

clarion®

Owner's manual & Installation manual

CZ603AU

Bluetooth® CD/USB/MP3/WMA RECEIVER

Clarion Co., Ltd.

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Printed in China

PN: 127075005057

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Thank you for purchasing this Clarion product.
 • Please fully read this owner's manual before operating this equipment.
 • Check the contents of the enclosed warranty card and store it in a safe place with this manual.

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Warranty Information:

For detailed information regarding warranty conditions, please see the separate warranty card enclosed with your product. There you will also find information regarding how to register your product for Clarion's "Free Extended Warranty" program.

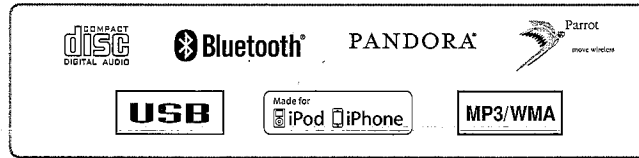
• "Free Extended Warranty" subject to terms and conditions.

You can also view the warranty conditions at any stage by visiting the Clarion website and clicking on the "warranty information" link.

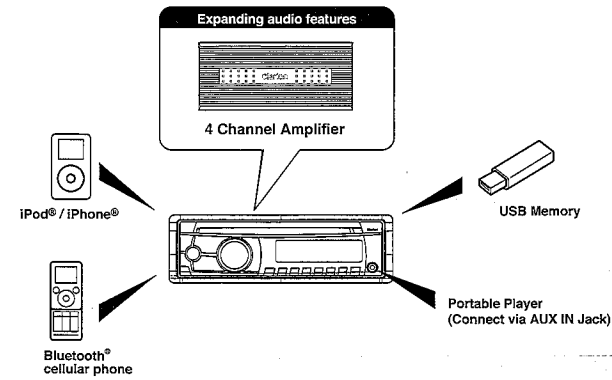
<http://www.clarion.com.au>

1. FEATURES

- Compatible with iPod® / iPhone® with Pandora® internet radio App
- 5V/6ch RCA Output with Digital Time Alignment, 3-way Crossover and 5 Band Parametric Equalizer
- 728 Variable Color Illumination Control



Expanding Systems



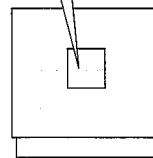
Note:
 • The items listed outside of the frames are the commercial products generally sold.

2. PRECAUTIONS

WARNING

For your safety, the driver should not operate the controls while driving. Also, while driving, keep the volume to a level at which external sounds can be heard.

1. When the interior of the car is extremely cold and the player is used soon after switching on the heater, moisture may form on the disc or the optical parts of the player and proper playback may not be possible. If moisture forms on the disc, wipe it off with a soft cloth. If moisture forms on the optical parts of the player, do not use the player for about one hour. The condensation will disappear naturally allowing normal operation.
2. Driving on extremely bumpy or rough roads can cause the disc to skip during playback.
3. This unit uses precision parts and components for its operation. In the event that trouble arises, never open the case, disassemble the unit, or lubricate the rotating parts. Contact your Clarion dealer or service center.
4. "Made for iPod," and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. iPhone and iPod are trademarks of Apple Inc., registered in the U.S. and other countries.
5. Pandora, the Pandora logo and other Pandora marks are trademarks or registered trademarks of Pandora Media, Inc. or its subsidiaries worldwide. "If you have any issues with the Pandora application on your mobile phone, please direct them to pandora-support@pandora.com."
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Cleaning the body

- Use a soft, dry cloth and gently wipe off any dirt or dust.
- For tough dirt, apply some neutral detergent diluted in water to a soft cloth, wipe off the dirt gently, then wipe again with a dry cloth.
- Do not use benzene, thinner, car cleaner, etc., as these substances may damage the body or cause the paint to peel. Also, leaving rubber or plastic products in contact with the body for long periods of time may cause stains.

USB Port

- The USB memory sticks must be recognized as "USB mass storage class" to work properly. Some models may not operate correctly.

When the memorized data is lost or damaged by any chance, Clarion shall not be liable for any damage.

When using an USB memory stick, we recommend that you backup your data stored on it before using a personal computer etc.

Data files may be broken when using USB memory sticks in the following situation: When disconnecting the USB memory stick or turning the power off during reading data.

When affected by static electricity or electric noise.

Connect/disconnect the USB memory stick when it is not accessed.

Connecting with the computer is not covered.

Front Panel / Generalities

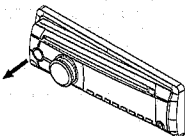
For a longer service life, be sure to read the following cautions.

- Do not allow any liquids on the unit from drinks, umbrellas, etc. Doing so may damage the internal circuitry.
- Do not disassemble or modify the unit in any way. Doing so may result in damage.
- Do not let cigarettes burn the display. Doing so may damage or deform the body.
- If a problem should occur, have the unit inspected at your store of purchase.
- The remote control unit may not work if the remote control sensor is exposed to direct sunlight.

Remove the DCP

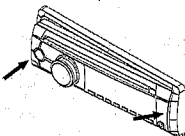
The control panel can be detached to prevent theft. When detaching the control panel, keep it in the safety place and prevent scratches. We recommend taking the DCP (DETACHABLE CONTROL PANEL) with you when leaving the car.

- Press the [SRC / ϕ] button (1 sec.) to turn off the power.
- Deeply push in [OPEN] button to unlock the DCP.
- Hold the side popped out, remove the DCP.



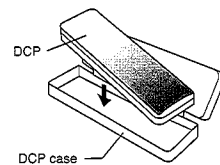
Attach the DCP

- Hold the DCP and ensure that the panel faces towards you. Set the right side of the DCP into the DCP bracket.
- Press the left side of the DCP until it locks.



Storing the DCP in the DCP Case

Hold the DCP, as shown in the figure below, and put it into the supplied DCP case.



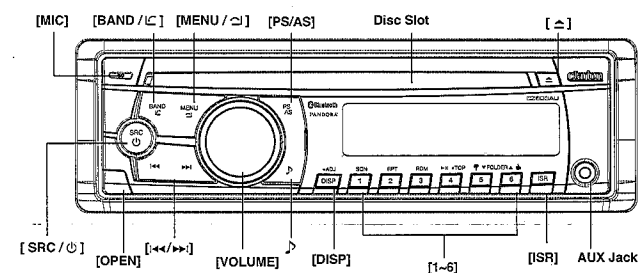
Note:
If the DCP is dirty, wipe off the dirt with a soft, dry cloth only.

CAUTION

- The DCP can easily be damaged by shocks. After removing it, be carefully not to drop it or subject it to strong shocks.
- Once the [OPEN] button is pressed and DCP is unlocked, car vibrations can cause the DCP to fall.
- The connector for the main unit and DCP is extremely important. Be careful not to damage it by pressing on it with fingernails, screwdrivers, etc.

3. CONTROLS

Operational Panel



Names of Buttons

[SRC / ϕ] Button

- Power / Toggle the audio source

[BAND / \square] Button

- RADIO mode** – Select tuner band
- BT mode** – Dial/Answer / Transfer call / Redial (long press)
- PANDORA mode** – Skip song

[MENU / \square] Button

- MP3/WMA mode** – Search function.
- CD mode** – No function.
- RADIO mode** – No function.
- BT mode** – Terminate call
- AUX mode** – No function.
- iPod mode** – iPod menu
- USB mode** – Search function
- PANDORA mode** – Station select

[Δ] Button

- Press to eject disc.

[\lll , \ggg] Buttons

- Previous / next track
- Search (long press)
- Station up/down

[Open] Button

- Unlock the front panel.

[PS / AS] Button

- Scan play / Preset scan
- Auto memory store (long press)

[\triangleright] Button

- Sound effect setting

[VOLUME] Knob

- Adjust volume level / Confirm (press)
- PANDORA mode** – Bookmark song / Artist (long press)

Names of Buttons

[ISR] Button

- Recall ISR station stored in memory and store current station in ISR memory (long press)

[1-6] Buttons

- [1] Button: Scan play / Preset station 1 / Create new station (PANDORA mode)
- [2] Button: Repeat play / Preset station 2.
- [3] Button: Random play / Preset station 3.
- [4] Button: Play / Pause / Top play (long press) / Preset station 4.
- [5] Button: Previous folder / Preset station 5. 10 tracks down (long press) / Thumbs down (PANDORA mode)
- [6] Button: Next folder / Preset station 6. 10 tracks up (long press) / Thumbs up (PANDORA mode)

[DISP] Button

- Display switch
- System setup (long press)

[MIC] Hole

- Internal microphone

Notes of remote control using

- Aim the remote control at the remote sensor on the unit.
- Remove the battery from the remote control or insert a battery insulator if the battery has not been used for a month or longer.
- DO NOT store the remote control under direct sunlight or in high temperature environment, or it may not function properly.
- Use "button shaped" lithium battery "CR2025" (3V) only.
- DO NOT subject battery to recharge, disassemble, heat or dispose in fire or water.
- Insert the battery in proper direction according to the (+) and (-) polarities.
- Store the battery in a place where children cannot reach to avoid the risk of accident.

