# clarion®

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

# DXZ578RUSB

CD/USB/MP3/WMA/AAC RECEIVER WITH CeNET CONTROL
AUTORADIO CD/USB/MP3/WMA / AVEC COMMANDE CeNET
CD/USB/MP3/WMA/AAC-RECEIVER MIT CeNET-STEUERUNG
SINTOLETTORE CD/USB/MP3/WMA/AAC CON CONTROLLO CeNET
CD/USB/MP3/WMA/AAC-RADIO-COMBINATIE MET CeNET-BEDIENING
RECEPTOR DE CD/USB/MP3/WMA/AAC CON CONTROL CeNET
CD/USB/MP3/WMA/AAC-RADIO MED CeNET-KONTROLL
RECEPTOR CD/USB/MP3/WMA/AAC COM CONTROLO CeNET

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**CeNET**   **R D S**   **COMPACT DIGITAL AUDIO TEXT**   **MP3 ID3 TAG**   **Plays Windows Media™**   **ISO CONNECTOR**

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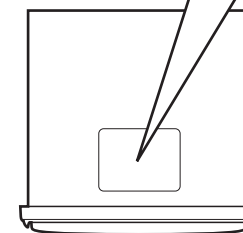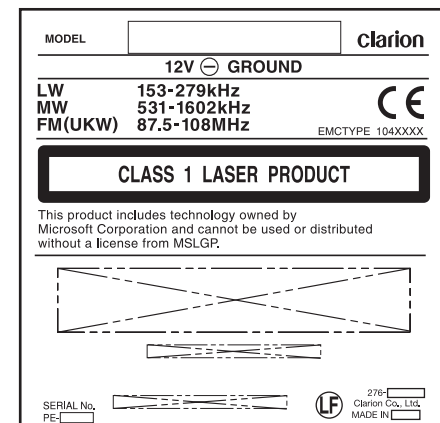APPARATET BØR KUN ÅBNES AF FAGFOLK MED SÆRLIGT KENDSKAB TIL APPARATER MED LASERSTRÅLER!

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

## OBS!

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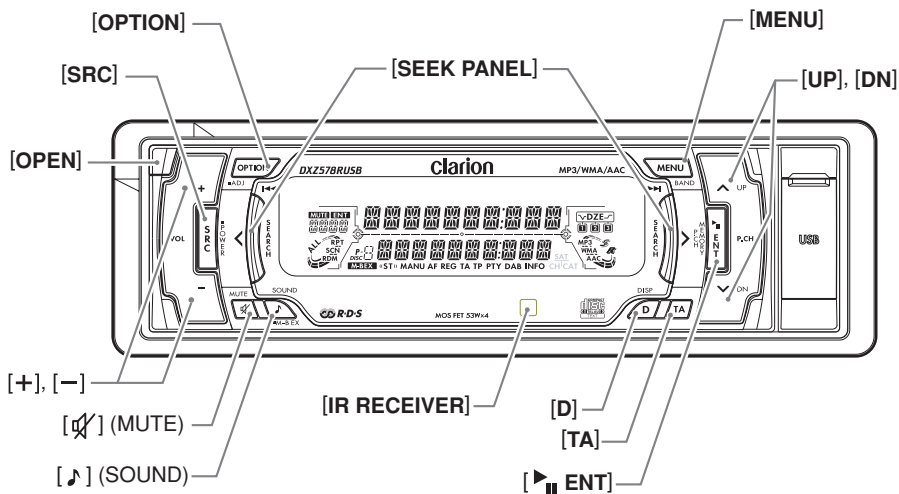
## VAROITUS

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

MODEL

**clarion**

12V ⊖ GROUND

| LW | 153-279kHz |
| MW | 531-1602kHz |
| FM(UKW) | 87.5-108MHz |

EMCTYPE 104XXXX

CE

**CLASS 1 LASER PRODUCT**

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

SERIAL No.
PE-

278-
Clarion Co., Ltd.
MADE IN

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English  Français  Deutsch  Italiano  Nederlands  Español  Svenska  Português

## CONTROLS / LES COMMANDES / REGLER / CONTROLLI REGELAARS / CONTROLES / KONTROLLER / CONTROLOS

*Main unit* / *Appareil principal* / *Hauptgerät* / *Apparecchio principale*
*Hoofdapparaat* / *Unidad principal* / *Huvudenhet* / *Unidade principal*

[**OPTION**]
[**MENU**]
[**SRC**]
[**SEEK PANEL**]
[**UP**], [**DN**]
[**OPEN**]



[**+**], [**−**]
[  ] (MUTE)
[ ♪ ] (SOUND)
[**IR RECEIVER**]
[**D**]
[**TA**]
[ ▶ ENT]

