

clarion®

Owner's manual & Installation manual
Mode d'emploi et manuel d'installation
Manual de instrucciones y de instalación

CZ401

HD Radio®

CD/USB/MP3/WMA RECEIVER
LECTEUR CD/USB/MP3/WMA
RECEPTOR CD/USB/MP3/WMA

CLARION PRODUCT REGISTRATION INFORMATION

For USA and Canada only
www.clarion.com

Dear Customer:

Congratulations on your purchase of a Clarion mobile electronic products. We are confident that you'll enjoy your Clarion experience.

There are many benefits to registering your product. We invite you to visit our website at www.clarion.com to register your Clarion product.

We have made product registration simple with our easy to use website. The registration form is short and easy to complete. Once you're registered, we can keep you informed of important product information.

Register at www.clarion.com - it's easy to keep your Clarion product up to date.

INFORMATIONS DE L'ENREGISTREMENT DE PRODUITS CLARION

Pour les États Unis et le Canada seulement
www.clarion.com

Cher client:

Nous vous remercions d'avoir acheté ce produit électronique mobile Clarion. Nous sommes confiants que vous apprécierez votre expérience Clarion.

Il y a beaucoup d'avantage à enregistrer votre produits. Nous vous invitons à visiter notre site Web www.clarion.com pour enregistrer votre produit Clarion.

Nous avons facilité la tâche d'enregistrement de produit simple et facile grâce à notre site Web. Le formulaire d'enregistrement est court et facile à compléter. Lorsque vous êtes enregistrer, nous pouvons vous tenir informé des informations important de produits.

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Para USA y Canada nomas
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Querido Cliente:

Felicitaciones por su compra de producto electrónico móvil de Clarion. Estamos seguros que usted gozará de su experiencia con el producto de Clarion.

Hay muchas ventajas al registrar su producto. Le invitamos a que visite nuestro sitio en internet www.clarion.com para registrar su producto de Clarion.

Hemos hecho el registro de producto fácil en nuestro sitio. La forma de registro es corta y fácil de completar. Una vez que lo registre, podremos proporcionarle la información de su producto.

Regístrese en www.clarion.com - es fácil mantener su producto de Clarion actualizado.

Contents

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.

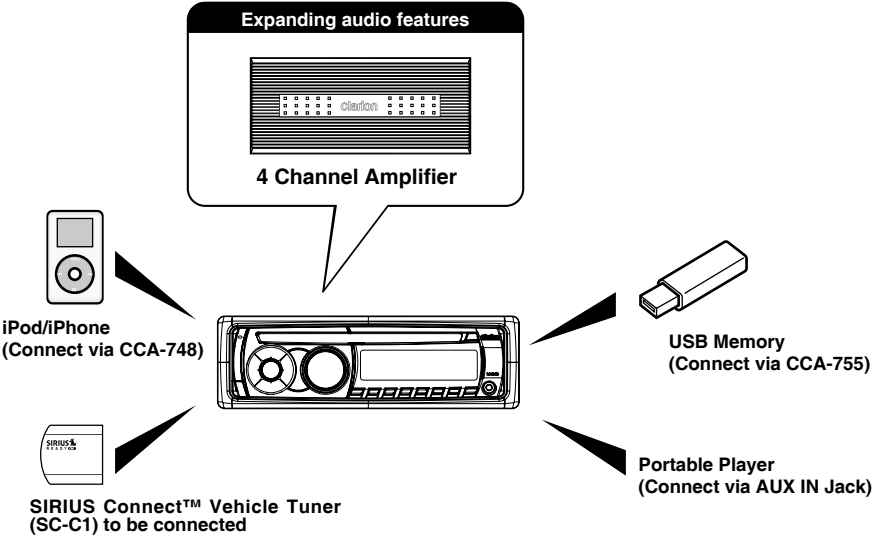
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1. FEATURES

- Built-in HD Radio™ Tuner with iTunes® Tagging
- Compatible with iPod® / iPhone® via USB
- 4V/6ch RCA Output with HPF/LPF and BEAT-EQ with 3 Band Parametric Equalizer



Expanding Systems



Note:

- The items listed outside of the frames are the commercial products generally sold.
- CCA-748 and CCA-755: Sold by separately.

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.

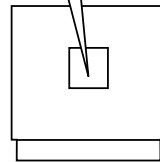
- When the inside of the car is very cold and the player is used soon after switching on the heater, moisture may form on the disc or the optical parts of the player and proper playback may not be possible. If moisture forms on the disc, wipe it off with a soft cloth. If moisture forms on the optical parts of the player, do not use the player for about one hour. The condensation will disappear naturally allowing normal operation.
- Driving on extremely bumpy roads which cause severe vibration may cause the sound to skip.
- 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.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, users, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio technician for help.

- "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.
- SIRIUS, the SIRIUS Dog logo and related marks are trademarks of SIRIUS XM Radio, Inc.
 - HD Radio Technology manufactured under license from iBiquity Digital Corporation. U.S. and Foreign Patents. HD Radio™ and the HD, HD Radio, and "Arc" logos are proprietary trademarks of iBiquity Digital Corp.



