clarion®

Owner's manual
Mode d'emploi
Manual de instrucciones
Istruzioni per l'uso

CMD7

WATERTIGHT MARINE CD/USB/MP3/WMA RECEIVER
LECTEUR MARINE ÉTANCHE CD/USB/MP3/WMA
RECEPTOR CD/USB/MP3/WMA MARINO, HERMÉTICO
LETTORE CD/RICEVITORE USB MARINO IMPERMEABILE

CAUTIONS:

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.

!CAUTION

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

OBS!

Apparaten innehåller laserkomponenten son avger laserstrålning överstigande gränsen för laserklass 1.

VAROITUS

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

CE MODEL	**CMD7**	clarion
12V ⊖ GROUND	USA: AM 530-1710kHz / FM 87.9-107.9MHz	
⎓ 15A Load 4Ω	EUROPE: AM 531-1602kHz / FM 87.5-108MHz	
	ASIA: AM 531-1629kHz / FM 87.5-108MHz	

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1)THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2)THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

THIS DEVICE COMPLIES WITH DHHS RULES 21 CFR CHAPTER I SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE.

This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.

CLARION CO.,LTD.
7-2,SHINTOSHIN,CHUO-KU,SAITAMA-SHI,SAITAMA-KEN,JAPAN

CLASS 1 LASER PRODUCT   FC ℮ 4 03 2175

📞 051 722 877   MANUFACTURED: **URF**

SERIAL No.

TX-1080B-A   (LF)   Clarion Co., Ltd.
MADE IN CHINA
PN:127070007740

CLARION PRODUCT REGISTRATION INFORMATION

For USA and Canada only
www.clarion.com

Dear Customer:

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

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

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

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

INFORMATIONS DE L'ENREGISTREMENT DE PRODUITS CLARION

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

Cher client:

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

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

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

Enregistrer à **www.clarion.com** - c'est facile de mettre à jour votre produit Clarion.

INFORMACIÓN DEL REGISTRO DE PRODUCT O DE CLARION

Para USA y Canada nomas
www.clarion.com

Querido Cliente:

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

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

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

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

Contents

Thank you for purchasing this **Clarion** product.
– Please do not use this product on vehicles.
– Please read this owner's manual in its entirety before operating this equipment.
– Check the contents of the enclosed warranty card and keep it carefully with this manual.

1. FEATURES

■ *Watertight Front Panel / Chassis*
■ *Compatible with iPod ® / iPhone® via USB*
■ *4ch RCA Output and BEAT-EQ with 3 Band Parametric Equalizer*

MP3/WMA	USB	COMPACT DISC DIGITAL AUDIO	SIRIUS READY	Made for iPod iPhone

2. PRECAUTIONS

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, users, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio technician for help.

SIRIUS, the SIRIUS Dog logo and related marks are trademarks of SIRIUS XM Radio,Inc.

⚠ CAUTION

USE OF CONTROLS, ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN, MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
THE COMPACT DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.
CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE MANUFACTURER FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

INFORMATION FOR USERS:

CHANGES OR MODIFICATIONS TO THIS PRODUCT NOT APPROVED BY THE MANUFACTURER WILL VOID THE WARRANTY AND WILL VIOLATE FCC APPROVAL.

Front Panel

This unit uses a flip-down structure that makes possible large-size displays.

⚠ CAUTION

When opening and closing the front panel, be careful not to catch your fingers. They could be injured.

1. Always use this unit with the front panel closed.
2. Do not force operations or use this device abnormally when opening or closing the front panel.
3. Do not use the front panel as a tray to place objects on when it is open.
4. When closing the front panel, do not press the [**OPEN**] button.
5. Strong impacts to the operating or display section can cause damage or deformation.
6. If the front panel does not open fully, gently open it with your hand.

Handling Compact Discs

• Compared to ordinary music CDs, CD-R and CD-RW discs are both easily affected by high temperature and humidity and some of CD-R and CD-RW discs may not be played.

   Therefore, do not leave them for a long time in the boat.
• Never stick labels on the surface of the compact disc or mark the surface with a pencil or pen.

Display Screen

In extreme cold, the screen movement may slow down and the screen may darken, but this is normal.

The screen will recover when it returns to normal temperature.

USB Port

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

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

   When using an USB memory stick, we recommend that you backup your data stored on it before using a personal computer etc.
• Data files may be broken when using USB memory sticks in the following situation:

   When disconnecting the USB memory stick or turning the power off during reading data.

   When affected static electricity or electric noise.

   Connect/disconnect the USB memory stick when it is not accessed.
• Connecting with the computer is not covered.

3. CONTROLS

Names of the Buttons and Their Main Functions
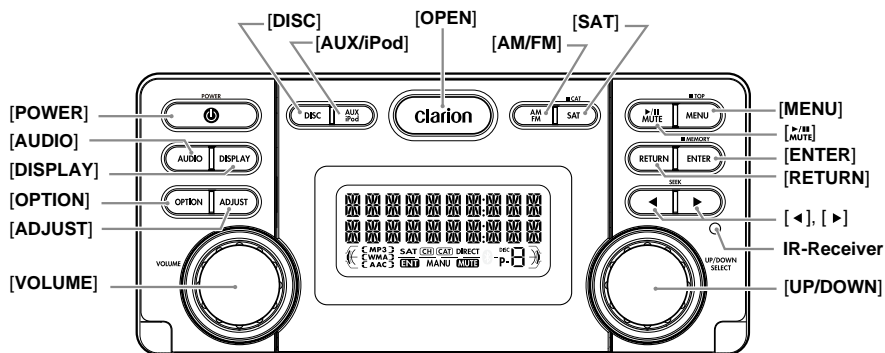
With the front panel opened
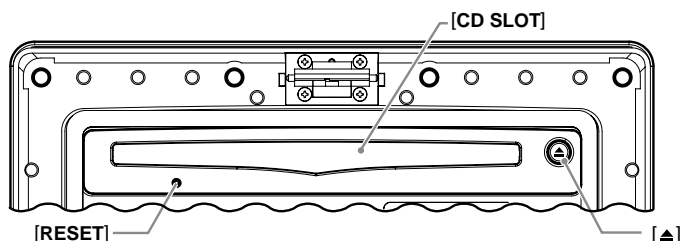
[DISC] button
• Use to switch to CD/MP3/WMA mode.