*With the FLIP DOWN PANEL opened* / *Ouvrez le PANNEAU INCLINABLE*
*Bei geöffnetem KLAPPBILDSCHIRM* / *A CONSOLE APRIBILE aperta*
*Met het KANTELEND BEDIENINGSPANEEL geopend* / *Apertura del PANEL ABATIBLE*
*Med den NEDFÄLLBARA KONSOLEN öppen* / *Com a CONSOLA RECLINÁVEL aberta*

[ ▲ ] (EJECT)
[**CD SLOT**]
[**USB SLOT**]
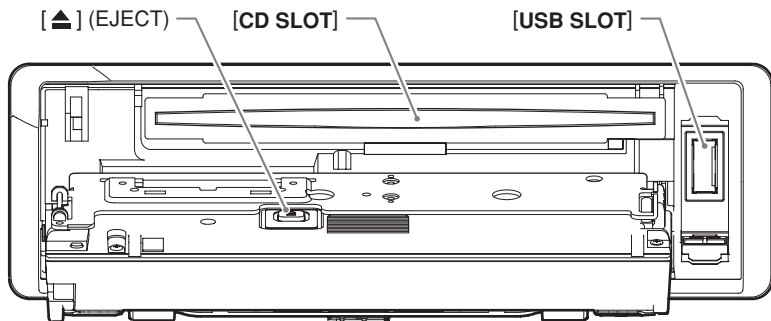


*Note: Be sure to unfold this page and refer to the front diagrams as you read each chapter.*
*Remarque: Veuillez déplier cette page et vous référer aux schémas quand vous lisez chaque chapitre.*
*Hinweis: Bitte diese Seite ausfalten und beim Lesen der einzelnen Kapitel die Frontdiagramme beachten.*
*Nota: Assicurarsi di aprire questa pagina e fare riferimento a questi diagrammi quando 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 bilderna 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.*

**English**
**Français**
**Deutsch**
**Italiano**
**Nederlands**
**Español**
**Svenska**
**Português**

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.
∗ This manual includes the operating procedures of the iPod® interface, CD/DVD changer, DAB and TV tuner connected via the CeNET cable. The iPod interface, CD/DVD changer and TV tuner have their own manuals, but no explanations for operating them are described.
"iPod" is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

## Contents

# 1. 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.**

## *Flip Down Panel*

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

### ⚠ CAUTION

**When opening and closing the FLIP DOWN PANEL, be careful not to catch your fingers. They could be injured.**

1. Always use this unit with the FLIP DOWN PANEL closed.

2. Do not force operations or use this device abnormally when opening or closing the FLIP DOWN PANEL.

3. Do not use the FLIP DOWN PANEL as a tray to place objects on when it is open.

4. When closing the FLIP DOWN PANEL, do not press the [**OPEN**] button.

   ∗ Press the center of the DCP to close.



DCP
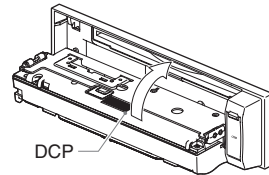
5. Strong impacts to the operating or display section can cause damage or deformation.

6. If the FLIP DOWN PANEL does not open fully, gently open it with your hand.

# Handling Compact Discs

Use only compact discs bearing the [disc logo] or [disc logo] 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.
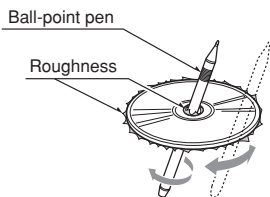
Ball-point pen

Roughness



• 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.

# 2. NOMENCLATURE

*Note:*

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

## Names of the Buttons and Their Functions

### [OPEN] button
• Deeply push in [**OPEN**] button to unlock the flip down panel.

### [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.

### [OPTION] button
• Press the button to enter the option mode.
• Press and hold the button for 1 second or longer to enter the adjust mode.

### [SEEK PANEL]
• The [**SEEK PANEL**] allows the controls on the ends to be moved to right or left to permit station tuning (radio), track selection (CD), and to perform various settings in the adjustment mode.
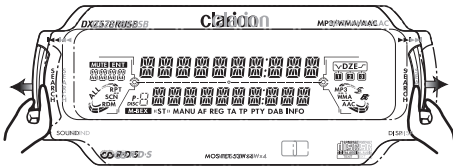


### [MENU] button
• Switch the band, or seek tuning or manual tuning while in the radio mode.
• Press the button to enter the list search mode while in the CD/MP3/WMA/AAC mode.
• Press and hold the button for 1 second or longer to play the first track while in the CD/MP3/WMA/AAC mode.
• Press the button to change the character.

### [ ▶ⅠⅠ ENT ] button
• Play or pause a track while in the CD/MP3/WMA/AAC mode.
• Press the button to enter the preset memory mode (radio).
• Confirm various settings.