INFORMATION FOR USERS:

Changes or modifications to this product unapproved by the manufacturer will void the warranty and will violate FCC approval.

Front Panel / Generalities

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

- Do not allow any liquids on the set from drinks, umbrellas, etc. Doing so may damage the internal circuitry.
- Do not disassemble or modify the set 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 set inspected at your store of purchase.
- The remote control unit may not work if the remote control sensor is exposed to direct sunlight.

Cleaning the body

- Use a soft, dry cloth and gently wipe off the dirt.
- 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.

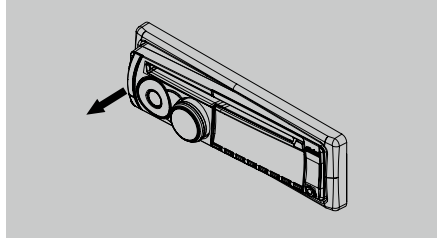
USB Port

- The USB memory stick may stick out when inserted, so it may cause danger during driving.
When connect USB memory stick to the main unit, please use a USB extension cable (CCA-755).
- 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 static electricity or electric noise.
Connect/disconnect the USB memory stick when it is not accessed.
- Connecting with the computer is not covered.

Remove the DCP

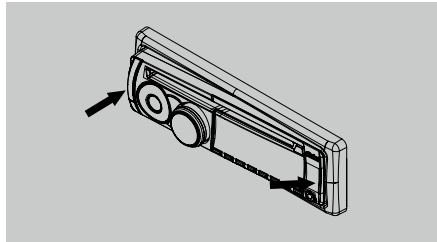
The control panel can be detached to prevent theft. When detaching the control panel, keep it in the safety place and prevent scratches. We recommend taking the DCP (DETACHABLE CONTROL PANEL) with you when leaving the car.

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



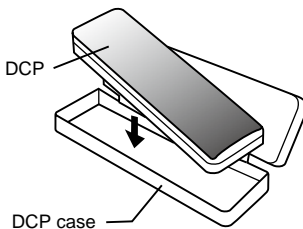
Attach the DCP

1. Hold the DCP and ensure that the panel faces towards you. Set the right side of the DCP into the DCP bracket.
2. 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:

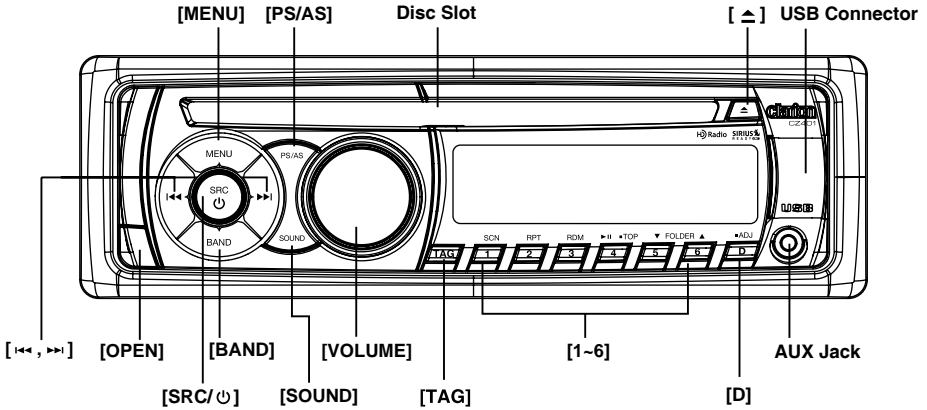
If the DCP is dirty, wipe off the dirt with a soft, dry cloth only.

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 / ⏻] Button

- Power / Toggle the audio source

[BAND] Button

- Select tuner band
- **SIRIUS** mode – Select tuner band/Select category (Long press)

[MENU] Button

- **MP3/WMA** mode – Search function.
- **CD** mode – No function.
- **HD RADIO** mode – SUB channels select.
- **SIRIUS** mode – Direct search
- **AUX** mode – No function.

[▲] Button

- Press to eject disc.

[◀▶] Buttons

- Previous / Next track
- Search (long press)

[Open] Button

- Unlock the front panel.

[PS / AS] Button

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

[SOUND] Button

- Sound effect setting

[VOLUME] Knob

- Adjust volume level / Confirm (press)

[TAG] Button

- **HD RADIO** mode – iTunes Tagging (When displayed "DIGITAL" indicator and "TAG" indicator on display at Radio-mode.)
- Another mode – No function.

