clarion

Owner's manual
Mode d'emploi
Manual de instrucciones
Istruzioni per l'uso

XMD1

AM/FM CD PLAYER
WITH CD CHANGER CONTROL

COMBINÉ RADIO AM/FM/LECTEUR
DE CD AVEC COMMANDE
DE CHANGEUR DE CD

RADIO DE AM/FM Y
REPRODUCTOR DE DISCOS
COMPACTOS CON CONTROL DE
CAMBIADOR DE DISCOS
COMPACTOS

RADIO AM/FM E LETTORE CD CON
CONTROLLO CAMBIA-CD

English
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■ Indice

C-BUS | COMPACT disc DIGITAL AUDIO

1.PRECAUTIONS

1. When it is very cold in the boat and the unit is used soon after switching on the heater, the disc and the optical components may become fogged and not operate properly. Wipe fogged discs with a soft cloth. Fogged optical components will naturally return to normal when the unit is left for about one hour after which it will operate normally.

2. When the boat is traveling in the rough seas the sound may skip as a result of intense vibrations and shock.

3. This unit uses a precision mechanism. Even in the event that trouble arises, never open the case, disassemble the unit, or lubricate the rotating parts.

INFORMATION FOR USERS:
CHANGES OR MODIFICATIONS TO THIS PRODUCT WILL VOID THE WARRANTY AND WILL VIOLATE FCC APPROVAL.

