CZ104E

CD-/USB-/MP3-/WMA-RECEIVER
LECTEUR CD/USB/MP3/WMA
CD/USB/MP3/WMA-RECEIVER
RICEVITORE CD/USB/MP3/WMA
CD/MP3/WMA-ONTVANGER
RECEPTOR CD/USB/MP3/WMA
CD/USB/MP3/WMA-RECEIVER
ODTWARZACZ CD/USB/MP3/WMA
ДЕКТΗΣ CD/USB/MP3/WMA
РЕСИВЕР ДЛЯ ВОСПРОИЗВЕДЕНИЯ КОМПАКТ-ДИСКОВ, ФАЙЛОВ МРЗ И WMA С USB
Thank you for purchasing this Clarion product.

• Please fully read this owner’s manual before operating this equipment.

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CAUTION:
This appliance contains a laser system and is classified as a “CLASS 1 LASER PRODUCT”. To use this model properly, read this Owner’s Manual carefully and keep this manual for your future reference. In case of any trouble with this player, please contact your nearest “AUTHORIZED service station”. To prevent direct exposure to the laser beam, do not try to open the enclosure.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED IN THE OWNER’S MANUAL MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

ADVARSEL:
Denne mærkning er anbragt udvendigt på apparatet og indikerer, at apparatet arbejder med laserstråler af klasse 1, hvilket betyder, at der anvendes laserstråler af svageste klasse, og at man ikke på apparatets yderside kan blive udsat for utiladegelig kraftig stråling.

APPARATET BØR KUN ÅBNES AF FAGFOLK MED SÆRLIGT KENDSKAB TIL APPARATER MED LASERSTRÅLER!
Indvendigt i apparatet er anbragt den her gengivne advarselsmærkning, som advarer imod at foretage sådanne indgreb i apparatet, at man kan komme til at udsaætte sig for laserstråling.

OBS!
Apparaten innehåller laserkomponenten som avger laserstrålning överstigande gränsen för laserklass 1.

VAROITUS
Suojakoteloa si saa avata. Laite sisältää laserdiodin, joka lähettää näkymätöntä silmille vaarallista lasersäteilyä.
1. FEATURES

- Front USB Input And Front Panel Auxiliary Input
- MP3/WMA Compatible with ID3-TAG Display
- 2ch RCA Output

Expanding Systems

2. PRECAUTIONS

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.

WARNING

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 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 by static electricity or electric noise.

Cleaning the body

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.

Cleaning the body

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

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.

Operational Panel

3. CONTROLS

Operational Panel

Names of Buttons

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[SRC / ]</td>
<td>Power / Toggle the audio source</td>
</tr>
<tr>
<td>[AS/BAND]</td>
<td>RADIO mode – Select tuner band / Auto store (long press)</td>
</tr>
<tr>
<td>[VOLUME]</td>
<td>Adjust volume level / Confirm (press)</td>
</tr>
<tr>
<td>[1~6]</td>
<td>Play / Pause / Preset station 4 / Top play (long press)</td>
</tr>
<tr>
<td>[OPEN]</td>
<td>Unlock the front panel.</td>
</tr>
<tr>
<td>[ ]</td>
<td>Press to eject disc.</td>
</tr>
<tr>
<td>[ ]</td>
<td>Sound effect setting</td>
</tr>
<tr>
<td>[ ]</td>
<td>Turn on/off TA function (long press)</td>
</tr>
<tr>
<td>[ ]</td>
<td>Display switch</td>
</tr>
<tr>
<td>[ ]</td>
<td>System setup (long press)</td>
</tr>
</tbody>
</table>

Names of Buttons

- Power / Toggle the audio source
- RADIO mode – Select tuner band / Auto store (long press)
- CD mode – No function.
- RADIO mode – PTY select function.
- AUX mode – No function.
- USB mode – Search function
- Press to eject disc.
- Sound effect setting
- Turn on/off TA function (long press)
- Display switch
- System setup (long press)
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.

**Engine ON position**

2. Press the [SRC / δ] 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.
3. Press and hold the [SRC / δ] button on the front panel or the remote control to switch the display information from clock, station information (radio mode), or track information (CD mode, USB mode).