[1~6] Buttons

- [1] Button: Scan play / Preset station 1.
- [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)
- [6] Button: Next folder / Preset station 6. 10 tracks up (long press)

[D] Button

- Display switch
- System setup (long press)

Remote Control (RCX001)

[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)

[BAND/TOP] Button

- MP3/WMA mode – Top play (long press)
- CD mode – Top play (long press)
- HD RADIO mode – Select tuner band
- SIRIUS mode – Select tuner band/
Select category (long press)

[\blacktriangle , \blacktriangledown] Buttons

- Volume up / down

[⏩] Button

- Play / Pause

[TAG] Button

- HD RADIO mode – iTunes Tagging
(When displayed "DIGITAL" indicator
and "TAG" indicator on display at Radio-
mode.)
- Another mode – No function.

[DISP] Button

- Display switch

[RDM] Button

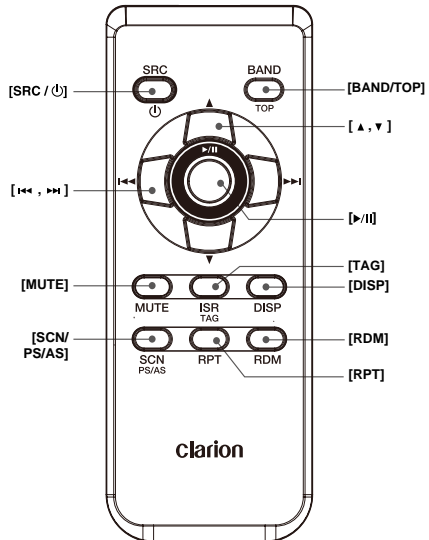
- Random play

[RPT] Button

- Repeat play

[MUTE] Button

- Mute the volume

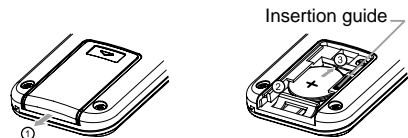


Notes of remote control using

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

Inserting the Battery

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

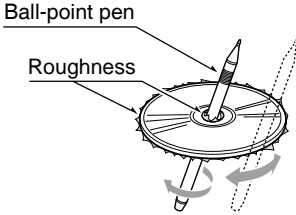


4. CAUTIONS ON HANDLING

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 fingermarks 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 hearings.

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



Engine ON position

- 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.
- 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.

Volume adjustment

Turn 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 be heard.

Playing source selection

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

Notes:

Playing source selection means selecting work mode, such as **DISC** mode, **HD RADIO** mode, **AUX** mode, etc.

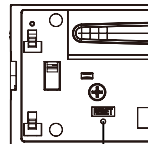
Display system time

Press the [D] button on the front panel or [DISP] button on the remote control to switch the display information, system time and playing source.

RESET

Note:

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



RESET

System Setup

At all mode, press and hold [D] 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.

PASSWORD (SIRIUS mode)

Press the [VOLUME] knob to enter old password, rotate the knob to select a digit, press [◀◀] or [▶▶] button to move the cursor. Long press the knob to confirm after input all 4 digit. Then input a new 4-digit number as above. (Original password: 0000)

LOCK (SIRIUS mode)

Press the [VOLUME] knob to lock current station, rotate the knob to select a digit, press [◀◀] or [▶▶] button to move the cursor. Long press the knob to confirm after input all 4 digit password.

UNLOCK (SIRIUS mode)

Press the [VOLUME] knob to unlock all locked stations, rotate the knob to select a digit, press [◀◀] or [▶▶] button to move the cursor. Long press the knob to confirm after input all 4 digit password.

UNSKIP (SIRIUS mode)

Press and hold the [VOLUME] knob to unskip all channels.

AUX SENS (AUX mode)

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

SCRN SVR: ON/OFF

Rotate the [VOLUME] knob to choose SCRAN 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 cyclely, 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 P19.

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.

SW PHASE

Rotate the [VOLUME] knob to choose SUB-WOOFER phase REVERSE or NOMAL.

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 hour.

Audio Setup

Press the **[SOUND]** button to enter sound effect setting mode. First press shows current EQ. Rotate the **[VOLUME]** knob to changes BEAT EQ in this order:
OFF -> B-BOOST -> IMPACT -> EXCITE -> CUSTOM

Rotate the **[VOLUME]** knob to changes CUSTOM, and press the **[VOLUME]** knob, the press **[◀◀]** or **[▶▶]** button to select it including: BAS-G -> BAS-F -> BAS-Q -> MID-G -> MID-F -> MID-Q -> TRE-G -> TRE-F, rotate the **[VOLUME]** knob to select a value.

BAS-G / MID-G / TRE-G: (-7)- (+7)

BAS-F: 50/100/200

BAS-Q: 0.7/1/1.4/2

MID-F: 500/1K/2K

MID-Q: 0.7/1/1.4/2

TRE-F: 5k/10k/15k

TRE-Q: 0.7/1/1.4/2

Press the **[SOUND]** button, then press **[◀◀]** or **[▶▶]** button to select USER preset including:

BALANCE -> FADER -> M-B EX -> LPF(low pass filter) -> S-W VOL (Subwoofer Volume), rotate the **[VOLUME]** knob to select a value.