[AUX/iPod] button
• Use to switch to USB/iPod mode or AUX mode.

[OPEN] button
• Open the panel by pressing the " **Clarion** " oval latch button. Audio will mute with the front panel open.

[AM/FM] button
• Use to switch to Radio mode.
• Switch the band.

[SAT] button
• Use to switch to Satellite mode.

• Switch the band.
• Press and hold the button to enter the category selection mode.

[MENU] button
• Use to switch to the menu mode.

[▶/॥ MUTE] button
• Press and hold the button (1 sec.) to play or pause.
• Turn the mute on/off.

[ENTER] button
• Confirm(press)

Names of the Buttons and Their Main Functions

[RETURN] button
• Press the button to return to the previous mode in some adjust operations.

[◀], [▶] (Search) buttons
• Select a station while in the Radio mode or select a track while in CD/MP3/WMA mode.
• Press and hold the button for (1 sec.) to switch to fast-forward/fast-reverse.

[IR RECEIVER]
• Receiver for optional IR remote control unit.
  (Operating range: 30° in all directions)

[UP/DOWN] knob
• Select folders while in MP3/WMA/USB mode.
• Select previous/next preset station in Radio/Satellite mode.

[VOLUME] knob
• Adjust the volume by turning the knob.

[ADJUST] button
• Press the button to enter the adjust mode.

[OPTION] button
• Press the button to enter the option mode.

[DISPLAY] button
• Press the button to switch the display indication.

[AUDIO] button
• Press the button to enter the audio adjust mode.

[POWER] button
• Press the button to turn on or off the power.

[CD SLOT]
• CD insertion slot.

[▲] (Eject) button
• Eject a CD when it is loaded into the unit.

[RESET] button
• Press the button when the following symptoms occur.
  * Nothing happens when buttons are pressed.
  * Display is not accurate.
 * The settings will remain in the memory even if you turn the power off or press the reset button.

4. REMOTE CONTROL

Optional Wired Remote Control Unit Operations

Following operations are enabled by remote control with the separately sold Wired Remote Control Unit MW1 (shown below), MW2 or MW3.

Note:
If the remote control is connected with this unit while the power on, please restart this unit again to confirm the normal display.
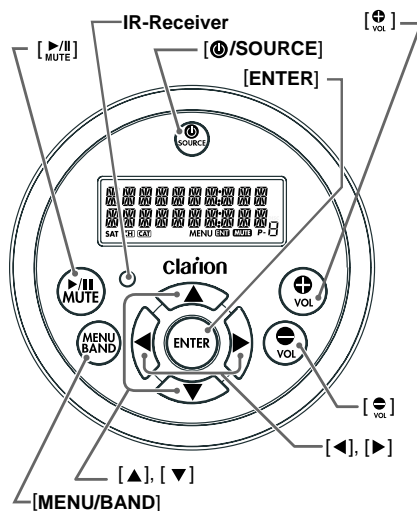
Optional Wired Remote Control Unit Operations

⚠ CAUTION

Lower the volume level before powering the source unit off. The source unit stores the last volume setting.

⚠ WARNING

When the front panel is open, no sound is produced, and source unit controls and remote control unit operations are disabled. Always shut the front panel after changing the CD.
EXPOSING THE UNIT TO WATER WITH THE FRONT PANEL OPEN WILL CAUSE DAMAGE OR UNIT MALFUNCTION!

[⏻ /SOURCE] button
- Press the **[⏻ /SOURCE]** button to turn the power on and press and hold it (1 sec.) to turn the power off.
- Each time the **[⏻ /SOURCE]** button is pressed, the mode switches in the following order:
  Radio mode -> DISC mode -> USB/iPod mode -> AUX mode -> Satellite mode -> Radio mode.....

Note:
- *If the above equipment is not connected, corresponding mode cannot be selected.*

[ENTER] button
- Confirm various selectings.
- Long press to input the channel No.directly. (in Sirius mode.)

[⊕], [⊖] buttons
- Press the [⊕] button to increase the volume.
- Press the [⊖] button to decrease the volume.

[◀], [▶] buttons
- Press the [▶] button to start playback from the beginning of the following track. Press the [◀] button to start playback from the beginning of the current track. If pressed again, the track moves to the previous one. (in CD/MP3/WMA mode or USB/iPod mode)
- Press and hold the [▶] button to fast-forward the disc. Press and hold the [◀] button to fast-reverse the disc.

- Press the [◀] or [▶] button to tune in a station for seek tuning or manual tuning (Radio mode/Satellite mode only).

[▲], [▼] buttons
- Select preset stations (in Radio or Satellite mode)
- Select category items (in Satellite category mode)
- Select folders (in MP3/WMA or USB mode)

[MENU/BAND] button
- Each time the button is pressed, the band switches in the following order:
  Radio : FM1 -> FM2 -> FM3 -> AM -> FM1.....
  Sirius Satellite : SR1 -> SR2 -> SR3
- Press and hold the button to enter the category selection mode. (in Sirius Satellite mode.)
- Press and hold the button, it will start from the first track. (in CD/MP3/WMA and USB modes)
- Press the [**MENU**] button to enter the list search mode. (in CD/MP3/WMA and USB modes)

[▶/⏸] button
- Press the [▶/⏸] button. The sound is muted immediately. To cancel, press the [▶/⏸] button again. (in Radio and Satellite modes)
- Press to play or pause in CD/MP3/WMA and USB mode.