2.CONTROLS

Source Unit
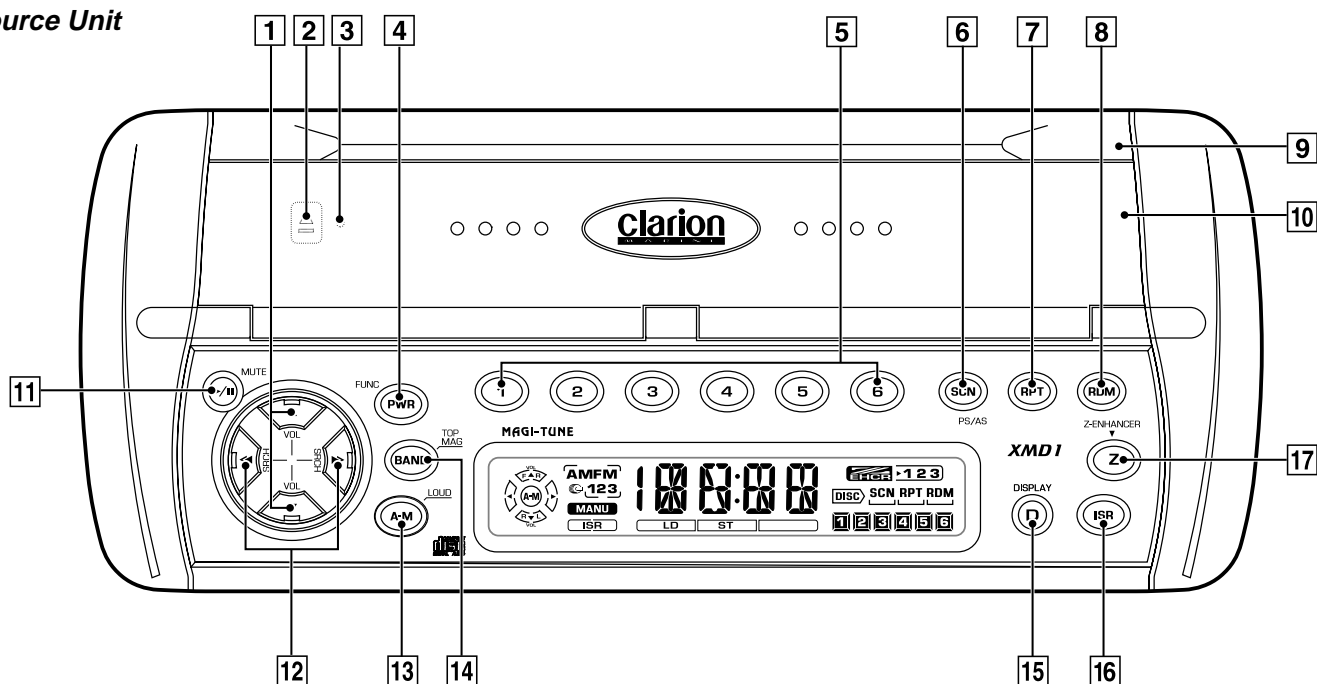
3.BUTTON TERMINOLOGY

1 VOL (Volume) up and Down Button

2 Eject (⏏) Button

3 Reset Button

4 Power Button
  FUNC (Function) Button

5 Preset Buttons (1 to 6)
  Direct Button (1 to 6)

6 SCN (Scan) Button
  PS/AS (Preset Scan/Auto Store) Button

7 RPT (Repeat) Button

8 RDM (Random) Button

9 Hook

10 Door

11 Play / Pause (▶/❙❙) Button
  MUTE Button

12 SRCH (Search) Left and Right (◀◀ and ▶▶) Button

13 A-M (Audio Mode) Button
  LOUD (Loudness) Button

14 BAND Button
  Top (Top Play) Button
  MAG (Magazine) Button

15 D (Display) Button

16 ISR (Instant Station Recall) Button

17 Z (Z-enhancer) Button

4.WIRED REMOTE CONTROL UNIT OPERATIONS

■ XMD1 following operations are enabled by remote control with the Wired Remote Control Unit M101RC (sold separately).

WIRED REMOTE CONTROL UNIT
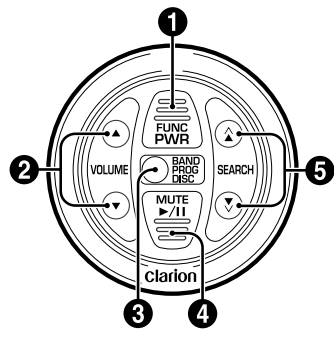
❶ PWR (Power) Button
  FUNC (Function) Button
❷ VOLUME Up (▲) / Down (▼) Buttons
❸ BAND Button [ᴧᴧ]
  DISC Up Button [ⓒⓒ]
❹ Play/Pause (▶/II) Button [ⓒ] [ⓒⓒ]
  MUTE Button [ᴧᴧ]
❺ SEARCH Up(▲) / Down (▼) Buttons
[ᴧᴧ] : In the Radio Mode
[ⓒ] : In the CD Mode
[ⓒⓒ] : In the CD Changer Mode

⚠CAUTION

Be careful about adjusting the volume, as turning on the power while the volume is raised to its maximum may harm your hearing.

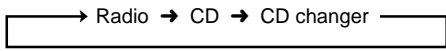## PWR / FUNC Button ❶

Turning on and off the power
Press the PWR button ❶ to turn the power on and press and hold it for 1 second or longer to turn the power off.

Changing the operation mode
Each time the FUNC button ❶ is pressed, the mode switches in the following order:

Radio ➔ CD ➔ CD changer

Notes:
- *If the above equipment is not connected, corresponding mode cannot be selected.*
- *In CD mode, if no CD is loaded in XMD1, "DISC" flashes on the display and the radio mode is selected.*

VOLUME Up (▲) / Down (▼) Buttons ❷

Adjusting the volume
Press the VOLUME Up button ❷ to increase the volume and press the VOLUME Down button ❷ to decrease the volume.

BAND / DISC Up Button ❸

Changing the band (in the Radio mode)
Each time the BAND button ❸ is pressed, the band switches in the following order:
    FM1 ➔ FM2 ➔ FM3 ➔ AM ➔ FM1.....

Top function (in CD mode)
Press the button ❸, then the CD will start from the first song (track number 1).

Changing the disc (in the CD changer mode)
Each time the DISC Up button ❸ is pressed, the disc switches in the following order:
    1 ➔ 2 ➔ 3 ➔ 4 ➔ 5 ➔ 6 ➔ 1.....

Play/Pause (▶/II) / MUTE Button ❹

Pause (in the CD mode or CD changer mode)
Press the Play/Pause button ❹. Playback pauses. To resume playback, press the Play/Pause button ❹ again.

Mute (in Radio mode)
Press the MUTE button ❹. The sound is muted immediately. To cancel, press the MUTE button ❹ again.