BALANCE: LEFT 1-7->CENTER->RIGHT 1-7

FADER: FRONT 1-7->CENTER->REAR 1-7

M-BEX: ON/OFF

LPF: THROUGH/60/90/120

HPF: THROUGH/60/90/120

SUBW VOL: (-6)-(+6)

HD Radio Operations

About HD Radio™ Technology

HD Radio Technology allows CD-quality digital broadcasting of your local AM and FM radio stations. HD Radio broadcasts can include multiple channels on the same frequency, which is called multicasting. With multicasting, you can receive up to eight additional multicast channels: HD1~HD8.

You will receive HD Radio digital broadcasts automatically when tuned to a station that offers HD Radio Technology.

NOTE: Not all FM or AM stations offer HD Radio (digital) broadcasting. You can receive both analog and digital stations with the unit.

Accessing radio mode

Press the [SRC / ϕ] button on the front panel or remote control to switch to the HD RADIO source, and HD icon will illuminate.

Select a band

Press the [BAND] button to change between three FM and one AM bands. Each band stores up to six preset stations.

Tuning

- Seek Tuning

Press and hold the [◀◀] or [▶▶] button to seek the next/previous station automatically.

- Manual Tuning

Press the [◀◀] or [▶▶] button to move the radio frequency number up or down one step.

HD Radio multicast channels

To tune to an HD Radio multicast channel, tune to the main signal and then press the [MENU] button on the panel. PTY and SUB CH are displayed. Select PTY or SUB CH by rotate [VOLUME] knob and push to confirm.

- Select PTY type from the category list by rotate [VOLUME] knob and push.
- Select SUB CH by rotate [VOLUME] knob and push.
- Multi channel is available when a digital signal is detected, the DIGITAL icon will illuminate. If the digital signal becomes unavailable, the unit will revert to Analog reception.

Preset stations

Up to six stations on each band can be stored as presets, which can then be instantly recalled by pressing the associated preset button. To store a station, turn the radio on and select the desired band and station. Press and hold the desired preset button (numbered one through six on the face of the radio or remote control) for more than two seconds. When stored, the preset number will appear in the display. The station is now stored and can be recalled by pressing the corresponding preset button. Repeat for the remaining five presets on the current band and for presets on the other four bands.

NOTE: Multicast stations can be stored as presets, but the unit must be in Digital or Auto reception mode to receive them.

Preset scan

Press the [PS/AS] button to scan and play all preset stations for 10 seconds each. Press [PS/AS] again to stop scanning and play the current station.

Note:

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

Automatic store (AS)

Press and hold the [PS/AS] button (1 sec.) to select six strong stations and store them in the FM3 or AM band using the Auto Store feature. After entering the stations into memory, the unit will automatically stop at each station for five seconds, allowing you to preview each selection. When using the Auto Store feature, the new stations replace any stations already stored in preset memory.


Note:

You can stop the Auto Store function at any time by pressing the [PS/AS] button again.


Satellite Radio Mode

Listeners can subscribe to SIRIUS® Radio on the Web by visiting www.sirius.com, or by calling (888) 539-SIRIUS. Customers should have their SIRIUS ID ready (SIRIUS ID is located on the SC-C1: SIRIUS Connect Vehicle Tuner, sold separately). Customers can listen to music samples by tuning to channel 184.

Accessing satellite radio mode

Press the [SRC / ] button on the front panel or remote control to switch to the SAT source.

Displaying the Identification (ID) Code

Before you listen to satellite radio, you must subscribe to the service using your radio's identification number. To display the radio ID, use the [] tuning button to tune to channel "0". The screen displays the radio ID where the channel name is usually displayed.



Check SC-C1 SIRIUS Connect Vehicle TUNER

If SIRIUS tuner is not connected, "NO TUNER" will appear on the LCD.

Select a band

Press the [BAND] button to change between three SAT bands (SR1, SR2 and SR3). Each band stores up to six preset stations.

Select a station

Press the [] or [] tuning button to tune to another station.

Preset mode

Six numbered preset buttons store and recall stations for each band.

Preset scan

Short press the [PS/AS] button to start category scanning.

Long press [PS/AS] (1 sec.) to start preset station scanning for 10 seconds each.

Storing a station



1. Select a band (if needed), then select a station.
2. Press and hold a preset button (numbers 1-6) on the front panel.
3. The preset number and station is displayed and highlighted.

Recalling a station

1. Select a band (if needed).
2. Press a front panel preset button (numbers 1-6) to select the corresponding stored station.

Category and Channel search

To access Category and Channel Search mode, press the [BAND] button more than 1 second on the front panel.

1. Rotate the [VOLUME] knob on the panel to select the desired category.
2. Press the [] or [] button to select the channel name.

Direct search

To access Direct Search mode, press the [MENU] button on the front panel.

1. Rotate the rotary knob on the panel to select the desired direct, and press the knob to confirm the selection.
2. Rotate the [VOLUME] knob on the panel to select the direct number, and press the knob to confirm the selection.

