can be operated. type out of the reception band,

	<u> </u>	
1. Press BAND to	No	Music group
select in FM mode.	_	Pop M, Rock M
2. After, pressing <b>PTY</b>	Ы	Easy M, Light M.
	ω	Classics, Other M
activated as salection	4	Jazz, Country
asch mode	ĊΊ	Nation M, Oldies
	.თ	Folk M
aroun yearch off	No	Speech group
(	_	News, Affairs, Info
<ol><li>Press one of the</li></ol>	ю	Sport, Educate, Drama
PRESET (1-6) button	ω	V
shortly. Each time	4.	Weather, Finance, Children
this button is	Ċ٦	Social, Religion, Phone In

	in FM mode. ressing <b>PTY</b> one by one ed as selecting node.	υ 4 υ σ - υ ω 4 υ
<b>→</b>	s selecting	. 4 r.
σ ω 4 ω 4	o—+speech	No
α 4 το ο	מוכו	<u></u> -
α ω 4 τ. ο	ne of the	Ы
4. rù a	T (1-6) button	ω
დ.	Each time	4.
6.	tton is	D
	d, the display	6.

### NOTES

- the program contents do not match with the selected program the broadcast station. type this is no fault of the this unit processor but it is desired by The Program Type data is supplied from the broadcast station.
- Some programs do not support the PTY function none of the receivable stations in the FM band the PTY selected function can be switched off. program type, another program type can be selected or function with data. support the

# RECEPTION FREQUENCY DISPLAY

3 sec. The new reception frequency will be shows AF function decides to RDS signal, As long as there the actual here was no RDS data reception, the LCD display ctual reception frequency, After PS data was read from steadily the station name (PS) is displayed unless the decides to receive another frequency. In that case, for shown automatically.

### RDS MODE Adjustment

- selecting mode Press the SEI button for more than  $\wp$ seconds it is activated
- After, each mode. pressing **SEL** button one by one activated as

і'n

Turn left or right CONTROL UP/DOWN (or press VOLUME (&

/ 
 on the remote control) to select the indicator.

### TA SEEK mode

When 5 sec, information. which has no same sec, the newly tuned station the receiver retunes to Pl as the last station's, but has does not receive next station 뒴 infor the mation

### Τ ₽ ARM mode

When When a newly tuned station double beep sound is ouput. PI SOUND has no information

If the sound of a station the receiver mutes the second of the station of the station of the situation described of the situation described of the situation described of the situation of the station of **DND mode** sound of a station with sound different PI is d after 1 second t PI is heard second.

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

### RETUNE L mode

The waiting time fo Retune time is set for starting TA set to 90 seconds search or search <u>დ</u>. selectable.

### RETUNE S mode

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

### BEEP 2ND mode

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

### BEEP ALL mode

The beep is generated when every key <u>က</u> pressed

# Radio Operation

### stening th e radio stations

- button to turn Press POWER/MUTE (以) [PWR/MUTE the unit on. on the front panel]
- When you select a source the unit is turned on.
- Press **FUNC.** button to select the tuner.
- ω Press BAND button to select a band.
- FM2, FM3, MW(AM). Press BAND button until the desired band is displayed, FM1,
- To perform seek tuning, press the ► /► with quick presses.
- enough for The tuner will scan the good reception is found. frequencies until a broadcast strong
- with quick presses You can cancel seek tuning by pressing either the **▲** •
- ond. And then To perform manual tuning, press and hold the ► / ► ond. And then press the ► / ► with quick presses. press with quick presses. for 1 sec-
- The frequencies move up or down step by step.

indicator will light. When the selected frequency is being broadcast in stereo, "(((•)))"

# Storing and recalling broadcast freque ncies

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

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

- NOTES
   As F1, F2, F3 have the same frequency range, up to 18 station preset for FM. can be
- station is automatically erased. station of the same band has already been preset, the previously preset preset station button on which another

# **Auto Search Memory**

broadcast frequencies. This function lets you automatically store the six strongest

- Press FUNC. button to select the tuner.
- 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 When the automatic presetting is performed, the previous

not performed if there is no station to be

To stop the automatic presetting, press BAND or AS/PS button.

preset stations are automatically erased.

To scan the preset stations

Press AS/PS button on the front panel.

To stop the scanning, press AS/PS button.

To tune in the preset stations

Press BAND to select the desired band and press the desired number buttons (1-6) on the remote control. The number of the preset station button is displayed and the preset station is received.



# peration with Audio CD, MP3 Disc and CD changer

### Playing an Audio CD and MP3 Disc



CD-RW The unit can play discs. MP3 formatted recordings on CD-ROM, CD-R or

Recordings Before playing MP3 recordings, read the notes on MP3 on page

the To play track number with 0-9 number buttons. മ file d lirectly, press NUMBER (#) button and then press

### laying 9 CD changer (OPTIONAL)

### layback Setup CDC

- this CD Connect the t the CD Changer connector of this unit to connector of Changer on page 12.
- source Audio system: connected to the unit. Turn on the audio system and select the input
- Press PWR/M UTE or POWER/MUTE (域) to turn the unit on. changer function pressing FUNC. repeatedly.
- Select the CD
- Insert a disc nsert a disc you want to play into the magazine. Playback starts automatically.