### [UP], [DN] buttons
• Press the button upward or downward to recall the stored station while in the radio mode.
• Select the folder while in the MP3/WMA/AAC mode.
• Perform various settings.

### [ ♪ ] (SOUND) button
• Press the button to enter the sound adjust mode.
• Press and hold the button for 1 second or longer to turn on or off the MAGNA BASS EXTEND mode.

### [TA] button
• Use the button to set the TA (Traffic Announcement) standby mode.

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

### [D] button
• Use the button to switch the user titles or track titles, etc. while in the CD/MP3/WMA/AAC mode.
• Press the button to switch the display indication (Main display, Title display and CT (clock time) display).

### [ ⌀ ] (MUTE) button
• Turn mute on or off.

### [ ▲ ] (EJECT) button
• Press to eject a CD loaded in the unit.

### [+], [–] buttons
• Press the button upward or downward to adjust the volume.

### [CD SLOT]
• CD insertion slot.

### [USB SLOT]
• USB memory insertion slot.

# Display Items

Operation status indication
Source, Titles, function, Setting,
Clock, etc. are displayed

Operation status indication
Titles, frequency, band, channel,
play time, etc. are displayed

⌄DZE⌄ : Digital Z-Enhancer indication
1 2 3

**MP3** : MP3 indication
**WMA** : WMA indication
**AAC** : AAC indication
**SR** : Sound Restorer indication
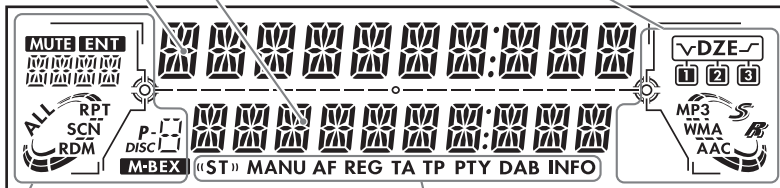
**MUTE** : MUTE indication
**ENT** : Enter indication
▦▦▦ : Source indication
CD, USB etc. are displayed
**ALL** : Disc or Folder indication
**RPT** : Repeat indication
**SCN** : Scan indication
**RDM** : Random indication
P-⌑ : Disc number indication
DISC⌑ Preset channel indication (1 to 6)
**M-BEX** : MAGNA BASS EX indication

**ST** : Stereo indication (radio only)
**MANU** : Manual indication
**AF** : Alternative frequency indication
**REG** : Regional indication
**TA** : Traffic announcement indication
**TP** : Traffic programme indication
**PTY** : Programme type indication
**DAB** : DAB indication
**INFO** : Information indication for DAB

# 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.

# 3. 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

1. Press the [**SRC**] button for 1 second or longer to turn off the power.

2. Deeply push in [**OPEN**] button to unlock the flip down panel.

   ∗ If the flip down panel does not open fully, gently open it with your hand.



[**OPEN**] button

DCP
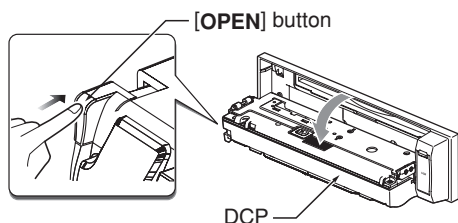
3. Pull the DCP toward you and remove it.



DCP
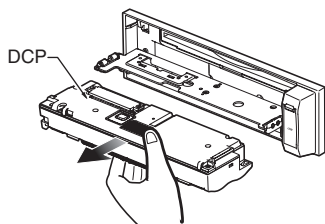
4. Close the HOLD FLAP.



HOLD FLAP

---
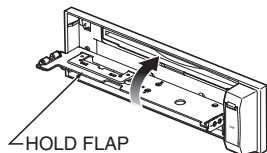
### ⚠ CAUTION

**Be sure to close the HOLD FLAP for safety when removing 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.



2.

1.

DCP
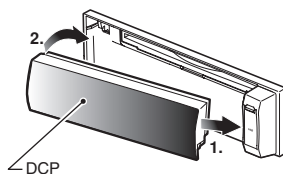
### ⚠ CAUTION

• **The DCP can easily be damaged by shocks. 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 results in damage to the DCP. So close the FLIP DOWN PANEL or remove the DCP to store into the case.**