PASSWORD

Refer to System Setup page 11.

LOCK

Refer to System Setup page 11.

UNLOCK

Refer to System Setup page 11.

UNSKIP

Refer to System Setup page 11.

iTunes® Tagging

The unit offers iTunes® Tagging, which allows the user to "Tag" songs playing on HD Radio™ stations for purchase later through iTunes. When press **[TAG]** button, the unit stores the title and artist song information that can then be transferred to your iPod when connected to the unit. A list titled "Tagged" will appear in iTunes, allowing you the option to purchase your tagged songs.

iPod compatibility

For detailed information on the playable iPod models, see our home page: www.clarion.com

Note:

- iPhones can also be connected to this system and "iPod" appearing in this manual should be referred to as "iPod/iPhone".
- This system will not operate or may operate improperly with unsupported versions.

Tagging music

To begin tagging music, tune to an HD Radio station. The DIGITAL icon at the display must be illuminated, indicating a digital station is being received. TAG icon lights up when Tagging function is ready. Press the **[TAG]** button on the unit. The tagging function is highly depends on the receptions of the radio station. If the channel reception is insufficient, it will effect the operation of the tagging function.

"**Stored Tag ## of 64**" will appear in the display. The song information is saved to the unit memory until an iPod is connected. You can tag up to 64 songs before the tags must be transferred to an iPod or deleted. When the Tag memory reaches capacity (64 tags) the bottom of the screen displays "**Memory Full**".

Table 5: TAG Messages

Tag Message	Reason
STORED TAG ## OF 64	If the Tag data is ready, and [TAG] button is pressed
SENDING TAG ##	Tag data is sending to iPod
MEMORY FULL	Tag storage is full

TAG DATA IS NOT AVAILABLE	Tag data is not available
IPOD FULL	iPod memory is full
TAG NOT SUPPORT	When connect and press [TAG] button, the iPod without Tagging function

Note:

Tags saved to your iPod can be managed using the iTunes software, available at www.apple.com/itunes.

Downloading tags to your iPod

To download tags to your iPod, plug an iPod into the unit. All existing tags are automatically transferred to the iPod and deleted from the head unit's memory. If an iPod is connected when a song is tagged, the Tag will be immediately transferred to the iPod.

Note:

When transferring Tags to an iPod, the unit must remain in HD RADIO mode. To purchase tagged songs, you must sync your iPod to iTunes and then click the "Tagged" list on the left side of the iTunes software screen. Click the "view" button for purchasing information.

Note:

1. How to enter the iTunes tagging function? "TAG" and "DIGITAL" light up when Tagging function is ready, press **[TAG]** button to start iTunes Tagging.
2. What is seen on the radio's display to let me know I have tagged the tune? Press **[TAG]** button to show "**STORED TAG ## OF 64**". After connect to a iPod, the display shows "**SENDING TAG ##**". If no connection, the display will show "**STORED TAG ## OF 64**". You could save 64 Tag into memory in total. When you connect to a iPod, Tag information will be saved in the iPod, and the data in memory will be cleared.
3. Then how do I get the tagged tune from my iPod to the computer? If you have install iTunes, connect your iPod to your computer and buy songs online.

CD/MP3/WMA Operations

This unit can play back MP3/WMA files

Notes:

If you play a WMA file with active DRM (Digital Rights Management), no audio is output.

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 protect music. Then, reconstruct files.

Personally constructed WMA files are used at your own responsibility.

Precautions when creating MP3/WMA file

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 Romeo” 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 [▲] button, ejects the disc even if the power to the unit was not turned on.

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

CD/MP3/WMA Operations

Pausing play

1. Press the [4] button on the front panel or the [▶/II] button on the remote control to pause play.
"PAUSE" appears in the display.
2. Press the above button again to resume CD play.

Displaying CD titles

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

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

MP3/WMA disc

FILE --> FOLDER --> TITLE --> ARTIST --> ALBUM --> FILE -->

Notes:

- If MP3/WMA disc is not input TAG, "NO TITLE" appears in the display.
- Only ASCII characters can be displayed in Tags.

Selecting a track

Track-up

1. Press the [▶▶] button to move to the beginning of the next track.
2. Each time you press the [▶▶] button, the track advances 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 [◀◀] button to move back to the beginning of the current track.
2. Press the [◀◀] 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 [▶▶] button .

Fast-reverse

Press and hold the [◀◀] button .

* For MP3/WMA discs, it takes some time until the start of searching and between tracks. In addition, some error 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 [◀◀] or [▶▶] button.

Search Function

1. Press the [MENU] 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.

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 repeatedly until "RPT OFF" appears on the LCD to cancel repeat playback.