SEARCH Up (▲) / Down (▼) Buttons ❺

Selecting tracks (in CD changer mode or CD mode)
Press the SEARCH Up button ❺ to start playback from the beginning of the following track. Press the SEARCH Down button ❺ to start playback from the beginning of the current track. If pressed again, the track moves to the previous one.

Fast-forward and fast-backward (in CD changer mode or CD mode)
Press and hold the SEARCH Up button ❺ to fast-forward the disc. Press and hold the SEARCH Down button ❺ to fast-backward the disc.

* Pressing and holding the SEARCH Up/Down buttons for 1 second or longer will move forward or backward 3 times faster than normal play, and pressing and holding it for 3 seconds or longer will do the operation 30 times faster.

Changing preset stations (in the Radio mode)
Each time the SEARCH Up/Down buttons ❺ are pressed, the preset station switches in the following order:
    1 ➔ 2 ➔ 3 ➔ 4 ➔ 5 ➔ 6 ➔ 1.....
    or
    6 ➔ 5 ➔ 4 ➔ 3 ➔ 2 ➔ 1 ➔ 6.....

5. HANDLING COMPACT DISCS

This unit has been designed specifically for playback of compact discs bearing the [disc] mark. No other discs can be played.

To remove the compact disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.

Removing the disc   Proper way to hold the compact disc
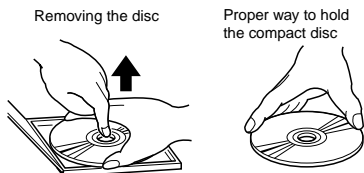
Always handle the compact disc by the edges. Never touch the surface.

To remove fingermarks and dust, use a soft cloth, and wipe in a straight line from the center of the compact disc to the circumference.

No
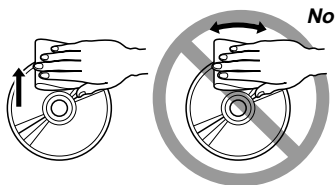
New discs may have some roughness around the edges. The unit may not work or the sound may skip if such discs are used. Use a ball-point pen, etc. to remove roughness from the edge of the disc.

Ball-point pen
Roughness

Note on Compact Discs

Never stick labels on the surface of the compact disc or mark the surface with a pencil or pen.

No
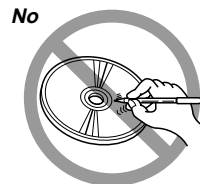
Do not use any solvents such as commercially available cleaners, anti-static spray, or thinner to clean compact discs.

No

Do not use compact discs that have large scratches, are misshapen, or cracked, etc. Use of such discs will cause misoperation or damage.

No

Do not expose compact discs to direct sunlight or any heat source.

No

Note:
• Do not use commercially available CD protection sheets or discs equipped with stabilizers, etc. These may get caught in the internal mechanism and damage the disc.
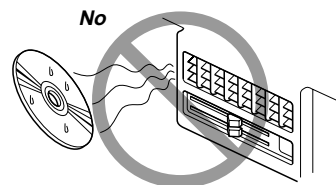
6. OPERATION

Note:
• Be sure to read this chapter referring to the front diagrams of chapter 2. CONTROLS on page 3.

Basic Operations

⚠**CAUTION**

When this unit is turned on, starting and stopping the engine of a boat with its volume raised to the maximum level may harm your hearing.
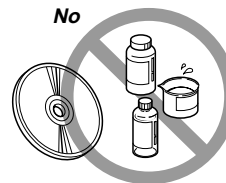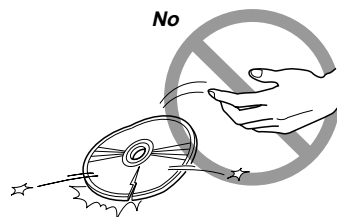**Be careful about adjusting the volume.**

IMPORTANT

Door must be totally closed to prevent water go into the set!
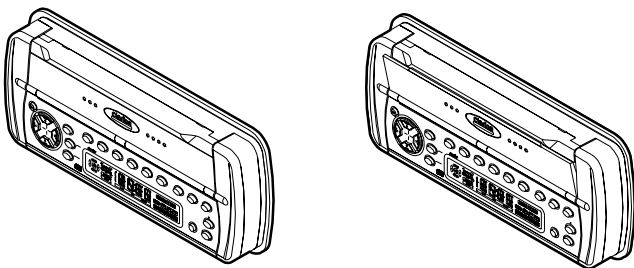
OK   **NG**