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

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

# 4. REMOTE CONTROL

## *Functions of Remote Control Unit Buttons*

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

Signal transmitter

[SRC]
[BND]
[▶II ]
[▲], [▼]
[|◀◀], [▶▶|]
[MUTE]
[DISP]
[TA]
[PTY]
[PS/AS]
[AF]

clarion
• WIRELESS REMOTE CONTROLLER •
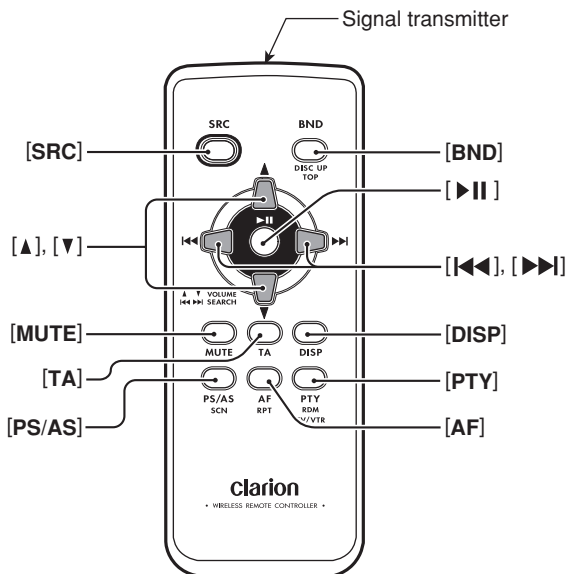
● *Shared modes*

**[SRC] button**
• Use to alternate operation mode among the various modes.
• Press to cancel a traffic announcement broadcast, an emergency broadcast, and a PTY broadcast during a TA, ALARM or PTY interrupt.

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

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

**[TA] button**
• TA on and off.
• Press to cancel a traffic announcement broadcast during a TA interrupt.

**[AF] button**
• Press to cancel an emergency broadcast during an ALARM interrupt.

**[PTY] button**
• Press to cancel a PTY broadcast during a PTY interrupt.

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

● *Radio (RDS) / DAB modes*

**[BND] button**
• Switches reception band.

**[|◀◀], [▶▶|] buttons**
• Moves preset channels up and down.

**[PS/AS] button**
• Press to perform preset scan.
• Press and hold the button for 2 seconds or longer to perform auto store.

**[AF] button**
• AF function on and off.
• Press and hold the button for 1 second or longer to perform REG function on and off.

**[PTY] button**
• PTY mode on and off.

● *CD/MP3/WMA/AAC and USB modes*

**[BND] button**
• Press to play the first track.

**[|◄◄], [►►|] buttons**
• Press to move the tracks up and down.
• Press and hold the button for 1 second or longer to perform fast-forward/fast-backward.

**[►ıı] button**
• Switches between playback and pause.

**[PS/AS] button**
• Press to perform scan play.
• When in MP3/WMA/AAC and USB modes, press and hold the button for 1 second or longer to perform folder scan play.

**[AF] button**
• Press to perform repeat play.
• When in MP3/WMA/AAC and USB modes, press and hold the button for 1 second or longer to perform folder repeat play.

**[PTY] button**
• Press to perform random play.
• When in MP3/WMA/AAC and USB modes, press and hold the button for 1 second or longer to perform folder random play.

● *CD changer/DVD changer modes*

**[BND] button**
• Press to switch to next disc in ascending order.

**[|◄◄], [►►|] buttons**
• Press to move the tracks up and down.
• Press and hold the button for 1 second or longer to perform fast-forward/fast-backward.

**[►ıı] button**
• Switches between playback and pause.

**[PS/AS] button**
• Press to perform scan play.
• Press and hold the button for 1 second or longer to perform disc scan play.

**[AF] button**
• Press to perform repeat play.
• Press and hold the button for 1 second or longer to perform disc repeat play.

**[PTY] button**
• Press to perform random play.
• Press and hold the button for 1 second or longer to perform disc random play.

● *iPod BB mode*

**[|◄◄], [►►|] buttons**
• Press to move the tracks up and down.
• Press and hold the button for 1 second or longer to perform fast-forward/fast-backward.

**[►ıı] button**
• Switches between playback and pause.

**[AF] button**
• Press to perform repeat play.
• Press and hold the button for 1 second or longer to perform all repeat play.

**[PTY] button**
• Press to perform random play.
• Press and hold the button for 1 second or longer to perform all random play.

● *TV mode*

**[BND] button**
• Switches reception band.

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

**[PS/AS] button**
• Press to perform preset scan.
• Press and hold the button for 2 seconds or longer to perform auto store.

**[PTY] button**
• Press to alternate between TV and VTR.

# Inserting the Battery

① Turn over the remote control unit and slide the cover in the direction indicated by the arrow in the illustration.

② Insert the battery (CR2025) into the insertion guides, with the printed side (+) facing upwards.

③ Press the battery in the direction indicated by the arrow so that it slides into the compartment.

