

Owner's manual
Mode d'emploi
Bedienungsanleitung
Istruzioni per l'uso
Gebruiksaanwijzing
Manual de instrucciones
Bruksanvisning
Manual de instruções

DB568RUSB

CD/USB/MP3/WMA RECEIVER
RECEPTEUR CD/USB/MP3/WMA
CD/USB/MP3/WMA RECEIVER
RICEVITORE CD/USB/MP3/WMA
CD/USB/MP3/WMA ONTVANGER
RECEPTOR PARA CD/USB/MP3/WMA
CD/USB/MP3/WMA MOTTAGARE
RECEPTOR PARA CD/USB/MP3/WMA

Thank you for purchasing this Clarion product.

- * Please read this owner's manual in its entirety before operating this equipment.
- * After reading this manual, be sure to keep it in a handy place (e.g., glove compartment).
- * Check the contents of the enclosed warranty card and keep it carefully with this manual.











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!

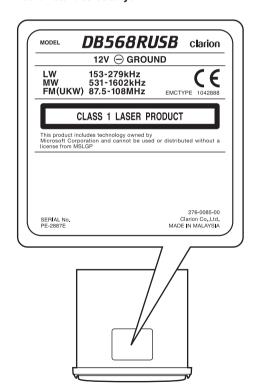
Indvendigt i apparatet er anbragt den her gengivne advarselsmækning, som advarer imod at foretage sådanne indgreb i apparatet, at man kan komme til at udsaætte sig for laserstråling.

OBS!

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

VAROITUS

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



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1. PRECAUTIONS

- During extreme cold temperatures, condensation may form on the disc and/or the optical part of the player. If the disc exhibits condensation, carefully wipe off the disc with a soft cloth. In the event the disc still does not play properly, eject the disc and allow the condensation to disappear naturally from the optical parts of the player. Radio, Auxiliary and USB functions can still be used during this time which may take up to an hour.
- Driving on extremely bumpy roads may cause the CD to skip.
- This unit is applicable for on-road 4 wheel vehicle purpose only. Use for tractor, fork truck, bulldozer, off road vehicle, 2 or 3 wheel motor bicycle, marine boat or other special purpose vehicle is not appropriate.

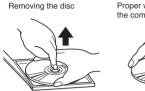
INFORMATION FOR USERS:

CHANGES OR MODIFICATIONS TO THIS PRODUCT NOT APPROVED BY THE MANUFACTURER WILL VOID THE WARRANTY.

Handling Compact Discs

This unit has been designed specifically for play-back of compact discs bearing the discs mark. No other discs can be played.

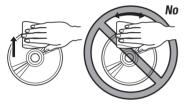
To remove the compact disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.



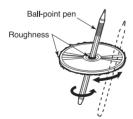


Always handle the compact disc by the edges. Never touch the surface

To remove fingermarks and dust, use a soft cloth, and wipe in a straight line from the center of the compact disc to the circumference.



New discs may have some roughness around the edges. The unit may not work or the sound may skip if such discs are used. Use a ball-point pen, etc. to remove roughness from the edge of the disc.



Note on compact discs

Never stick labels on the surface of the compact disc or mark the surface with a pencil or pen.



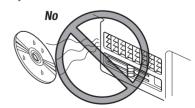
Do not use any solvents such as commercially available cleaners, anti-static spray, or thinner to clean compact discs.



Do not use compact discs that have large scratches, are misshapen, or cracked, etc. Use of such discs will cause misoperation or damage.



Do not expose compact discs to direct sunlight or any heat source.



Note:

Do not use commercially available CD protection sheets or discs equipped with stabilizers, etc. These
may get caught in the internal mechanism and damage the disc.

Be sure to unfold and read the next page. / Veuillez déplier et vous référer à la page suivante.

Bitte ausbreiten und die nächste Seite lesen. / Assicurarsi di aprire e leggere la pagina successiva.

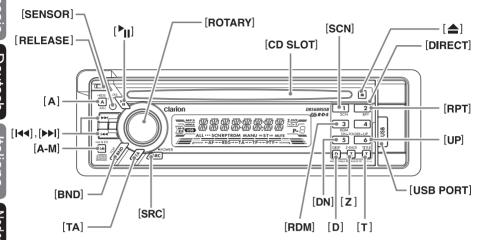
Volgende pagina uitvouwen en doorlezen a.u.b. / Cerciórese de desplegar y de leer la página siguiente.

Glöm inte att vika ut och läsa nästa sida. / Não deixe de abrir e ler a próxima página.



2. CONTROLS / LES COMMANDES / REGLER / CONTROLLI REGELAARS / CONTROLES / KONTROLLER / CONTROLOS

MAIN UNIT / APPAREIL PRINCIPAL / HAUPTGERÄT / APPARECCHIO PRINCIPALE / HOOFDTOESTEL / UNIDAD PRINCIPAL / HUVUDENHET / UNIDADE PRINCIPAL



Note: Be sure to unfold this page and refer to the front diagrams as you read each chapter.

Remarque: Veuillez déplier cette page et vous référer aux schémas quand vous lisez chaque chapitre.

Hinweis: Bitte diese Seite ausfalten und beim Lesen der einzelnen Kapital die Frontdiagramme beachten. Nota: Assicurarsi di aprire questa pagina e fare riferimento a questi diagrammi quando si legge ciascun capitolo.

nota. Assicularsi ui aprire questa pagnia e fare frieriniento a questi uiagrannin quanto si legge ciascun capitolo.

Opmerking: Vouw deze pagina uit en zie tevens de afbeeldingen van het voorpaneel tijdens het doorlezen van de volgende hoofdstukken.

Nota: Cuando lea los capítulos, despliegue esta página y consulte los diagramas.

Observera: Vik ut denna sida för att kunna se figurerna över bilstereons framsida medan du läser de olika kapitlen.

Nota: Certifique-se de abrir esta página e consulte os diagramas frontais conforme realiza a leitura de cada capítulo.

3. NOMENCLATURE

Note:

• Be sure to read this chapter referring to the front diagrams of chapter "2. CONTROLS" on page 5 (unfold).

Names of the Buttons and Their Functions

[RELEASE] button

 Press the [RELEASE] button to unlock the detachable panel.

[A] button

- Press the button to switch to the ADJ mode.
- Press and hold the button for 1 second or longer to enter RDS ADJ mode.

[I◀◀,▶▶I] buttons

- Select a station while in the Radio mode or select a track when listening to a CD/USB. These buttons are used to make various settings.
- Press and hold the button for 1 second or longer to enter the fast-forward or fast-backward in CD/USB mode.