CD/MP3/WMA Operations

MP3/WMA:

1. Press the [2] button once or more until "TRK 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.

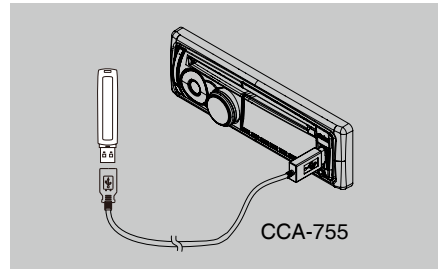
3. Press [2] button repeatedly until "RPT OFF" appears on the display to cancel repeat playback, and "RPT" segment goes off.

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. Open the cover of the USB connector to the right. Insert a USB cable (CCA-755) into the USB connector. Insert a USB device into the USB cable.
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. Close the cover to the left.
3. Operation is same as MP3/WMA operation.



iPod & iPhone Operations

Connect an iPod or iPhone to the USB connector via CCA-748 cable.

When connecting a device, the unit will read the files automatically. The track information display 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 SGIWS / VIDEO PODCASTS / RENTALS, press and rotate the **[VOLUME]** knob to select a desired option, then press the **[VOLUME]** knob to confirm.

NOTES:

- In case of VIDEO Playback, CCA-748 cable and monitor (sold separately) are required.
- VIDEO MENU item is different by the model of connected iPod and language setting.

Repeat play

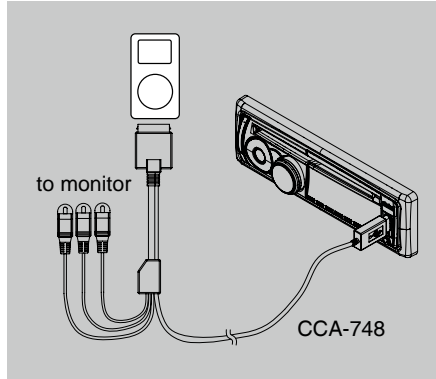
This function allows you to play the current track repeatedly or play all tracks in your iPod/iPhone repeatedly.

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 **[D]** 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

PODCASTS, RENTALS

3. Press the **[VOLUME]** knob. (The contents of the category are displayed.)
4. Press and hold the **[D]** button (1 sec.).
5. Rotate the **[VOLUME]** knob to select the desired letter to search.
6. Press the **[D]** button again to next perform search.

AUX Operations

Press **[SRC / ⏮]** button on the panel or remote control 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 **[D]** 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. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Turn off the power and remove the DCP. Press the [RESET] button with a thin rod. Note: When the [RESET] button is pressed, turn off the ACC power.*
		* When the [RESET] button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared.
Remote control does not work.	Battery depleted.	Change the battery.
	Battery installed incorrectly.	Install the battery correctly.
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.
	Speaker wiring is in contact with metal part of car.	Insulate all speaker wiring connections.
Poor sound quality or distortion	Non-standard disc used.	Use a standard disc.
	Speaker power rating does not match unit.	Replace speakers.
	Wrong connections.	Check wiring and correct.
	Speaker is shorted.	Check wiring and correct.
Tel-Mute malfunction	MUTE wire is grounded.	Check the MUTE wiring and correct.
Unit resets itself when engine is off.	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.

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: 87.5-107.9MHz
 Usable sensitivity: 8dB μ
 Frequency response: 30Hz-15kHz
 Stereo separation: 30dB(1kHz)
 Signal/noise ratio: >55dB

AM Tuner

Frequency range: 530-1710kHz
 Usable sensitivity (S/N=20dB): 30dB μ

CD Player

System: Disc digital audio system
 Frequency response: 20Hz-20kHz
 Signal/noise ratio: >80dB
 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 or Romeo 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

Audio Amplifier

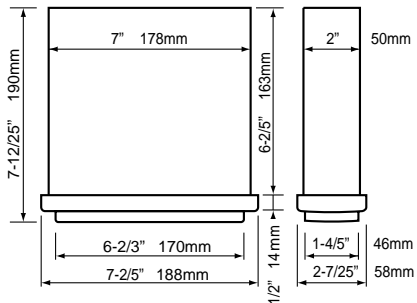
Maximum power output:
 200W (50W x 4)
 Speaker impedance: 4 Ω (4 to 8 Ω allowable)

Input

Audio input sensitivity:
 High: 320mV (at 1V output)
 Mid: 650mV (at 1V output)
 Low: 1.3V (at 1V output)
 (input impedance 10 k Ω 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:
 4.0V (CD play mode: 1kHz, 0dB, 10k Ω load,
 volume max.)
 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: 2.87lb. (1.30kg)
 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)



Notes:

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

Power Output:

18W x 4 Channels RMS
 (4 Ω @ 14.4V \leq 1% THD+N)

Signal to Noise Ratio:

80 dBA (reference: 1 W into 4 Ω)



9. INSTALLATION / WIRE CONNECTION GUIDE

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1) Before Starting

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

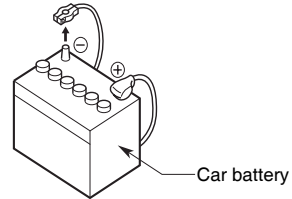


Figure 1

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	Warranty card	1
L-key.....	2	Special screw (Front panel lock)	1