Turning ON the Power and Adjusting the Volume
1) Press the POWER button 4.
   ∗ To turn off the power, press the POWER button 4 for 1 second or longer.
2) Press the FUNC button 4 and select another operation mode. Every time the FUNC button 4 is pressed, the display changes the operation mode as:
   Radio ➔ CD ➔ CD changer ➔ Radio

Notes:
• The operation mode not connected to the unit will not be selected.
• If the CD mode is selected when no disc is inserted, the display flashes "**DISC**".
3) Use the volume button 1 to adjust the volume.
   ▲: Increases the volume.
   ▼: Decreases the volume.
   ∗ The volume level is from 0 (minimum) to 33 (maximum).

Audio Mode Adjustments
Press the A-M button 13 to select the adjustment mode. The mode switches as follows each time the A-M button is pressed:
BASS ➔ TREB ➔ BAL ➔ FAD ➔ Previous mode

Adjusting the Bass
1) Press A-M button 13 and select "**BASS**".
2) Press volume button 1 ▲ to emphasizes the bass; press ▼ to attenuates the bass.
   ∗ The factory default setting is "**0**". (Adjustment range: −6 to +6)
3) When the adjustment is complete, press A-M button 13 several times until the function mode is reached.

Adjusting the Treble
1) Press A-M button 13 and select "**TREB**".
2) Press volume button 1 ▲ to emphasizes the treble; press ▼ to attenuates the treble.
   ∗ The factory default setting is "**0**". (Adjustment range: −6 to +6)
3) When the adjustment is complete, press A-M button 13 several times until the function mode is reached.

Adjusting the Balance
1) Press A-M button 13 and select "**BAL**".
2) Press the volume ▲ emphasizes the sound from the right speaker; press the volume ▼ emphasizes the sound from the left speaker.
   ∗ The factory default setting is "**0**". (Adjustment range: L9 to R9)
3) When the adjustment is complete, press A-M button 13 several times until the function mode is reached.

Adjusting the Fader
1) Press A-M button 13 and select "**FAD**".
2) Press the volume ▲ emphasizes the sound from the front speakers; press the volume ▼ emphasizes the sound from the rear speakers.
   ∗ The factory default setting is "**0**". (Adjustment range: F9 to R9)
3) When the adjustment is complete, press A-M button 13 several times until the function mode is reached.

Setting the Z-enhancer
This unit comes with three types of sound tone effects stored in memory. Select the one you prefer.
∗ The factory default setting is "Z-EHCR OFF".
Each time you press Z-EHCR button 17, the tone effect changes in the following order.
"Z-ENHANCER 1" ➔ "Z-ENHANCER 2" ➔ "Z-ENHANCER 3" ➔ "Z-EHCR OFF" ➔ "Z-ENHANCER 1"...
• Z-ENHANCER 1: bass emphasized
• Z-ENHANCER 2: treble emphasized
• Z-ENHANCER 3: bass and treble emphasized
• Z-EHCR OFF: no sound effect

Loudness Effect
In order to turn on/off the loudness effect, use the LOUD button 13 for 2 seconds or longer. Every time the LOUD button 13 is pressed and held for 2 seconds or longer, the loudness effect switches on and off.
∗ When the loudness effect is on, the display will show "**LD**".

Switching the Clock Display
Every time the DISP button 15 is pressed, the display will change between the operation mode and the clock display.

Setting the Clock
1) Press the DISP button 15 to display the clock display.
2) Press and hold the DISP button 15 for 2 seconds or longer.
3) Press the SRCH Left button 12, then set the current hour.
4) Press the SRCH Right button 12, then set the current minute.
5) Press the DISP button 15, then the clock is set.

Notes:
• If you select another operation mode while you are setting the clock, the clock setting operation will be canceled.
• If you remove the vehicle's battery for a check or repair, the clock will be reset, so you must set it again.

Radio Mode Operations

FM Reception
For enhanced FM performance the **MAGI·TUNE⊞** ® tuner includes signal actuated stereo control and Multipath noise reduction circuits.

