

clarion®

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

FZ307/FZ307AU

Bluetooth® USB/SD/MP3/WMA RECEIVER
LECTEUR Bluetooth® USB/SD/MP3/WMA
RECEPTOR Bluetooth® USB/SD/MP3/WMA

CLARION PRODUCT REGISTRATION INFORMATION

For Canada only
www.clarion.com

Dear Customer:

Congratulations on your purchase of a Clarion mobile electronic product. 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 the 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 posted on important product information.

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Cher(e) client(e):

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 produit. 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 enregistré, nous pouvons vous tenir informé des informations importantes de produits.

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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 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 Clarion actualizado.

Under Industry Canada Regulations, this radio transmitter may only operate using an antenna of a certain type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be chosen so that the equivalent isotropically radiated power (e.i.r.p.) is no more than the required one for successful communication.

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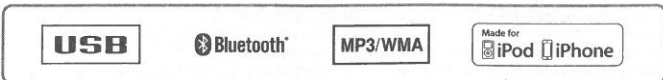
Thank you for purchasing this **Clarion** product.

- Please read this owner's manual in its entirety before operating this equipment.
- After reading this manual, keep it handy, such as in your glove compartment.
- Save your sales receipt. The warranty and your sales receipt are essential for warranty service.

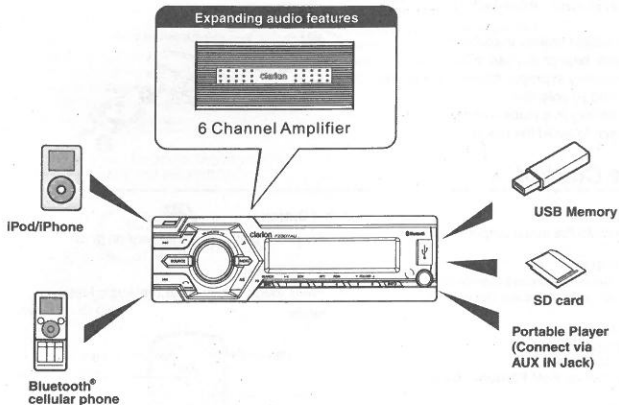
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1. FEATURES

- AM/FM Radio
- Front USB port
- MP3/WMA Compatible with ID3-TAG display
- Front 3.5mm AUX Input
- 45W x 4 Built-in Amplifier
- IR Remote control
- Built-in Bluetooth®
- Compatible with iPod®/ iPhone®



Expanding Systems



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.

IC Caution.
 This device complies with Industry Canada licence exempt RSS standard(s). Operation is subject to the following two conditions:
 (1) This device may not cause interference, and
 (2) This device must accept any interference, including interference that may cause undesired operation of the device.

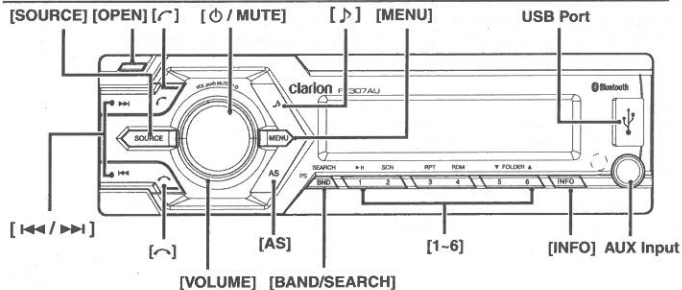


3. CAUTIONS ON HANDLING

Protect from high temperature. Exposure to direct sunlight for an extended period of time can produce very high temperature in your vehicle. Cool down the interior before starting the playback.

4. CONTROLS

Operational Panel



Names of Buttons and their Functions

[SOURCE] Button

- Press SOURCE button to toggle the audio source

[OPEN] Button

- Unlock the front panel

[] Button

- Dial / Answer / Transfer call / Press and hold to Redial

[] Button

- Press this button to turn power On or Off. (long press).
- Press this button to mute the audio output, press it again to unmute the audio output.
- Press to confirm the selection.

[] Button

- Press to adjust the sound effect setting:
EQ -> XBS(iXBass) -> BAL(balance)->
FAD(fader) -> SUB(Subwoofer)

[MENU] Button

- Press access into the system menu mode.

[] Button

- Use these buttons for tuning up and down in Tuner mode, SD mode and USB mode.
- Press and hold to Fast Forward/ Backward in SD mode and USB mode.