IR-Receiver
- Receiver for optional IR remote control unit.
  (Operating range: 30° in all directions)

Wireless Remote Control Unit Operations (*RX001: Sold by separately*)

* Some buttons on the remote control unit have different functions from the corresponding buttons on the main unit.

Signal transmitter

[SRC / ⏻]

[BAND / TOP]

[▲ , ▼]

[◄◄ , ►►|]

[►/‖]

[ISR]
[DISP]

[MUTE]

[SCN/PS/AS]

[RDM]

[RPT]

clarion

• *Shared modes*

[SRC/⏻] button
• Press the button to turn on the power. Press and hold the button (1 sec.) to turn off the power.
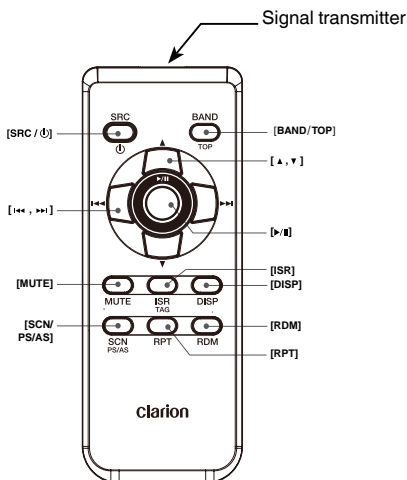• Use to alternate operation mode among the various modes.

[▲], [▼] buttons
• Increases and decreases volume.

[MUTE] button
• Turns mute function on and off.

[DISP] button
• Press to select the desired display.

• *Radio / Satellite Radio modes*

[BAND/TOP] button
• Switches reception band.

[|◄◄], [►►|] buttons
• Moves preset channels up and down.

[SCN/PS/AS] button
• Press to perform preset scan. (in Radio mode)
• Press and hold the button (2 sec.) to perform auto store. (in Radio mode)
• In the channel selection mode, press to perform preset scan; in the category mode, press to perform category scan. (in Sirius Satellite Radio mode)

• *CD / MP3 / WMA and USB modes*

[BAND/TOP] button
• Press to play the first track.

[|◄◄], [►►|] buttons
• Press to select tracks.
• Press and hold the button (1 sec.) to perform fast-forward/fast-reverse (Except DRM file).

[►‖] button
• Switches between playback and pause.

[SCN/PS/AS] button
• Press to perform scan play.

[RPT] button
• Press to perform repeat play.
• When in repeat play mode, press to perform folder repeat play.

[RDM] button
• Press to perform random play.

Wireless Remote Control Unit Operations

• iPod mode

[I◀◀], [▶▶I] buttons
• Press to move the tracks up and down.
• Press and hold the button (1 sec.) to perform fast-forward/fast-reverse.

[▶II] button
• Switches between playback and pause.

[RPT] button
• Press to perform repeat play.

[RDM] button
• Press to perform repeat play mode.
• When in random album play, press the button to perform random song play.

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
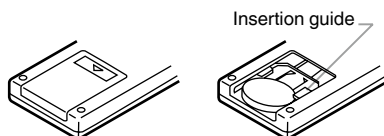
5. OPERATIONS

Note:
• *Be sure to read this chapter referring to the front diagrams of chapter "3. CONTROLS"*

Basic Operations

⚠ CAUTION

Be sure to lower the volume before powering the source unit off. The unit remembers its last volume setting.

⚠ WARNING

When the front panel is open, no sound is produced, and source unit controls and remote control unit operations are disabled. Always shut the front panel after changing the CD.
EXPOSING THE UNIT TO WATER WITH THE FRONT PANEL OPEN WILL CAUSE DAMAGE OR UNIT MALFUNCTION!

Turning on/off the power

Press the [**POWER**] button to turn on or off the power.

Selecting a mode

1. Press the [**DISC**], [**AUX/iPod**], [**AM/FM**] or [**SAT**] button to change the operation mode.
   * iPod or iPhone can connect to this unit via CCA-748 cable.

Adjusting the volume

1. Turning the [**VOLUME**] knob clockwise increases the volume; turning it counterclockwise decreases the volume.
   * The volume level is from 0 (minimum) to 40 (maximum).

Switching the display

Press the [**DISPLAY**] button to select the desired display.

Audio Adjustment

You can adjust a audio effect or tone quality to your preference.

To change sound setting

1. Press the [**AUDIO**] button to switch to the sound adjustment selection display.
2. Then press the [◀] or [▶] button to select the audio adjustment mode.
   Each time you press the [◀] or [▶] button, the audio adjustment mode changes as following order:
   BEAT EQ -> BALANCE -> FADER -> M-B EX -> NO FADER
   * In the case of display blinking "**ENT**", you can press the [**ENTER**] button to adjust the setting value.
3. Turn the [**UP/DOWN**] knob to adjust the selected audio mode.
4. After completing settings, press the [**RETURN**] button to return to the previous mode.