Listening to the Radio
1) Press the FUNC button ▣ to select the radio mode, then the radio will be on.
2) To select a preset band, press the "**BAND**" button ▣,then select one of the preset bands such as FM1, FM2, FM3, or AM. Every time the "**BAND**" button ▣ is pressed, the display will change as: FM1 ➜ FM2 ➜ FM3 ➜ AM ➜ FM1
3) Press the SRCH Left/Right button ▣, then the station at which there is a broadcast will be selected (Seek selection).

Mute
Use this function to turn off the sound immediately.
Press the MUTE button ▣. The sound turns off and "**MUTE**" appears on the display. Press the MUTE button again to cancel the mute mode.

Manual Tuning
1) Press the "**BAND**" button ▣, then select FM1, FM2, FM3 or AM.
2) Press and hold the "**BAND**" button ▣ for 2 seconds or longer, then the display will show "**MANU**", which means that a manual selection function is on.
3) Press the SRCH Left/Right button ▣ and select the right station.

Seek Tuning
1) Press the "**BAND**" button ▣, then select FM1, FM2, FM3 or AM.
2) If the "**MANU**" on the display is on, press and hold the "**BAND**" button ▣ for 2 seconds or longer. When the "**MANU**" display is off, the Seek Selection function is on.
3) Press the SRCH Left/Right button ▣, then when it selects the station in which there is a broadcast, it automatically stops.

Preset Memory Function
Preset Memory Function can store up to 24 stations: six stations for each of FM1, FM2, FM3 and AM.

Note:
• When the present memory function is used, all the content of the memory will be erased.

Manual memory function
1) Press the "**BAND**" button ▣, and select the band you want to store in the memory.
2) Press the SRCH Left/Right button ▣ then select the station you want to store in the memory.
3) Press and hold the Preset button ▣ for 2 seconds or longer, then the station will be stored in the memory.

Auto store function (Automatic Station Store)
1) Press the "**BAND**" button ▣, then select the band you want to store in the memory.
2) Press and hold the AS button ▣ for 2 seconds or longer, then the station at which the reception is the strongest will be automatically stored in the memory.

Note:
• When the number of stations stored is less than six, the previous content of the memory for each direct button will be retained.

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Preset Scanning (Preset Station Scan)
When the PS button ▣ is pressed, the preset memory numbers flash and the stations are tuned in for 7 seconds each in the order in which they were stored. Press the PS button again to cancel the preset scanning mode.

Instant Station Recall (ISR)
With this function, a specific radio station can be recalled from any mode.

ISR memory
1) Press the FUNC button ▣, then select the radio mode.
2) Select the radio station which you want to store in the memory.
3) Press and hold the ISR button ▣ for 2 seconds or longer.

Recalling ISR
Press the ISR button ▣ then the display will show "**ISR**", then the radio station previously memorized will be selected. Press the ISR button ▣ again to disengage the unit from the Recalling ISR function.
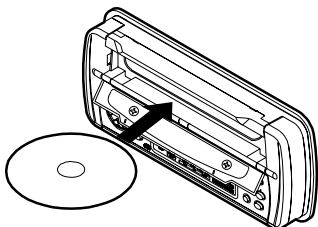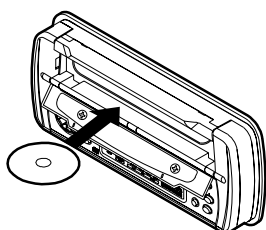
CD Mode Operations

Loading a Disc

Open the door by push up the hook.
Insert the disc into the CD insertion slot with its label side up and completely close the door, then the CD will start playing.
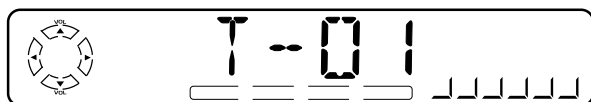
For 5-inch (12 cm) CD   For 3-inch (8 cm) single CD

∗ When inserting a single CD (3"(8 cm)), insert it from the center of the slot.
∗ When inserting a single CD (3"(8 cm)), do not connect an adapter.

CD MODE OPERATION

∗ Press the DISP button 15, then the display will show the play time.
  Track No. → Play time → Clock → Track No.

Notes:
- Some CDs recorded in CD-R mode may not be usable.
- Even when recorded in CD-RW mode, some CDs may not be usable.