④ 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.*

Insertion guide

**10** DXZ578RUSB
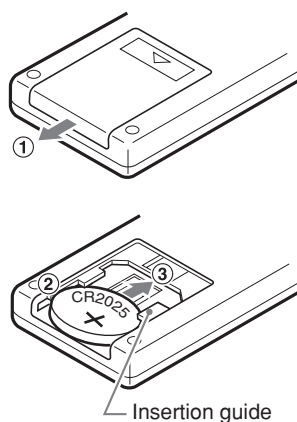
# 5. OPERATIONS

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

## 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.

   The mode that was previous active is displayed.

2. Press and hold the [**SRC**] button for 1 second or longer to turn off the power for the unit.

**Note:**
• The first time this unit is turned on after the wire connections are completed, it must be checked what equipment is connected. When the power is turned on, the "**SYSTEM CHECK**" appears in the display. The system check starts within the unit. When the system check is complete, the unit returns to the radio mode.

### 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 ➔ (DAB) ➔ CD/MP3/WMA/AAC ➔ USB ➔ (iPod BB) ➔ (CD changer) ➔ (DVD changer) ➔ (TV) ➔ AUX ➔ Radio...

   ∗ External equipment not connected with CeNET is not displayed.

### Adjusting the volume

1. Press the [**+**] or [**–**] button to adjust the volume.

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

### Switching the display

1. Press the [**D**] button to select the desired display.

   ∗ When CT data is not received, "**CT– –:– –**" appears in the display.

# Adjusting Sound Mode

## To change sound mode

1. Press the [ ♪ ] button and select the sound mode to adjust.
2. Push the [**SEEK PANEL**] leftward or rightward to select the "item name".



"**S-W VOL**" ↔ "**DZE**" ↔ "**BASS**" ↔ "**TREBLE**" ↔ "**S RESTOR**" ↔ "**HPF**" ↔ "**S-W LPF**" ↔ "**BALANCE**" ↔ "**FADER**"

3. Press the [**UP**] or [**DN**] button to select the "desired setting value".

   ∗ In the case of display blinking "**ENT**", you can press the [ ▶▌▌ **ENT** ] button to adjust the setting value.

   ∗ "**BASS**" and "**TREBLE**" can be adjusted only when "**DZE**" is set to "**DZE OFF**" (page 12).

   ∗ After completing settings, press the [ ♪ ] button to return to the previous mode.

   *Note:*

   • *During sound adjustment mode, if no operation is performed for more than 10 seconds, this mode can be canceled and return to the previous mode.*

● **Adjusting the subwoofer output volume**

You can adjust the volume output from the unit's subwoofer output terminal.

2-1. Select the "**S-W VOL**".

3-1. Press the [**UP**] or [**DN**] button to change the output volume.

   ∗ The factory default setting is "**0**".
   (Setting range: +5 to –5)

● **Setting the Digital Z-Enhancer**

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

∗ The factory default setting is "**DZE OFF**".

2-1. Select the "**DZE**".

3-1. Press the [**UP**] or [**DN**] button to select the tone effect. Each time you press the [**UP**] or [**DN**] button, the tone effect changes in the following order:

"**DZE OFF**" ↔ "**DZE 1**" ↔ "**DZE 2**" ↔ "**DZE 3**"

**DZE OFF** : no sound effect

**DZE 1** : Suitable for genuine speakers

**DZE 2** : Suitable for separate speakers

**DZE 3** : Suitable for co-axial speakers

3-2. When the "**DZE 1**", "**DZE 2**" or "**DZE 3**" is set, press the [ ▶▌▌ **ENT** ] button. Then press the [**UP**] or [**DN**] button to change the DZE level from +3 to –3.

   ∗ The factory default setting is "**0**".

3-3. Press the [ ▶▌▌ **ENT** ] button to return to the previous mode.

● **Compensation**

There is no need to compensate frequency characteristics if they are flat (no peaks or valleys) when you have measured the frequency characteristics with a measuring device. However, sometimes the frequency characteristics rise or fall in some places. If this happens, the frequency characteristics must be compensated. Create a frequency curve having characteristics that are opposite to the center frequency of parts where the characteristics rise and fall to cancel out these peaks and values, and make the frequency characteristics as flat as possible.

Making the frequency characteristics as flat as possible is called "Compensation".

● **Compensation of frequency characteristics**

The figure below shows the relationship between the center frequency, gain and Q curve.
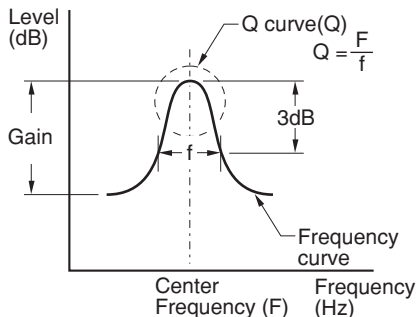
● **Q curve**

The Q curve becomes sharper when the numerical value is increased, and smoother when the numerical value is decreased.