[A-M] button

- Press the button to switch to the Audio mode (Bass, Treble, Balance, Fader).
- Press and hold for 1 second or longer to turn on or off the M-B EX mode.

[BND] button

- Switch the band, seek tuning or manual tuning while in the Radio mode.
- Play the first track while in the CD/MP3/WMA or USB mode.

[TA] button

 Use the button to set the TA (Traffic Announcement) standby mode.

[SRC] button

- Press the button to turn on the power.
 Press and hold the button for 1 second or longer to turn off the power.
- Switch the Operation mode among the Radio mode, etc.

[D] button

- During Radio/CD mode, switch the display indication (Main display, Clock display).
- During MP3/WMA/USB mode, switch the display indication in the following order:

Track No./Play time → Folder No./Track No. → Title Display → Clock Display → Track No./ Play time...

[Z] button

 Press the button to select one of the 3 types of sound characteristics already stored in memory.

[T] button

- Press the button to switch the track titles, while in the MP3/WMA/LISB mode
- Press and hold the button for 1 second or longer to scroll the title during title display, while in the MP3/WMA or USB mode.

[UP]. [DN] buttons

- Select the Folder (MP3/WMA disc or USB drive).
- Press the button to select CD-DA or MP3/WMA on a multi-session disc.

[RDM] button

- Perform random play while in the CD/MP3/WMA or USB mode.
- Press and hold the button for 1 second or longer to perform folder random play while in the MP3/ WMA or USB mode.

[SCN] button

- Perform scan play for 10 seconds of each track while in the CD/MP3/WMA or USB mode.
- Press and hold the button for 1 second or longer to perform folder scan play while in the MP3/WMA or USB mode.

[RPT] button

- Repeat play while in the CD/MP3/WMA or USB mode.
- Press and hold the button for 1 second or longer to perform folder repeat play while in the MP3/ WMA or USB mode.

[DIRECT] buttons

 Store a station into memory or recall it directly while in the Radio mode.

[USB PORT]

· USB drive insertion port.

Names of the Buttons and Their Functions

[📤] button

• Eject a CD when it is loaded in the unit.

[CD SLOT]

· CD insertion slot.

[SENSOR]

- · Receiver for remote control unit.
- Operating range: 30° in all directions.

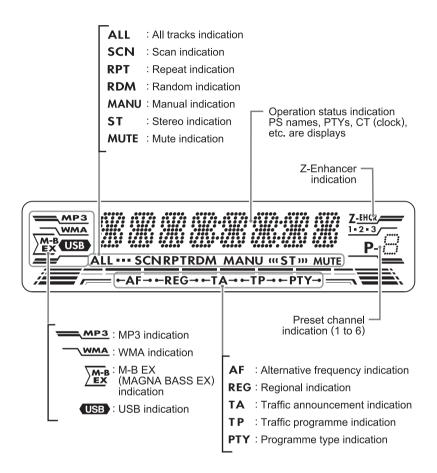
[II] button

- Perform preset scan while in the Radio mode.
 Press and hold the button for 2 seconds or longer to perform auto store.
- Play or pause a track while in the CD/MP3/WMA or USB mode.

[ROTARY] knob

- Adjust the volume by turning the knob clockwise or counterclockwise.
- Use the knob to perform various settings.

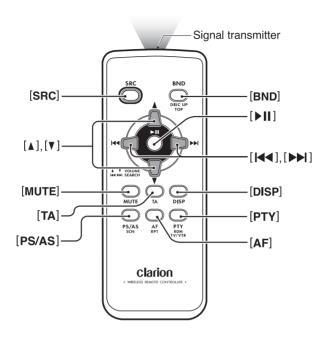
Display Items



LCD Screen

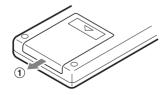
In extreme cold, the screen movement may slow down and the screen may darken, but this is normal. The screen will recover when it returns to normal temperature.

4. REMOTE CONTROL



Inserting the Battery

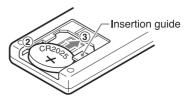
- Turn over the remote control unit and slide the cover in the direction indicated by the arrow in the illustration
- Insert the battery (CR2025) into the insertion guides, with the printed side (+) facing upwards
- Press the battery in the direction indicated by the arrow so that it slides into the compartment
- Replace the cover and slide in until it clicks into place.



Notes:

Misuse may result in rupture of the battery, producing leakage of fluid and resulting in personal injury or damage to surrounding materials. Always follow these safety precautions:

- Use only the designated battery.
- When replacing the battery, insert properly, with +/- polarities oriented correctly.
- Do not subject battery to heat, or dispose of in fire or water. Do not attempt to disassemble the battery.
- Dispose of used batteries properly.



Functions of Remote Control Unit Buttons

Button Mode	Radio (RDS)	CD	MP3/WMA and USB
[SRC]	Switch between Radio, CD/MP3/WMA, USB and AUX.		
[BND]	Switch reception band.	Play the first track. Top play.	
[▲],[▼]	Increase and decrease volun	ne (in all modes).	
[◀◀],[▶▶]	Move preset channels up and down. Move tracks up and down. Press and hold the button for 1 second or longer: Fast-forward/fast-backward.		r 1 second or longer: Fast-
[> II]	Turn mute on and off	Switch between playback on	d nauga
[MUTE]	Turn mute on and off. Switch between playback ar		u pause.
[TA]	TA on and off.		
[DISP]	Switch among main display and clock display.		Switch among main display, title display and clock display.
[PS/AS]	Preset scan. Press and hold the button for 2 seconds or longer: Auto store. Scan play. Press and hold the button for 1 second or longer to perform folder scan play while in the MP3/WMA or USB mode.		
[AF]	AF function on and off. When pressed and held for 1 second or longer: REG function on and off.	ressed and held for or longer: REG perform folder repeat play while in the MP3/WMA or USB	
[PTY]	PTY mode on and off.	Random play. Press and hold the button for 1 second or longer to perform folder random play while in the MP3/WMA or USB mode.	

^{*} Some of the corresponding buttons on the main unit and remote control unit have different functions.

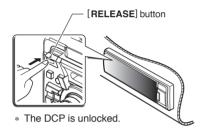
5. DCP

The control panel can be detached to prevent theft. When detaching the control panel, store it in the DCP (Detachable Control Panel) case to prevent scratches.

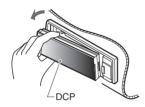
We recommend taking the DCP with you when leaving the car.

Removing the DCP

- Press the [SRC] button for 1 second or longer to switch off the power.
- 2. Press in the [RELEASE] button.

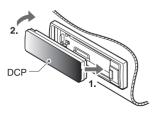


3. Pull the DCP towards you and remove it.



Attaching the DCP

- Insert the right side of the DCP into the main unit.
- Insert the left side of the DCP to attach into the main unit.