Basic Operations

Adjusting BEAT EQ

1. Select "**BEAT EQ**".
   Turn the [**UP/DOWN**] knob to select following order:
   OFF -> B-BOOST -> IMPACT -> EXCITE -> CUSTOM
2. When B-BOOST, IMPACT or EXCITE appears on the LCD, press [**ENTER**] to changes it, then turn the [**UP/DOWN**] knob to adjust the gain from –3 to +3.
3. Press the [**ENTER**] button to changes CUSTOM, then press [◄] or [►] button to select it including: BAS-G -> BAS-F -> BAS-Q -> MID-G -> MID-F -> MID-Q -> TREBLE-G -> TREBLE-F, turn the [**UP/ DOWN**] knob to select a value.
   BAS-G / MID-G / TREBLE-G: (-7)- (+7)
   BAS-F: 60/80/100/200
   BAS-Q: 1.0/1.25/1.5/2.0
   MID-F: 500/1K/1.5K/2K
   MID-Q: 0.5/0.75/1.0/1.25
   TRE-F: 10.0K/12.5K/15.0K/17.5K

Adjusting the balance

1. Select "**BALANCE**".
2. Turn the [**UP/DOWN**] knob to adjust the balance of the right and left speakers.
   * The factory default setting is "**CENTER**".
     (Adjustment range: RIGHT 7 to LEFT 7)

Adjusting the fader

1. Select "**FADER**".
2. Turn the [**UP/DOWN**] knob to adjust the balance of the rear and front speakers.
   * The factory default setting is "**CENTER**".
     (Adjustment range: FRONT 7 to REAR 7)

Adjusting the M-B EX

1. Select "**M-B EX**".
2. Turn the [**UP/DOWN**] knob to select ON or OFF.

Adjusting the non-fader volume

Adjust volume output from the unit's non-fader output terminal.

1. Select "**NO FADER**".
2. Turn the [**UP/DOWN**] knob clockwise to increase volume; turn counterclockwise to decrease volume.
   * The factory default setting is "**0**".
   (Adjustment range: +6 to –6)

• During SOUND adjustment mode, if no operation is performed for more than 10 seconds, this mode can be cancelled and return to previous mode.

Operations Common to Each Mode

To change adjustment setting

1. Press the [**ADJUST**] button to switch to the adjustment selection display.
2. Press the [◀] or [▶] button to select the "**item name**".
   CLOCK, SCRN SVR, SCROLL, DIMMER, CONTRAST, REAR/N-F, BEEP, 12/24H, RESET
3. Turn the [**UP/DOWN**] knob to select the "**desired setting value**".
   * In the case of display blinking "**ENT**", you can press the [**ENTER**] button to adjust the setting value.
4. After completing settings, press the [**ADJUST**] or [**RETURN**] button to return to the previous mode.

CLOCK
1. Select "**CLOCK**".
2. Press the [**ENTER**] button.
3. Press the [◀] or [▶] button to select the hour or the minute.
4. Turn the [**UP/DOWN**] knob to set the correct time.
   * The clock is displayed in 12-hour format by default.
5. Press the [**ENTER**] button to store the time into memory.

Note:
* *You cannot set the clock when it is displayed with only the ignition on. If you drain or remove the boat's battery or take out this unit, the clock is reset. While setting the clock, if another button or operation is selected, the clock set mode is canceled.*

SCRN SVR: ON/OFF
1. Select "**SCRN SVR**".
2. Turn the [**UP/DOWN**] knob to choose SCRN SVR (screen saver) ON or OFF.

SCROLL: ON/OFF
For track information that is longer than the display panel:
1. Select "**SCROLL**".
2. Turn the [**UP/DOWN**] knob to select "**ON**" or "**OFF**".
When SCROLL is ON, the LCD will display ID3 TAG information cyclely, e.g: TRACK->FOLDER->FILE->ALBUM->TITLE->ARTIST->TRACK->...
When SCROLL is OFF, the LCD will display one of the ID3 TAG information, the default is TRACK, but user can adjust it to other ID3 TAG information by pressing [**DISPLAY**] button.

DIMMER: ON/OFF
You can set the dimmer control "**ON**" or "**OFF**".
* The factory default setting is "**ON**".
1. Select "**DIMMER**".
2. Turn the [**UP/DOWN**] knob to select "**ON**" or "**OFF**".

CONTRAST
You can adjust the display contrast to match the angle of installation of the unit.
* The factory default setting is "9".
  (Adjustment level: 1 to 10)
1. Select "**CONTRAST**".
2. Turn the [**UP/DOWN**] knob to adjust the contrast.

REAR/N-F
1. Select "**REAR/N-F**".
2. Turn the [**UP/DOWN**] knob to choose REAR or NO FADER.

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

12/24H
1. Select "**12/24H**".
2. Turn the [**UP/DOWN**] knob to choose time format: 12 HOURS or 24 HOURS.

RESET
1. Select "**RESET**".
2. Long press [**ENTER**] button.
3. Settings will be set to the default value.

Radio Operations

Changing the reception area

This unit is initially set to USA frequency intervals of 10 kHz for AM and 200 kHz for FM. When using it outside the USA, the frequency reception range can be switched to the intervals below.

		U.S. standard	Other countries	Europe standard
AM	Frequency spacing	10 kHz	9 kHz	9 kHz
	Frequency range	530 to 1,710 kHz	531 to 1,629 kHz	531 to 1,602 kHz
FM	Frequency spacing	200 kHz	50 kHz	50 kHz
	Frequency range	87.9 to 107.9 MHz	87.5 to 108 MHz	87.5 to 108 MHz

Setting the reception area

* All station preset memories are lost when the reception area is changed.
1. Press the [**AM/FM**] button and select the desired radio band (FM or AM).
2. Press the [**OPTION**] button.
3. Press the [◄] or [►] button to select "**TUN AREA**".
4. Turn the [**UP/DOWN**] knob to select:
   • U: U.S. standard (initial setting)
   • K: Other countries
   • E: Europe standard
5. Press and hold the [**ENTER**] button to store the selecting.
   • The unit will turn off after setting.

Listening to the radio

1. Press the [**AM/FM**] button and select the radio mode.
2. Press the [**AM/FM**] button and select the radio band. Each time the button is pressed, the radio reception band changes in the following order:
   FM1 -> FM2 -> FM3 -> AM -> FM1...

