

Clarion

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

XMA1

**AM/FM CASSETTE
WITH CD CHANGER CONTROL**

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

**RADIOCASSETE DE AM/FM CON
CONTROL DE CAMBIADOR DE
DISCOS COMPACTOS**

**RADIO AM/FM E RIPRODUTTORE
DI CASSETTE CON CONTROLLO
CAMBIA-CD**

English

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Français

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Español

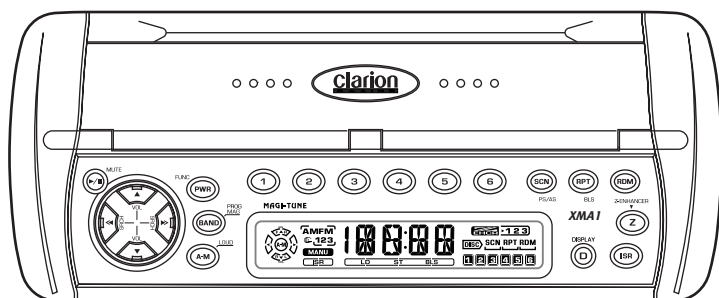
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Italiano

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1. PRECAUTIONS

⚠ CAUTION

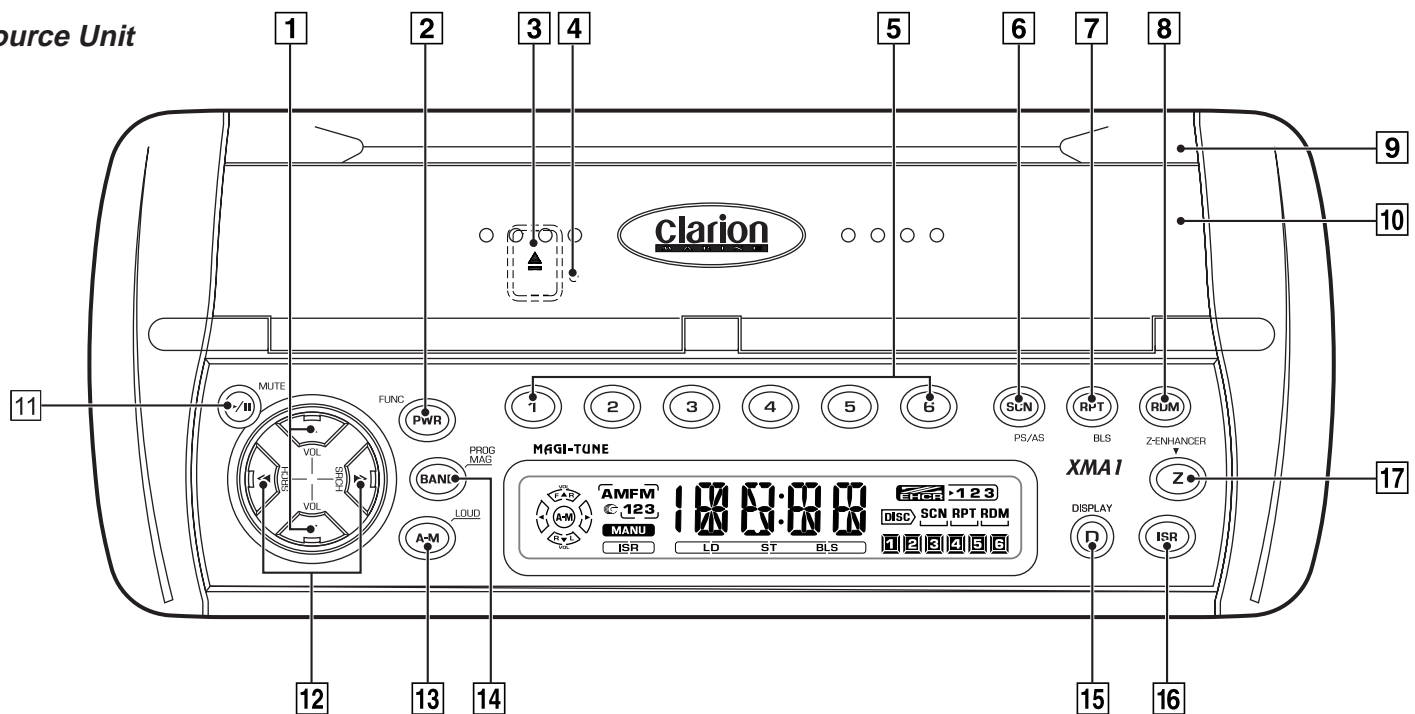
This unit uses a precision mechanism. Even in the event that trouble arises, never open the case, disassemble the unit, or lubricate the rotating parts.

