

clarion®

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

DB188RMP

DB189RMP

DB189RGMP

CD/MP3/WMA RECEIVER
AUTORADIO CD/MP3/WMA
CD/MP3/WMA-RECEIVER
SINTOLETTORE CD/MP3/WMA
CD/MP3/WMA-RADIO-COMBINATIE
RECEPTOR CD/MP3/WMA
CD/MP3/WMA-RADIO
RECEPTOR CD/MP3/WMA

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

APPARATET BØR KUN ÅBNES AF FAGFOLK MED SÆRLIGT KENDSKAB TIL APPARATER MED LASERSTRÅLER!

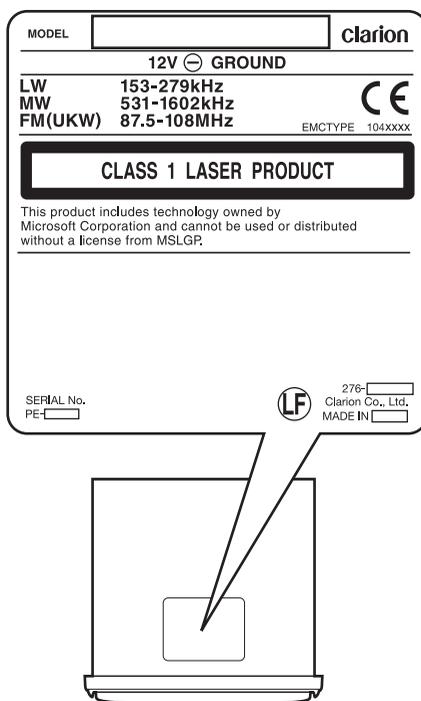
Indvendigt i apparatet er anbragt den her gengivne advarselsmærkning, som advarer imod at foretage sådanne indgreb i apparatet, at man kan komme til at udsætte sig for laserstråling.

OBS!

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

VAROITUS

Suojakoteloja si saa avata. Laite sisältää laseriodin, joka lähettää näkymätöntä silmille vaarallista lasersäteilyä.



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.

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1. FEATURES



- MP3/WMA compatible with ID3-TAG display
- Front-panel auxiliary input & 2ch RCA output
- “Z-Enhancer Plus” with 2 Band Parametric Equalizer & “MAGNA BASS EX” dynamic bass enhancement

2. PRECAUTIONS

1. 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.
2. When the inside of the car is very cold and the player is used soon after switching on the heater moisture may form on the disc or the optical parts of the player and proper playback may not be possible. If moisture forms on the disc, wipe it off with a soft cloth. If moisture forms on the optical parts of the player, do not use the player for about one hour. The condensation will disappear naturally allowing normal operation.
3. Driving on extremely bumpy roads which cause severe vibration may cause the sound to skip.

INFORMATION FOR USERS:

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

Handling Compact Discs

Use only compact discs bearing the  or



mark.

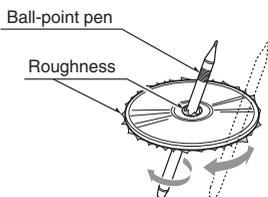
Do not play heart-shaped, octagonal, or other specially shaped compact discs.

Some CDs recorded in CD-R/CD-RW mode may not be usable.

Handling

- 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 car.

- New discs may have some roughness around the edges. If such discs are used, the player may not work or the sound may skip. Use a ball-point pen or the like to remove any roughness from the edge of the disc.



- Never stick labels on the surface of the compact disc or mark the surface with a pencil or pen.
- Never play a compact disc with any cellophane tape or other glue on it or with peeling off marks. If you try to play such a compact disc, you may not be able to get it back out of the CD player or it may damage the CD player.
- Do not use compact discs that have large scratches, are misshapen, cracked, etc. Use of such discs may cause misoperation or damage.
- To remove a 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.
- Do not use commercially available CD protection sheets or discs equipped with stabilizers, etc. These may damage the disc or cause breakdown of the internal mechanism.