Mute

Use this function to turn off the sound immediately.
1. Press the [►/‖ MUTE] button. The sound turns off and "**MUTE**" appears on the display.
2. Press the [►/‖ MUTE] button again to cancel the mute mode.

Tuning

There are 3 types of tuning mode available, seek tuning, manual tuning and preset tuning.

Seek tuning

1. Press the [**AM/FM**] button repeatedly and select the desired band (FM or AM).
2. Press and hold the [◄] or [►] button (1 sec.) to automatically seek a station.

Manual tuning

Press the [◄] or [►] button to manually tune in a station.

Recalling a preset station

A total of 24 preset positions (6-FM1, 6-FM2, 6-FM3, 6-AM) exists to store individual radio stations in memory.
1. Press the [**AM/FM**] button and select the radio band.
2. Press the [**MENU**] button.
3. Turn the [**UP/DOWN**] knob to select the desired preset station.
4. Press the [**ENTER**] button to recall the stored frequency.

Note:

*After the band selecting, you can also turn the [**UP/DOWN**] knob to select a desired preset station.*

Manual memory

1. Select the desired station with seek tuning or manual tuning.
2. Press the [**MENU**] button
3. Turn the [**UP/DOWN**] knob to select a desired station.
4. Press and hold the [**ENTER**] button to store the current station into preset memory.

Auto store

Auto store is a function for storing up to 6 stations that are automatically tuned in sequentially. If 6 receivable stations cannot be received, a previously stored station remains unoverwritten at the memory position.

Radio Operations

1. Press the [**AM/FM**] button and select the desired band (FM or AM).
2. Press the [**OPTION**] button.
3. Press the [◀] or [▶] button to select "**AUTO STORE**".
4. Press [**ENTER**] button. The stations with good reception are stored automatically to the preset channels.
   * If auto store is performed in the FM bands, the stations are stored in FM3 even if FM1 or FM2 was chosen for storing stations.

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 [**OPTION**] button.
2. Press the [◀] or [▶] button to select "**PRESET SCN**".
3. Press the [**ENTER**] button.
   * When a desired station is tuned in, press the [**ENTER**] button to continue receiving that station.

SIRIUS Satellite Radio Operations

This function is available when this unit is connected to the SCC1 tuner (sold separately).

Selecting a Satellite Radio mode

1. Press the [**SAT**] button.
   The system changes to the specified Satellite Radio mode.

Selecting a band

1. Press the [**SAT**] button to select a band.
   This changes the reception band as follows:
   SR1 -> SR2 -> SR3

● **Information displayed during reception**
The following information is displayed when the satellite radio cannot be received normally.
- When the tuner is not be connected: "**NO TUNER**".
   * In this time, please turn off the power and connect the tuner to this unit.
- When the antenna is not be received: "**NO ANTENNA**".
- When no signal is received: "**ACQUIRING**".
- When the contract of the channel is being updated: "**SUB UPDT**".
- When the channel map is being updated: "**UPDATING**".
- A channel without a broadcast has been selected: "**INVALID CH**".
- A channel not covered by your contract: "**CALL 888-539-SIRIUS TO SUBSCRIBE**".

Confirming your SIRIUS ID

1. Switch to channel 0.
   * For details, see the following operation descriptions.
2. The SIRIUS ID appears in the display.

Displaying channel labels

1. Press the [**DISPLAY**] button to select the desired channel label.
2. Channel -> Category -> Title (Artist) -> Composer -> Channel...

Channel input directly

This function allows you to input the channel No. directly.
1. Press the [**ENTER**] in the Satellite mode.
2. To input the channel number, turn the [**UP/DOWN**] rotary to select a number, press [◄] or [►] button to move the cursor.
3. Long press the [**ENTER**] to confirm the input.

Notes:
- *If no operation is performed whthin 10 seconds, it will return to the previous mode.*
- *If you select the Parental Locked channel, it will remind you to enter the password (For details, see the chapter "**Parental Lock function**").*

Channel selection

1. Channels are selected with the [◄] or [►] button.
   * For details, see the following operation descriptions.

Notes:
- *The audio output is muted and other button operations are not accepted during channel selection.*
- *The Parental Locked, unsubscribed and invalid channels will be skipped and can not be tuned.*

Recalling a preset station

A total of 18 satellite radio stations can be stored.
   6-SR1, 6-SR2 and 6-SR3
This allows you to store your favorite satellite radio stations in memory for later recall.
1. Press the [**SAT**] button to select the desired band.
2. Press the [**MENU**] button.
3. Turn the [**UP/DOWN**] knob to select the desired preset station.
4. Press the [**ENTER**] button.

Note:
- *After the band selecting, you can also turn the [**UP/DOWN**] knob to select a desired preset channel.*

Preset memory
1. Press the [**SAT**] button to select the desired band.
2. Select the desired channel.
3. Press the [**MENU**] button.
4. Turn the [**UP/DOWN**] knob to select a desired preset channel.
5. Press and hold the [**ENTER**] button (2 sec.) to store the current channel into preset memory.

Browse the category
1. Press and hold the [**SAT**] button (1 sec.).
* It press and hold once again, return to the channel selection mode.
2. Turn the [**UP/DOWN**] knob to change the category item.

Scan function
During scanning channels are displayed in abbreviated form, the display mode cannot be switched.

Preset scan (PRESET SCN)
A preset scan scans the channels (up to 18 channels) stored in the preset memory about every 10 seconds.
* This function is available in the channel selection mode.
1. Press the [**OPTION**] button.
2. Press the [◀] or [▶] button to select "**PRESET SCN**".
3. Press the [**ENTER**] button.
   And start the preset scanning.