INFORMATION FOR USERS:

CHANGES OR MODIFICATIONS TO THIS PRODUCT WILL VOID THE WARRANTY AND WILL VIOLATE FCC APPROVAL.

2. CONTROLS

Source Unit



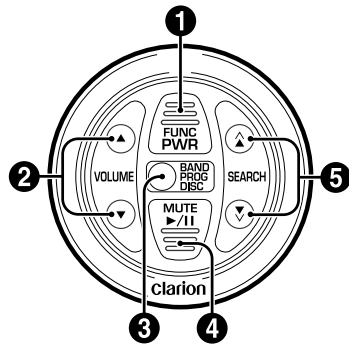
3. BUTTON TERMINOLOGY

- | | |
|---------------------------------------|--|
| 1 VOL (Volume) up and Down Button | 10 Door |
| 2 Power Button | 11 Play / Pause (▶/⏸) Button |
| FUNC (Function) Button | MUTE Button |
| 3 Eject (▲) Button | 12 SRCH (Search) Left and Right (◀ and ▶) Button |
| 4 Reset Button | 13 A-M (Audio Mode) Button |
| 5 Preset Buttons (1 to 6) | LOUD (Loudness) Button |
| Direct Button (1 to 6) | 14 BAND Button |
| 6 SCN (Scan) Button | PROG(Program) Button |
| PS/AS (Preset Scan/Auto Store) Button | MAG (Magazine) Button |
| 7 RPT (Repeat) Button | 15 D (Display) Button |
| BLS(Blank Skip)Button | 16 ISR (Instant Station Recall) Button |
| 8 RDM (Random) Button | 17 Z (Z-enhancer) Button |
| 9 Hook | |

4. WIRED REMOTE CONTROL UNIT OPERATIONS

■ XMA1 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 (▼) Bbuttons
- ❸ BAND Button []
PROG (Program) Button []
DISC Up Button []
- ❹ Play/Pause (▶/||) Button [] Buttons
MUTE Button []
- ❺ SEARCH Up(▲) / Down (▼) Buttons
[] : In Radio Mode
[] : In Tape Mode
[] : In 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.

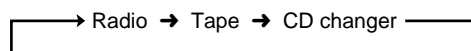
PWR / FUNC Button ❶

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:



Notes:

- If the above equipment is not connected, corresponding mode cannot be selected.
- In tape mode, if no cassette tape is loaded in XMA1, "CASS" 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 / PROG / DISC Up Button ❸

Changing the band (in Radio mode)

Each time the BAND button ❸ is pressed, the band switches in the following order:

FM1 → FM2 → FM3 → AM → FM1.....

Switching the Program (direction of tape travel) (in Tape mode)

Press the PROG button ❸. The tape starts playing in the opposite direction, and the tape travel indicators turn in the opposite direction.

Changing the disc (in 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 (▶/||) / MUTE Button ❹

Pause (in Tape 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

Fast-Forwarding and Rewinding (In Tape mode)

Press SEARCH Up button ❺ to fast-forward the tape.
Press SEARCH Down button ❺ to rewind the tape.

APC (Auto Program Control) (In Tape mode)

Press SRCH Up button ❺ twice to move ahead to the beginning of the next selection.

Press SRCH Down button ❺ twice to move back to the beginning of the current selection.

* Pressing and holding the button 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.