[] Button

- Terminate call
- Press this button to quick return to previous menu or mode.

[VOLUME] Button

- Rotate to adjust the volume level.

[AS/PS] Button (radio mode)

- Auto Store / Preset scan
- Press and hold enter auto memory store mode

[BAND/SEARCH] Button

- Press to select tuner band in Tuner mode.
- Press to activate the MP3 file searching mode, then use the volume to select / search by file number in USB and SD mode.

[1-6] Buttons

- [1] Button: Play / Pause / Preset station 1
- [2] Button: Scan play / Preset station 2
- [3] Button: Repeat play / Preset station 3
- [4] Button: Random play / Preset station 4
- [5] Button: Previous folder / Preset station 5
- [6] Button: Next folder / Preset station 6

[INFO] Button

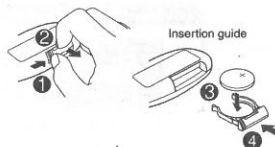
- Press to view the Clock
- Press to change the display indication.

Notes for use of Optional Remote Control

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

Inserting the Battery

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



Remote Control

[] Button

- Mute or Unmute the audio output

[] Button

- Press \uparrow button to increase the volume.
- Press \downarrow button to decrease the volume.

[] Button

- Preset station up/down
- Previous / next track
- Press and hold for Fast Forward / Backward

[SRC] Button

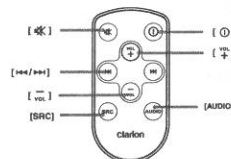
- Toggle the audio source

[] Button

- Press the button to turn power on or off.

[AUDIO] Button

- Press the button to enter the Audio Menu mode.



5. OPERATIONS

Basic Operation

Note: Be sure to read this chapter referring to the chapter "4.CONTROLS"

CAUTION

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

Power On/Off

Note:

- 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 vehicle 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 [MUTE] button to turn the power On or Off.

Selecting a mode

1. Press the [SOURCE] button to display source menu.
 - * External equipment not connected to this unit is not displayed.

Adjusting the volume

1. Rotating the [VOLUME] to increase/decrease the volume.
The adjustable range of volume is 0 to 46.

Mute

Press the [MUTE] button to turn the mute On and Off.

Display System information

Press the [INFO] button on the front panel to switch the display information, system time and playing source.

System Menu

In any mode, press [MENU] button to enter System Menu. Press [I◀] or [▶▶] button to select options, rotate the [VOLUME] knob to adjust a value / option.

CLOCK

Rotate the [VOLUME] knob to set clock, rotate the [VOLUME] clockwise to adjust the minutes and counterclockwise to adjust the hours.

12/24H

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

BEEP ON/OFF

Rotate the [VOLUME] knob to choose button Beep sound On or Off.

DIMMER

Rotate the [VOLUME] knob to adjust the LCD display backlight level between High or Low.

Audio Menu

Press [J] button to enter sound effect setting mode. Press [I◀] or [▶▶] button to select options, rotate the [VOLUME] knob to adjust a value / option.

EQ (Preset Equalizer Setting)

Rotate the [VOLUME] knob to change EQ:
Flat->Jazz->Pop->Classic->Rock->News->Urban->Rave->Movie->Techno->User

When the [EQ USER] is appear, press the [MUTE] button to enter into below option and rotate the [VOLUME] knob to adjust a value:

- BASS(bass): range -7 to +7
- MID(middle): range -7 to +7
- TREB (treble): range -7 to +7

XBS On/Off

Rotate the [VOLUME] knob to turn On or Off the X-BASS booster function.

SUB On/Off

Rotate the [VOLUME] knob to select subwoofer between ON and OFF

DIS-CON / RE-CON

Disconnect / Re-connect currently connected mobile phone.
Press the [MUTE] button to disconnect / Re-connect.

DEFAULT VOL

Rotate the [VOLUME] knob to adjust the default volume.

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.

TUNE AREA (radio mode)

Rotate the [VOLUME] knob to select suitable country region:

- U.S.A (United States)
- LATIN (Latin America)
- EUROPE (Eastern/Western Europe)
- ASIA (Asia Pacific)

SUB LPF (SUB ON)

Rotate [VOLUME] knob to adjust the subwoofer Low Pass Filter range: 80HZ/120HZ/160HZ

SUB GAIN (SUB ON)

Rotate the [VOLUME] knob to adjust the subwoofer gain range: 0 to 12

BAL (Balance)

Rotate the [VOLUME] knob to adjust the balance between the right and left speakers from 10R (full right) to 10L (full left).