Category scan (*CAT SCN*)
In a category scan, broadcast channels in the same category as the current channel are selected about every 10 seconds.
* This function is available in the category selection mode.
1. Press and hold the [**SAT**] button (1 sec.) to enter "**CAT MODE**".
2. Press the [**OPTION**] button, then "**CAT SCN**" appears on the display.
3. Press the [**ENTER**] button.
   And start the category scanning.
Note:
• Category scanning is not available when no category is defined for the current channel.

Parental Lock function
This function allows you to set a listening limitation level.
This setting is possible only when a password is entered.

Setting the Password
* The factory default setting is "**0000**".
1. Press the [**OPTION**] button.
2. Press the [◀] or [▶] button to select "**PARENTAL PASSWORD**".
3. Press the [**ENTER**] button.
4. Input the old password.
   4-1.Press the [◀] or [▶] button to move the cursor.
   4-2.Turn the [**UP/DOWN**] knob to select a number.
   4-3.Press the [**ENTER**] button.
5. Input a new password.
   Repeat step 4-1 to 4-3.
6. Input the new password again.
   Repeat step 4-1 to 4-3.
   "**SUCCESS**" appears on the display.

Locking Channel
1. Select a desired channel.
2. Press the [**OPTION**] button.
3. Press the [◀] or [▶] button to select "**LOCK CH**".
4. Press the [**ENTER**] button.
5. Input the right password.
   5-1.Press the [◀] or [▶] button to move the cursor.
   5-2.Turn the [**UP/DOWN**] knob to select a number.
6. Press the [**ENTER**] button.

Unlocking the Channel
1. Select the locked channel through inputting channel No. directly.
2. Press the [**OPTION**] button.
3. Press the [◀] or [▶] button to select "**UNLOCKCH**".
4. Press the [**ENTER**] button.
5. Input the right password.
   5-1.Press the [◀] or [▶] button to move the cursor.
   5-2.Turn the [**UP/DOWN**] knob to select a number.
6. Press the [**ENTER**] button.

SIRIUS Satellite Radio Operations

Unlocking All Channel
1. Press the [**OPTION**] button.
2. Press the [◄] or [►] button to select
   "**UNLOCK ALL CH**".
3. Press the [**ENTER**] button.
4. Input the right password.
   4-1. Press the [◄] or [►] button to move
   the cursor.
   4-2. Turn the [**UP/DOWN**] knob to select a
   number.
5. Press the [**ENTER**] button.

Unskip all channel function

This function allows you to unskip the
skipped channel.
1. Press the [**OPTION**] button.
2. Press the [◄] or [►] button to select
   "**UNSKIP ALL CH**".
3. Press the [**ENTER**] button.

CD／MP3／WMA Operations

This unit can play back MP3／WMA files

Notes:

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

**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 file

Usable sampling rates and bit rates

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

File extensions

1. Always add a file extension ".MP3", ".WMA" to MP3, WMA file by using single byte letters. If you add a file extension other than specified or forget to add the file extension, the file cannot be played.
2. Files without MP3/WMA data will not play. The files will be played soundlessly if you attempt to play files without MP3/WMA data.

    * When VBR files are played, the play time display may differ the play location.
    * When MP3/WMA files are played, a little no sound part is caused between tunes.

Logical format (File system)

1. When writing MP3/WMA file on a CD-R disc or CD-RW disc, please select "ISO9660 level 1, 2 or Joliet or Romeo" or Apple ISO as the writing software format. Normal play may not be possible if the disc is recorded on another format.
2. The folder name and file name can be displayed as the title during MP3/WMA play but the title must be within 32 single byte alphabetical letters and numerals (including an extension).

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

Folder structure

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

Number of files or folders

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

Eject function

Just pressing the **[▲]** button, ejects the disc even if the power to the unit was not turned on.

1. Press the [**OPEN**] button to open the front panel.
   Notes:
   • If the front panel will not open far enough, open it gently with your hand.
2. Press the **[▲]** button. Remove the disc after it is ejected.
3. Close the front panel.
   * Press the center of the front panel to close.
   Notes:
   • Always close the front panel once you take out the disc.
   • 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).

⚠ CAUTION

• **Do not try to put your hand or fingers in the disc insertion slot. Also never insert foreign objects into the slot.**
• **Do not insert discs where adhesive comes out from cellophane tape or a rental CD label, or discs with marks where cellophane tape or rental CD labels were removed. It may be**

impossible to extract these discs from the unit and they may cause the unit to break down.

Listening to a disc already loaded in the unit

Press the **[DISC]** button to select the CD/MP3/WMA mode.
When the unit enters the CD/MP3/WMA mode, play starts automatically.
If there is no disc loaded, the indication "**NO DISC**" appears in the title display.

Loading a CD

1. Press the [**OPEN**] button to access the CD SLOT behind the front panel.
2. Insert a CD into the center of the CD SLOT with label facing up. The CD plays automatically after loading.
   Notes:
   • *Never insert foreign objects into the CD SLOT.*
   • *If the CD is not inserted easily, there may be another CD in the mechanism or the unit may require service.*
   • *Discs without the or mark and CD-ROMs cannot be played by this unit.*
   • *Some CD-R/CD-RW discs may not be usable.*
3. Close the front panel.
   * Press the center of the front panel to close.

Pausing play

1. Long press the **[►/ll MUTE]** button to pause play. "**PAUSE**" appears in the display.
2. To resume CD play, long press the **[►/ll MUTE]** button again.

Displaying CD titles

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

MP3/WMA disc
FILE->FOLDER->TITLE->ARTIST->ALBUM->TRACK->FILE ...

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

Selecting a track

Track-up
1. Press the [►] button to move 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.

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.

Fast-forward/Fast-reverse

Fast-forward
Press and hold the [►] button (1 sec.).
Fast-reverse
Press and hold the [◄] button (1 sec.).
* 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.
Turn the [**UP/DOWN**] knob to select a folder.