Selecting tracks (in CD changer 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)

Press and hold the SERCH Up button ❺ to fast-forward the disc.
Press and hold the SERCH Down button ❺ to fast-backward the disc.

Changing preset stations (in 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. CASSETTE PRECAUTIONS AND CARE

1. Tape slack can lead to operating difficulties. Remove tape slack before inserting a cassette, particularly when using C-90 or pre-recorded cassettes.
2. Use C-30 to C-90 cassettes. Avoid use of C-120 or longer cassettes (The very thin tape may stretch or break).
3. Clean the head periodically with a good commercial head cleaner. Avoid touching the head with magnetic or hard objects.
4. Do not oil the cassette mechanism.
5. Always remove the cassette from the mechanism when not in use. Exposure to direct sunlight, extreme temperatures or high humidity may damage cassettes.
6. The cassette tape will automatically eject from the mechanism if it is damaged. Always ensure that cassette tapes are in good condition prior to use.

6. OPERATION

Note:

- Be sure to read this chapter referring to the front diagrams of chapter 3. CONTROLS on page 3 (unfold).

Basic Operations

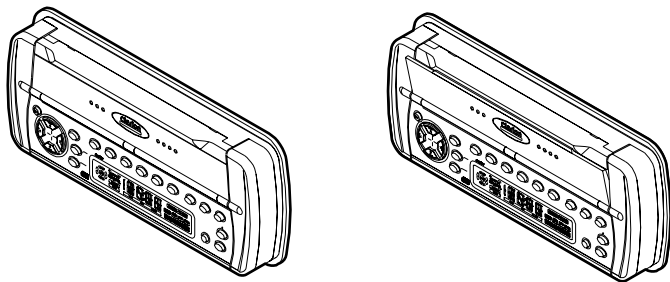
▲ CAUTION

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

- 1) Press the POWER button [2].
 - * To turn the power off, press the POWER button for at least 1 second.
- 2) Press the FUNC button [2] to select the operation mode. The mode switches as follows each time the FUNC button is pressed: Radio → Tape → CD changer → Radio
 - * If a component is not connected, that operation mode cannot be selected.
 - * "CASS" appears when no tape is loaded in the source unit, and "DISC" appears when no disc is loaded in the CD changer.
- 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 volume [1] ▲ to emphasizes the sound from the right speaker; press ▼ to 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 volume [1] ▲ to emphasizes the sound from the front speaker; press ▼ to 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 Function

Press the LOUD button [13] for at least 2 seconds to turn the loudness function on and off.

Switching the Display

Press the DISP button [15] to enter the clock display mode. Operation mode display → Clock display → Operation mode display



Setting the Clock

- 1) Press the DISP button [15] to enter the clock display mode.
- 2) Press the DISP button [15] for 2 seconds or more. This enables clock editing.
* The editable fields will be indicated by flash.
- 3) To move between the hour and minute fields, use the SRCH Left (hour) and Right (minute) buttons [12].
- 4) To confirm the clock setting, press the DISP button [15].

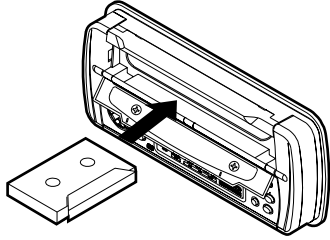
Notes:

- If you select another operation mode before completing the above procedure, the clock setting operation will be canceled.
- Removing the battery for a check or repair causes the clock to be reset. Set the clock again in such a case.

Tape Operation

Loading Tapes

Open the door by push up the hook.



Insert the cassette tape into the Cassette insertion slot with the side on which the tape is exposed facing the right. Playback starts automatically.

- * The metal tape setting is set automatically when a metal or chrome tape is loaded.
- * When the end of the cassette tape is reached, the auto reverse mechanism is activated and the other side of the tape begins playing automatically.

Listening to a tape which is already loaded

Press the FUNC button [2] to select the tape mode. Playback begins automatically.

Stopping Playback Temporarily

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

Ejecting Cassette Tapes

Open the door by push the hook.

Press the Eject button [3]. The cassette tape is ejected.