FAD (Fader)

Rotate the [VOLUME] knob to adjust the fader between the front and rear speakers from 10R (full rear) to 10F (full front).

Radio Operation

Select Radio as Playing Source

Press the [SOURCE] button to select the RADIO mode.

Selecting the Radio Band

Press the [BAND / SEARCH] button on the front panel to select one Radio band among F1, F2, F3, AM.

[>>>] Tuning Up / [<<<] Tuning Down Buttons

1. Press the [>>>] / [<<<] button to seek to the next strongest station.
2. Press and hold the [>>>] / [<<<] button change intervals step by step.

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 [AS/PS] button.
2. When a desired station is tuned in, press the [AS/PS] 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 [AS/PS] button to start automatically select six strong stations and store them into six presets. The new stations replace any stations already stored in the band.

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 front panel to select the corresponding stored stations.

Local Seeking

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

To select LOCAL function, press the [MENU] button on the front panel, then press the [>>>] / [<<<] button repeatedly until LO or DX display on the LCD, rotate the [VOLUME] knob to select local or distant mode.

Area Set

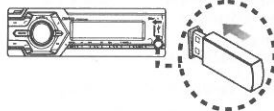
This option allows you to select the appropriate frequency spacing for your area.

1. Press the [MENU] button.
2. Press the [>>>] / [<<<] button to select AREA "
3. Rotate the [VOLUME] knob to select: "U.S.A.", "LATIN", "EUROPE", "ASIA"
4. Press the [MUTE] button to confirm.

USB and SD Mode Operation

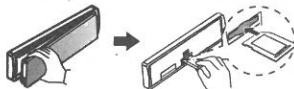
Insert the USB device

1. Slide the USB socket cover **USB** to left.
2. Insert the USB device into the USB socket. Press the [SOURCE] button to select **USB / IPOD** mode to start playing.
3. 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.



Insert the SD Card

1. Press the [OPEN] button to unlock the front panel.
2. Hold the left hand side of the panel & pull forward to disengage it from the chassis.
3. Insert the SD Card into the slot with label facing left until a "CLICK" sounds is heard.
4. Replace the front panel and press the [SOURCE] button to select SD mode to start playing.



Selecting a Track

1. Press the [>>>] button to advance to the next track/song. Press the [<<<] button to go to previous track/song.

2. Press and Hold in the [>>>] button to fast forward through the track/song. Press and Hold in the [<<<] button to fast backward through the track/song.

Play / Pause

Press the [>||] button to pause the track/song that is currently playing. Press the [>||] button to resume playing the track/song that has been paused.

Folder Select

This function allows you to select a folder containing MP3/WMA files and start playing from the first track in the folder. Press the [>V / >▲ 6] button to select a folder.

Search Function

1. Press the [BAND / SEARCH] button on front panel access the MP3 / WMA file search mode.
2. Rotate the [VOLUME] knob to search through all folders on the device then press [> / MUTE] to make your selection.
3. Rotate the [VOLUME] knob to select the desired track within the previously selected folder and press [> / MUTE] to start playing.

Display Function

During playback, pressing the [INFO] button will automatically cycle through the following information on the file being played on the LCD: **FOLDER NAME->FILE NAME->TITLE->ARTIST->ALBUM**

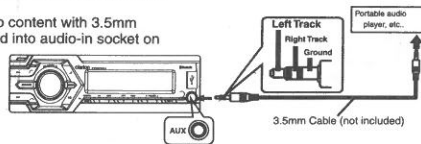
Top function

The top function resets the USD and SD player to the first track of the device. Press the [1] button (long press) to play the first track (Track No. 1) on the USB or SD mode.

AUX Mode Operation

Press the [SOURCE] button on the front panel to select "AUX IN".

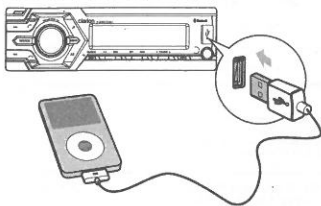
AUX IN is just for audio content with 3.5mm Jack connector plugged into audio-in socket on the front panel.



iPod/iPhone Mode Operation

Connect

Connect an iPod/iPhone to the USB socket on front panel. When connecting a device, press the [SOURCE] button to select USB/iPod mode to start playing. The track information displays on the screen once playback start.



Note:

Please make sure the iPod/iPhone cable is connected correctly. And please only use original iPod/iPhone cable.