Listening to the Disc already Inserted

Press the FUNC button 4 to select the CD mode, the CD will start playing.

Stopping (pausing) Playback

Press the Play/Pause button 11.
Press the Play/Pause button 11 again to resume playback.

Ejecting the CD

Open the door by push up the hook.
Press the Eject button 2, then the CD will be ejected.

Note:
- If the ejected CD is left as it is, it will be reloaded after 15 seconds. However, single CDs will not be reloaded, so make sure to remove them.

Top Function

Press the TOP button 14, then the CD will start playing from the first song (track number 1).

Selecting Tracks (songs)

Press the SRCH Left/Right button 12.
- ▶▶ : Playback will start from the next track.
- ◀◀ : Playback will start from the beginning of the track currently playing. When this button is pressed again, the CD will play from the previous track.

Fast-Forward and Fast-Backward

Press and hold the SRCH Left/Right button 12.
- ▶▶ : To fast-forward
- ◀◀ : To fast-backward

∗ Pressing the SRCH Left/Right button for 1 second or longer will move forward or backward 5 times faster than normal play, and pressing it for 3 seconds or longer will do the operation 30 times faster.

Scan Play (Intro Music Scan)

Press the SCN button 6, then the display shows "**SCN**", then the CD will play the first 10 seconds of each track of the whole disc. Press the SCN button 6 again to disengage the unit from scan play.

∗ A scan play will start from the track following the one currently playing.

Repeat Play

Press the RPT button 7, then the display shows "**RPT**", then the track currently playing will be played repeatedly. Press the RPT button 7 again to disengage the unit from repeat play.
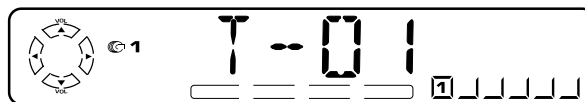
Random Play

Press the RDM button 8, then the display will show "**RDM**", then the entire tracks on the disc will be played at random. Press the RDM button 8 again to disengage the unit from random play.

CD Changer Mode Operations

Listening to the Disc

Press the FUNC button 4 and select the CD changer mode, then the CD starts playing.

CD CHANGER MODE OPERATION

Stopping (pausing) Playback

Press the Play/Pause button 11.
Press the Play/Pause button 11 again to resume playback.

Selection of CDs

Press the Direct button (1 to 6) 5 then select the CD you wish to play.

Selecting Tracks (songs)

Press the SRCH Left/Right button 12.
- ▶▶ : Playback will start from the next track.
- ◀◀ : Playback will start from the beginning of the track currently playing. When this button is pressed again, the CD will play from the previous track.

Fast-Forward and Fast-Backward

Press and hold the SRCH Left/Right button 12.
- ▶▶ : To fast-forward
- ◀◀ : To fast-backward

∗ Pressing the SRCH Left/Right button for 1 second or longer will move forward or backward 5 times faster than normal play, and pressing it for 3 seconds or longer will do the operation 30 times faster.

Scan Play (Intro Music Scan)

Press the SCN button 6, then the display shows "**SCN**", then the CD will play the first 10 seconds of all the tracks of all CDs. Press the SCN button 6 again to disengage the unit from scan play.

∗ A scan play will start from the track following the one currently playing.

Disc scan play

Press and hold the SCN button 6 for 2 seconds or longer, then the display will show "DISC⟩" and "**SCN**", and plays the first 10 seconds of the first song of all the CDs in the CD changer.

Press the SCN button 6 again to disengage the unit from disc play.

∗ A scan play will start from the first tracks of next CDs following the one currently playing.

Repeat Play

Press the RPT button 7, then the display shows "**RPT**", then the track currently playing will be played repeatedly. Press the RPT button 7 again to disengage the unit from repeat play.

Disc repeat play

Press and hold the RPT button 7 for 2 seconds or longer, then the display shows both the "DISC⟩" and "**RPT**", then the disc currently being played will be played repeatedly.

Press the RPT button 7 again to disengage the unit from disc repeat play.

Random Play

Press the RDM button 8, then the display will show "**RDM**", then the entire tracks on the disc will be played at random.

Press the RDM button 8 again to disengage the unit from disc random play.