- * The radio mode is set automatically 4 seconds after the eject button is pressed.

Fast-Forwarding and Rewinding

Use the SRCH Left and Right buttons [12].

- ▶▶: Press this to fast-forward the tape.
- ◀◀: Press this to rewind the tape.

APC (Auto Program Control)

Press the SRCH Left or Right button [12] twice.

- ▶▶: Press this twice to move ahead to the beginning of the next selection.
- ◀◀: Press this twice to move back to the beginning of the current selection.

Switching to the Other Side of the Tape

Press the PROG button [14]. Playback is switched to the other side of the cassette tape.

FF Scan Function (Intro Music Scan)

When the SCN button [6] is pressed, "SCN" appears on the display, and the first 10 seconds of all the tracks on the cassette tape are played. Press the SCN button again to stop scanning.

Repeat Function (Repeat Play)

When the RPT button [7] is pressed, "RPT" appears on the display and the current track is played repeatedly. Press the RPT button again to cancel the repeat mode.

Blank Skip Function

Use this function to automatically skip to the beginning of the next recorded section when there is a blank section of 12 seconds or more on the tape.

When the BLS button [7] is pressed for 1 second or longer, the blank skip mode is set and "BLS" appears on the display. Press the BLS button [7] again for 1 second or longer to cancel the blank skip mode.

Notes:

The APC, scan, repeat and blank skip functions will not work with the following types of tapes:

- Tapes on which the recording level is low
- Tapes on which there is less than 4 seconds of blank space between selections
- Tapes on which there are long pauses in the middle of selections
- Tapes on which there is much noise between selections

Radio Operation

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 **[2]** and select the radio mode. The radio turns on.
- 2) To tune in a preset station, first press the “**BAND**” button **[14]** and select FM1, FM2, FM3 or AM.
The “**BAND**” changes as follows each time the “**BAND**” button is pressed:
FM1 → FM2 → FM3 → AM → FM1
- 3) Use the Preset buttons **[5]** to select the desired station.

Mute

Use this function to turn off the sound immediately. Press the MUTE button **[11]**. The sound turns off and “**MUTE**” appears on the display. Press the MUTE button again to cancel the mute mode.

Seek Tuning

- 1) Press the “**BAND**” button **[14]** and select the desired band.
- 2) Press the SRCH Left or Right button **[12]**. Seek tuning automatically stops when a station is found.

Manual Tuning

- 1) Press the “**BAND**” button **[14]** and select the desired band.
- 2) Press the “**BAND**” button again for more than 2 seconds. “**MANU**” lights in the display and the manual tuning mode is set.
- 3) Use the SRCH Left and Right buttons **[12]** to tune in the desired frequency.

Presetting Stations

A total of 24 stations can be preset, 6 each for the FM1, FM2, FM3 and AM bands.

Note:

- When a station is preset, the station previously stored in the memory at that position is cleared.

Presetting stations manually

- 1) Press the “**BAND**” button **[14]** to select the band at which to store the station.
- 2) Use the SRCH Left and Right buttons **[12]** to tune in the station to be preset.
- 3) Press the Preset button **[5]** at which you want to store that station for at least 2 seconds.

Auto store function (Automatic Station Store)

- 1) Press the “**BAND**” button **[14]** to select the band at which to store the stations.
- 2) Press the AS button **[6]** for at least 2 seconds. Stations with good reception are automatically stored at Preset buttons **[5]** 1 to 6.
* If there are fewer than 6 stations with good reception, the stations previously stored at the remaining buttons are not cleared.

Preset Scanning (Preset Station Scan)

When the PS button **[6]** 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.

6 XMA1

Instant Station Recall (ISR) Function

This function allows you to recall a specific radio station from any mode. Use it to find stations quickly when you want to hear specific information (such as traffic announcements) while driving. The ISR station is set to 87.9 MHz upon shipment from the factory.

Setting the ISR station

- 1) Press the FUNC button **[2]** to select the radio mode.
- 2) Tune in the station to be set as the ISR station.
- 3) Press the ISR button **[16]** for more than 2 seconds to store that station in the memory as the ISR station.