Storage

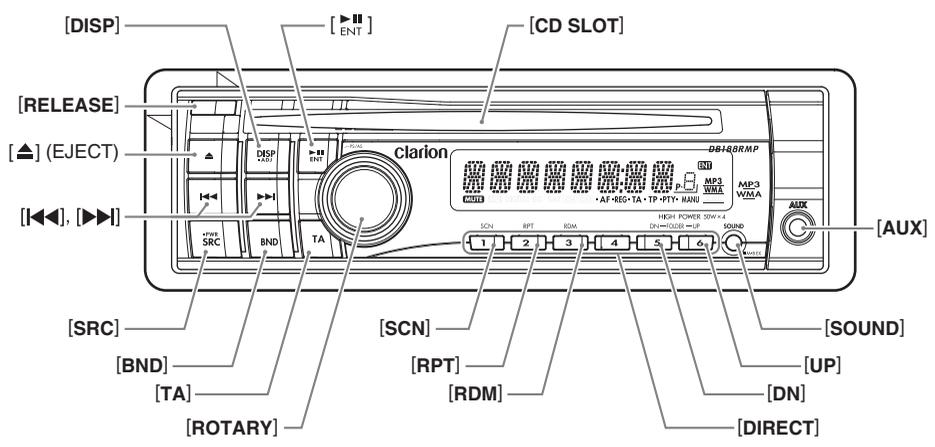
- Do not expose compact discs to direct sunlight or any heat source.
- Do not expose compact discs to excess humidity or dust.
- Do not expose compact discs to direct heat from heaters.

Cleaning

- 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.
- Do not use any solvents, such as commercially available cleaners, anti-static spray, or thinner to clean compact discs.
- After using special compact disc cleaner, let the compact disc dry off well before playing it.

3. CONTROLS

Names of the Buttons and Their Functions



[RELEASE] button

- Press the [RELEASE] button to unlock the DCP.

[DISP] button

- Switch the display indication.
- Press and hold the button for 1 second or longer to enter the adjust mode.

[ENT] button

- Perform preset scan while in the radio mode. When the button is pressed and held, auto store is performed.
- Play or pause a track while in the CD/MP3/WMA mode.
- Confirm various settings.

[CD SLOT]

- CD insertion slot.

[AUX] input jack

- The input jack for connecting an external device.

[SOUND] button

- Use the button to switch to the sound adjust mode.
- Press and hold the button for 1 second or longer to turn on or off the MAGNA BASS EXTEND mode.

[UP], [DN] buttons

- Select the folder while in the MP3/WMA mode.
- Use the buttons to perform various settings.

[DIRECT] buttons

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

[RDM] button

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

[RPT] button

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

[SCN] button

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

[ROTARY] knob

- Adjust the volume by turning the knob clockwise or counterclockwise.

[TA] button

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

[BND] button

- Switch the band, or seek tuning or manual tuning while in the radio 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.

[◀◀], [▶▶] buttons

- Select a station while in the radio mode or select a track while in the CD/MP3/WMA mode.

This button is used to make various settings.

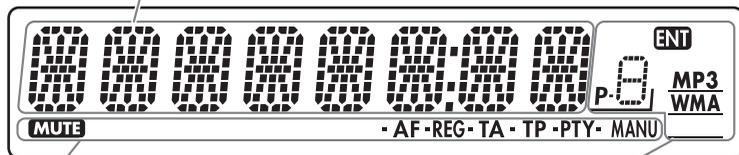
- Press and hold the button for 1 second or longer to enter the fast-forward or fast-backward mode.

[▲] (EJECT) button

- Eject a disc when it is loaded into the unit.

Display Items

Operation status indication
PS name, PTYs, CT (clock), etc. are displayed.



MUTE : MUTE indication

AF : Alternative frequency indication

REG : Regional indication

TA : Traffic announcement indication

TP : Traffic programme indication

PTY : Programme type indication

MANU : Manual indication

P-1 : Preset channel indication (1 to 6)

ENT : Enter indication

MP3 : MP3 indication

WMA : WMA indication

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.

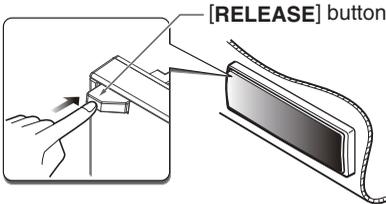
4. DCP (DETACHABLE CONTROL PANEL)

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.