Flat frequency characteristics can be made by selecting a Q curve opposite to that of the curve to be compensated.



Q curve : 20 ◄──────► Q curve : 1
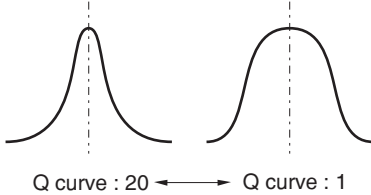
● **Adjusting the bass**

The bass gain, bass FREQ (center frequency) and bass Q can be adjusted as follows.

The adjustment can only be performed when the DZE is set to "**DZE OFF**".

2-1. Select "**BASS**".

2-2. Press the [ ▶❚❚ **ENT** ] button.

2-3. Push the [**SEEK PANEL**] leftward or rightward and select from:

   "**B GAIN**" ↔ "**B FREQ**" ↔ "**B Q**"

3-1. Press the [**UP**] or [**DN**] button to adjust the gain, the FREQ (center frequency) and the Q.

   **B GAIN**: –7 to +7 (The factory default setting is "**0**")

   **B FREQ**: 50Hz/80Hz/120Hz (The factory default setting is "**50**")

   **B Q**: 1/1.25/1.5/2 (The factory default setting is "**1**")

3-2. Press the [ ▶❚❚ **ENT** ] button to return to the previous mode.

● **Adjusting the treble**

The treble gain and treble FREQ (center frequency) can be adjusted as follows.

The adjustment can only be performed when the DZE is set to "**DZE OFF**".

2-1. Select "**TREBLE**".

2-2. Press the [ ▶❚❚ **ENT** ] button.

2-3. Push the [**SEEK PANEL**] leftward or rightward and select from:

   "**T GAIN**" ↔ "**T FREQ**"

3-1. Press the [**UP**] or [**DN**] button to adjust the gain and FREQ (center frequency).

   **T GAIN**: –6 to +6 (The factory default setting is "**0**")

   **T FREQ**: 8KHz/12KHz (The factory default setting is "**12K**")

3-2. Press the [ ▶❚❚ **ENT** ] button to return to the previous mode.

● **Adjusting the sound restorer**

The sound restorer enriches the playback of all types of music files that have undergone any level of data compression.

∗ The factory default setting is "**OFF**".

2-1. Select "**S RESTOR**".

3-1. Press the [**UP**] or [**DN**] button to adjust.

   Each time you press the [**UP**] or [**DN**] button, the sound restorer changes in the following order:

   "**OFF**" ↔ "**1**" ↔ "**2**" ↔ "**3**"

   Set this adjustment in accordance with the music source used.

   **OFF:** For music sources compressed at high bit rate

   **1:** For music sources compressed for high quality at low bit rate

   **2:** For music sources compressed for standard quality at low bit rate

   **3:** For music sources compressed for low quality at low bit rate

● **Setting high pass filter**

2-1. Select "**HPF**".

3-1. Press the [**UP**] or [**DN**] button to select the setting. Each time you press the [**UP**] or [**DN**] button, the setting changes in the following order:

   "**THROUGH**" ↔ "**50Hz**" ↔ "**80Hz**" ↔ "**120Hz**"

   ∗ The factory default setting is "**THROUGH**" (through).

● **Setting low pass filter**

2-1. Select "**S-W LPF**".

3-1. Press the [**UP**] or [**DN**] button to select the setting.

   Each time you press the [**UP**] or [**DN**] button, the setting changes in the following order:

   "**THROUGH**" ↔ "**50Hz**" ↔ "**80Hz**" ↔ "**120Hz**"

   ∗ The factory default setting is "**THROUGH**" (through).

**English**

● **Adjusting the balance**

2-1. Select "**BALANCE**".

3-1. Press the [**UP**] button to emphasize the sound from the right speaker, press the [**DN**] button to emphasize the sound from the left speaker.

　　　∗ The factory default setting is "**CENTER**". (Adjustment range: L12 to R12)

● **Adjusting the fader**

2-1. Select "**FADER**".

3-1. Press the [**UP**] button to emphasize the sound from the front speaker, press the [**DN**] button to emphasize the sound from the rear speaker.

　　　∗ The factory default setting is "**CENTER**". (Adjustment range: R12 to F12)

## *Adjusting MAGNA BASS EXTEND*

The MAGNA BASS EXTEND 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.

1. Press and hold the [ ♪ ] button for 1 second or longer to turn on the MAGNA BASS EXTEND effect. "**M-B EX**" lights in the display.

2. Press and hold the [ ♪ ] button for 1 second or longer to turn off the MAGNA BASS EXTEND effect. "**M-B EX**" goes off from the display.