Inserting the Battery

- Slide remote control unit's rear cover in the direction shown.
- Insert battery (CR2025) into insertion guides with printed side (+) up.
- Press battery into compartment as shown.
- Replace and slide cover until it clicks into place.



[SRC / ⏻] Button
 • Toggle the audio source
 • Power on / Power off (long press)

[⏪, ⏩] Buttons
 • Preset station up/down
 • Previous / next track
 • Search (long press)

[SCN/PS/AS] Button
 • Scan play / Preset scan
 • Auto memory store (long press)
 • **PANDORA mode** – Thumbs down

[BAND/TOP] Button
 • **CD/MP3/WMA mode**
 Top play (long press)
 • **RADIO mode** – Select tuner band
 • **PANDORA mode** – Skip song

[▲, ▼] Buttons
 • Volume up / down

[▶||] Button
 • Play / Pause

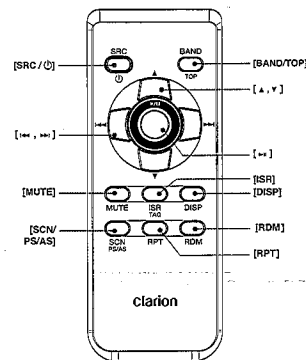
[ISR] Button
 • Recall ISR station stored in memory and store current station in ISR memory (long press)

[DISP] Button
 • Display switch

[RDM] Button
 • Random play
 • **PANDORA mode** – Thumbs up

[RPT] Button
 • Repeat play
 • **PANDORA mode**
 Bookmark song / Artist (long press)

[MUTE] Button
 • Mute the volume

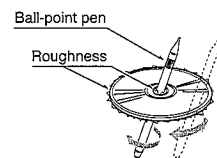


4. CAUTIONS ON HANDLING

Handling Discs

Handling

• New discs may have some roughness around the edges. If such discs are used, the player may not work or the sound may skip. Use a ball-point pen or the like to remove any roughness from the edge of the disc.



• Never stick labels on the surface of the disc or mark the surface with a pencil or pen.
 • Never play a disc with any cellophane tape or other glue on it or with peeling off marks. If you try to play such a disc, you may not be able to get it back out of the player or it may damage the player.
 • Do not use discs that have large scratches, are misshapen, cracked, etc. Use of such discs may cause misoperation or damage.
 • To remove a disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.
 • Do not use commercially available disc protection sheets or discs equipped with stabilizers, etc. These may damage the disc or cause breakdown of the internal mechanism.

Storage

• Do not expose discs to direct sunlight or any heat source.
 • Do not expose discs to excess humidity or dust.
 • Do not expose discs to direct heat from heaters.

Cleaning

• To remove fingerprints and dust, use a soft cloth and wipe in a straight line from the center of the disc to the circumference.
 • Do not use any solvents, such as commercially available cleaners, anti-static spray, or thinner to clean discs.
 • After using special disc cleaner, let the disc dry off well before playing it.

On Discs

• Never turn off the power and remove the unit from the car with a disc loaded.

CAUTION

For your safety, the driver should not insert or eject a disc while driving.

5. OPERATIONS

Basic Operations

Note:

• Refer to the diagrams in "3. CONTROLS" when reading this chapter.

CAUTION

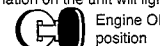
When the unit is turned on, starting and stopping the engine with its volume raised to the maximum level may harm your hearing.
 Be careful about adjusting the volume.

Power on / off

Notes:

• Start the engine before using this unit.
 • Be careful about using this unit for a long time without running the engine. If you drain the car's battery too far, you may not be able to start the engine and this can reduce the service life of the battery.

1. Start the engine. The power button / knob illumination on the unit will light up.



2. When power on first time, you can select initial speaker system. (Refer to "Audio Setup")

• **INITIAL** When powering on the unit for the first time, you can select a speaker system. Check your speaker system, choose it on the unit, and then, set your desired sound quality referring to "Audio Setup".
 • **LOAD** When powering on the unit for the first time, "LOAD" is not selected. When this unit is turned on for the first time, it allows you to select a speaker system.

"NORMAL"
 FRONT 2ch / REAR / 2ch / SUBWOOFER 2ch
"2WAY"
 HIGH 2ch / MID 2ch / REAR 2ch
"3WAY"
 HIGH 2ch / MID 2ch / SUBWOOFER 2ch

Note:

If you press the **RESET** button or disconnect the back-up line after completing the audio setup, "INITIAL / LOAD" is displayed. In this case, the unit functions as follows.

- **INITIAL** When powering on the unit after **RESET** or the backup line is disconnected, the audio setup in the memory is cleared and you will need to start from selecting a speaker system. Choose your desirable speaker system and set your desired sound quality referring to "Audio Setup".
- **LOAD** When powering on the unit after **RESET** or the backup line is disconnected, the preset speaker system and other settings are called. If you changed the speaker system, reset from **INITIAL**.
- 3. Press the **[SRC / ⏻]** button on the front panel or the remote control to turn on the power under standby mode. The unit goes back to the last status after power on.
- 4. Press and hold the **[SRC / ⏻]** button on the front panel or the remote control to turn off the power.

Mute

Press the **[MUTE]** button on the remote control to mute the volume from the unit.

Note:

Doing the operation above again or adjusting volume will release muting.

Basic Operations

Volume adjustment

Rotate the **[VOLUME]** knob on the front panel or press the **[▲]** or **[▼]** button on the remote control.

The adjustable range of volume is 0 to 40.

CAUTION

While driving, keep the volume level at which external sounds can still be heard.

Playing source selection

Press **[SRC / ⏻]** button on the front panel or remote control repeatedly to choose desired playing source.

Note:

Playing source selection means selecting which mode, such as **DISC** mode, **RADIO** mode and **AUX** mode.

Display system time

Press the **[DISP]** button on the front panel or **[DISP]** button on the remote control to switch the display information from clock, station information (radio mode), or track information (CD mode).

RESET

Note:

* When the **[RESET]** button is pressed, preset radio stations, titles, etc. stored in memory are cleared.



To keep the current sound settings, when power on first time after reset, rotate the **[VOLUME]** knob to select "LOAD", press the knob to confirm.

System Setup

In any mode, press and hold [DISP] button to enter system setup. Press [←] or [→] button to select options, rotate the [VOLUME] knob to adjust.

CLOCK

Press the [VOLUME] knob to enter clock setting mode, rotate the [VOLUME] knob to set clock, press [←] or [→] button to select hour or minute, press and hold the [VOLUME] knob to confirm.

DX/LO (RADIO mode)

Rotate the [VOLUME] knob to choose radio local or distant at radio mode.

- **LO:** Only stations with strong signal can be received.
- **DX:** Stations with strong and weak signals can be received.

AUX SENS (AUX mode)

Rotate the [VOLUME] knob to choose AUX input sensitivity LOW, MID or HIGH at AUX mode.

SELECT (BT mode)

This "SELECT" menu is intended to automatically paired by selecting a mobile phone was stored.

This unit can store three mobile phones. The mobile phone will be stored in paired order to the unit. The mobile phone can be stored up to three. The fourth mobile phone can not be stored. If you want to store a fourth mobile phone, please delete unwanted mobile phone from "DELETE" menu.

1. Rotate the [VOLUME] knob to choose the pair mobile phone name from the pairing list.
2. Press and hold the [VOLUME] knob to confirm.

DELETE (BT mode)

1. Rotate the [VOLUME] knob to choose the paired mobile phone name from the pairing list.
2. Press and hold the [VOLUME] knob to confirm.

DISCON (BT mode)

Disconnect currently connected mobile phone.

1. Rotate the [VOLUME] knob, mobile phone displays are currently connected.
2. Press and hold the [VOLUME] knob to disconnect.

MIC GAIN (BT mode)

Rotate the [VOLUME] knob to choose Mic gain: -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5. You can change the gain of MIC when a telephone partner cannot hear your voice.

You can listen to your telephone calls from the speakers connected to this unit.

*When listening to your calls on your car speakers, you can adjust the volume by turning the [VOLUME] knob.

MIC SEL (BT mode)

Rotate the [VOLUME] knob to choose Microphone EXTERNAL or INTERNAL.

TONE SEL (BT mode)

You can get mobile phone ring tone from the speaker.

Rotate the [VOLUME] knob to choose AUTO or INTERNAL.

- **AUTO:** Mobile phone ring tone from the speaker.
- **INTERNAL:** The unit original ring tone from the speaker.