Top function

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

Search Function

1. When playing MP3/WMA disc, press the **[MENU]** button to enter "**FOLD SCH**" mode. Press the **[ENTER]** button to enter the folder list search mode.
2. Turn the [**UP/DOWN**] knob to select a folder.

3. Press the **[ENTER]** button to enter the file list search mode. And then the track list appears in the display.
4. Turn the [**UP/DOWN**] knob to select a track.
5. Press the **[ENTER]** button to play.
* When play back MP3/WMA file, this function is performed in the current folder.

Other various play functions

1. Press the [**OPTION**] button.

Scan play

This function allows you to locate and play the first 10 seconds of all the tracks recorded on a disc.
2. Press the [◀] or [▶] button to select "**SCN**".
3. Turn the [**UP/DOWN**] knob to select "**ON**" or "**OFF**".
4. Press the [**ENTER**] button.

Repeat play

This function allows you to play the current track repeatedly.
2. Press the [◀] or [▶] button to select "**RPT**".
3. Turn the [**UP/DOWN**] knob to select :
   "**ON**" or "**OFF**" when playing CD disc;
   "**OFF**", "**TRK**" or "**FOLD**" when play MP3/WMA disc or USB device.
4. Press the [**ENTER**] button.

Random play

This function allows you to play all tracks recorded on a disc in a random order.
2. Press the [◀] or [▶] button to select "**RDM**".
3. Turn the [**UP/DOWN**] knob to select "**ON**" or "**OFF**".
4. Press the [**ENTER**] button.

To cancel play

2. Press the [◀] or [▶] button to select "**TRICK PLAY OFF**".
3. Press the [**ENTER**] button.

USB Operations

1. Connect the USB memory device to the USB cable. The unit will read the files automatically.
2. To remove the USB device, you should first select another source or turn off the power, in order to avoid damaging the USB device. Then take off the USB device.
3. Operation is same as MP3/WMA operation.

AUX function

The rear AUX terminals of this system is provided to allow playback of sounds and music from external devices connected to this unit.

Selecting AUX mode
Press the [**AUX/iPod**] button to select "**AUX**".

Selecting AUX IN sensitivity
Make the following settings to select the sensitivity when sounds from external devices connected to this unit are difficult to hear even after adjusting the volume.
* The factory default setting is "MID".
1. Press the [**OPTION**] button.
2. "**AUX SENS**" appears in the display.
3. Turn the [**UP/DOWN**] knob to select "**HIGH**", "**MID**" or "**LOW**".
Note:
• *When AUX mode is selected, AUX IN sensitivity can be set.*

iPod ® & iPhone® Operations

This section describes operations when connected to an iPod or iPhone via CCA-748 USB cable.

Notes:
- *See the iPod Owner's Manual for details regarding operation conditions.*
- *The unit will not operate, or may operate improperly with unsupported versions.*
- *For a list of compatible Apple iPod unit with the this model, please contact your dealer or www.clarion.com.*
- *"Made for iPod," and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.*

   Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

   iPhone and iPod are trademarks of Apple Inc., registered in the U.S. and other countries.

Connecting an iPod

When an iPod is connected to the USB slot, "Shuffle" set on the iPod will become as follows:
- "Shuffle (Albums)" play -> Random play
- "Shuffle (Songs)" play -> All random play

The iPod has two modes, the "Play mode" and the "iPod menu mode" for selecting tracks.
Switch between these modes by pressing the [**MENU**] button.

Note:
- *To connect iPod or iPhone, please use CCA-748 cable (sold separately).*

Select iPod mode

1. Press the [**AUX/iPod**] button.
   Playback will begin from the last file that was played on the iPod.

Notes:
- *The following operations in Play mode operate the same as in CD mode:*
   * Track selection: [◀], [▶]
   * Fast-forward/fast-reverse: [◀], [▶]
   * Pause: [▶/ll MUTE]

See "CD/MP3/WMA Operations" for details.
- *After a Podcast file has completed playback, the pause display, or the track-end position Play-Time display will appear. At that time, select a music file once again.*

Setting iPod simple mode

Use this function if you wish to operate through your iPod connected to this unit via the USB cable.
* The factory default setting is "**OFF**".
1. Press the [**OPTION**] button.
2. Press [◀] or [▶] to select "**S-CTRL**".
3. Turn the [**UP/DOWN**] knob to select "**ON**" or "**OFF**".
   - **ON**: Operations are made through your iPod.
   - **OFF**: Operations cannot be made through your iPod.

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

Other various play functions (*in Play mode*)

Notes:
- *These functions are not supported when in the iPod menu mode.*
- *The Random function set on the iPod remains the same after attachment/ detachment of the iPod.*
- *The Repeat function on the iPod will be changed when you connect/disconnect the iPod to the unit.*

iPod & iPhone Operations

Repeat play
Play back one track repeatedly.
1. Press the [**OPTION**] button.
2. Press the [◄] or [►] button to select "**RPT**".
3. Press the [**ENTER**] button.

Random play
Play all albums within a selected category, in random order. (Corresponds to "Shuffle (Albums)" command on iPod.)
1. Press the [**OPTION**] button.
2. Press the [◄] or [►] button to select "**RDM**".
3. Turn the [**UP/DOWN**] knob to select "**ALBUM**".
4. Press the [**ENTER**] button.