Disc random playback

Press and hold the RDM button 8 for 2 seconds or longer, then the display will show both the "DISC⟩" and "**RDM**", then the entire tracks of all the discs in the CD changer will be played at random.

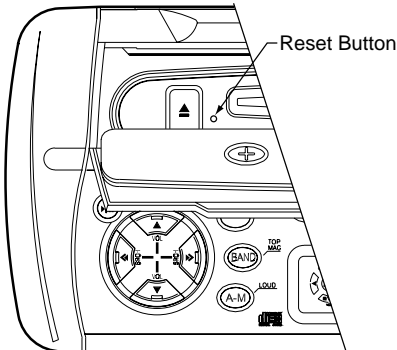Press the RDM button 8 again to disengage the unit from disc play.

Switching Magazine

This function can be used only when the connected CD changer can store a multiple number of magazines.

Every time the MAG button 14 is pressed, the next magazine will be selected.

7.TROUBLESHOOTING

Problem	Cause	Solution
Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage. If the fuse blows again, consult your store of purchase.
	Incorrect wiring.	Consult your store of purchase.
Compact disc cannot be loaded.	Another compact disc is already loaded.	Eject the compact disc before loading the new one.
Sound skips or is noisy.	Compact disc is dirty.	Clean the compact disc with a soft cloth.
	Compact disc is heavily scratched or warped.	Replace with a compact disc with no scratches.
Sound is bad directly after power is turned on.	Water droplets may form on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with the power on.
Nothing happens when buttons are pressed. Display is not accurate.	Microprocessor has malfunctioned due to noise, etc.	Turn off the power, then open the door 10 by up the hook 9. Press the reset button for about 2 seconds with a thin rod. Reset Button

8.ERROR DISPLAYS

■ To protect the system, this unit has been equipped with self diagnostic functions. If a fault arises, a warning is issued by various error displays. Follow the corrective measures and remove the fault.

Error Display	Corrective Measure
Er 2	This error display indicates that a fault has arisen in the mechanism of the source unit or CD changer (for example, the disc cannot be changed or ejected). → Check the source unit and CD changer.
Er 3	This error display indicates that the pickup focus is off because of a scratched disc or some other factor during source unit or CD changer play. → Check the compact disc.
Er 6	This indicates that the CD's TOC (table of contents) cannot be read, for example because the selected disc is upside-down.

9. SPECIFICATIONS

Radio section
Tuning System: PLL synthesizer tuner
Receiving Frequencies:
    FM : 87.5 to 108 MHz (0.05 MHz steps)
    MW: 531 to 1602 kHz (9 kHz steps)

CD player section
System: Compact disc digital audio system
Frequency Response: 10 Hz to 20 kHz (±1 dB)
Signal-to-Noise Ratio: 100 dB (1 kHz) IHF-A
Dynamic Range: 95 dB (1 kHz)
Distortion: 0.01% (1kHz)

General
Max Power Output: 4 × 45W (EIAJ)
Power Supply Voltage:
    14.4V DC (10.8 to 15.6V allowable), negative ground
Power Consumption: Less than 15 A
Speaker Impedance: 4Ω (4 to 8Ω allowable)
Weight:
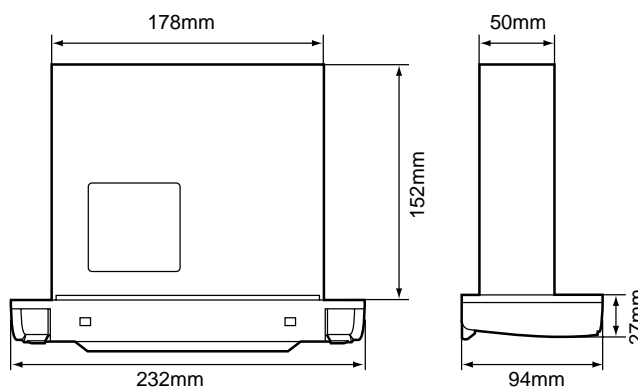   Main unit: 2.5 kg
Dimensions:
    Main unit: 178 (W) × 50 (H) × 152 (D) mm
    Escutcheon section: 232 (W) × 94(H) × 27(D) mm

Notes:
• Specifications comply with EIA Standards.
• Specifications and design are subject to change without notice for further improvement.