3) General Cautions

1. 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.
2. 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

1. Prepare all articles necessary for installing the source unit before starting.
2. Install the unit within 30° of the horizontal plane. (Figure 2)
3. If you have to do any work on the car body, such as drilling holes, consult

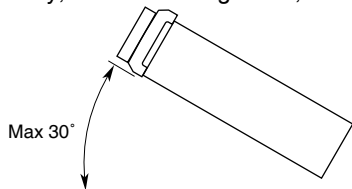


Figure 2

4. Use the enclosed screws for installation. Using other screws can cause damage. (Figure 3)

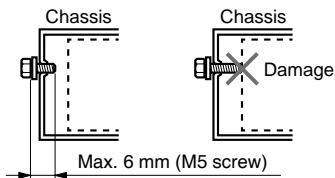


Figure 3

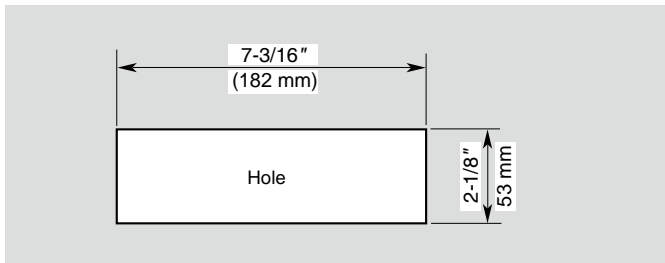
5) Installing the Source Unit

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

Notes:

1. Some car models require special mounting kits for proper installation. Consult your Clarion dealer for details.
2. 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

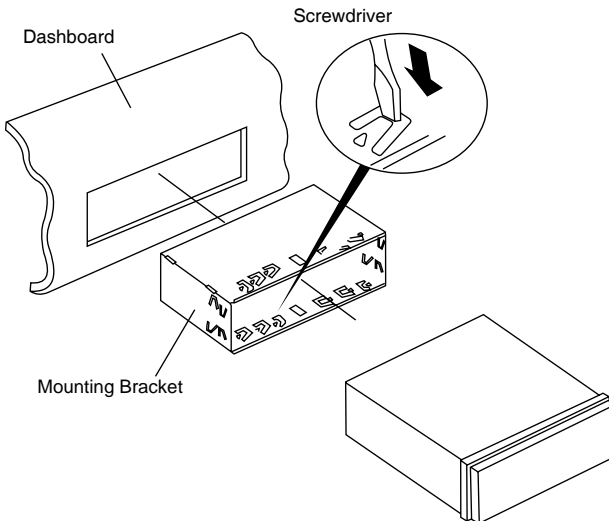
positive pole first and then the negative pole.

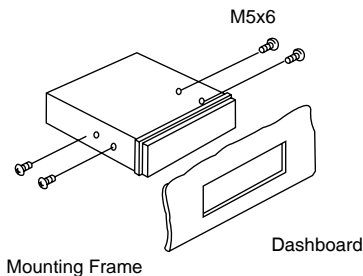
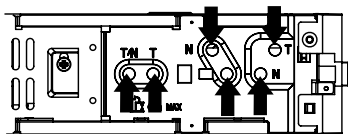
7. DO NOT block the cooling fan exit to ensure sufficient heating dissipation of this unit, or it may result in damage to this unit.

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.

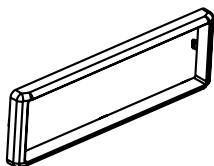


Method B

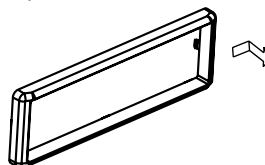
1. Insert this unit directly to the opening of the dashboard.
2. Place M5x6 cylindrical screw through the holes of the mounting frame located inside the opening to holes of the unit and fasten the screws to left & right.

Trim ring installation

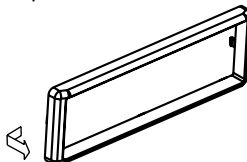
Attach the trim ring around the front panel.

**6) Removing the Source Unit****Disassemble trim ring**

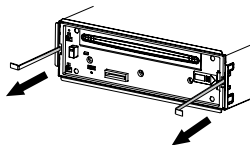
1. Push the trim ring to right and pull out the right part.