**RESET**
If you have below problems, please press [RESET] button.
- Unit can not power on
- Nothing happens when buttons are pressed
- Display is not accurate
- By pressing [RESET] button, the memories are initialized.

Volume adjustment
Rotate the [VOLUME] knob on the front panel. 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 / δ] button on the front panel or the remote control repeatedly to choose desired playing source.

Note:
Playing source selection means selecting which mode, such as DISC mode, RADIO mode, USB mode and AUX mode.

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

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.

**AF: ON/OFF (RADIO mode)**
Rotate the [VOLUME] knob to choose AF ON or OFF.

**REG: ON/OFF (RADIO mode)**
Rotate the [VOLUME] knob to choose REG ON or OFF.

**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 EQ in this order: OFF -> POP -> CLASSIC -> ROCK -> JAZZ -> CUSTOM
Press the [VOLUME] knob to confirm. Rotate the [VOLUME] knob to changes CUSTOM, and press the [VOLUME] knob, then press [◄◄] or [►►] button to select BAS-G or TRE-G, rotate the [VOLUME] knob to select a value.
BAS-G / TRE-G: (-7) -> (+7)

Press the [♪] button, then press [◄◄] or [►►] button to select USER preset including: BALANCE -> FADER -> LOUD, rotate the [VOLUME] knob to select a value.
BALANCE: LEFT 1-7 -> CENTER -> RIGHT 1-7
FADER: REAR 1-7 -> CENTER -> FRONT 1-7
LOUD: ON / OFF

SCROLL: ON/OFF
For track information that is longer than the display panel:
When SCOLL is ON, the LCD will scroll the ID3 TAG information across the display, e.g.: TRACK -> FILE -> FOLDER -> TITLE -> ARTIST -> ALBUM -> TRACK ... When SCOLL 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.

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

Notes:
- Power on / off
- Playing source selection
- Display system time
- System Setup
- Audio Setup
**Radio Operations**

**Select tuner as playing source**
Press [SRC / 0] button once or more to enter RADIO mode.

**Selecting the radio band**
Press the [AS/BAND] button to select one radio band among FM1, FM2, FM3, MW and LW.

**Manual tuning**
During manual tuning, the frequency will be changed in steps. Press the [◄◄] or [ ►► ] button to tune in a higher / lower station.

**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.

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

**Auto store**
Only stations with sufficient signal strength will be detected and stored in the memory. Press and hold the [AS/BAND] 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 5 bands, such as FM1, FM2, FM3, MW and LW. FM3, MW and LW can store by AS function. Each band can store 6 stations, CZ104E can store 30 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, then press [◄◄] button repeatedly until LO or DX displays on the screen, and rotate the [VOLUME] knob to select Local or DX mode.

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

**Radio Data System**
This unit has a built-in “Radio Data System” decoder system that supports broadcast stations transmitting “Radio Data System” data. When using the “Radio Data System” function, always set the radio to FM mode.

**AF function**
The AF function switches to a different frequency on the same network in order to maintain optimum reception.

* The factory default setting is ON.

1. Set to system setup by long pressing [DISP] button.
2. Press the [◄◄] or [ ►► ] button to select “AF”.
3. Rotate the [VOLUME] knob to select ON or OFF.

**Manually tuning a regional station in the same network**
This function is valid when the AF function is ON and the REG function is OFF.

**Manually tuning a regional station in the same network**
This function is valid when the AF function is ON and the REG function is OFF.

**PTY (Programme Type) Select**
This function enables you to listen to a broadcast of the selected programme type.

* Some countries do not yet have PTY broadcast.
* In the TA standby mode, a TP station has priority over a PTY broadcast station.

**Selecting PTY**
At Radio mode, press [MENU ] button, then rotate the [VOLUME] knob to select PTY type, press the [VOLUME] knob, the unit begin searching.

**Radio Operations**

**REG (Regional programme) function**
When the REG function is ON, the optimum regional station can be received. When this function is OFF, if the regional station area switches as you drive, a regional station for that region is received.