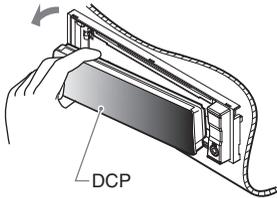
Removing the DCP

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



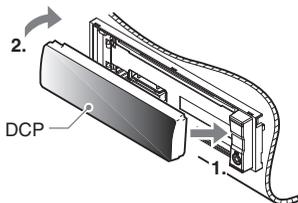
* The DCP is unlocked

3. Remove the DCP.



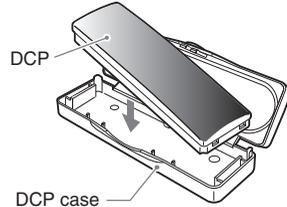
Attaching the DCP

1. Insert the right side of the DCP into the main unit.
2. Insert the left side of the DCP into the main unit.



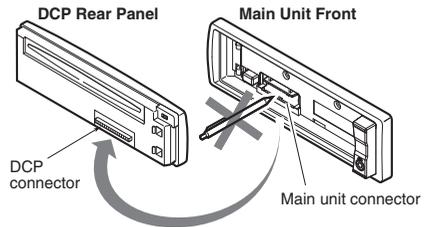
Storing the DCP in the DCP Case

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.)



CAUTION

- The DCP can easily be damaged by shocks. After removing it, be careful not to drop it or subject it to strong shocks.
- When the Release button is pressed and the DCP is unlocked, the car's vibrations may cause it to fall. To prevent damage to the DCP, always store it in its case after detaching it.
- 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.

5. OPERATIONS

Note:

- Be sure to read this chapter referring to the front diagrams of chapter “3. CONTROLS” on page 6.

Basic Operations

⚠ 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 far, you may not be able to start the engine and this can reduce the service life of the battery.

1. Press the [SRC] button.
2. 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

1. Press the [SRC] button to change the operation mode.
2. Each time you press the [SRC] button, the operation mode changes in the following order:
Radio → CD/MP3/WMA → AUX → Radio...

Adjusting the volume

1. Turning the [ROTARY] knob clockwise increases the volume; turning it counterclockwise decreases the volume.
- * The volume level is from 0 (minimum) to 33 (maximum).

Switching the display

Press the [DISP] button to select the desired 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.
- * When CT data is not received, “CT- -- --” appears in the display.

Sound Adjustment

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

To change sound setting

1. Press the [SOUND] button to switch to the sound adjustment selection display.
* The factory default sound setting is “Z-EHCR+”.
2. Then press the [◀◀] or [▶▶] button to select the sound adjustment mode.
Each time you press the [◀◀] or [▶▶] button, the sound adjustment mode changes as following order:
“Z-EHCR+” ↔ “BASS” ↔ “TREBLE” ↔ “BALANCE” ↔ “FADER”
* In the case of display blinking “ENT”, you can press the [ENT] button to adjust the setting value.
* The sound adjustment mode will be displayed for 2 seconds before showing the sound setting.
3. Turn the [ROTARY] knob to adjust the selected audio mode.
4. After completing settings, press the [SOUND] button to return to the previous mode.

● Setting the Z-Enhancer Plus

This unit is provided with 4 types of sound tone effects stored in memory.

Select the one you prefer.

* The factory default setting is “OFF”.

2-1. Select “Z-EHCR+”.

3-1. Each time you turn the [ROTARY] knob, the tone effect changes in the following order:

“OFF” ↔ “B-BOOST” ↔ “IMPACT” ↔ “EXCITE” ↔ “CUSTOM”

OFF : no sound effect

B-BOOST : bass emphasized

IMPACT : bass and treble emphasized

EXCITE : bass and treble emphasized
mid emphasized

CUSTOM : user custom

When “B-BOOST/IMPACT/EXCITE” is set:

3-2. Press the [ENT] button.

3-3. Turn the [ROTARY] knob to adjust the setting in the range of -3 to +3.

* The factory default setting is “0”.

3-4. Press the [ENT] button to return to the previous mode.

When “CUSTOM” is set:

3-2. Press and hold the [ENT] button for 1 second or longer. Bass/treble characteristics become flat and “FLAT” is show in the display.

3-3. Turn the [ROTARY] knob to change to the “OFF” mode.

● Adjusting the bass

This adjustment can be performed only when the Z-Enhancer Plus is set to “CUSTOM”.

2-1. Select “BASS”.

3-1. Press the [ENT] button.

3-2. Press the [◀◀] or [▶▶] button to select as following order.

