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

- MP3/WMA compatible with ID3-TAG display
- Detachable Front Panel with 3.5mm Auxiliary Input
- 2V/2CH RCA Output with Subwoofer Control and BEAT-EQ with 3 Band Parametric Equalizer

Expanding Systems

- Portable Player (Connect by AUX IN Jack)

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. 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. The limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, 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.

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 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.

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.

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/OFF] 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.

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.

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

**Operational Panel**

- **[SRC/ ] Button**
  - Power / Toggle the audio source
- **[BAND] Button**
  - RADIO mode-Select tuner band
  - MP3/WMA mode-Display switch
- **[MENU] Button**
  - CD mode – No function.
  - RADIO mode – No function.
  - 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)
- **[VOLUME] Knob**
  - Adjust volume level / Confirm (press)
- **[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.
- **[DISP] 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-CD/MP3/WMA mode)
- **[BAND/TOP] Button**
  - Select tuner band (RADIO mode)
  - Display switch (MP3/WMA mode)
  - Top play (long press-CD/MP3/WMA mode))
- **[ ] 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
- **[RPT] Button**
  - Repeat play
- **[MUTE] Button**
  - Mute the volume

**Names of Buttons**

- **[SRC/ ]** Button
  - Power / Toggle the audio source
- **[BAND]** Button
  - RADIO mode-Select tuner band
  - MP3/WMA mode-Display switch
- **[MENU]** Button
  - CD mode – No function.
  - RADIO mode – No function.
  - 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)
- **[VOLUME] Knob**
  - Adjust volume level / Confirm (press)
- **[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.
- **[DISP] Button**
  - Display switch
  - System setup (long press)

**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.

---

**Insertion guide**

---

**Clarion**

---

**CZ102**
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.

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

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. Press the [SRC / [ button on the front panel or remote control to turn on the power under standby mode. The unit goes back to the last status after power on.

3. 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.

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>While driving, keep the volume level at which external sounds can still be heard.</td>
</tr>
</tbody>
</table>

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 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, system time and playing source.

RESET

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

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

Audio Setup
Press the [ ] 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-F: 60 / 80 / 100 / 200
BAS-Q: 1.0 / 1.25 / 1.5 / 2.0

SCROLL: ON/OFF
For track information that is longer than the display panel:
When SCROLL is ON, the LCD will scroll the ID3 TAG information across the display, e.g.: TRACK->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 [BAND] button.

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.

REAR/S-W
Rotate the [VOLUME] knob to choose REAR or S-WOOFER (SUB-WOOFER).

BEEP: ON/OFF
Rotate the [VOLUME] knob to choose beep sound ON or OFF.

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

Radio Operations
Select tuner as playing source
Press [SRC] button once or more to enter RADIO mode.

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

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

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

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 [ ] button repeatedly until LO or DX displays on the screen, rotate the [VOLUME] knob to select Local or Distant mode.

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.

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 24 stations in total, CZ102 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.

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

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 24 stations in total, CZ102 can store 24 stations in total.
**CD/MP3/WMA Operations**

**This unit can playback 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 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.

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 999 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.

**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 minutes, the disc may be harmed.
- 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.

**Pausing play**
1. Press the [ ] button to pause play.
2. To resume CD play, press the [ ] button again.

**Displaying CD titles**
This unit can display title data for MP3/WMA disc.
When SCROLL is OFF, each time you press the [BAND] button to change the title display.

**MP3/WMA disc**
Track -> Folder -> File name -> 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 [ ] 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.

**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.

**Top function**
The top function resets the CD player to the first track of the disc. Press and hold the [ ] 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.

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

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.

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

AUX Operations

Press [SRC / (1)] 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 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

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

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

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

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: 87.9-107.9MHz
Usable sensitivity: 8dB
Frequency response: 30Hz-15kHz
Stereo separation: 30dB(1kHz)
Signal/noise ratio: >55dB

**AM Tuner**
Frequency range: 530-1710kHz
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
Joilet file system

**Audio Amplifier**
Maximum power output: 180W (45W x 4 Channels at 4Ω and 1% THD+N)
Speaker impedance: 4Ω (4 to 8Ω allowable)

**Input**
Audio input sensitivity:
High: 320mV (at 1V output)
Mid: 650mV (at 1V output)
Low: 1.9V (at 1V output)
(input impedance 10 kΩ or greater)
Aux-in level: ≤2V

**General**
Power supply voltage: 14.4VDC (10.8 to 15.6V allowable),

**Notes:**
- Specifications and design are subject to change without notice for further improvement.
- Power Output:
  18W RMS x 4 Channels at 4Ω and 1% THD+N
- Signal to Noise Ratio:
  94dB (reference: 1W into 4Ω)
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)

2) Package Contents
Source unit .......................................................... 1
Front panel ....................................................... 1
Trim ring .......................................................... 1
Mounting bracket ............................................. 1
Screws M5x6 mm ............................................... 4
L-key ............................................................... 2

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, benzine, 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 your car dealer beforehand.
4. Use the enclosed screws for installation. Using other screws can cause damage. (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

Figure 1

Figure 2

Figure 3
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

- **Steering wheel control terminal**: Black
- **Antenna**: Black (attached to the source unit)
- **2 Channel Amplifier**
  - Rear audio output (Left) / Subwoofer output 1: Black, White
  - Rear audio output (Right) / Subwoofer output 2: Black, Red

Refer to next page

8) Connecting the Accessories

- **16-Pin Connector Extension Lead (attached to the source unit)**
- **Yellow wire (Memory back-up lead)**
- **Red wire (Power lead)**
- **Blue/White wire (Amplifier turn-on lead and Auto antenna lead)**
- **Black wire (Ground lead)**
- **Orange/White wire (Illumination lead)**

- **Connect to remote turn-on lead of amplifier**
- **Connect to vehicle chassis ground**
- **Connect it to the car power supply terminal for antenna**
- **Connect it to the car power supply terminal for illumination**

- **Fuse 15A**

- **Accessory 12V**

- **4-Speaker system**
- **Front Right**: Gray
- **Front Left**: Gray/Black
- **Rear Right**: Purple
- **Rear Left**: Green/Black

- **2-Speaker system**
- **Front Right**: Gray/Black
- **Front Left**: White/Black
- **Rear Right**: Purple/Black
- **Rear Left**: Green/Black

- **Not used. Insulate each wire**

- **Connecting to the external amplifier**
  - External amplifiers can be connected to the 2 channel RCA output connections.
  - Ensure that the connectors are not grounded or shorted to prevent damage to the unit.