* The factory default setting is ON.

**Notes:**
- This function is disabled when a national station such as BBC R2 is being received.
- The REG function ON/OFF setting is valid when the AF function is ON.
1. Set to system setup by long pressing [DISP] button.
2. Press the [◄◄] or [ ►► ] button to select “REG”.
3. Rotate the [VOLUME] knob to select ON or OFF.

**Setting the TA standby mode**
If you press and hold the [TA] button, “TA” lights in the display and the unit is set into the TA standby mode until a traffic announcement is broadcast. When a traffic announcement broadcast starts, “TRAF INF” appears in the display. If you press and hold the [TA] button while a traffic announcement broadcast is being received, the traffic announcement broadcast reception is cancelled and the unit goes into the TA standby mode.

**Cancelling the TA standby mode**
As “TA” lights in the display, press and hold the [TA] button. The “TA” in the display goes off and the TA standby mode is cancelled.

**Selecting PTY**
In the TA standby mode, a TP station has priority over a PTY broadcast station.
CD/MP3/WMA Operations

This unit can playback MP3/WMA files

Note:
• 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.
2. Up to 3000 files can be played.
3. 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.)
4. 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 seconds, the CD is automatically reloaded (Auto reload).
• If the disc couldn’t be ejected or inserted, long press the [ ] button to reset the mechanism.

Listening to a disc already loaded in the unit

Press the [SRC / (b) ] 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.

CD/MP3/WMA Operations

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/RCD-RW discs may not be usable.

Pausing play

1. Press the [ ] button to pause play.
   “PAUSE” appears in the display.
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 [DISP] button to change the title display.

MP3/WMA disc

1. TRACK NO. -> FILE -> FOLDER -> TITLE -> ARTIST -> ALBUM -> CLOCK -> TRACK NO.

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

Track-down
1. After a track plays more than 3 seconds, press the [ ] button to move back to the beginning of the current track.
2. Press the [ ] button when P.Time is within 3 seconds or press the [ ] button twice to move back to the beginning of the previous track.
3. For MP3/WMA disc, press and hold the [ ] 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 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 [ ] button. Press the [ ] button to move the next folder. Press the [ ] 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 [ ] button (1 sec.) to play the first track (track No. 1) on the disc.
**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 "TRK RPT" appears on the display to perform repeat play, and "RPT" segment lights on.

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

---

*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. Open the cover to the left.
3. Operation is same as MP3/WMA operation.

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*AUX Operations*

Press [SRC / ] button 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

<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>Unit can not power on.</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. Note: When the [RESET] button is pressed, turn off the ACC power.*</td>
</tr>
<tr>
<td>Display is not accurate.</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>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>

No/low audio output.

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.

USB Player

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

**FM Tuner**
Frequency range: 87.5-108.0MHz
Usable sensitivity: 8dBf
Frequency response: 30Hz-15kHz
Stereo separation: 30dBi(1kHz)
Signal/noise ratio: >55dB

**MW Tuner**
Frequency range: 531-1602kHz
Usable sensitivity (S/N=20dB): 30dBμ

**LW Tuner**
Frequency range: 153-279kHz
Usable sensitivity (S/N=20dB): 34dBμ

**CD Player**
System: Disc digital audio system
Frequency response: 20Hz-20kHz
Signal/noise ratio: >89dB
Total harmonic distortion:
  Less than 0.2% (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

**Audio Amplifier**
Maximum power output:
  200W (50W x 4)
Speaker impedance: 4Ω (4 to 8 Ω allowable)
Output power
  4 x 24 W DIN 45324, +B=14.4V

**Input**
Audio input sensitivity:
  High: 320mV (at 1V output)
  Mid: 650mV (at 1V output)
  Low: 1.3V (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),
  negative ground
Pre-Amp output voltage:
  2.0V (CD play mode: 1kHz, 0dB, 10kΩ load)
Fuse: 15A
Dimensions of the Main Unit:
  188mm Width x 58mm Height x 187mm Depth
Weight of the Main Unit: 1.1kg

![Dimensions of the Main Unit](image)