Storing the DCP in the DCP case

Hold the DCP, in the orientation as shown in the figure below, and put it into the supplied DCP case. (Ensure the DCP is in the correct orientation.)

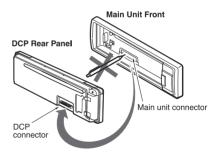


A CAUTION

- The DCP can easily be damaged by impact.
 After removing it, be careful not to drop it or subject it to strong shocks.
- If the FLIP DOWN PANEL is kept open, the DCP may drop due to vibration of the car.

This may result in damage to the DCP. So close the FLIP DOWN PANEL or remove the DCP and store in the case.

 The connector connecting the main unit and the DCP is an extremely important part. Be careful not to damage it by pressing on it with fingernails, pens, screwdrivers, etc.



Note:

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

6. OPERATIONS

Basic Operations

Note: Be sure to read this chapter referring to the front diagrams of chapter "2. CONTROLS" on page 5 (unfold).

A CAUTION

Be sure to lower the volume before switching off the unit power or the ignition key. The unit remembers its last volume setting. If you switch the power off with the volume up, when you switch the power back on, the sudden loud volume may hurt your hearing and damage the unit.

Turning on/off the power

Note:

- Be careful about using this unit for a long time without running the engine. If you drain the car's battery too much, you may not be able to start the engine and this can reduce the service life of the battery.
- 1. Press the [SRC] button.
- The illumination and display on the unit light up. The unit automatically remembers its last Operation mode and will automatically switch to display that mode.
- 3. Press and hold the [SRC] button for 1 second or longer to turn off the power for the unit.

Selecting a mode

- Press the [SRC] button to change the Operation mode.
- Each time you press the [SRC] button, the Operation mode changes in the following order:
 Radio mode → CD/MP3/WMA mode →
 (USB mode) → AUX mode → Radio

Notes:

mode...

- If the CD mode is selected when no disc is inserted, the display shows "NO DISC".
- If no USB drive is inserted, USB mode will not be displayed.

Switching the display

Press the [**D**] button to select the desired display. Each time you press the [**D**] button, the display switches in the following order:

Radio/CD Mode:

Main display → Clock display → Main display

MP3/WMA/USB Mode:

Main-1 display (Track No., play time) → Main-2 Display (Folder No., Track No.) → Title Display → Clock Display → Main-1 Display...

* Once selected, the preferred display becomes the display default. When a function adjustment such as volume is made, the screen will momentarily switch to that function's display, then revert back to the preferred display several seconds after the adjustment.

Adjusting the volume

Turning the [ROTARY] knob clockwise increases the volume; turning it counterclockwise decreases the volume.

The volume level is from 0 (minimum) to 33 (maximum).

Audio mode adjustments

 Press the [A-M] button to select the Adjustment mode. The mode switches as follows each time the [A-M] button is pressed:

BASS → TREB → BAL → FAD → Previous mode

Turning the [ROTARY] knob to adjust the selected Audio mode.

BASS (Bass): Adjustment range: -7 to +7
TREB (Treble): Adjustment range: -7 to +7
BAL (Balance): Adjustment range: L13 to R13
FAD (Fader): Adjustment range: F12 to R12

* The display returns to the previous mode 7 seconds after the adjustment.

Note:

 Bass and Treble can only be adjusted when the "Z-Enhancer" is off.

Setting the Z-Enhancer

This unit is provided with 3 types of sound tone effects stored in memory. Select the one you prefer.

* The factory default setting is "Z-EHCR OFF".

Each time you press the [Z] button, the tone effect changes in the following order:

"Z-EHCR OFF" → "Z-EHCR 1" → "Z-EHCR 2" "Z-EHCR 3" → "Z-EHCR OFF" ...

Z-EHCR 1 : bass emphasizedZ-EHCR 2 : treble emphasized

• Z-EHCR 3 : bass and treble emphasized

· Z-EHCR OFF: no sound effect

Adjusting the balance

- 1. Press the [A-M] button and select "BAL 0".
- Turning the [ROTARY] knob clockwise emphasizes the sound from the right speaker; turning it counterclockwise emphasizes the sound from the left speaker.
 - The factory default setting is "BAL 0".
 (Adjustment range: L13 to R13)
- When the adjustment is complete, press the [A-M] button several times until the Function mode is reached

Adjusting the fader

- 1. Press the [A-M] button and select "FAD 0".
- Turning the [ROTARY] knob clockwise emphasizes the sound from the front speakers; turning it counterclockwise emphasizes the sound from the rear speakers.
 - The factory default setting is "FAD 0".
 (Adjustment range: F12 to R12)
- When the adjustment is complete, press the [A-M] button several times until the Function mode is reached.

Adjusting MAGNA BASS EX

The MAGNA BASS EX does not adjust the low sound area like the normal sound adjustment function, but emphasizes the deep bass sound area to provide you with a dynamic sound.

- * The factory default setting is off.
- Press and hold the [A-M] button for 1 second or longer to turn on the MAGNA BASS EX effect. "M-B EX" lights in the display.
- Press and hold the [A-M] button for 1 second or longer to turn off the MAGNA BASS EX effect. "M-B EX" goes off from the display.

CT (Clock Time) function

The CT function receives CT data sent from an RDS station and displays the time. Press the [D] button to switch to the CT display.

* If a CT data is not being received, "CT--:--" appears in the display.

Note:

 CT data is not transmitted in some countries and by some broadcast stations. Also, in some areas, the CT may not display accurately.

AUX function

This system has external input jacks so you can listen to sounds and music from external devices connected to this unit

 Press the [SRC] button and select the AUX mode to activate the AUX function.

Radio Mode Operations

Listening to the radio

- Press the [SRC] button and select the Radio mode, then the radio will be on.
- To select a preset band, press the [BND] button, then select one of the preset bands such as FM1, FM2, FM3 or AM (MW/LW). Every time the [BND] button is pressed, the display will change as:
 - $FM1 \rightarrow FM2 \rightarrow FM3 \rightarrow AM (MW/LW) \rightarrow FM1...$
- Press the [I◄◀, ▶►I] button to tune in the desired station.

Seek tuning

There are 2 types of seek tuning: DX SEEK and LOCAL SEEK

DX SEEK can automatically tune in to receivable broadcast stations; LOCAL SEEK can tune in to only broadcast stations with a good reception sensitivity.

- Press the [BND] button and select the desired band (FM or AM (MW/LW)).
 - * If "MANU" is lit in the display, press and hold the [BND] button for 1 second or longer.
 - "MANU" in the display goes off and seek tuning is now available.
 - If "TA" is lit in the display, TP stations are automatically sought.
- Press the [I◄, ▶I] button to start automatic station tuning.