AUTO ANS (BT mode)

To answer incoming calls automatically. Rotate the [VOLUME] knob to choose AUTO ANS ON or OFF.

AUTO CON: ON/OFF (BT mode)

Automatically connects the mobile phone was last connected. Rotate the [VOLUME] knob to choose AUTO CON ON or OFF.

PIN CODE

Rotate and press the [VOLUME] knob to choose a 4-digit password. Press the [VOLUME] knob more than 1 seconds to confirm. The PIN CODE default setting is "0000".

System Setup

COLOR

Rotate the [VOLUME] knob to choose backlight color.

- **SCN:** The backlight change circularly.
 - **COLOR 01~09:** Select a preset color.
 - **USER1~3:** Select your favorite color. Press the knob to enter color setting mode, press [←] or [→] button to select GREEN, BLUE or RED, the rotate the [VOLUME] knob to select a color.
- Press and hold [VOLUME] knob to memory.

SCRN SVR: ON/OFF

Rotate the [VOLUME] knob to choose SCRN SVR (screen saver) ON or OFF.

SCROLL: ON/OFF

For track information that is longer than the display panel:

When SCROLL is ON, the LCD will display ID3 TAG information cycle, e.g: TRACK->FOLDER->FILE->ALBUM->TITLE->ARTIST->TRACK->...

When SCROLL is OFF, the LCD will display one of the ID3 TAG information, the default is TRACK, but user can adjust it to other ID3 TAG information by press [DISP] button.

S-CTRL (IPOD mode) : ON/OFF

Rotate the [VOLUME] knob to choose S-CTRL (Simple Control) ON or OFF.

* Refer to P12.

PANDORA: ON/OFF

Select OFF if the Pandora application has not been installed on your iPod touch or iPhone.

TEL-SW

Rotate the [VOLUME] knob to choose MUTE, ON or OFF.

- **MUTE:** The sound from this unit is muted during telephone calls.
- **OFF:** This unit continues normal operation even when the cellular phone is used.
- **ON:** You can listen to your telephone calls from the speakers connected to this unit.

*When listening to your calls on your car speakers, you can adjust the volume by turning the [VOLUME] knob.

A-CANCEL: ON/OFF

Rotate the [VOLUME] knob to choose Amplifier-Cancel function ON or OFF. If you don't use internal amplifier, set it to ON.

DIMMER: ON/OFF

Rotate the [VOLUME] knob to choose DIMMER ON or OFF.

- **ON:** LCD dimmer is active when small light of vehicle is turned ON.
- **OFF:** LCD always maximum brightness regardless of the vehicle small light.

BEEP: ON/OFF

Rotate the [VOLUME] knob to choose button beep sound ON or OFF.

12/24H

Rotate the [VOLUME] knob to choose time format: 12 or 24 hours.

Audio Setup

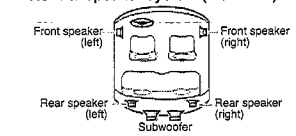
Selecting speaker

When this product is turned on for the first time or reset, user can select "LOAD" or "INITIAL" depending on the speaker system. Select "LOAD" for Normal speaker system (full range) or select "INITIAL" for 2-Way or 3-Way systems.

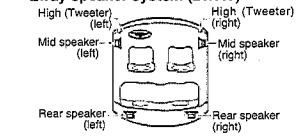
Speaker system

Speaker system	Speaker configuration			
NORMAL	Front 2ch	Rear 2ch	Subwoofer 2ch	
2-WAY	Mid 2ch	High 2ch	Rear 2ch	
3-WAY	Mid 2ch	High 2ch	Subwoofer 2ch	

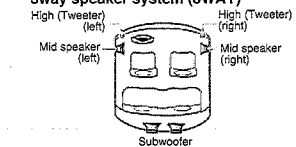
• Normal speaker system (NORMAL)



• 2way speaker system (2WAY)



• 3way speaker system (3WAY)



Setting the X-OVER(Crossover)

This function allows you to adjust the speaker setting such as cutoff frequencies or slope matched to the speakers you are using. (Crossover).

Press and hold the [] button to enter amplifier setting mode. Use the [←] or [→] button to select an option. Press [VOLUME] knob to confirm.

To return to the previous settings, press the [VOLUME] knob again.

1. When speaker system is "NORMAL".

- **TIME ALIGNMENT**
FRONT L/R: 0-----501.4cm
REAR L/R: 0-----501.4cm
SW L/R: 0-----501.4cm
- **HPF/LPF FRONT**
- FR HPF
CUT: THROUGH / 60 / 90 / 120HZ
SLOP: -12DB
PHASE: NOR / REV

- **HPF/LPF REAR**
- REAR HPF
CUT: THROUGH / 60 / 90 / 120HZ
SLOP: -12DB
PHASE: NOR / REV
- **HPF/LPF S-WOOFER**
- SW LPH
CUT: THROUGH / 60 / 90 / 120HZ
SLOP: -12DB
PHASE: NOR / REV

2. When speaker system is "2WAY".

- **TIME ALIGNMENT**
HIGH L/R: 0-----501.4cm
MID L/R: 0-----501.4cm
REAR L/R: 0-----501.4cm
- **2W XOVER**
- HIGH HPF
CUT: 25HZ / 31.5HZ / 40HZ / 50HZ / 63HZ / 80HZ / 100HZ / 125HZ / 160HZ / 200HZ / 250HZ / 315HZ / 400HZ / 500HZ / 630HZ / 800HZ / 1K / 1.25K / 1.6K / 2K / 2.5K / 3.15K / 4K / 5K / 6.3K / 8K / 10.0K / 12.5K / 16K / 20K / THROUGH
SLOP: -6 / -12DB
- HIGH SPK: PHASE NOR/PHASE REV
- MID LPF
CUT: 630HZ / 800HZ / 1K / 1.25K / 1.6K / 2K / 2.5K / 3.15K / 4K / 5K / 6.3K / 8K / 10.0K / THROUGH
SLOP: -6 / -12DB
- MID SPK: PHASE NOR/PHASE REV
- MID HPF
CUT: 25HZ / 31.5HZ / 40HZ / 50HZ / 63HZ / 80HZ / 100HZ / 125HZ / 160HZ / 200HZ / 250HZ / 315HZ / 400HZ / 500HZ / 630HZ / 800HZ / 1K / 1.25K / 1.6K / 2K / 2.5K / 3.15K / 4K / 5K / 6.3K / 8K / 10.0K / THROUGH
SLOP: -6 / -12DB
- MID SPK: PHASE NOR/PHASE REV
- SW LPH
CUT: 25HZ / 31.5HZ / 40HZ / 50HZ / 63HZ / 80HZ / 100HZ / 125HZ / 160HZ / 200HZ / 250HZ / 315HZ / 400HZ / 500HZ / 630HZ / 800HZ / 1K / 1.25K / 1.6K / 2K / 2.5K / 3.15K / 4K / 5K / 6.3K / 8K / 10.0K / THROUGH
SLOP: -6 / -12DB
- MID HPF
CUT: 25HZ / 31.5HZ / 40HZ / 50HZ / 63HZ / 80HZ / 1K / 1.25K / 1.6K / 2K / 2.5K / 3.15K / 4K / 5K / 6.3K / 8K / 10.0K / THROUGH
SLOP: -6 / -12DB
- MID SPK: PHASE NOR/PHASE REV
- REAR LPH
CUT: 25HZ / 31.5HZ / 40HZ / 50HZ / 63HZ / 80HZ / 100HZ / 125HZ / 160HZ / 200HZ

Audio Setup

- / 250HZ / 315HZ / 400HZ / 500HZ / 630HZ / 800HZ / 1K / 1.25K / 1.6K / 2K / 2.5K / 3.15K / 4K / 5K / 6.3K / 8K / 10.0K / THROUGH
SLOP: -6 / -12DB
- REAR HPF
CUT: 16HZ / 20HZ / 25HZ / 31.5HZ / 40HZ / 50HZ / 63HZ / 80HZ / 100HZ / 125HZ / 160HZ / 200HZ / 250HZ / THROUGH
SLOP: -6 / -12DB
- REAR SPK: PHASE NOR/PHASE REV
- **SP GAIN**
HIGH: -20-----0DB
MID: -20-----0DB
REAR: -20-----0DB