Selecting a Track

1. Press the [▶▶] button to advance to the next track/song.
Press the [◀◀] button to go to previous track/song.
2. Press and hold the [▶▶] button to fast forward through the track/song.
Press and hold the [◀◀] button to fast backward through the track/song.

Play / Pause

Press the [▶||] button to pause the track/song that is currently playing.
Press the [▶||] button to resume playing the track/song that has been paused.

iPod Menu Search

1. Press the [BAND/SEARCH] button to select the iPod menu mode.
2. Rotate the [VOLUME] knob to switch between categories.
PLAYLISTS, ARTIST, ALBUM, GENRE, SONGS, COMPOSER, AUDIOBOOK
3. Press [◊/MUTE] button to confirm selection.
4. When display the desired Playlist or Artist or Album or Songs or Genre or Composer or Audiobook, then press the [◊/MUTE] button to confirm.
5. Rotate the [VOLUME] knob to choose the desired song to hear.
6. Press the [◊/MUTE] button to confirm selection and then you will hear the chosen song.

Display Function

During playback, pressing the [INFO] button will automatically cycle through the following information on the file being played on the LCD:
ALBUM -> SONGS -> ARTIST -> CLOCK

Bluetooth mode Operation

Pairing the Bluetooth Device

1. From your Bluetooth enabled device, turn the Bluetooth ON and search for Bluetooth devices.
2. When a list of available Bluetooth devices appear on your Bluetooth device, select "CLARION".
3. "CONNECTED" will appear on the display.
4. The unit will automatically enter the BT Audio source and you can now start streaming audio from your Bluetooth enabled device.

Note: If the mobile phone doesn't support SSP (Simple Secure Pairing) Profile, please enter the pass code of "0000".

Making a Call

You can dial number through the mobile phone.
1. Use the Mobile Phone to dial and make an outgoing call.
2. Once completed the dialing [CALLING] is displayed

Redial

You can call last dialed number.
1. Press the [↶] on front panel to redial.
2. Once completed the dialing [CALLING] is displayed

Answering a Call

1. You can answer an incoming call by pressing the [↶] button.
2. Press the [↷] button to reject an incoming call.

Call Transfer

You can switch Handsfree call and mobile phone call.

Press the [↶] button during call (long press).

DIS-CON / RE-CON

1. Press and hold the [MENU] button to enter System menu.
2. Press the [◀▶] button until "RE-CON" or "DIS-CON" is displayed.
3. Press [◊/MUTE] button to confirm the selection.

Audio Streaming Operations

What is audio streaming?

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

CAUTION

Please avoid operating your connected mobile phone while audio streaming as this may cause noise or sound choppy on the song playback. Audio streaming may or may not resume after telephone interrupt as this is dependent on mobile phone.

Search Function

1. Press the [BAND/SEARCH] button on front panel access the search mode.
2. Rotate the [VOLUME] knob to switch between categories.
PLAYLISTS->ARTIST-> ALBUMS-> GENRES->SONGS->COMPOSERS-> AUDIOBOOK->PODCASTS
3. Press [◊/MUTE] button to confirm the selecting.
4. When display the desired Playlist or Artist or Album or Genres or Songs or Composers or Audiobook or Podcasts, press [◊/MUTE] music file will be displayed.
5. Rotate the [VOLUME] knob to select File.
6. Press [◊/MUTE] button to confirm wanted file to play.

Note:

The search feature requires the paired and connected device that the minimum Bluetooth AVRCP1.4 be incorporated to function.

Play / Pause

Press the [▶⏸] button to pause the track/song that is currently playing.

Press the [▶▶] button to resume playing the track/song that has been paused.

Selecting a Track

1. Press the [▶▶] button to advance to the next track/song.
Press the [◀▶] button to go to previous track/song.
2. Press and hold the [▶▶] button to fast forward through the track/song.
Press and hold the [◀▶] button to fast backward through the track/song.