DX SEEK

When the [▶▶1] button is pressed, search will be performing in the direction of higher frequencies. When the [I◄◄] button is pressed, search will be performed in the direction of lower frequencies.

* When seek tuning starts, "DX" appears in the display.

LOCAL SEEK

If the button is pressed and held in position for 1 second or longer, local seek tuning will be enabled. Broadcast stations with good reception sensitivity are selected.

 When local seeking starts, "LO" appears in the display.

Manual tuning

There are 2 ways available: Quick tuning and step tuning.

When you are in the step Tuning mode, the frequency changes one step at a time. In the quick Tuning mode, you can quickly tune the desired frequency.

- Press the [BND] button and select the desired band (FM or AM (MW/LW)).
 - * If "MANU" is not lit in the display, press and hold the [BND] button for 1 second or longer.
 - "MANU" is lit in the display and manual tuning is now available.
- 2. Tune into a station.

• Quick tuning:

Press and hold the [I◄◄, ▶▶I] button for 1 second or longer to begin station tuning.

Step tuning:

Press the $[I \blacktriangleleft , \triangleright \triangleright I]$ button to perform manual tuning.

* If no operation is performed for more than 7 seconds, manual tuning is cancelled and the display returns to the previous mode.

Preset memory function

Preset memory function can store up to 24 stations:

Six stations for each of FM1, FM2, FM3 and AM (MW/LW).

Manual memory function

- Press the [BND] button, to select a band you want to store in the memory.
- Press the [I◄◄,▶►I] button to tune into a desired station
- Press and hold one of the [DIRECT] buttons for 2 seconds or longer to store the current station into preset memory.

Radio Mode Operations

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 un-overwritten at the memory position.

- Press the [BND] button and select the desired band (FM or AM (MW/LW)).
- Press and hold the [] button for 2 seconds or longer. 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 [▶¡] button.
- When a desired station is tuned in, press the [►_{II}] button again to continue receiving that station.

Note:

 Be careful not to press and hold the [> II] button for 2 seconds or longer, otherwise the auto store function is engaged and the unit starts storing stations.

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. Pressing the corresponding [**DIRECT**] button recalls the stored radio frequency automatically.

- Press the [BND] button and select the desired band (FM or AM (MW/LW)).
- Press the corresponding [DIRECT] button to recall the stored station.
 - * Press and hold one of the [DIRECT] buttons for 2 seconds or longer to store that station into preset memory.

RDS Operations

RDS (Radio Data System)

This unit has a built-in RDS decoder system that supports broadcast stations transmitting RDS data.

This system can display the name of the broadcast station being received (PS) and can automatically switch to the broadcast station with the best reception as you move long distances (AF switching).

Also, if a traffic announcement or programme type is broadcast from an RDS station, no matter what mode you are in, this broadcast is received. Additionally, if EON information is received, this information enables automatic switching of other preset stations on the same network and interruption of the station being received with traffic information from other stations (TP). This function is not available in some areas.

When using the RDS function, always set the radio to FM mode.

AF : Alternative Frequency

• PS : Programme Service Name

• PTY : Programme Type

• EON : Enhanced Other Network

• TP : Traffic Programme

- * RDS interrupt does not function during AM radio reception.
- When set receives RDS signal, and can read PS data, PS appears in the display.

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".
- Press and hold the [A] button for 1 second or longer to switch to the RDS adjustment selection display.
- 2. Press the [I◀◀, ▶▶I] button to select "AF".
- Turn the [ROTARY] knob to select "ON" or "OFF".

ON:

"AF" in the display lights and AF function turns on.

• OFF

"AF" in the display goes off and AF function turns off.

RDS Operations

- Press the [A] button to return to the previous mode.
 - * If the reception of the current broadcast station deteriorates, "PI SEARCH" appears in the display and the radio searches for the same programme on another frequency.

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 "OFF".

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.
- Press and hold the [A] button for 1 second or longer to switch to the RDS adjustment selection display.
- Press the [I◄◄,▶►I] button to select "REG".
- Turn the [ROTARY] knob to select "ON" or "OFF".

• ON:

"REG" in the display lights and REG function turns on

• OFF:

"REG" in the display goes off and REG function turns off.

Press the [A] button to return to the previous mode.

Manually tuning a regional station in the same network

 This function is valid when the AF function is ON and the BEG function is OFF

Note:

- This function can be used when a regional broadcast of the same network is received.
- Press any one of the [DIRECT] buttons to call out the regional station.
- If the reception condition of the called out station is bad, press the [DIRECT] button of the same number. The unit receives a local station on the same network.

TA (Traffic Announcement)

In the TA standby mode, when a traffic announcement broadcast starts, the traffic announcement broadcast is received as top priority regardless of the function mode so you can listen to it. Traffic programme (TP) automatic tuning is also possible

* This function can only be used when "TP" is lit in the display. When "TP" is lit, this means that the RDS broadcast station being received has traffic announcement programmes.

Setting the TA standby mode

If you press the [TA] button when only "TP" is lit in the display, "TP" and "TA" light 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, "TRA INFO" appears in the display. If you press 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 "TP" and "TA" lit in the display, press the [TA] button. The "TA" in the display goes off and the TA standby mode is cancelled.

 If "TP" is not lit, pressing the [TA] button searches for a TP station.

Searching for a TP station

When "TP" is not lit, if you press the [TA] button, "TA" in the display lights and the unit automatically receives a TP station.

Note:

 If a TP station is not received, the unit continues the search operation. Pressing [TA] button again goes off "TA" in the display and stops TP station searching.

Auto store function for TP stations

You can automatically store up to 6 TP stations into preset memory. If the number of TP can be received less than 6, broadcast stations already stored in memory and left without being overwritten.

RDS Operations

As "TA" lit in the display, press and hold the [III] button for 2 seconds or longer. The TP stations with the good reception sensitivity are stored into preset memory.

* Even if you select FM1 or FM2, a TP station is stored into memory for FM3.

RDS MODE adjustment

Press and hold the [A] button for 1 second or longer to select the RDS MODE.

The mode switches as follows each time the [I◀♠,▶▶I] button is pressed:

PTY ON \longleftrightarrow PTY-S<E>*1 \longleftrightarrow AF ON \longleftrightarrow REG ON*2 \longleftrightarrow PTY ON

Press [A] button to exit RDS MODE.

Notes:

- *1 "PTY-S<E>" only available when "PTY ON".
- *2 "REG ON" only available when "AF ON".