3. When speaker system is "3WAY".

- **TIME ALIGNMENT**
HIGH L/R: 0-----501.4cm
MID L/R: 0-----501.4cm
SW L/R: 0-----501.4cm
- **3W XOVER**
- HIGH HPF
CUT: 25HZ / 31.5HZ / 40HZ / 50HZ / 63HZ / 80HZ / 100HZ / 125HZ / 160HZ / 200HZ / 250HZ / 315HZ / 400HZ / 500HZ / 630HZ / 800HZ / 1K / 1.25K / 1.6K / 2K / 2.5K / 3.15K / 4K / 5K / 6.3K / 8K / 10.0K / 12.5K / 16K / 20K / THROUGH
SLOP: -6 / -12DB
- HIGH SPK: PHASE NOR/PHASE REV
- MID LPF
CUT: 630HZ / 800HZ / 1K / 1.25K / 1.6K / 2K / 2.5K / 3.15K / 4K / 5K / 6.3K / 8K / 10.0K / THROUGH
SLOP: -6 / -12DB
- MID SPK: PHASE NOR/PHASE REV
- MID HPF
CUT: 25HZ / 31.5HZ / 40HZ / 50HZ / 63HZ / 80HZ / 100HZ / 125HZ / 160HZ / 200HZ / 250HZ / 315HZ / 400HZ / 500HZ / 630HZ / 800HZ / 1K / 1.25K / 1.6K / 2K / 2.5K / 3.15K / 4K / 5K / 6.3K / 8K / 10.0K / THROUGH
SLOP: -6 / -12DB
- MID SPK: PHASE NOR/PHASE REV
- SW LPH
CUT: 25HZ / 31.5HZ / 40HZ / 50HZ / 63HZ / 80HZ / 100HZ / 125HZ / 160HZ / 200HZ / 250HZ / 315HZ / 400HZ / 500HZ / 630HZ / 800HZ / 1K / 1.25K / 1.6K / 2K / 2.5K / 3.15K / 4K / 5K / 6.3K / 8K / 10.0K / THROUGH
SLOP: -6 / -12DB
- MID HPF
CUT: 25HZ / 31.5HZ / 40HZ / 50HZ / 63HZ / 80HZ / 100HZ / 125HZ / 160HZ / 200HZ / 250HZ / 315HZ / 400HZ / 500HZ / 630HZ / 800HZ / 1K / 1.25K / 1.6K / 2K / 2.5K / 3.15K / 4K / 5K / 6.3K / 8K / 10.0K / THROUGH
SLOP: -6 / -12DB
- MID SPK: PHASE NOR/PHASE REV
- SW HPF
CUT: THROUGH / 16HZ / 20HZ / 25HZ / 31.5HZ / 40HZ / 50HZ / 63HZ / 80HZ / 100HZ / 125HZ / 160HZ / 200HZ / 250HZ

- SLOP: -6 / -12DB
- SW SPK: PHASE NOR/PHASE REV
- **SP GAIN**
HIGH: -20-----0DB
MID: -20-----0DB
S-WOOFER: -20-----0DB

STORE/RECALL (NORMAL, 2WAY and 3WAY mode)

Rotate the [VOLUME] knob to choose "STORE / RECALL". Press the [VOLUME] knob to confirm.

- **STORE**
Rotate the [VOLUME] knob to select a position among "MEMORY 1, 2 and 3". Then press and hold the [VOLUME] knob to store.
- **RECALL**
Rotate the [VOLUME] knob to select a position among "MEMORY 1, 2 and 3". Then press the [VOLUME] knob to recall.

Adjusting Sound Mode

Short-press the [] button to enter sound effect setting mode. First press shows current EQ. Rotate the [VOLUME] knob to change the BEAT EQ in this order:
OFF -> B-BOOST -> IMPACT -> EXCITE -> CUSTOM
Rotate the [VOLUME] knob to choose the CUSTOM, and press the [VOLUME] knob, then press [←] or [→] button to select it including:
BAND 1 G -> BAND 1 F -> BAND 1 Q -> BAND 2 G -> BAND 2 F -> BAND 2 Q -> BAND 3 G -> BAND 3 F -> BAND 3 Q -> BAND 4 G -> BAND 4 F -> BAND 4 Q -> BAND 5 G -> BAND 5 F -> BAND 5 Q, rotate the [VOLUME] knob to select a value.
BAND 1/2/3/4/5 G: (-12) - (+12)
BAND 1/2/3/4/5 F: 20HZ - 20.0K, THROUGH
BAND 1/2/3/4/5 Q: 1, 3, 5, 7, 20

Press the [] button, then press [←] or [→] button to select USER preset including:
BALANCE -> FADER -> SUBW VOL(Subwoofer Volume), rotate the [VOLUME] knob to select a value.
BALANCE: LEFT 1-12->CENTER->RIGHT 1-12
FADER: LEFT 1-12->CENTER->RIGHT 1-12
SUBW VOL: (-6) - (+6)

Note:
The setting items below are not stored in memory. After RESET or the back-up line is disconnected, redo these settings. We recommend you to take a note to keep the records.

Radio Operations

Select tuner as playing source

Press [SRC / \odot] button once or more to enter RADIO mode.

Selecting the radio band

Press the [BAND / \square] button on the panel or on the remote control to select one radio band among FM1, FM2, FM3, AM.

Manual tuning

During manual tuning, the frequency will be changed in steps.
Press the [\ll] or [\gg] button on the panel to tune in a higher / lower station.
Press the [\ll] or [\gg] button on the remote control to select preset stations.

Auto tuning

Press and hold the [\ll] or [\gg] button to seek a higher / lower station.
To stop searching, repeat the operation above or press other buttons having radio functions.

Note:

When a station is received, searching stops and the station is played.

Preset scan

Preset scan receives the stations stored in preset memory in order. This function is useful when searching for a desired station in memory.

1. Press the [PS/AS] button.
2. When a desired station is tuned in, press the [PS/AS] button again to continue receiving that station.

Note:

Be careful not to press and hold the [PS/AS] button for 1 second or longer, otherwise the auto store function will begin and the unit starts storing stations.

Auto store

Only stations with sufficient signal strength will be detected and stored in the memory.
Press and hold the [PS/AS] button (1 sec.) to start automatic station search.

To stop auto store, press other buttons having radio functions.

Notes:

1. After auto store, the previous stored stations will be overwritten.
2. The unit has 4 bands, such as FM1, FM2, FM3 and AM. FM3 and AM can store by AS function. Each band can store 6 stations, CZ603AU can store 24 stations in total.

Manual store

When one expected radio station has been detected, press and hold number button 1-6 to store it in the memory.

Recall the stored stations

Press one numeric button among 1 to 6 on the panel to select the corresponding stored station.

Local seeking

When LOCAL seeking is ON, only those radio stations with strong radio signal could be received.

To select LOCAL function, press and hold the [DISP] button on the front panel, then press [\gg] button repeatedly until LO or DX displays on the screen, and rotate the [VOLUME] knob to select Local or Distant mode.

Note:

The number of radio stations that can be received will decrease after the local seeking mode is ON.

CD/MP3/WMA Operations

Playback of MP3/WMA files

Notes:

- If you play a WMA file with active DRM (Digital Rights Management), there will be no audio.

To disable DRM

(Digital Rights Management)

When using Windows Media Player 9/10/11, click on Tool -> Options -> Copy Music tab, then under Copy settings, unclick the Check box for copy project music. Then, reconstruct files.

Personally constructed WMA files are used at your own responsibility.

Precautions when creating MP3 / WMA files

Usable sampling rates and bit rates

1. MP3: Sampling rate 8 kHz-48 kHz, Bit rate 8 kbps-320 kbps / VBR
2. WMA: Bit rate 8 kbps-320 kbps

File extensions

1. Always add a file extension ".MP3", ".WMA" to MP3, WMA file by using single byte letters. If you add a file extension other than specified or forget to add the file extension, the file cannot be played.
2. Files without MP3/WMA data will not play. The files will be played soundlessly if you attempt to play files without MP3/WMA data.
 - * When VBR files are played, the play time display may differ the play location.
 - * When MP3/WMA files are played, a little no sound part is caused between tunes.

Logical format (File system)

1. When writing MP3/WMA file on a CD-R disc or CD-RW disc, please select "ISO9660 level 1, 2 or Joliet" or Apple ISO as the writing software format. Normal play may not be possible if the disc is recorded on another format.
2. The folder name and file name can be displayed as the title during MP3/WMA play

but the title must be within 32 single byte alphabetical letters and numerals (including an extension).

3. Do not affix a name to a file inside a folder having the same name.

Folder structure

A disc with a folder having more than 8 hierarchical levels will be impossible.

Number of files or folders

1. Up to 999 files can be recognized per folder. Up to 3000 files can be played.
2. Tracks are played in the order that they were recorded onto a disc. (Tracks may not always be played in the order displayed on the PC.)
3. Some noise may occur depending on the type of encoder software used while recording.

Eject function

Just pressing the [\square] button, ejects the disc.

Notes:

- If you force a CD into before auto reloading, this can damage the CD.
- If a CD (12 cm) is left ejected for 15 seconds, the CD is automatically reloaded (Auto reload).

Listening to a disc already loaded in the unit

Press the [SRC / \odot] button to select the CD/MP3/WMA mode.

When the unit enters the CD/MP3/WMA mode, play starts automatically.