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

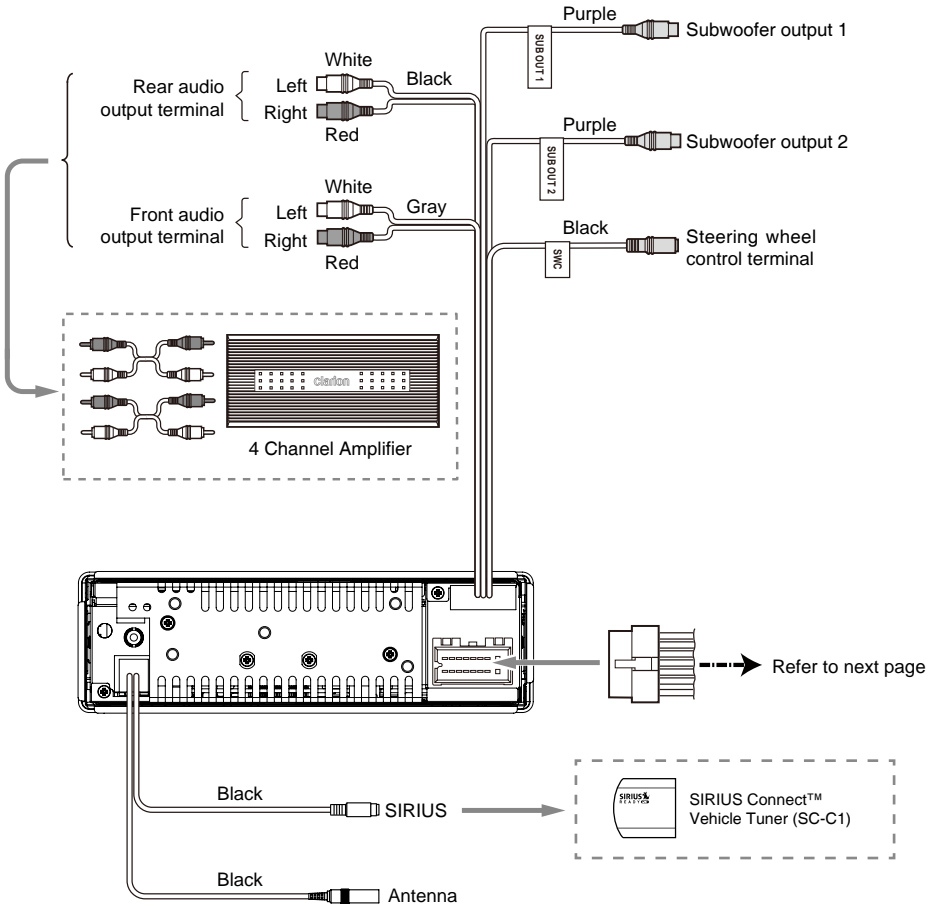
**Disassemble the unit**

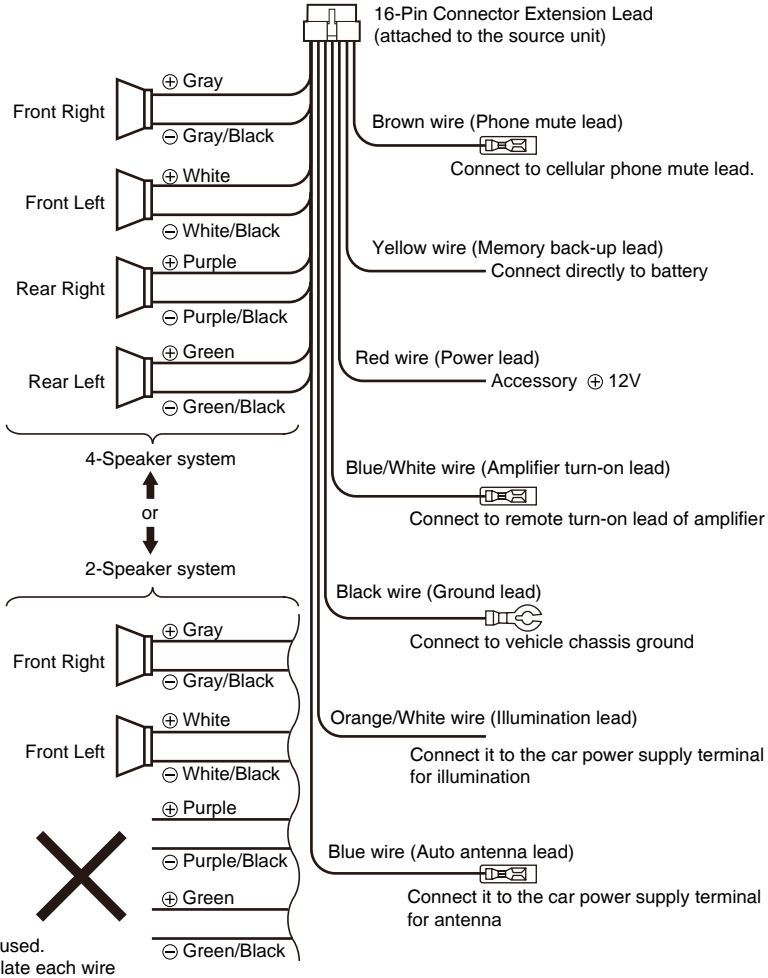
1. Switch off the power.
2. Remove the panel.
3. Remove the trim ring.
4. Insert the removal keys straight back until they lock, then pull the unit out.



5. Disconnect all the wires.

7) Wiring and Connections





8) Connecting the Accessories

- **Connecting to the external amplifier**

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

Clarion Co., Ltd.

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