　　　∗ The adjustment can only be performed when the DZE is set to "**DZE OFF**".

　　　∗ The factory default setting is off.

## *Mute*

Use this function to turn off the sound immediately.

1. Press the [ 🔇 ] button.
   The sound turns off and "**MUTE**" blinks in the display.

2. Press the [ 🔇 ] button again to cancel the mute mode.

## *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.

# Radio Operations

## 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 [**MENU**] button and select the radio band. Each time the button is pressed, the radio reception band changes in the following order:
   FM1 ➜ FM2 ➜ FM3 ➜ AM (MW/LW) ➜ FM1...
3. Push the [**SEEK PANEL**] leftward or rightward 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 [**MENU**] 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 [**MENU**] 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

Push the [**SEEK PANEL**] leftward or rightward to automatically seek a station.

When the [**SEEK PANEL**] is pushed rightward, the station is sought in the direction of higher frequencies; if the [**SEEK PANEL**] is pushed leftward, the station is sought in the direction of lower frequencies.

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

### ● LOCAL SEEK

If the [**SEEK PANEL**] is pushed leftward or rightward 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 [**MENU**] button and select the desired band (FM or AM (MW/LW)).
   - ∗ If "**MANU**" is not lit in the display, press and hold the [**MENU**] 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

Push the [**SEEK PANEL**] leftward or rightward and hold in position for 1 second or longer to tune in a station.

### ● Step tuning

Push the [**SEEK PANEL**] leftward or rightward 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.

## 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 [**UP**] or [**DN**] button recalls the stored radio frequency automatically.

1. Press the [**MENU**] button and select the desired band (FM or AM (MW/LW)).
2. Press the [**UP**] or [**DN**] button to recall the stored station.

## Manual memory

1. Select the desired station with seek tuning or manual tuning.
2. Press the [ ▶❙❙ ENT ] button to enter the preset memory mode. Press the [**UP**] or [**DN**] button to select a desired station, then press and hold the [ ▶❙❙ ENT ] button 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 [**MENU**] button and select the desired band (FM or AM (MW/LW)).
2. Press the [**OPTION**] button.
3. Push the [**SEEK PANEL**] leftward or rightward to select "**AUTO STORE**".
4. Press and hold the [ ▶❙❙ ENT ] 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 [**OPTION**] button.
2. Push the [**SEEK PANEL**] leftward or rightward to select "**PRESET SCN**".
3. Press the [ ▶❙❙ ENT ] button.

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

# 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**".

1. Press the [**OPTION**] button.
2. Push the [**SEEK PANEL**] leftward or rightward to select "**AF**".
3. Press the [**UP**] or [**DN**] button 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 [**OPTION**] 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.*

1. Press the [**OPTION**] button.
2. Push the [**SEEK PANEL**] leftward or rightward to select "**REG**".
3. Press the [**UP**] or [**DN**] button 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 [**OPTION**] button to return to the previous mode.

## 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 the [**UP**] or [**DN**] button to call out the regional station.
3. If the reception condition of the called out station is bad, press the [**UP**] or [**DN**] button to select the same preset memory station. 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:

1. Press the [**OPTION**] button.
2. Push the [**SEEK PANEL**] leftward or rightward to select "**AUTO STORE**".
3. 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

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 the [**OPTION**] button.
2. Push the [**SEEK PANEL**] leftward or rightward to select "**PTY**".
3. Press the [**UP**] or [**DN**] button 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 [**OPTION**] 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.

## PTY seek

1. Press the [**OPTION**] button to switch to the RDS adjustment selection display.
2. Push the [**SEEK PANEL**] leftward or rightward to select "**PTY SELECT**".
3. Press the [ ►❚❚ **ENT** ] button.
4. Push the [**SEEK PANEL**] rightward to search for a PTY broadcast in the direction of higher frequencies; push the [**SEEK PANEL**] leftward 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 selecting

1. Press the [**OPTION**] button to switch to the RDS adjustment selection display.
2. Push the [**SEEK PANEL**] leftward or rightward to select "**PTY SELECT**".
3. Press the [ ▶❙❙ **ENT** ] button.
4. Press the [**UP**] or [**DN**] button to select the desired PTY.

   The 29 types of PTY below can be selected.

| 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.

### 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 the [**OPTION**] button to switch to the RDS adjustment selection display.
2. Push the [**SEEK PANEL**] leftward or rightward to select "**LANGUAGE**".
3. Press the [**UP**] or [**DN**] button to select the desired language.
4. Press the [**OPTION**] 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, press the [**+**] or [**–**] button 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/AAC

### 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 8, click on TOOLS ➜ OPTIONS ➜ COPY MUSIC tab, then under COPY SETTINGS, unclick the check box for PROTECT CONTENT. Then, reconstruct files.
2. 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.