PTY

This function enables you to listen to a broadcast of the selected programme type even if the unit is on a Function mode other than radio.

- * Some countries do not vet have PTY broadcast.
- * In the TA standby mode, a TP station has priority over a PTY broadcast station.
- * The factory default setting is "OFF".
- Press and hold the [A] button for 1 second or longer to switch to the RDS adjustment selection display.
- 2. Press the [I◀◀,▶▶I] button to select "PTY".
- Turn the [ROTARY] knob to select "ON" or "OFF"

• ON:

"PTY" in the display lights and PTY standby mode is turned on. When the selected PTY broadcast starts, the PTY item name appears in the display.

• OFF:

"PTY" in the display goes off and PTY standby mode is cancelled.

 Press the [A] button to return to the previous mode.

Cancelling a PTY interrupt broadcast

Press the [TA] button during the PTY interrupt broadcast, the PTY interrupt is cancelled and the unit returns to PTY standby mode.

Selecting PTY

- Press and hold the [A] button for 1 second or longer to switch to the RDS adjustment selection display.
- Press the [I◀◀,▶►I] button to select "PTY-S ✓F>"
- 3. Press the [▶¡¡] button.
- 4. Press any one of the [DIRECT] buttons.

Alternatively, turn the [ROTARY] knob to select the desired PTY.

- Press the [A] button to return to the previous mode.
 - Below are the factory default settings stored for the [DIRECT] buttons.

Preset	PTY item	
number	ENGLISH	Contents
1	News	News
2	Info	Information
3	Pop M	Pop Music
4	Sport	Sport
5	Classics	Serious Classical Music
6	Easy M	Easy Listening Music

* The PTY select mode is cancelled automatically 7 seconds after a PTY is selected.

PTY seek

- Press and hold the [A] button for 1 second or longer to switch to the RDS adjustment selection display.
- Press the [I◄◄,▶►I] button to select "PTY-SEL <E>".
- 3. Press the [button.
- Press the [▶▶] button to search for a PTY broadcast in the direction of higher frequencies; press the [I◄◄] button to search in the direction of lower frequencies.
 - If no station with the selected PTY broadcast can be received, the unit returns to the previous receiving station.

RDS Operations

PTY preset memory

- Press and hold the [A] button for 1 second or longer to switch to the RDS adjustment selection display.
- Press the [I◀◀,▶▶I] button to select "PTY-SEL <F>"
- 3. Press the [▶¡¡] button.
- Turning the [ROTARY] knob to select the desired PTY

The 29 types of PTY below can be selected.

 If you press and hold any one of the [DIRECT] buttons for 2 seconds or longer, the selected PTY is stored into that preset channel memory.

PTY item		
ENGLISH	Contents	
News	News	
Affairs	Today's events	
Info	Information	
Sport	Sports	
Educate	Education	
Drama	Drama	
Culture	Culture	
Science	Science	
Varied	Variety	
Pop M	Pop music	
Rock M	Rock music	
Easy M	Easy music	
Light M	Light music	
Classics	Classics	
Other M	Other music	
Weather	Weather	
Finance	Finance	
Children	For children	
Social	Social	
Religion	Religion	
Phone In	Phone in	
Travel	Travel	
Leisure	Leisure	
Jazz	Jazz	
Country	Country	
Nation M	Nation music	
Oldies	Oldies	
Folk M	Folk music	
Document	Documentaries	

Emergency broadcast

If an emergency broadcast is received, all the function mode operations are stopped.

"ALARM" appears in the display and the emergency broadcast can be heard.

Cancelling an emergency broadcast

If you press the [TA] button, emergency broadcast reception is cancelled.

Volume setting of TA, emergency broadcast (ALARM) and PTY

The volume for TA, ALARM and PTY interrupts can be set during TA, ALARM or PTY interrupt.

* The factory default setting is "19".

During a TA, ALARM or PTY interrupt, turn the [ROTARY] knob to set the volume to the desired level (0 to 33).

* When the TA, ALARM or PTY interrupt ends, the volume returns to the level it had before the interrupt.

CD/MP3/WMA Mode Operations

What is MP3?

MP3 is an audio compression method and classified into audio layer 3 of MPEG standards. This audio compression method has penetrated into PC users and become a standard format. This MP3 features the original audio data compression to about 12 percent of its initial size with a high quality sound. This means that about 10 music CDs can be recorded on a CD-R disc or CD-RW disc to allow a long listening time without having to change CDs.

What is WMA?

WMA is the abbreviation of Windows Media Audio, an audio file format developed by Microsoft Corporation.

Notes:

- If you play a file with DRM (Digital Rights Management) for WMA remaining ON, no audio is output.
- Windows Media[™], and the Windows[®] logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

To disable DRM (Digital Rights Management):

- When using Windows Media Player 8, click on TOOLS → OPTIONS → COPY MUSIC tab, then under COPY SETTINGS unclick the check box for PROTECT CONTENT. Then, reconstruct files.
- When using Windows Media Player 9, click on TOOL → OPTIONS → MUSIC RECORD tab, then under Recording settings, unclick the check box for RECORD PROTECTED MUSIC. Then, reconstruct files. Personally constructed WMA files are used at your own responsibility.
- When using Windows Media Player 10, click on TOOL → OPTIONS → RIP MUSIC tab, then under Rip settings, unclick the check box for COPY PROTECT MUSIC. Then, reconstruct files. Personally constructed WMA files are used at your own responsibility.

Precautions when creating MP3/WMA disc

Please refer to the usable sampling rates and bit rates of chapter "9. **SPECIFICATIONS**" on page 29.

File extensions

 Always add a file extension ".MP3" or ".WMA" to MP3 or 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.

Logical format (File system)

- When writing MP3/WMA file on a CD-R disc or CD-RW disc, please select "ISO9660 level 1, 2 or JOLIET or Romeo" as the writing software format. Normal play may not be possible if the disc is recorded on another format.
- The folder name and file name can be displayed as the title during MP3/WMA play but the title must be within 28 single byte alphabetical letters and numerals (including an extension).
- 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

Up to 255 files can be recognized per folder.
 Up to 255 files can be played.

Note:

- The company will not guarantee any unexpected result caused by exceeding the files limitation.
- Tracks are played in the order that they were recorded onto a disc. (Tracks might not always be played in the order displayed on the PC.)
- Some noise may occur depending on the type of encoder software used while recording.

CD-DA/MP3/WMA selection on multi-session CD

 If a multi-session CD which contains CD-DA and MP3/WMA files is being inserted, user can select either CD-DA or MP3/WMA files to be played.

Note:

- CD-DA files will always be the first to be played while MP3/WMA files will be playing subsequently.
- Press the [UP] button will move to the next folder and MP3/WMA files to be played. Press the [DN] button at the time will return to CD-DA playing files.