### Moving ö another Disc

Press back to the U (+/-) previous disc. briefly during playback to go to the next disc or step

### Pause (







\_

 $\mathcal{N}$ 

Press **PLAY/PAUSE (▶/II)** during playback.
To return to playback, press **PLAY/PAUSE (▶/II)** again.

### Moving to another Track ( G MP3 CDC

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

### Search

CDC



### peration ¥ith Audio CD, MP3 Disc and CD changer

### Repeat

ឆ Press RPT The "RPT" appears in the display window.
(It is blaved repeatedly the whole music within disc) during playback. CB

Ġ Press and hold RPT during playback. The "DRT" appears in the display window. within disc of CD changer)

Press RPT (It is played repeatedly the whole music

The "RPT" disappears in the display window. again.

# (The repeat mode is cancelled.)

Random ឆ Press The "SHF" appears in the display window. SHF during playback. G MР3

Ö Press and hold SHF during playback. CDC

(It is played redomly the whole music within disc)

(It is played redomly the whole music within disc of CD changer) The "DSF" appears in the display window

Press SHF The "SHF" disappears in the display again.

(The random playback is

cancelled.)

window.

### NOTE

previous track During random p layback, if you press button to don't go back to the

### MP3 TRACK -10/+10

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

### For your reference

### **Auto Loading**

When the disc is ejected by pressing **CD**♠ during playbe loaded automatically after 10 seconds unless you pu disc from the unit.

### ntro

CD MP3

CDC

Press **SCAN**. The "SCAN" appears in the display window.

(It is played first 10 seconds of the whole music within disc)

Press and hold SCAN. CDC

The "DSN" appears in the display window.
(It is played first 10 seconds of the whole music within disc CD changer)
Press **SCAN** again.

iО

The "SCAN" disappears in the display window. (The intro scan is cancelled.)

### 0 3 TAG MP3

When playing a disc containing information, you can see information (ID3 TAG, Title, Artist and Album) in the displ dow. If there is no information, "No Title, No Artist and No or "NO TEXT" will be shown in the display window. 6 Album" %in-

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

## peration ×ith MP3 Disc and CD changer

### Notes on MP3 Recordings

### About MP3

- ".mp3" file An MP3 file audio layer-3 file-coding scheme. We call files that have the ".mp3" file extension "MP3 files". audio data compressed by using the MPEG1
- than unit can not read an MP3 file that has .mp3". a file extension other

### MP3 follows: Disc compatibility with this unit is limited as

- Sampling Freq
- Bit rate /
- CD-R/CD-RW
- a FILE Q reator" which playback MP3 files. We recommend that you use "Easy-CD reator" which creates an ISO9660 file system. single session disc requires MP3 files in the first track. If ampling Frequency / 8 - 48kHz (MP3) it rate / within 8 - 320kbps (include VBR) (MP3) D-R/CD-RW physical format should be "ISO 9660" you record MP3 files using the software which cannot create FILE SYSTEM, for example "Direct-CD" etc., it is impossible
- files. If there disc ➣ ᄋ <u>က</u> you wish to playback MP3 files, format all the data in the no MP3 file in the 1st track, it cannot playback MP3 a new one.
- $\overline{\mathbb{D}}_3$ Title, 30 le etters Artist or Album names or less. should have a maximum

must incorporate ".mp3" extension e.g. "\*\*\*\*\*\*\*.MP3".

> certain technical standards in order to achieve optimal playback quality. There are many different types of recordable disc formats (including CD-R/CD-RW containing MP3 files). That require certain pre-existing conditions (see above) to insure compatible playback. This unit requires discs/recordings to meet

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

# Troubleshooting

Symptom	Cause	Correction
Power doesn't turn on. The unit doesn't operate.	<ul> <li>Leads and connector are incorrectly connected.</li> <li>The fuse is blown.</li> </ul>	<ul> <li>Confirm once more that all connections are correct.</li> <li>Rectify the reason for the fuse blowing, then replace the fuse. Be very sure to install the correct fuse with the same rate.</li> </ul>
	<ul> <li>Noise and other factors are causing the built-in microprocessor to operate incorrectly.</li> </ul>	• Turn the unit off and then on.
The unit does not operate correctly even when the appropriate remote control buttons are pressed.	<ul> <li>Battery power is low.</li> <li>Some operations are prohibited with certain discs.</li> </ul>	<ul> <li>Load new battery.</li> <li>Check using another disc.</li> </ul>
Playback is not possible.	<ul> <li>The disc is dirty.</li> <li>The loaded disc is a type this unit cannot play.</li> </ul>	<ul> <li>Clean disc.</li> <li>Check what type the disc is.</li> </ul>
No sound are heard. The volume level will not rise.	<ul> <li>Cables are not connected correctly.</li> </ul>	• Connect the cables correctly.
There's no sound.	• The volume level is low.	Adjust the volume.
There's audio skipping.	• This unit is not firmly secured.	• Secure this unit firmly.

BELEBENCE

# Specifications

Frequency Response	MW(AM) tunerFrequency RangeS/N RatioDistortionUsable sensitivity	FM tunerFrequency RangeS/N RatioDistortionUsable sensitivity	Output Power  Power Source  Speaker impedance  Ground System  Dimensions (W x H x D)  Net Weight (approx.)
		87.5-107.9MHz or 87.5-1	
		7.5-108 MHz or 65-74 MHz, 87.5-108 MHz	

specifications are subject to change without notice.