Loading a CD

Insert a CD into the center of the CD SLOT with label facing up. The CD plays automatically after loading.

Notes:

- Never insert foreign objects into the CD SLOT.
- If the CD is not inserted easily, there may be another CD in the mechanism or the unit may require service.

CD/MP3/WMA Operations

- Discs without the \odot or \square mark and CD-ROMs cannot be played by this unit.
- Some CD-R/CD-RW discs may not be usable.

Pausing play

1. Press the [4] button to pause play. "PAUSE" appears in the display.
2. To resume CD play, press the [4] button again.

Displaying CD titles

This unit can display title data for MP3/WMA disc.

When SCROLL is OFF, each time you press the [DISP] button to change the title display.

MP3/WMA disc

Track -> Folder -> File title -> Album -> Title -> Artist -> Track ...

Notes:

- If MP3/WMA disc has no ID3 TAG, "NO TITLE" appears in the display.
- Only ASCII characters can be displayed in Tags.

Selecting a track

Track-up

1. Press the [\gg] button to move ahead to the beginning of the next track.
2. Each time you press the [\gg] button, the track advances ahead to the beginning of the next track.
3. For MP3/WMA disc, press and hold the [6] button (1 sec.) to move ahead to +10 tracks.

Track-down

1. Press the [\ll] button to move back to the beginning of the current track.
2. Press the [\ll] button twice to move back to the beginning of the previous track.
3. For MP3/WMA disc, press and hold the [5] button (1 sec.) to move back to -10 tracks.

Fast-forward/Fast-reverse

Fast-forward

Press and hold the [\gg] button .

Fast-reverse

Press and hold the [\ll] button .

- For MP3/WMA discs, it takes some time until the start of searching and between tracks. In addition, some errors may occur in the play time.

Folder Select

This function allows you to select a folder containing MP3/WMA files and start playing from the first track in the folder.

1. Press the [5] or [6] button. Press the [6] button to move the next folder. Press the [5] button to move the previous folder.
2. To select a track, press the [\ll] or [\gg] button.

Search Function

1. Press the [MENU / \square] button to enter FOLD SCH mode. Press the [VOLUME] button to enter the folder list search mode.
2. Turn the [VOLUME] knob to select a folder.
3. Press the [VOLUME] button to enter the file list search mode. And then the track list appears in the display.
4. Turn the [VOLUME] knob to select a track.
5. Press the [VOLUME] knob to play.
 - When play back MP3 / WMA file, this function is performed in the current folder.

Top function

The top function resets the CD player to the first track of the disc. Press and hold the [4] button (1 sec.) to play the first track (track No. 1) on the disc.

- * In case of MP3/WMA, the first track of the current folder will be played.

CD/MP3/WMA Operations

Other various play functions

Scan play

This function allows you to locate and play the first 10 seconds of all the tracks recorded on a disc.

Press the [1] button to perform scan play.

Repeat play

This function allows you to play the current track repeatedly or play a track currently being played in the MP3/WMA folder repeatedly.

CD:

1. Press the [2] button once or more until "RPT ON" appears on the LCD to perform repeat play.
2. Press [2] button again to cancel repeat playback, "RPT OFF" appears on the LCD.

MP3/WMA:

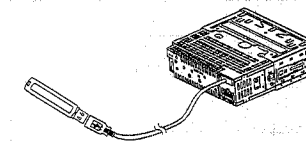
1. Press the [2] button once or more until "TRACK RPT" appears on the display to perform repeat play, and "RPT" segment lights on.
2. For MP3/WMA files, press [2] button repeatedly until "FOLD RPT" appears on the display for folder repeat play.
3. Press [2] button repeatedly until "RPT OFF" appears on the display to cancel repeat playback, and "RPT" segment goes off.

Random play

This function allows you to play all tracks recorded on a disc in a random order. Press the [3] button to perform random play.

USB Operations

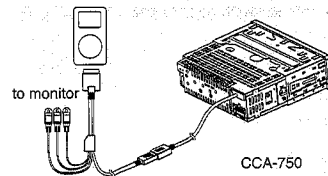
1. Insert an USB device into the USB connector. When connecting a USB device, the unit will read the files automatically.
2. To remove the USB device, you should first select another source or turn off the power, in order to avoid damaging the USB device. Then take off the USB device.
3. Operation is same as MP3/WMA operation.



iPod & iPhone Operations

Connect

Connect an iPod or iPhone to the USB connector via CCA-750 cable. When connecting a device, the unit will read the files automatically. The track information displays on the screen once playback start.



MENU

In the S-CTRL OFF mode, press [MENU / ⏏] button, rotate the [VOLUME] knob select "MUSIC" or "VIDEO".

Select "MUSIC", press the [VOLUME] knob, then rotate the [VOLUME] knob to show PLAY LISTS / ARTISTS / ALBUMS / GENRES / SONGS / COMPOSERS, press and rotate the [VOLUME] knob to select a desired option, then press the [VOLUME] knob to confirm.

Select "VIDEO", press the [VOLUME] knob, then rotate the [VOLUME] knob to show MOVIES / MUSIC VIDEO / TV SHOWS / VIDEO PODCASTS / RENTALS, press and rotate the [VOLUME] knob to select a desired option, then press the [VOLUME] knob to confirm.

Note:

- VIDEO MENU item is different by the model of connected iPod and language setting.

Repeat play

This function allows you to play the current track repeatedly or play all tracks in your iPod/iPhone repeatedly.

1. Press the [2] button once or more until "RPT ON" appears on the LCD to perform repeat play.
2. Press [2] button repeatedly until "RPT OFF" appears on the LCD to cancel repeat playback.

Random play

This function allows you to play all tracks recorded on a disc in a random order.

1. Press [3] button repeatedly until "ALBUM RDM" appears on the LCD for album random play.
2. Press the [3] button once or more until

"SONG RDM" appears on the LCD to perform random play.

3. Press [3] button repeatedly until "RDM OFF" appears on the LCD to cancel random playback.

Setting iPod simple control mode

Use this function if you wish to operate through your iPod connected to this unit via the USB cable.

* The factory default setting is "OFF".

1. Press and hold [DISP] button to enter system setup.
2. Press [⏪] or [⏩] button to select "S-CTRL".
3. Rotate the [VOLUME] knob to select "ON" or "OFF".
 - ON: Operations are made through your iPod.
 - OFF: Operations cannot be made through your iPod.

Notes:

- When performing iPod operations using simple control mode, make the operations slowly. If repetitive operations are performed too quickly, unforeseen errors may occur.
- When performing iPod operations using simple control mode, please do not operate the iPod and the unit at the same time, otherwise there may be unexpected event happened.
- Some iPod models do not support this function. Consult your nearest Clarion dealer or website to confirm which models do not support this function.

iPod & iPhone Operations

iPod menu alphabet search

This function searches the subfolders for desired alphabetical letters.

1. Press the [MENU / ⏏] button to select the iPod menu mode.
2. Press the [VOLUME] knob to switch between categories. MUSIC: PLAYLIST, ARTISTS, ALBUMS, GENRES, SONGS, COMPOSERS VIDEO: MOVIES, MUSIC VIDEOS, TV SHOWS, VIDEO PADCASTS, RENTALS
3. Press the [VOLUME] knob. (The contents of the category are displayed.)
4. Press and hold the [DISP] button (1 sec.).
5. Rotate the [VOLUME] knob to select the desired letter to search.
6. Press the [DISP] button again to next perform search.
7. Press the [VOLUME] knob to confirm.

Listening to Pandora®

You can stream Pandora internet radio by connecting an iPhone/iPod that has the Pandora mobile application already installed.

To start streaming, connect the iPhone/iPod with Pandora already launched.

When the unit displays "PLEASE LAUNCH PANDORA APPLICATION ON MOBILE DEVICE" in Pandora mode, please launch the Pandora mobile application by operating the iPhone/iPod connected.

1. Press the [SRC / ⏏] button to enter the Pandora mode.

Selecting a station from list

Press the [MENU / ⏏] button and select "BY DATE" or "A-Z" by rotating the [VOLUME] knob and press the [VOLUME] knob.

- BY DATE: List in an created date order
- A-Z: List in an alphabetical order

Go to next station or previous station(an alphabetical order)

Press the [▶▶] button on the panel or remote control to go to next station.

Press the [◀◀] button on the panel or remote control to go to previous station.

Thumbs up/down

Thumbs up:

press the [6] button on the panel or the [RDM] button on the remote control for thumbs up. Giving a track the thumbs up will tell Pandora to play more tracks like that one.

Thumbs down:

press the [5] button on the panel or the [SCN] button on the remote control for thumbs down. Giving a track the thumbs down will skip to the next track (subject to skip limit), and Pandora will remember not to play that track on the station again.