CD/MP3/WMA Mode Operations

Disc-In-Play function

As long as the ignition key is turned to the ON or ACC position, this function allows you to turn the power to the unit and start playing the disc automatically when the disc is inserted even if the power is not turned on.

A 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.

Backup eject function

Just pressing the [\triangle] button ejects the disc even if the power to the unit was not turned on. Remove the disc after it is ejected.

Notes:

- If you force a CD into before auto reloading, this can damage the CD.
- If a CD (12 cm) is left in the ejected position for 15 seconds, the CD is automatically reloaded. (Auto reload).
- 8 cm CDs are not auto reloaded. Be sure to remove it when ejected.

Listening to a disc already loaded in the unit

Press the [SRC] button to select the CD/MP3/WMA mode.

When the unit enters the CD/MP3/WMA mode, play starts automatically.

If there is no disc loaded, the indication "NO DISC" appears in the title display.

Radio \rightarrow CD/MP3/WMA \rightarrow (USB) \rightarrow AUX \rightarrow Radio...

Loading a CD

Insert a CD into the center of the CD SLOT with the labeled side facing up. "LOADING" appears in the display, 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 not bearing the mark and CD-ROMs cannot be played by this unit.
- Some CDs recorded in CD-R/CD-RW mode may not be usable.

Loading 8 cm compact discs

- * No adapter is required to play an 8 cm CD.
- Insert the 8 cm CD into the center of the insertion slot.

For CD/MP3/WMA playback, please refer to "Operations Common to CD and USB Drive".

USB Mode Operation

What is USB?

USB is the abbreviation of Universal Serial Bus, an external bus standard that supports data transfer rates of 12Mbps. The main unit is USB 2.0 compatible. (It is compliant with Universal Serial Bus Revision 1.1 specification, which is Full Speed supported but not running at High-Speed). This means that the transfer rates only supports until 12Mbps, which is the maximum speed of USB1.1. USB also support hot plugging, which is the ability to add and remove devices to a main unit while the unit is running and automatically recognize the change.

Supported audio files playback

Only MP3 and WMA files are currently supported. For further information on MP3/WMA playback, please refer to "Operations Common To CD and USB Drive"

Hot plugging function

When the unit is powered on, this function allows you to start playing the tracks automatically when the USB drive is inserted.

A CAUTION

- Do not try to put your hand or fingers in the USB insertion port. Also never insert foreign objects into the port.
- Do not insert USB devices other than "USB mass storage class" as this will have no function to the main unit or device and may have unexpected result.
- The main unit cannot be connected with the personal computer or laptop.
- USB drive that contains WMA files with DRM protected will not be read by the main unit.
- Reading time for a USB drive may differ depends on the contents of the data.
- USB drive insertion may result in protruding as it might be dangerous to the user while driving. For safety purposes, it is advisable to use an USB extension cable to connect between the USB drive and the USB port on the main unit.

- USB drives may have different shape depends on brands. Some USB drives may not be able to plug into the port due to the shape design. Please use an extension cable instead.
- The company will not guarantee that every USB drive brands will be able to work with the main unit.
- Please remove your USB drive while you are not inside your vehicle because USB drive may not have automotive specification and it will be damaged by overheating environment.
- Electrostatic may result data loss in the USB drive.
- The company will not responsible for any data loss when using the USB drive with the main unit. Please backup your data before proceeding.
- Please make sure that the total supported files limitation in the USB drive, which are 255 files. The company will not guarantee any unexpected result caused by exceeding the files limitation.

Listening to a track with USB drive already plug into the unit

Press the [SRC] button to select the USB mode.

When the unit enters the USB mode, track will start to play automatically.

If there is no USB drive inserted, USB mode will not be shown for selection.

* The mode changes each time the [SRC] button is pressed.

Radio \rightarrow CD/MP3/WMA \rightarrow (USB) \rightarrow AUX \rightarrow Radio...

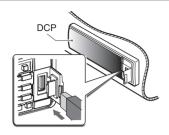
Plugging in a USB drive

Plug the USB drive into the port with the correct direction.

Note:

 Do not forcibly plug the USB drive to the port with incorrect direction as this will damage the USB drive as well as the USB port.

USB Mode Operation



Unplug the USB drive

Just pull out the USB drive from the port during USB mode, the unit will revert to Radio mode automatically.

Operation Common to CD and USB Drive

Pausing play

- Press the [] button to pause play. "PAUSE" appears in the display.
- To resume track play, press the [] button again.

Displaying CD titles

This unit can display title data for MP3/WMA.

- 1. Press the [D] button to display the title.
- Each time you press the [T] button, the title display changes in the following order:

MP3/WMA disc

Folder → Track → Album TAG → Artist TAG → Title TAG → Folder...

Notes:

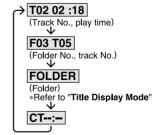
- If MP3/WMA disc is not input TAG, "NO TAG" appears in the display.
- For MP3, supports ID3 Tags V2.4/2.3/2.2/1.1/1.0.
- Tag displays give priority to V2.4/2.3/2.2.
- In the case of album Tags for WMA, the information written into the extension header is displayed.
- Only ASCII characters can be displayed in Tags.

Display selection

 You can choose the display type for MP3/WMA by pressing the [D] button.

To select the next type, press the [D] button again.

The arrangement is shown below.

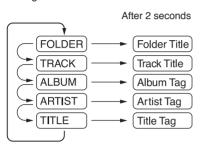


Operation Common to CD and USB Drive

Title display mode

- There are 5 types of display for the Title Display mode
- To select the next type, press the [T] button for less than 1 second.

The arrangement is shown below.



- The displayed item can be scrolled by pressing the [T] button for more than 1 second.
- If a MP3/WMA file does not support for ID3 TAG, the display will show "NO TAG"
- If a MP3/WMA file encode with ID3 TAG header but not consist of any TAG information, the display will show nothing.

Notes:

- The folder name will be displayed as "ROOT" which the file allocates in the root folder.
- The MP3 player decodes each file ID3 TAG ver 2 by default, if ID3 TAG ver 2 is unavailable, ID3 TAG ver 1 will be decoded.
- UNICODE ID3 (Chinese, Japanese and etc) is not supported.

Selecting a track

Track-up

- Press the [▶►I] button to move to the beginning of the next track.
- Each time the [▶►] button is pressed, playback proceeds to another track in the advancing direction.

Track-down

- Press the [I◄◄] button to move the beginning of the current track.
- Press the [I◄◄] button twice to move to the beginning of the previous track.