“B<G 0>” ↔ “B<F 60>” ↔ “Q 1”

3-3. Turn the [ROTARY] knob to adjust the gain, the F (center frequency) and the Q.

B<G 0> : The factory default setting is “0”.
(Adjustment range: +7 to -7)

B<F 60> : The factory default setting is “60”.

(Adjustment range:
60/80/100/200)

Q 1 : The factory default setting is “1”.
(Adjustment range: 1/1.25/1.5/2)

3-4. Press the [ENT] button to return to the previous mode.

Basic Operations

● Adjusting the treble

This adjustment can be performed only when the Z-Enhancer Plus is set to “CUSTOM”.

2-1. Select “TREBLE”.

3-1. Press the [ENT] button.

3-2. Press the [◀◀] or [▶▶] button to select as following order.

“T<G 0>” ↔ “T<F 10k>”

3-3. Turn the [ROTARY] knob to adjust the gain, the F (center frequency) and the Q.

T<G 0> : The factory default setting is “0”.
(Adjustment range: +7 to -7)

T<F 10k>: The factory default setting is “10k”.
(Adjustment range: 10k/12.5k/
15k/17.5k)

3-4. Press the [ENT] button to return to the previous mode.

● Adjusting the balance

2-1. Select “BALANCE”.

3-1. Turn the [ROTARY] knob to adjust the balance of the right and left speakers.

* The factory default setting is “CENTER” (center). (Adjustment range: RIGHT12 to LEFT12 (right 12 to left 12))

● Adjusting the fader

2-1. Select “FADER”.

3-1. Turn the [ROTARY] knob to adjust the balance of the rear and front speakers.

* The factory default setting is “CENTER” (center). (Adjustment range: FRONT12 to REAR12 (front 12 to rear 12))

Note:

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

Setting the MAGNA BASS EXTEND

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

* The factory default setting is “OFF” (off).

1. Press and hold the [SOUND] button for 1 second or longer to turn on the MAGNA BASS EXTEND effect. “M-B EX” appears in the display for 2 seconds.
2. Press and hold the [SOUND] button for 1 second or longer to turn off the MAGNA BASS EXTEND effect. “M-B OFF” appears in the display for 2 seconds.

CT (Clock Time) function

The CT function receives CT data sent from an RDS station and displays the time.

* 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.

Listening to the radio

1. Press the **[SRC]** button and select the radio mode. The frequency or PS and PTY appears in the display.
 - * PS: Programme service name
 - * PTY: Programme type
2. Press the **[BND]** button and select the radio band. Each time the button is pressed, the radio reception band changes in the following order:
F1 (FM1) → F2 (FM2) → F3 (FM3) → AM (MW/LW) → F1 (FM1)...
3. Press the **[◀◀]** or **[▶▶]** button to tune in the desired station.

Tuning

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

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.

1. Press the **[BND]** button and select the desired band (FM or AM (MW/LW)).
2. Tune into a station.
 - * 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.

● DX SEEK

Press the **[◀◀]** or **[▶▶]** button to automatically seek a station.

When the **[▶▶]** button is pressed, the station is sought in the direction of higher frequencies; if the **[◀◀]** button is pressed, the station is sought in the direction of lower frequencies.

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

● LOCAL SEEK

If the **[◀◀]** or **[▶▶]** 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 SEEK"** 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.

1. 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 **[◀◀]** or **[▶▶]** button for 1 second or longer to tune in a station.

● Step tuning

Press the **[◀◀]** or **[▶▶]** button to manually tune in a station.

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

Radio Operations

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. Press the corresponding [DIRECT] button to recall the stored radio frequency automatically.

1. Press the [BND] button and select the desired band (FM or AM (MW/LW)).
2. Press the corresponding [DIRECT] button to recall the stored station.

Note:

- Press and hold one of the [DIRECT] buttons for 2 seconds or longer to store that station into preset memory.

Manual memory

1. Select the desired station with seek tuning or manual tuning.
2. Press and hold one of the [DIRECT] buttons for 2 seconds or longer 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.

1. Press the [BND] button and select the desired band (FM or AM (MW/LW)).
2. Press and hold the [▶ENT] button for 2 seconds or longer. The stations with good reception are stored automatically to the preset channels.

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 [▶ENT] button.
2. When a desired station is tuned in, press the [▶ENT] button again to continue receiving that station.