Notes:

- You can personalise your stations by "thumbs up" or "thumbs down".
- If you give a track the thumbs down after the skip limit has been exceeded, your feedback will be saved but the current track will continue to play.

BOOKMARK artist or song

Short-press the [VOLUME] knob or the [RPT] button on the remote control to Bookmark artist. Long-press the [VOLUME] knob or the [RPT] button on the remote control to Bookmark current artist of the track.

Creating new stations

Short-press the [1] button on the panel to create a new station from the current artist. Long-press the [1] button on the panel to create a new track.

Note:

If the name of the station you wish to create for a track title or an artist name is the same as the station name currently playing, "NOW PLAY" appears on the display and the station will not be created.

Skip

Press the [BAND / ⏏] button on the panel or on the remote control for the next tracks in station.

iPod & iPhone Operations

Note:

- Pandora limits the number of skips allowed on their service. If you attempt to skip tracks beyond the limit, "SKIP LIMIT" is displayed.

Play/Pause

Press the [4] button on the panel or the [▶▶] button on the remote control for play/ pause.

Connect

Connect an iPod or iPhone to the USB connector via CCA-750 cable.

When connecting a device, the unit will read the files automatically. The track information displays on the screen once playback start.

MENU

In the S-CTRL OFF mode, press [MENU / ⏏] button, rotate the [VOLUME] knob select "MUSIC" or "VIDEO".

Select "MUSIC", press the [VOLUME] knob, then rotate the [VOLUME] knob to show PLAY LISTS / ARTISTS / ALBUMS / GENRES / SONGS / COMPOSERS, press and rotate the [VOLUME] knob to select a desired option, then press the [VOLUME] knob to confirm.

Bluetooth Operations

The Bluetooth allows you to utilize your car's built-in audio system for wireless mobile phone or music handsfree communication. Some Bluetooth mobile phones have the audio features, and some portable audio players support Bluetooth feature. This system can play audio data stored in a Bluetooth audio device. The car stereo with Bluetooth will be able to retrieve phonebook contacts, received call, dialed call, missed call, incoming calls, outgoing call and listen to music.

Notes:

- Do not leave the microphone of Bluetooth handsfree in the places with wind passing

Select "VIDEO", press the [VOLUME] knob, then rotate the [VOLUME] knob to show MOVIES / MUSIC VIDEOS / TV SHOWS / VIDEO PODCASTS / RENTALS, press and rotate the [VOLUME] knob to select a desired option, then press the [VOLUME] knob to confirm

Note:

- VIDEO MENU item is different by the model of connected iPod and language setting.

Repeat play

This function allows you to play the current track repeatedly or play all tracks in your iPod/iPhone repeatedly.

1. Press the [2] button once or more until "RPT ON" appears on the LCD to perform repeat play.
2. Press [2] button repeatedly until "RPT OFF" appears on the LCD to cancel repeat playback.

such as air outlet of the air conditioner, etc. This may cause a malfunction.

- If leave it in the places subjected to direct sun, high temperature can cause distortion, discoloration which may result in a malfunction.
- This system will not operate or may operate improperly with some Bluetooth audio players.
- Clarion cannot guarantee the compatibility of all mobile phones together with unit.
- Audio playback will be set to the same volume level as set during telephone call. This might cause problems, if extreme volume level is set during telephone call.

Bluetooth Operations

Handsfree Operations

Pairing

1. Turn on Bluetooth function of your mobile phone.
2. Enter mobile phone's Bluetooth setup menu.
3. Search for new Bluetooth devices.
4. Select CZ603AU from the pairing list on the mobile phone.
5. Enter "0000" as the password (The password default setting is "0000")
6. After pairing successfully, the unit will enter Bluetooth mode automatically, and "BLUETOOTH CONNECTED" will appear on the LCD.
7. The unit can store 3 mobile phones.

• During pairing, depending on type of mobile phone, a six digit PIN code will be shown on both the source unit's display and the mobile phone. In this case, please make sure that you have the same PIN code on both devices, and then confirm on the mobile phone.

Making a call

Operation from Bluetooth menu

Press the [SRC / ⏏] button to switch the source to "BLUETOOTH". Press [MENU / ⏏] button to select a way to make outgoing call:

Dial Number

1. Press the [MENU / ⏏] button.
2. Rotate the [VOLUME] knob on the front panel to switch, "DIAL NUMBER".
3. Press the [VOLUME] knob to confirm the selection.
4. Rotate the [VOLUME] knob to select a number, press the knob to confirm and ready to input the next digit. Repeat the above until all numbers inputted.
5. Press the [VOLUME] knob to dial.
6. Press [MENU / ⏏] to terminate call.

Dialled / Missed / Received

You can search any Dialled/Missed/Received.

1. Rotate the [VOLUME] knob to select "DIALLED", "MISSED", "RECEIVED".
2. Press the [VOLUME] knob to enter the selected call history.

3. Rotate the [VOLUME] knob to scroll the contacts.

4. When the contact name or mobile phone No. is displayed, press the [VOLUME] knob to call the mobile phone No. of that contact.

* Press the [MENU / ⏏] button to end the call.

• Call from Phonebook
User can search the contact name in the phonebook and make call.

1. Rotate the [VOLUME] knob to select "USER PHONEBOOK".
2. Press the [VOLUME] knob to enter the selected phonebook.
3. Rotate the [VOLUME] knob to scroll the contacts.

4. The phone number and the name to scroll display. When the contact name is displayed, press the [VOLUME] knob to call the mobile phone No. of that contact.
 - * Press the [MENU / ⏏] button to end the call.

Note:

- Some mobile phones may not be able to transfer data of Phonebook.
- After RESET, please wait few minutes until data transferred following to the Bluetooth mode selection. During that, "PHONEBOOK UPDATING" is on the display.

Redial

You can call last dialed number. Press and hold the [BAND / ⏏] button (1sec).

Transfer Call

You can switch Handsfree call and mobile phone call.

Press the [BAND / ⏏] button during call.

Answering a call

You can answer an incoming call by pressing the [BAND / ⏏] button.

- * Press the [MENU / ⏏] button to reject an incoming call.

Bluetooth Operations

Audio Streaming Operations

What is audio streaming?

Audio streaming is a technique for transferring audio data such that it can be processed as a steady and continuous stream. Users can stream music from their external audio player to their car stereo wirelessly and listen to the tracks through the car's speakers. Please consult your nearest Clarion dealer for more information on the product of wireless audio streaming transmitter offered.

CAUTION

Please avoid operating your connected mobile phone while audio streaming as this may cause noise or sound choppy on the song playback.

Audio streaming may or may not resume after telephone interrupt as this is dependent on mobile phone.

System will always return to Radio mode if audio streaming is disconnected.

Note:
Be sure to read the chapter "Pairing" before proceeding.

Play / Pause a track

1. Press the [4] button to pause audio playback.
2. To resume audio playback, press the [4] button again.

Selecting a track

Track-up

1. Press the [>>] button to move to the beginning of the next track.
2. Each time the [>>] button is pressed, playback proceeds to another track in the advancing direction.

Track-down

1. Press the [<<] button to move to the beginning of the previous track.
2. Each time the [<<] button is pressed, playback proceeds to previous track in the reverse direction.

Note:

Playing order will depend on Bluetooth audio player. When [<<<] button is pressed, some A2DP devices will restart the current track depends on the duration of playback. During music streaming playback, "A2DP" and "HFP" will be shown on the display. When A2DP device is disconnected, "BLUETOOTH DISCONNECT" will be shown on the display and return to previously selected audio source. Some Bluetooth audio players may not have play / pause synchronized with this unit. Please make sure both device and main unit are in the same play / pause status in BT MUSIC mode.

ID3 display

During music streaming playback, for music information that is longer than the display panel:

When SCROLL is ON, the LCD will display ID3 TAG information cyclely, e.g: TRACK->ALBUM->TITLE->ARTIST->TRACK->...

When SCROLL is OFF, the LCD will display one of the ID3 TAG information, the default is TRACK, but user can adjust it to other ID3 TAG information by press [DISP] button.

AUX Operations

Press [SRC / Ⓞ] button on the panel to select "AUX".

AUX is just for audio content with 3.5mm Jack connector plugged into audio-in socket on the front panel.

AUX Input sensitivity setting

1. Press and hold the [DISP] button (1 sec.).
2. Turn the [VOLUME] knob to select "AUX SENS".
3. If the output level of connected external audio player is "HIGH", rotate [VOLUME] knob and choose "LOW". And if the output level is "LOW", choose "HIGH".