Fast-forward/fast-backward

Fast-forward

Press and hold the [▶▶I] button for 1 second or longer.

Fast-backward

Press and hold the [I◄◄] button for 1 second or longer.

- * For Audio CD mode pressing the [I◄♠,▶►] button for 1 second or longer will move forward or backward 5 times faster than normal play, and pressing it for 3 seconds or longer will do the operation 30 times faster.
- * For MP3/WMA mode pressing the [I◄◄, ▶►] button for 1 second or longer will move forward or backward 5 times faster than normal play, and pressing it for 3 seconds or longer will do the operation 10 times faster

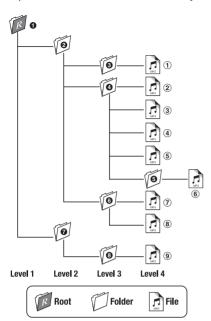
MP3/WMA playing order

When selected for playing folder up down functions, files and folders are accessed in the order in which they were written by the CD-ROM writer or USB drive. Because of this, the order in which they are expected to be played may not match the order in which they are actually played. You may be able to set the order in which MP3/WMA are to be played by writing them onto a medium such as a CD-R/USB drive with their file names beginning with play sequence numbers such as "01" to "99", depending on your CD writer.

For example, a medium with the following folder/ file hierarchy is shown below.

Operation Common to CD and USB Drive

Example of a medium's folder/file hierarchy.

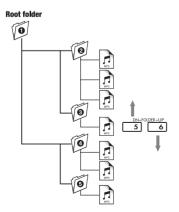


Folder Select

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 [DN] or the [UP] button.

Press the [DN] button to move the previous folder. Press the [UP] button to move the next folder.



- Press the [UP] button while in the final folder to shift to the first folder
- Folder without an MP3/WMA file is not selectable
- 2. Press the [I◀◀,▶▶I] button to select a track.

Top function

Press the [BND] button, then the CD/USB will start playing from the first song (track number 1).

Other various play functions

Scan play

CD-DA:

This function allows you to locate and play the first 10 seconds of all the tracks recorded on a disc.

MP3/WMA:

This function allows you to locate and play the first 10 seconds of all the tracks in current folder.

1. Press the [SCN] button to perform scan play.

The indication "SCN" lights in the display.

 Scan play starts from the next track after the track currently being played.

Folder scan play

MP3/WMA:

This function allows you to locate and play the first 10 seconds of the first track of all the folders on an MP3/WMA disc/USB drive.

1. Press and hold the [SCN] button for 1 second or longer to perform folder scan play.

The indications "ALL..." and "SCN" light in the display.

* Folder scan play starts from the next track after the track currently being played.

Repeat play

CD-DA, MP3/WMA:

This function allows you to play the current track repeatedly.

 Press the [RPT] button to perform repeat play.

The indication "RPT" lights in the display.

Operation Common to CD and USB Drive

Folder repeat play

MP3/WMA:

This function allows you to play all tracks in the MP3/WMA folder repeatedly.

1. Press and hold the [RPT] button for 1 second or longer to perform folder repeat play.

The indications "**ALL...**" and "**RPT**" light in the display.

Random play

CD-DA:

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

MP3/WMA:

This function allows you to play all tracks of current folder in a random order

Press the [RDM] button to perform random play.

The indication "RDM" lights in the display.

Folder random play

MP3/WMA:

This function allows you to play all the tracks of all the folders recorded on an MP3/WMA disc/ USB drive in a random order

 Press and hold the [RDM] button for 1 second or longer to perform folder random play.

The indications "**ALL...**" and "**RDM**" light in the display.

To cancel play

Press the operating button previously selected.

Operations Common to Each Mode

To change display setting

- Press the [A] button to switch to the adjustment selection display.
- Press the [I◄◄, ▶►I] button to select the "item name"

"SCRN SVR" ←> "A-SCROLL" ←>
"TEL-SW"

- 3. Turn the [ROTARY] knob to select the "desired setting value".
 - * After completing settings, press the [A] button to return to the previous mode.

Turning the screen saver function on or off

This unit is provided with the screen saver function which allows you to show various kinds of patterns and characters in the operation status indication area of the display in a random order. You can turn on and off this function.

If the button operation is performed with the screen saver function on, the operation display corresponding to the button operation is shown for about 30 seconds and the display returns to the screen saver display.

- * The factory default setting is "ON".
- 2-1. Select "SCRN SVR".
- 3-1. Turn the [ROTARY] knob to select the setting. Each time you turn the [ROTARY] knob, the setting changes in the following order:

SS OFF → SS ON.

Setting the method for title scroll

Set how to scroll in MP3/WMA title.

- * The factory default setting is "ON".
- 2-1. Select "A-SCROLL".
- 3-1. Turn the [ROTARY] knob to select "ON" or "OFF".

• ON:

To scroll automatically.

• OFF:

To scroll just 1 time when the title was changed or the [T] button was pressed for 1 second or longer.

Operations Common to Each Mode

Cellular phone interrupt setting

If you connect this unit and your cellular phone with a separately sold unit, you can listen to your telephone calls on your car speakers.

- * The factory default setting is "OFF".
- 2-1 Select "TEL-SW"
- 3-1. Turn the [ROTARY] knob to select the setting.

Each time you turn the [ROTARY] knob, the setting changes in the following order:

T-SW OFF ←→ T-SW ON

• OFF:

This unit continues normal operation even when the cellular phone is used.

Note:

 If connecting a hands-free kit, please ensure the setting is ON to receive the telephone audio through the system.

• ON:

You can listen to your telephone calls from the speakers connected to this unit.

Triggered audio mute for cellular telephones

This unit requires special wiring to mute the audio signal automatically when a cellular telephone rings in the car.

- * This function is not compatible with all cellular telephones. Contact your local authorized Clarion dealer for information on proper installation and compatibility.
- * The factory default setting is "OFF".

7. TROUBLESHOOTING

	Problem	Cause	Measure
	Power does not turn on. (No sound is produced)	Fuse is blown.	Replace with a fuse of the same amperage. If the fuse blows again, consult your store of purchase.
		Incorrect wiring.	Consult your store of purchase.
General	No sound output when operating the unit with amplifiers or power antenna attached.	Power antenna lead is shorted to ground or excessive current is required for remote-on the amplifiers or power antenna.	1. Turn the unit off. 2. Remove all wires attached to the power antenna lead. Check each wire for a possible short to ground using an ohm meter. 3. Turn the unit back on. 4. Reconnect each amplifier remote wire to the power antenna lead one by one. If the amplifiers turn off before all wires are attached, use an external relay to provide remote-on voltage (excessive current required).
	Nothing happens when button are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Turn off the power, then press the [RELEASE] button and remove the DCP. Press the reset button for about 2 seconds with a thin rod.
		DCP or main unit connectors are dirty.	Wipe the dirt off with a soft cloth moistened with cleaning alcohol.
	No sound heard.	The speaker protection circuit is operating.	Turn down sound volume. Function can also be restored by turning the power off and on again. (Speaker volume is reduced automatically when the speaker protection circuit operates). If the sound is muted again, consult our service department.