Note:

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

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 or in TV mode.

* 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".

1. Press and hold the **[DISP]** button for 1 second or longer to switch to the RDS adjustment selection display.
2. Press the **[◀◀]** or **[▶▶]** button to select "AF".
3. 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.

4. Press the **[DISP]** button to return to the previous mode.

* If the reception of the current broadcast station deteriorates, "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.

1. Press and hold the **[DISP]** button for 1 second or longer to switch to the RDS adjustment selection display.
2. Press the **[◀◀]** or **[▶▶]** button to select "REG".
3. 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.
4. Press the **[DISP]** button to return to the previous mode.

RDS Operations

Manually tuning a regional station in the same network

1. This function is valid when the AF function is ON and the REG function is OFF.

Note:

- This function can be used when a regional broadcast of the same network is received.
2. Press any one of the [DIRECT] buttons to call out the regional station.
 3. 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.

As "TA" lit in the display, press and hold the [ENT] 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.

PTY (Programme Type)

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 yet have PTY broadcast.
- * In the TA standby mode, a TP station has priority over a PTY broadcast station.
- * The factory default setting is "OFF".

1. Press and hold the [DISP] button for 1 second or longer to switch to the RDS adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "PTY".
3. 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.
4. Press the [DISP] 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

1. Press and hold the **[DISP]** button for 1 second or longer to switch to the RDS adjustment selection display.
2. Press the **[◀◀]** or **[▶▶]** button to select "PTY SEL".
3. Press the **[▶ENT]** button.
4. Press any one of the **[DIRECT]** buttons. Alternatively, turn the **[ROTARY]** knob to select the desired PTY.
5. Press the **[DISP]** button to return to the previous mode.
 - * Below are the factory default settings stored for the **[DIRECT]** buttons.

Preset number	PTY item	
	ENGLISH	Contents
1	NEWS	News
2	INFO	Information
3	POP M	Pop Music
4	SPORT	Sports
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

1. Press and hold the **[DISP]** button for 1 second or longer to switch to the RDS adjustment selection display.
2. Press the **[◀◀]** or **[▶▶]** button to select "PTY SEL".
3. Press the **[▶ENT]** button.
4. Press the **[▶▶]** button to search for a PTY broadcast in the direction of higher frequencies; press the **[◀◀]** 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 PTY select mode.

PTY preset memory

1. Press and hold the **[DISP]** button for 1 second or longer to switch to the RDS adjustment selection display.
2. Press the **[◀◀]** or **[▶▶]** button to select "PTY SEL".
3. Press the **[▶ENT]** button.

4. Turn the **[ROTARY]** knob to select the desired PTY.
 - The 29 types of PTY below can be selected.
5. 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

RDS Operations

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.

Switching the PTY display language

You can select one of 4 languages (English, German, Swedish or French) for the PTY displayed in the display.

* The factory default setting is “**ENGLISH**”.

1. Press and hold the [**DISP**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select “**LANGUAGE**”.
3. Turn the [**ROTARY**] knob to select the desired language.
4. Press the [**DISP**] button to return to the previous mode.

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 “**15**”.

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.

MP3/WMA

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 10 percent of its initial size with a high sound quality. 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 (The WMA indicator blinks).
- 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)

1. When using Windows Media Player 9/10/11, 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.

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 48 kbps-192 kbps

● File extensions

1. 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.
2. Files without MP3/WMA data will not play. The indication “- -: -” appears in the play time display if you attempt to play files without MP3/WMA data.

● Logical format (File system)

1. When writing MP3/WMA file on a CD-R disc or CD-RW disc, please select “ISO9660 level 1, 2 or JOLIET or Romeo” 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 64 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.

● Number of files or folders

1. Up to 256 files can be recognized per folder. Up to 578 files can be played.
2. 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.)
3. Some noise may occur depending on the type of encoder software used while recording.

CD/MP3/WMA Operations

Ejecting a CD

1. Press the [▲] button to eject the CD. Take it out from the ejected position. "EJECT" appears in the display.

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).

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.

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

Radio → CD/MP3/WMA → AUX → Radio ...

Loading a CD

1. Insert a CD into the center of the CD SLOT with the labeled side 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 not bearing the  or  mark and CD-ROMs cannot be played by this unit.
- Some CDs recorded in CD-R/CD-RW mode may not be usable.