6. TROUBLE SHOOTING

GENERAL

Problem	Cause	Measure
Unit can not power on.	Unit fuse blown.	Replace with new fuse of correct rating.
	Car battery fuse blown.	Replace with new fuse of correct rating.
Unit can not power on. Nothing happens when buttons are pressed.	The microprocessor has malfunctioned due to noise, etc.	Turn off the power and remove the DCR. Press the [RESET] button with a thin rod.
		Note: When the [RESET] button is pressed, turn off the ACC power.*
Display is not accurate.		* When the [RESET] button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared.
No/low audio output.	Improper audio output connection.	Check wiring and correct.
	Volume set too low.	Increase volume level.
	Speakers damaged.	Replace speakers.
	Heavily biased volume balance.	Adjust the channel balance to center position.
Poor sound quality or distortion.	Speaker wiring is in contact with metal part of car.	Insulate all speaker wiring connections.
	Non-standard disc used.	Use a standard disc.
	Speaker power rating does not match unit.	Replace speakers.
Unit resets itself when engine is off.	Wrong connections.	Check wiring and correct.
	Speaker is shorted.	Check wiring and correct.
	Incorrect connection between ACC and Battery.	Check wiring and correct.

DISC Player

Problem	Cause	Measure
Disc cannot be loaded.	Another disc is already loaded.	Eject the disc before loading the new one.
	There is an object installed inside the unit.	Remove the object inside the unit.
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 when power is first turned on.	Condensation may form on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with power on.

USB Devices

Problem	Cause	Measure
USB device cannot be inserted.	The USB device has been inserted with wrong direction.	Reversing the connection direction of the USB device, try it again.
	The USB connector is broken.	Replace with a new USB device.
USB device is not recognized.	The USB device is damaged.	Disconnect the USB device and reconnect. If the device is still not recognized, try replacing with a different USB device.
	Connectors are loose.	
No sound heard with the display "No File" shown.	No MP3/WMA file is stored in the USB device.	Store these files properly in the USB device.
Sound skips or is noisy.	MP3/WMA files are not encoded properly.	Use MP3/WMA files encoded properly.

Bluetooth

Problem	Cause	Measure
Cannot pair the Bluetooth enabled device with the car audio system.	The device does not support the profiles required for the system.	Use another device to connect.
	The Bluetooth function of the device is not enabled.	Refer to the user manual of the device for how to enable the function.
The audio quality is poor after connection with a Bluetooth-enabled device.	The internal microphone gain is not set correctly.	Adjust the gain of the internal microphone in System Setup.
	The external microphone is not set correctly nor properly positioned.	Adjust the gain and position of the external microphone. For example, stick the microphone onto the dashboard so it is close to the driver.

7. ERROR DISPLAYS

If an error occurs, one of the following displays is displayed. Take the measures described below to solve the problem.

Display	Cause	Measure
ERROR 3	Disc is inserted incorrectly.	Eject the disc then reload it properly.
	The disc format is not supported.	Try another disc.
ERROR 5	This is a failure of deck's mechanism.	Consult your store of purchase.

If an error display other than the ones described above appears, press the [RESET] button. If the problem persists, turn off the power and consult your store of purchase.

When the [RESET] button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared.

8. SPECIFICATIONS

FM Tuner

Frequency range: 87.5-108MHz
Usable sensitivity: 8dBf
Frequency response: 30Hz-15kHz
Stereo separation: 30dB(1kHz)
Signal/noise ratio: >55dB

AM Tuner

Frequency range: 531-1629kHz
Usable sensitivity (S/N=20dB): 30dBμ

CD Player

System: Disc digital audio system
Frequency response: 20Hz-20kHz
Signal/noise ratio: >94dB
Total harmonic distortion: Less than 0.1% (1kHz)
Channel separation: >60dB

MP3/WMA mode

MP3 sampling rate: 8 kHz to 48 kHz
MP3 bit rate: 8 kbps to 320 kbps / VBR
WMA bit rate: 8 kbps to 320 kbps
Logical format: ISO9660 level 1,2
Joliet file system

USB

Specification: USB 1.0/2.0
Playable audio format:
MP3(.mp3); MPEG 1/2/Audio Layer-3
WMA(.wma); Ver 7/8/9.1/9.2

Bluetooth

Specification: Bluetooth Ver. 2.0+EDR
Profile: HFP (Hands-free Profile)
PBAP (Phone Book Access Profile)
A2DP (Advanced Audio Distribution Profile)
AVRCP (AV Remote Control Profile)
Send/Receive Sensitivity: Class 2

Audio Amplifier

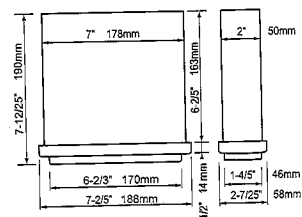
Maximum power output:
200W (50W x 4)
Speaker impedance: 4Ω (4 to 8 Ω allowable)

Input

Audio input sensitivity:
High: 320mV (at 2.5V output)
Mid: 650mV (at 2.5V output)
Low: 1.3V (at 2.5V output)
(input impedance 10 kΩ or greater)
Aux-in level: $\leq 2V$

General

Power supply voltage:
14.4VDC (10.8 to 15.6V allowable),
negative ground
Pre-Amp output voltage:
5.0V (CD play mode: 1kHz, 0dB, 10kΩ load)
Fuse: 15A
Dimensions of the Main Unit:
188mm Width x 58mm Height x 190mm Depth
7-2/5(width) x 2-7/25(Height) x 7-12/25(Depth)
Weight of the Main Unit: 3.1lb. (1.40kg)
Dimensions of the Remote Control unit:
43mm Width x 11mm Height x 113mm Depth
1-2/3(Width) x 2/5(Height) x 4-2/5(Depth)
Weight of the Remote Control Unit:
1.16oz. (36g) (including battery)



Note:
Specifications and design are subject to change without notice for further improvement.

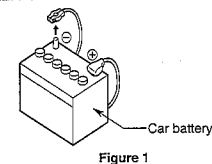
9. INSTALLATION / WIRE CONNECTION GUIDE

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- 4) Cautions on Installation 17
- 5) Installing the Source Unit 17
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1) Before Starting

- This set is exclusively for use in cars with a negative ground 12 V power supply.
- Read these instructions carefully.
- Be sure to disconnect the battery "terminal" before starting. This is to prevent short circuits during installation. (Figure 1)



2) Package Contents

Source unit 1	Wire connector 1
Front panel 1	Remote control unit (with battery) 1
Trim ring 1	DCP case 1
Mounting bracket 1	Owner's manual 1
Screws M5x6 mm 4	Special screw (Front panel lock) 1
L-key 2	Warranty card 1

3) General Cautions

- Do not open the case. There are no user serviceable parts inside. If you drop anything into the unit during installation, consult your dealer or an authorized Clarion service center.
- Use a soft, dry cloth to clean the case. Never use a rough cloth, thinner, benzene, or alcohol etc. For tough dirt, apply a little cold or warm water to a soft cloth and wipe off the dirt gently.

4) Cautions on Installation

- Prepare all articles necessary for installing the source unit before starting.
- Install the unit within 30° of the horizontal plane. (Figure 2)
- If you have to do any work on the car body, such as drilling holes, consult your car dealer beforehand.
- Use the enclosed screws for installation. Using other screws can cause damage. (Figure 3)

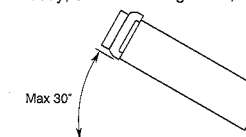


Figure 2

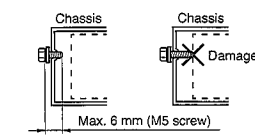


Figure 3

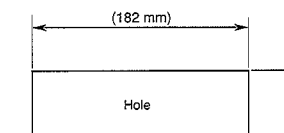
5) Installing the Source Unit

- Place the mounting bracket into the instrument panel, use a screwdriver to bend each stopper of the mounting bracket inward, then secure the stopper.
- Wire as shown in Section 7).
- Insert the source unit into the mounting bracket until it locks.
- Take care of the top and bottom of the trim ring and mount it so that all the hooks are locked.

Notes:

- Some car models require special mounting kits for proper installation. Consult your Clarion dealer for details.
- Fasten the front stopper securely to prevent the source unit from coming loose.

Console opening dimensions



Notes of installation

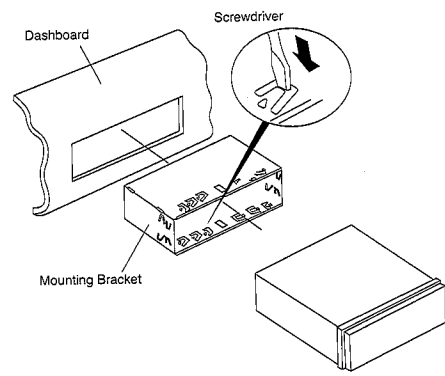
1. Before installation, please make sure proper connections are conducted and the unit operates normally. Improper connection may result in damage to the unit.
2. Use only accessories designed and manufactured for this unit and other unauthorized accessories may result in damage to the unit.
3. Before installation, please fasten all power cables.
4. DO NOT install the unit in the place where close to hot area to prevent damage to electrical components such as the laser head.
5. Install the unit horizontally. Installing the unit more than 30 degree vertically may result in worse performance.