Recalling the ISR station

Press the ISR button **[16]** from any mode. “**ISR**” appears on the display and the set station is tuned in. To cancel, press the ISR button again.



CD Changer Operation

When a separately sold CD changer is connected, it can be controlled from the source unit.

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

Press the FUNC button [2] and select the CD changer mode, then the CD starts playing.

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 [5] to select 1 to 6, then select the CD you wish to play.

Selecting Tracks (songs)

Press the SRCH Left and Right buttons [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 and Right buttons [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 tracks 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.

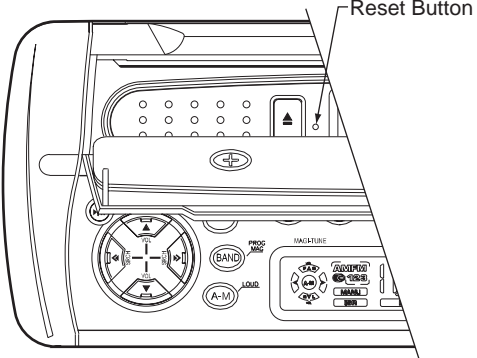
Press the RDM button [8] again to disengage the unit from disc play.

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	Measure
Power does not turn on. (or no sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage as the old fuse.
	Connections are improper.	Read the attached "Installation/Wire Connection Guide" once again and wire properly.
Sound quality is poor.	Playback head is dirty.	Use a cleaning tape, etc. to clean the head.
No sound while unit can be operated.	Power ANT lead is shorted to the ground.	Turn the unit off, first. Remove all connecting wires from the power ANT lead, and turn the unit on, then re-connect a wire one by one to the power ANT lead. When sound is muted again, check the unit with a wire connected last.
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. 

This unit is equipped with a number of self-diagnosis functions to protect the system. If a problem should occur, the user is warned through various error displays. Eliminate the problem using the procedures shown below.

Error Display	Cause	Measure
Er 1	The cassette tape does not play normally due to tape cut.	Eject the cassette tape.
Er 2	The cassette tape does not play normally due to tape jam.	Remove the cassette tape which has been jammed or gotten caught in the mechanism.
Er 4	The mode detection switch is not normally activated due to mechanism failure.	Repair the mechanism or replace it.
Er 8	The cassette tape is jammed and cannot be ejected due to some reason.	Remove the jammed tape.

If a display other than one of the displays above appears, press the reset button. If the problem persists, turn the power off and contact your store of purchase.

8. 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)

Tape Deck section

Cassette Type: Compact Audio Cassette

Frequency Response : 30 Hz to 18kHz (± 3 dB) (Normal)

: 30 Hz to 20kHz (± 3 dB) (CrO₂, FeCr, Metal)

Wow & Flutter (WRMS): 0.08%

Signal to Noise Ratio: 58 dB (CrO₂, FeCr, Metal)

Tape Types: Normal, CrO₂, FeCr, Metal

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: 4 Ω (4 to 8 Ω allowable)

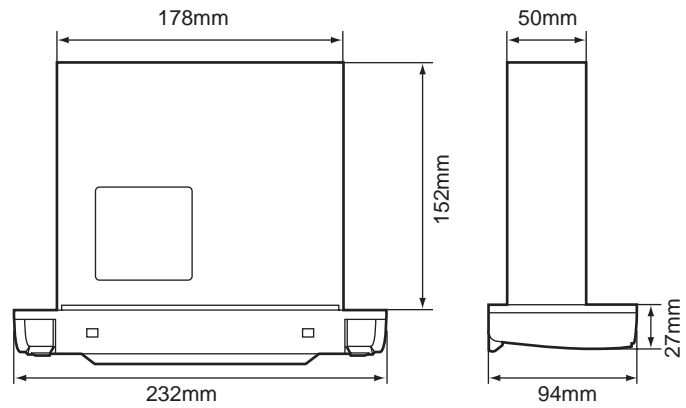
Weight:

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.

English