Pausing play

1. Press the [▶||] button to pause play. "PAUSE" appears in the display.
2. To resume CD play, press the [▶||] button again.

Displaying CD titles

This unit can display title data for CD-text/MP3/WMA disc and user titles input with this unit.

1. Each time you press the [DISP] button to change the title display.

● CD-TEXT disc

Track → Disc → Artist → Track ...

● MP3/WMA disc

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

Notes:

- If the CD playing is not a CD-text CD, "NO TITLE" appears in the display.
- If MP3/WMA disc is not input TAG, "NO TITLE" appears in the display.
- For MP3, supports ID3 Tags V2.3 / 2.2 / 1.1 / 1.0.
- Tag displays give priority to V2.3 / 2.2.
- In the case of album Tags for WMA, the information written into the extension header is displayed.
- ISO8859-1, ASCII, S-JIS characters can be displayed in Tags.
UNKNOW characters can be turned to ISO8859-1 characters.
- Titles up to 32 bytes can be displayed in CD/MP3/WMA mode.

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-backward

● Fast-forward

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

● Fast-backward

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

* For MP3/WMA discs, it takes some time until the start of searching and between tracks. In addition, the playing time may have a margin of error.

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 [UP] or [DN] button.
Press the [UP] button to move the next folder. Press the [DN] button to move the previous folder.
2. To select a track, press the [◀◀] or [▶▶] button.

Other various play functions

● Scan play

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

1. Press the [SCN] button to perform scan play.
“TRK SCN” appears in the display for 2 seconds.
* Scan play starts from the next track after the track currently being played.

● Folder scan play

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.

1. Press and hold the [SCN] button for 1 second or longer to perform folder scan play.
“ALL SCN” appears in the display for 2 seconds.
* Folder scan play starts from the next folder after the folder currently being played.

● Repeat play

This function allows you to play the current track repeatedly.

1. Press the [RPT] button to perform repeat play.
“TRK RPT” appears in the display for 2 seconds.

● Folder repeat play

This function allows you to play a track currently being played in the MP3/WMA folder repeatedly.

1. Press and hold the [RPT] button for 1 second or longer to perform folder repeat play.
“ALL RPT” appears in the display for 2 seconds.

● Random play

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

1. Press the [RDM] button to perform random play.
“TRK RDM” appears in the display for 2 seconds.

● Folder random play

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

1. Press and hold the [RDM] button for 1 second or longer to perform folder random play.
“ALL RDM” appears in the display for 2 seconds.

● To cancel play

1. Press the operating button previously selected.
* The various play mode is canceled and the various play off mode appears in the display for 2 seconds.
* When the error display indication “- -: -” appears in the display, the various play (Scan/Repeat/Random) functions can be canceled in play mode.

Operations Common to Each Mode

To change adjustment setting

1. Press and hold the [DISP] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select the "item name".
 "SETTINGS" ↔ "SCRN SVR" ↔
 "SCROLL" ↔ "DIMMER" ↔ "TEL-SP" ↔
 "TEL-SW"
 * The adjustment item name will be displayed for 2 seconds before showing the desired value.
3. Turn the [ROTARY] knob to select the "desired setting value".
 * In the case of display blinking "ENT", you can press the [ENT] button to adjust the setting value.
 * After completing settings, press the [DISP] button to return to the previous mode.

● Displaying the settings

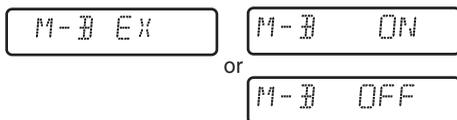
The number of indicator of this unit decreases, you can see the state of current settings at any operation mode.

2-1. Select "SETTINGS".

3-1. Turn the [ROTARY] knob to display the state of current settings.

* When the setting is selected, after 1 second the current state will be displayed.

For example: after 1 second,



● 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 or 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 "ON" or "OFF".

● Setting the method for title scroll

Set how to scroll in CD-TEXT, MP3/WMA title.

* The factory default setting is "ON".

2-1. Select "SCROLL".

3-1. Turn the [ROTARY] knob to select "ON" or "OFF".

• ON:

To scroll automatically.

• OFF:

To scroll just 1 time.

● Setting the dimmer control

You can set the dimmer control "ON" or "OFF".

* The factory default setting is "ON".