6. To prevent electric spark, connect the positive pole first and then the negative pole.
7. DO NOT block the cooling fan exit to ensure sufficient heating dissipation of this unit, or it may result in damage to this unit.

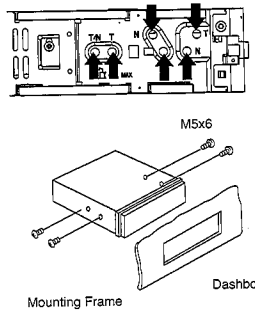
Unit Installation

Method A

1. Insert mounting bracket into dash board, choose appropriate mounting tab according to the gap width, bending the mounting tab outwards with a screwdriver to fix the mounting bracket in place.
2. Slide the unit into the bracket until you hear a click sound.



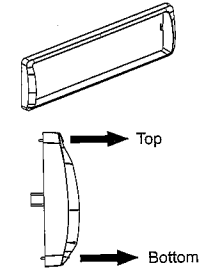
Method B



1. Insert this unit directly to the opening of the dashboard.
2. Place M5x6 cylindrical screw through the holes of the mounting frame located inside the opening to holes of the unit and fasten the screws to left & right.

Trim Ring Installation

Attach the trim ring around the front panel. Take care of the top and bottom of the trim ring and mount it so that all the hooks are locked.



6) Removing the Source Unit

Disassemble trim ring

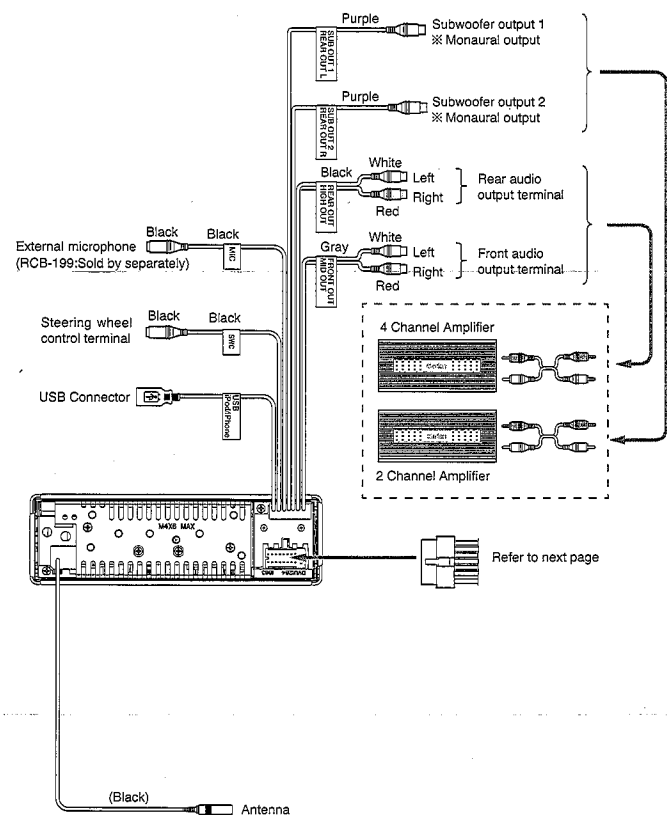
1. Push the trim ring to right and pull out the right part.
2. Push the trim ring to left and pull out the left part.

Disassemble the unit

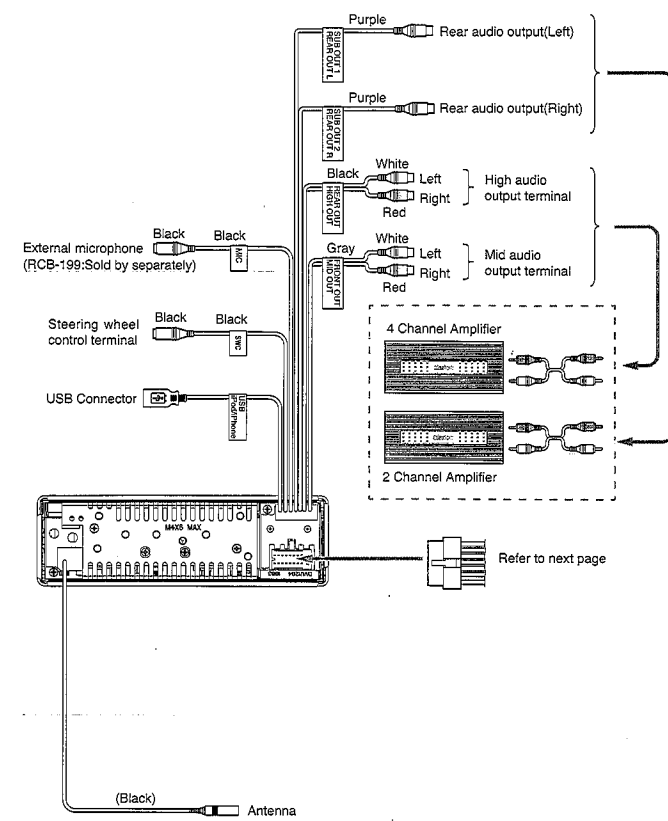
1. Switch off the power.
2. Remove the panel.
3. Remove the trim ring.
4. Insert the removal keys straight back until they lock, then pull the unit out.
5. Disconnect all the wires.

7) Wiring and Connections

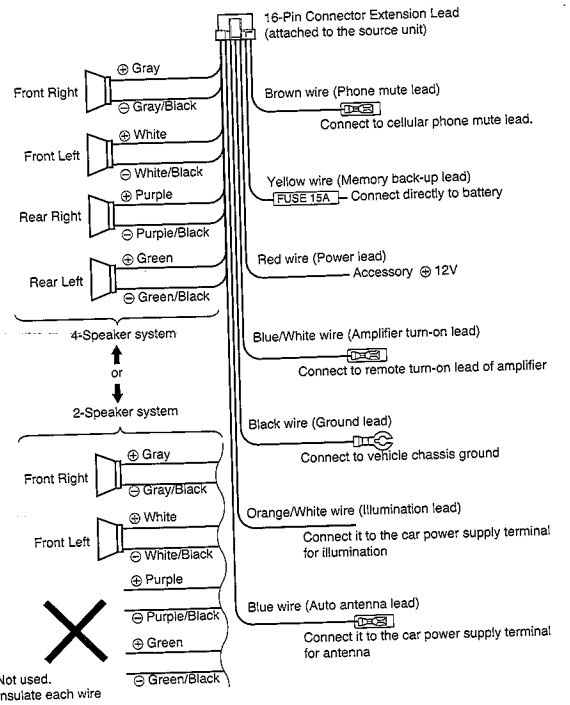
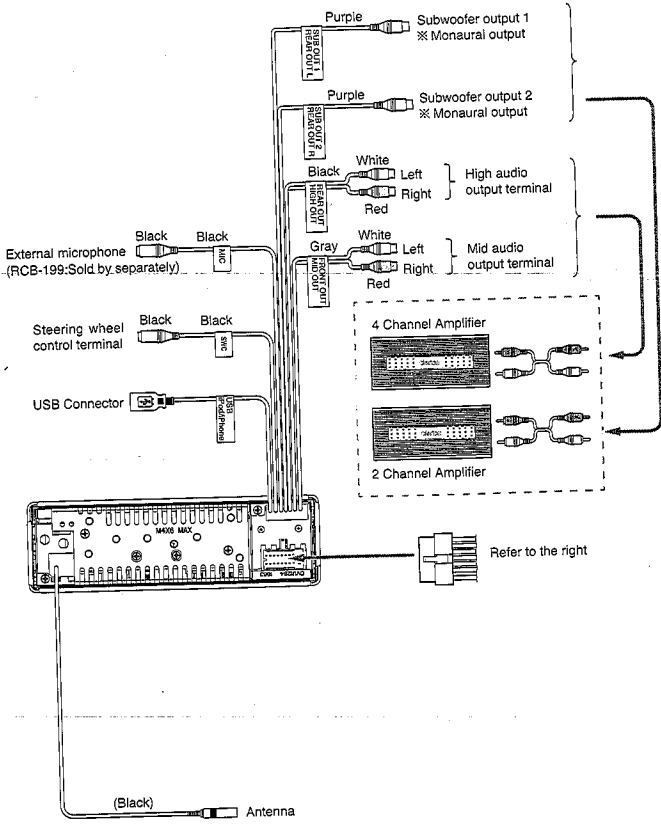
Normal mode



2 Way mode



• 3 Way mode



8) Connecting the accessories

• Connecting to the external amplifier

External amplifiers can be connected to the 4 and 2 channel RCA output connections. Ensure that the connectors are not grounded or shorted to prevent damage to the unit.