All random play
Play all tracks within a selected category, in random order. (Corresponds to "Shuffle (Songs)" command on iPod.)
1. Press the [**OPTION**] button.
2. Press the [◄] or [►] button to select "**RDM**".
3. Turn the [**UP/DOWN**] knob to select "**SONG**".
4. Press the [**ENTER**] button

To cancel play
1. Press the [**OPTION**] button once again.
Notes:
• *When the repeat play mode is canceled, after play all tracks within a selected category, playback will begin from the first track in the selected category.*
• *When playing the last track within a selected category in Random mode, if ACC is switched off then on again, playback will begin from a different track.*
• *Though the default setting of an iPod is "All Repeat", the indication on the mode status is not displayed.*
• *When performing operations using simple control mode, do not set the repeat off on the iPod.*

Selecting category from the iPod menu
1. In the S-CTRL OFF mode, press the [**MENU**] button, turn the [**UP/DOWN**] knob select "**MUSIC**" or "**VIDEO**"
• To select "**MUSIC**", press [**ENTER**] button, turn the [**UP/DOWN**] knob to show categories.
The iPod menu categories alternate in the following order:
"PLAYLISTS", "ARTISTS", "ALBUMS", "SONGS", "GENRES", "COMPOSERS".
• To select "**VIDEO**", press [**ENTER**] button, turn the [**UP/DOWN**] knob to show categories.
The iPod menu categories alternate in the following order:
"MOVIES", "MUSIC VIDEOS", "TV SHOWS", "VIDEO PADCASTS", "RENTALS".
2. Rotade the [**UP/DOWN**] knob to select categories and press [**ENTER**] button.
3. Rotade the [**UP/DOWN**] knob to select desired option, then press the [**ENTER**] button to confirm.
4. To exit the category selecting.
• Press the [◄] button to back previous subfolder list in iPod menu.
• Press and hold (1sec) [**MENU**] button to back top of iPod menu "MUSIC/VIDEO".

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

iPod menu alphabet search
This function searches the subfolders for desired alphabetical letters.
1. Press and hold the [**MENU**] button to select the iPod menu mode.
2. Turn the [**UP/DOWN**] knob to switch between categories.
3. Press the [**ENTER**] button.
   * Subfolders may be displayed, depending on the category. In this case, you can turn the [**UP/DOWN**] knob to switch between subfolders and use the [**ENTER**] button to enter the next subfolder layer.
4. Press and hold the [**DISPLAY**] button (1 sec.).
5. Turn the [**UP/DOWN**] knob to select the desired letter to search.
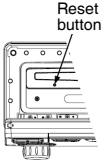6. Press the [**DISPLAY**] button to perform search.

About title display

This unit supports the display of title information transmitted from a connected iPod.

- Character code information is UTF-8; displayable characters include English alphanumerics, some symbols, and some umlaut characters.
- Unsupported characters will be replaced by asterisks (*).

6. TROUBLE SHOOTING

GENERAL

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

DISC Player

Problem	Cause	Measure
Disc cannot be loaded.	Another disc is already loaded.	Eject the disc before loading the new one.
	There is an object install installed the unit.	Remove the object inside the unit.
Sound skips or is noisy.	Compact disc is dirty.	Clean the compact disc with a soft cloth.
	Compact disc is heavily scratched or warped.	Replace with a compact disc with no scratches.
Sound is bad when power is first turned on.	Condensation may form on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with power on.

USB Devices

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

7· ERROR DISPLAYS

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

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

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

8· SPECIFICATIONS

FM Tuner

Frequency Range:
    USA: 87.9 MHz to 107.9 MHz
    Europe: 87.5 MHz to 108.0 MHz
    Others: 87.5 MHz to 108.0 MHz
Usable Sensitivity: 8 dBµV
Alternate Channel Selectivity: 60 dB
Stereo Separation (1 kHz): 30 dB
Frequency Response (±3 dB):
    30 Hz to 15 kHz

AM Tuner

Frequency Range:
    USA: 530 kHz to 1710 kHz
    Europe: 531 kHz to 1602 kHz
    Others: 531 kHz to 1629 kHz
Usable Sensitivity: 28 dBµV

CD Player

System: Compact disc digital audio system
Usable Discs: Compact disc
Frequency Response (±1 dB):
    20 Hz to 20 kHz
Signal/Noise ratio: 80 dB
Harmonic Distortion: 0.03%

Audio

Maximum Power Output:
    180 W (45 W × 4 ch)
Bass Control Action (100 Hz):
    +14 dB, −14 dB
Treble Control Action (10 kHz):
    +12 dB, −12 dB
Line Output Level (CD 1 kHz): 2 V

General

Power Supply Voltage:
    14.4 V DC (10.8 to 15.6 V allowable),
    negative ground
Fuse : 15A
Speaker Impedance:
    4 Ω (4 Ω to 8 Ω allowable)
Weight / Source unit: 4.56 lb. (2.07 kg)
Dimensions / Source unit:
    7-1/8" (Width) × 2" (Height) × 6-5/8"
    (Depth)
    [180.4 (W) × 51.2 (H) × 168 (D) mm]
Escutcheon section:
    7-25/32" (Width) × 3-19/32" (Height) ×
    1-27/32" (Depth)
    [198 (W) × 91 (H) × 46.8 (D) mm]

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

Power Output:
19W RMS x 4 Channels at 4 and
1% THD+N

Signal to Noise Ratio:
80 dBA (reference: 1 W into 4 Ω)

Amplifier Power Standard
CEA
CEA-2006 Compliant

$C\,E$

English:

Declaration of conformity

We Clarion declares that this model CMD7 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 CMD7 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

Español:

Declaración de conformidad

Clarion declara que este modelo CMD7 cumple con los requisitos esenciales y otras disposiciones aplicables descritos en la Directiva 1999/5/CE.

Italiano:

Dichiarazione di conformità

Clarion dichiara che il presente modello CMD7 è conforme ai requisiti essenziali e alle altre disposizioni pertinenti stabiliti dalla direttiva 1999/5/CE.

Clarion Co., Ltd.