2-1. Select "DIMMER".

3-1. Turn the [ROTARY] knob to select "ON" or "OFF".

Operations Common to Each Mode

● Setting the car speaker output for the cellular phone

When the AUX input jack is used to connect an AUX BLUETOOTH BB (BLT373) (sold separately):

- * The factory default setting is “RIGHT”.
- * To output the telephone calls, set the cellular phone interrupt to “ON”.

2-1. Select “TEL-SP”.

3-1. Turn the [ROTARY] knob to select “RIGHT” or “LEFT”.

● RIGHT:

Telephone calls can be heard on the front right speaker connected to this unit.

● LEFT:

Telephone calls can be heard on the front left speaker connected to this unit.

● Cellular phone interrupt setting

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

When the AUX input jack is used to connect an AUX BLUETOOTH BB (BLT373) (sold separately):

- * 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:

“OFF” ↔ “ON” ↔ “MUTE”

● OFF:

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

● ON:

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

- * When listening to your calls on your car speakers, you can adjust the volume by turning the [ROTARY] knob.

● MUTE:

The sound from this unit is muted during telephone calls.

Note:

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

AUX function

This system has an external input jack on the front panel so you can listen to sounds and music from external devices connected to this unit.

● 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.

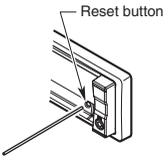
- * The factory default setting is “MID”.

1. Press and hold the [DISP] button for 1 second or longer.
2. Select “AUX SENS”.
3. Turn the [ROTARY] knob to select “HIGH”, “MID” or “LOW”.

Note:

- When AUX mode is selected, AUX IN sensitivity can be set.

6. TROUBLESHOOTING

	Problem	Cause	Measure
General	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.
	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.	<ol style="list-style-type: none"> 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 buttons 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.	<ol style="list-style-type: none"> 1. 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). 2. If the sound is muted again, consult our service department.
CD/MP3/WMA	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.	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 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.	

7. ERROR DISPLAYS

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

	Error Display	Cause	Measure
CD/MP3/WMA	ERROR 2	A CD 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.
	ERROR 3	A CD cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped-disc.
	ERROR 6	A CD is loaded upside-down inside the CD deck and does not play.	Eject the disc then reload it properly.

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

Radio section

Tuning System: PLL synthesizer tuner

Receiving Frequencies:

FM : 87.5 to 108 MHz (0.05 MHz steps)

MW : 531 to 1602 kHz (9 kHz steps)

LW : 153 to 279 kHz (3 kHz steps)

CD player section

System: Compact disc digital audio system

Frequency Response: 5 Hz to 20 kHz (± 1 dB)

Signal to Noise Ratio: 90 dB (1 kHz)

Dynamic Range: 85 dB (1 kHz)

Distortion: 0.01%

General

Output Power: 25 W \times 4 (DIN 45324, +B=14.4V)

Power Supply Voltage:

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

Power Consumption: Less than 15 A

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

Weight:

Main unit: 1.2 kg

Dimensions:

Main unit:

178 (W) \times 50 (H) \times 155 (D) mm

Note:

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



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CE DECLARATION of CONFORMITY

We Clarion Europa GmbH

(supplier's name)

Hessenring 19-21, 64546 Mörfelden-Walldorf, GERMANY

(address)

declare under our sole responsibility that the product

CAR RADIO with CD PLAYER

MODEL: DB188RMP,DB189RMP,DB189RGMP,DB288RUSB

Product code:PE3050 (differ: illumination)

Product code:PE3048 (differ: with USB function)

TYPE: 1043213

(name, type or model, possibly sources and numbers of items)

to which this declaration relates is in conformity with the following
standard(s) or other normative document(s)

EN 55013:2001 + A1, EN 55020:2002 + A1

(title and/or number and date of issue of the standard(s) or
other normative document(s))

(if applicable) following the provisions of 2004/108/EC Directive.

And following the provisions of 2004/104/EC Directive,
according to paragraph 3.2.9 of Annex I,
meets the limits defined in paragraph 6.5, 6.6, 6.8 and 6.9 of Annex I

(supplier's comment)

Mörfelden-Walldorf GERMANY

Susumu Yamakawa

5 NOV 2007

President

(Place and date of issue)

(name and signature or equivalent
marking of authorized person)

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