Troubleshooting

	Problem	Cause	Measure
	No sound heard.	MP3/WMA files are absent in a disc.	Write MP3/WMA files onto the disc properly.
		Files are not recognized as an MP3/WMA file.	Use MP3/WMA files encoded properly.
		File system is not correct.	Use ISO9660 level 1, 2 or JOLIET or Romeo file system.
	Sound skips or is noisy.	Disc is dirty.	Clean the disc with a soft cloth.
CD/MP3/WMA		Disc is heavily scratched or warped.	Replace with a disc with no scratches.
CD/MP	Sound is cut or skipped. Noise is generated or noise is mixed with sound.	MP3/WMA files are not encoded properly.	Use MP3/WMA files encoded properly.
	Sound is bad directly after power is turned on.	Water droplets may form on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with the power on.
	Wrong filename	File system is not correct.	Use ISO9660 level 1, 2 or JOLIET or Romeo file system.

	Problem	Cause	Measure
	No sound heard.	MP3/WMA files are absent in a USB drive.	Write MP3/WMA files onto the USB drive properly.
		Files are not recognized as an MP3/WMA file.	Use MP3/WMA files encoded properly.
B Drive)	Sound is cut or skipped. Noise is generated or noise is mixed with sound.	MP3/WMA files are not encoded properly.	Use MP3/WMA files encoded properly.
A (US	USB drive cannot be detected.	USB drive may be damaged.	Reinsert the USB drive to try again. Replace with a new USB drive if failed.
MP3/WMA (USB		USB drive connector is in bad condition.	
N	USB drive is unable to plug into the USB port.	The USB drive connector may be inserted in the wrong direction with the port.	Reinsert the USB drive with the correct direction.
		The USB drive connector is damaged.	Replace with a new USB drive.

8. ERROR DISPLAYS

	Error Display	Cause	Measure
DISC	ERROR 2	A DISC is caught inside the CD deck and is not ejected.	This is a failure of CD deck's mechanism and consult your store of purchase.
P3/WMA	ERROR 3	A DISC cannot be played due to scratches, loaded upsidedown inside the CD deck etc.	Replace with a non-scratched, non-warped- disc. Eject the disc then reload it properly.
CD/MP3,	NO FILE	No audio file is detected in the DISC.	Replace with audio contents loaded DISC.

	Error Display	Cause	Measure
Æ	MNT ERR	Failure detection of USB drive when it is plugged into the port.	Unplug the USB drive and re-plug into the port.
USB DRIVE	NO FILE	No audio file is detected in the media.	Replace with audio contents loaded USB drive.
šĭ 	USB ERR	USB connector short circuit/ overloaded.	Unplug the USB drive, turn off the power and then turn on the power again.

9. SPECIFICATIONS

FM tuner

Frequency Range: 87.5 MHz to 108 MHz

Usable Sensitivity: 11 dBf

50 dB Quieting Sensitivity: 17 dBf
Alternate Channel Selectivity: 75 dB
Stereo Separation (1 kHz): 35 dB

Frequency Response (±3 dB): 30 Hz to 15 kHz

AM tuner

Frequency Range:

MW 531 kHz to 1602 kHz LW 153 kHz to 279 kHz Usable Sensitivity: $25 \mu V$

CD player

System: Compact disc audio system

Usable Discs: Compact disc

Frequency Response: 10 Hz to 20 kHz (±1 dB) Signal-to-Noise Ratio: 85 dB (1 kHz) IHF-A

Dynamic Range: 80 dB (1 kHz) Harmonic Distortion: 0.01%

Specifications

CD

MP3	
Decode Format	MPEG 1, 2 and 2.5 - Layer 3
Sampling rate (kHz)	MPEG-1: 32, 44.1, 48 MPEG-2: 16, 22.05, 24 MPEG-2.5: 11.025, 44.1
Bit-rate (kbps)	MPEG-1:32-320 MPEG-2:8-160 MPEG-2.5:8-160 VBR
CD-ROM Format	ISO 9660 Level 1, 2, Romeo and Joliet
WMA	
Sampling rate (kHz)	22.05 - 44.1
Bit-rate (kbps)	48, 64, 80, 96, 128, 160, 192
CD-ROM Format	ISO 9660 Level 1, 2, Romeo and Joliet

USB

USB 1.1 and 2.0 compatible with a maximum transfer rates of up to 12Mbps. (Full speed)

MP3	
Decode Format	MPEG 1, 2 and 2.5 - Layer 3
Sampling rate (kHz)	MPEG-1: 32, 44.1, 48 MPEG-2: 16, 22.05, 24 MPEG-2.5: 8, 11.025, 12
Bit-rate (kbps)	MPEG-1:32-320 MPEG-2:8-160 MPEG-2.5:8-160 VBR
WMA	
Sampling rate (kHz)	8, 11.025, 16, 22.05, 32, 44.1
Bit-rate (kbps)	48, 64, 80, 96, 128, 160, 192

Common in MP3/WMA Disc and USB drive

Folder Level Limit: 8 Level Folder Support: 255 File Support: 255

Folder Name : Maximum 28 bytes
File Name : Maximum 28 bytes

Audio

Maximum Power Output: 200 W (50 W X 4 ch)
Power Output: 4 X 25 W (DIN 45324, +B=14.4 V)

Bass Control Action (100 Hz): ± 14 dB Treble Control Action (10 kHz): ± 14 dB Line Output (with A/C 1 kHz, 10 k Ω): 1.8 V

General

Power Supply Voltage:

14.4 V DC (10.8 V to 15.6 V allowable), negative ground

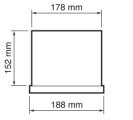
Current Consumption: Less than 15 A

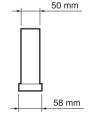
Speaker Impedance: 4 Ω (4 Ω to 8 Ω allowable)

Weight: 2.42 lb. (1.1 kg)

Dimensions:

178 mm Width X 50 mm Height X 152 mm Depth





Notes:

- Specifications comply with JEITA Standards.
- Specifications and design are subject to change without notice for further improvement.
- Please make sure when connecting external power amplifier, that you properly, to the car chassis, ground the amplifier.
- If this is not done, severe damage to the source unit may happen.

Clarion Co., Ltd.