Note:

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

ID3 Display

During music streaming playback, press [INFO] to view the ID3 display information:

TITULO -> ARTIST -> ALBUM -> CLOCK

6. TROUBLESHOOTING

GENERAL

| Problem | Cause | Measure |
|--|--|---|
| Unit cannot power on. | Unit fuse blown. | Replace with new fuse of correct rating. |
| | Car battery fuse blown. | Replace with new fuse of correct rating. |
| No/low audio output. | Improper audio output connection. | Check wiring and correct. |
| | Volume set too low. | Increase volume level. |
| | Speakers damaged. | Replace speakers. |
| | Heavily biased volume balance. | Adjust the channel balance to center position |
| Poor sound quality or distortion. | Speaker wiring is in contact with metal part of car. | Insulate all speaker wiring connections. |
| | Speaker power rating does not match unit. | Replace speakers. |
| | Wrong connections. | Check wiring and correct. |
| Unit resets itself when engine is off. | Speaker is shorted. | Check wiring and correct. |
| | Incorrect connection between ACC and Battery. | Check the wiring and correct. |

USB

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

Bluetooth

| Problem | Cause | Measure |
|---|---|--|
| Cannot pair the Bluetooth enabled device with the audio system. | The device does not support the profiles required for the system. | Use another device to connect. |
| | The Bluetooth function of the device is not enabled. | Refer to the user manual of the device for how to enable the function. |
| The audio quality is poor after connection with a Bluetooth-enabled device. | The Bluetooth reception is poor. | Move the device closer to the audio system or remove any obstacle between the device and the system. |

7. SPECIFICATIONS

FM Tuner

Australia:

AM 522-1620kHz
FM 87.5-108.0MHz

Asia:

AM 522-1620kHz
FM 87.5-108.0MHz

Canada:

AM 530-1710kHz
FM 87.5-107.9MHz

U.S.A.:

AM 530-1710kHz
FM 87.5-107.9MHz

MP3/WMA mode

MP3 sampling rate: 32kHz, 44.1kHz, 48kHz
MP3 bit rate: 8-320kbps and variable bit rate

WMA bit rate: 8-320kbps
Logical format: ISO9660, Joliet
Number of file: Maximum 999
Max directory depth: 10

Sorting Method: Tree sorting
Max File/Directory Name: 64Byte
ID3 tag: V2.0 or later

USB

USB Host: Host 1.1 compatibles 2.0
Maximum memory capacity: 32GB
Playable folders: up to 99
Playable files: up to 5000

SD

Maximum memory capacity: 32GB
Playable folders: up to 99
Playable files: up to 5000

Bluetooth

Specification: Bluetooth Version. 2.0+EDR
(Enhanced Data Rate)

Supported Profiles: A2DP (Advanced Audio Distribution Profile)
AVRCP 1.4 (Audio/Video Remote Control Profile)
SSP (Simple Secure Pairing)

Send/Receive Sensitivity: Class 2

Bluetooth module

Model: CW51
Brand: CSR CB05-MULTIMEDIA EXTERNAL

General

Power Supply Voltage: 12V DC (10.8 to 15.6V),

Negative Ground
Fuse: 15A

Speaker Impedance: 4-8 ohms per channel

Power output: 45W x 4 channels

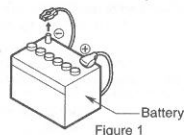
Aux-in level: $\geq 650\text{mV}$

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

8. INSTALLATION AND WIRE CONNECTION

1. Before Starting

1. This set is exclusively for use in vehicles 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)

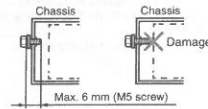
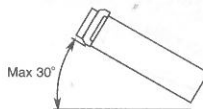


2. General Cautions

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.

3. 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)



4. Installation the Source Unit

- Place the mounting bracket into the instrument panel, use a screwdriver to bend each stopper of the mounting bracket inward, then secure the stopper.
- Wire as shown in Section 5.
- Insert the source unit into the mounting bracket until it locks.
- Take care of the top and bottom of the trim ring and mount it so that all the hooks are locked.

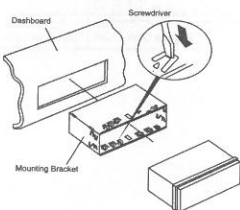
Note: 1. Some car models require special mounting kits for proper installation. Consult your Clarion dealer for details.
2. Fasten the front stopper securely to prevent the source unit from coming loose.

Notes of installation:

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

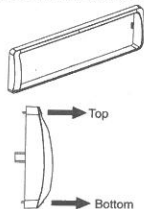
Unit installation

- 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.
- Slide the unit into the bracket until you hear a click sound.

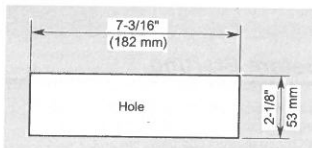


Trim ring installation

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.



Console opening dimensions



5. Wiring and Connections