**Note:**
- Specifications and design are subject to change without notice for further improvement.
9. INSTALLATION / WIRE CONNECTION GUIDE

CONTENTS
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2) Package Contents ............................................................. 12
3) General Cautions ............................................................... 12
4) Cautions on Installation ....................................................... 12
5) Installing the Source Unit .................................................... 12
6) Removing the Source Unit ..................................................... 13
7) Wiring and Connections ....................................................... 14
8) Connecting the accessories ................................................... 14

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
Trim ring ................................................................. 1
Mounting bracket ......................................................... 1
Screws M5x6 mm ....................................................... 4
L-key(removal key) ..................................................... 2
Rubber cap ............................................................... 1
Special screw(M4x42) ............................................... 1
Owner’s manual ......................................................... 1
Power supply cable ...................................................... 1
Speaker cable ........................................................... 1
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, 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
**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. Screw in 1 piece of M4x42 to the hole of the unit back and put on a rubber cap over the screw. (see picture below)
3. Slide the unit into the bracket until you hear a click sound.

**Method B**

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 trim ring**

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.

**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.
7) Wiring and Connections

- 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.

8) Connecting the accessories

- Yellow wire (Memory back-up lead)
  Connect directly to battery

- Red wire (Power lead)
  Accessory @ 12V

- Orange/White wire (Illumination lead)
  Connect to the power supply terminal for illumination

- Blue/White wire (Amplifier and Antenna turn-on lead)
  Connect to remote turn-on lead of amplifier

- Black wire (Ground lead)
  Connect to vehicle chassis ground

- Gray
- Gray/Black
- White
- White/Black
- Purple
- Purple/Black
- Green
- Green/Black

- Front Right
- Front Left
- Rear Right
- Rear Left

4-Speaker system

or

2-Speaker system

- Not used.
  Insulate each wire
English:
Declaration of conformity
We Clarion declares that this model CZ104E is following the provision of Directive 1999/5/EC with the essential requirements and the other relevant regulations.

Français:
Déclaration de conformité
Nous, Clarion, déclarons que ce modèle CZ104E est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

Deutsch:
Konformitätserklärung
Wir, Clarion, erklären, dass dieses Modell CZ104E den Bestimmungen der Richtlinie 1999/5/EG im Hinblick auf die grundlegenden Anforderungen und andere relevante Bestimmungen entspricht.

Italiano:
Dichiarazione di conformità
Clarion dichiara che il presente modello CZ104E è conforme ai requisiti essenziali e alle altre disposizioni pertinenti stabiliti dalla direttiva 1999/5/CE.

Nederlands:
Conformiteitsverklaring
Clarion verklaart dat het model CZ104E in overeenstemming is met de essentiële eisen en andere relevante voorschriften van de bepalingen van Richtlijn 1999/5/EC.

Espanol:
Declaración de conformidad
Clarion declara que este modelo CZ104E cumple con los requisitos esenciales y otras disposiciones aplicables descritas en la Directiva 1999/5/CE.

Svenska:
Intyg om överensstämmelse
Härmed intygar Clarion att denna modell CZ104E uppfyller kraven i direktiv 1999/5/EG gällande väsentliga egenskaper och övriga relevanta bestämmelser.

Polski:
Deklaracja zgodności
Firma Clarion niniejszym oświadcza, że model CZ104E jest zgodny z istotnymi wymogami oraz innymi odpowiednimi postanowieniami Dyrektywy 1999/5/WE.

Ελληνικά:
Δήλωση συμμόρφωσης
Εμείς στην Clarion δηλώνουμε ότι αυτό το μοντέλο CZ104E τηρεί τις διατάξεις της Οδηγίας 1999/5/ΕΚ σχετικά με τις ουσιώδεις απαιτήσεις και τους άλλους σχετικούς κανονισμούς.

Russian
Декларация о соответствии
Мы, компания Clarion, заявляем, что модель CZ104E соответствует положениям и основным требованиям Директивы 1999/5/EC и другим соответствующим нормативам.

Clarion Europe S.A.S.
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Clarion Co., Ltd.
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PN: 12707500XXXX