### What is AAC?

- AAC is an acronym for "Advanced Audio Coding" and refers to the audio compression method used with video compression standards MPEG-2 and MPEG-4.
- AAC files composed with the following conditions can be played:
  - AAC files encoded with iTunes.
  - iTunes Ver. 7.0 or earlier.
  - File extension ".m4a" (".M4A")

- Tracks purchased at an iTunes Music store, and copyright-protected files cannot be played.
- When playing AAC files that include image data, additional time may be required before playback begins.
- Files may not play properly, depending on the iTunes version under which an AAC file is encoded.

### Precautions when creating MP3/WMA/AAC disc

● **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 32 kbps–192 kbps
3. AAC: Sampling rate 8 kHz–48 kHz, Bit rate 8 kbps–320 kbps / VBR

● **File extensions**
1. Always add a file extension ".**MP3**" (.mp3), "**.WMA**" (.wma) or "**.M4A**" (.m4a) to MP3, WMA or AAC 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/AAC data will not play. The indication "**– –:– –**" appears in the play time display if you attempt to play files without MP3/WMA/AAC data.

● **Logical format (File system)**
1. When writing MP3/WMA/AAC file on a CD-R disc or CD-RW disc, please select "ISO9660 level 1, 2 or JOLIET or Romeo or APPLE ISO" as the writing software format. Normal play may not be possible if the disc is recorded on another format.
2. The folder name and file name can be displayed as the title during MP3/WMA/AAC 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.

● **Folder structure**
1. A disc with a folder having more than 8 hierarchical levels will be impossible.

● **Number of files or folders**

1. Up to 255 files can be recognized per folder. Up to 510 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.

### Set the type of file to be played (multi-session function)

When a single disc holds both normal CD type tracks and MP3/WMA/AAC type tracks, use this command to select which type of track to play.

∗ Default setting is "**CD**".

• When only one type of track (either music CD or MP3/WMA/AAC) is recorded on a disc, selecting either type will allow playback of the disc.

• When playing CCCD (copy-control CDs), set to CD type.

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

2. Push the [**SEEK PANEL**] leftward or rightward to select "**M-SESS**".

3. Press the [**UP**] or [**DN**] button to select "**CD**" or "**MP3**". The mixed mode is switched between CD type or MP3/WMA/AAC type.

   • **CD**

   When playing music CD only.

   • **MP3**

   When playing music MP3/WMA/AAC only.

4. When setting is completed, remove the disc and reinsert it.

### Backup Eject function

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

1. Press the [**OPEN**] button to open the FLIP DOWN PANEL.

**Note:**

• If the FLIP DOWN PANEL will not open far enough, open it gently with your hand.

2. Press the [▲] button. Remove the disc after it is ejected.

3. Close the FLIP DOWN PANEL.

   ∗ Press the center of the DCP to close.

**Notes:**

• Always close the FLIP DOWN PANEL once you take out the disc.

• If you force a CD into before auto reloading, this can damage the CD.

• If a CD (12 cm) is left 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/AAC mode.

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

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

### Loading a CD

1. Press the [**OPEN**] button to access the CD SLOT behind the FLIP DOWN PANEL.

2. 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 [disc] or [disc] mark and CD-ROMs cannot be played by this unit.

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

3. Close the FLIP DOWN PANEL.

   ∗ Press the center of the DCP to close.

### ⚠ CAUTION

**Be careful not to catch your hand or fingers while closing the FLIP DOWN PANEL.**

**Notes:**

• If the FLIP DOWN PANEL does not open fully, gently open with your hand.

• After loading a CD, always close the FLIP DOWN PANEL.

### Pausing play

1. Press the [ ▶❚❚ ENT ] button to pause play. "**PAUSE**" appears in the display.

2. To resume CD play, press the [ ▶❚❚ ENT ] button again.

**English**

## Displaying CD titles

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

1. Each time you press the [**D**] button, the title display changes in the following order:

● **CD-TEXT disc**

Track ➔ Disc/Artist ➔ User ➔ Track ...

● **MP3/WMA/AAC disc**

Track ➔ Folder ➔ Title/Album ➔ Artist ➔ Track ...

*Notes:*

• *If the CD playing is not a CD-text CD or no user title has been input, "**NO TITLE**" appears in the display.*

• *If MP3/WMA/AAC 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.*

• *Only ASCII characters can be displayed in Tags.*

## Selecting a track

● **Track-up**

1. Push the [**SEEK PANEL**] rightward to move ahead to the beginning of the next track.

2. Each time you push the [**SEEK PANEL**] rightward, the track advances ahead to the beginning of the next track.

● **Track-down**

1. Push the [**SEEK PANEL**] leftward to move back to the beginning of the current track.

2. Push the [**SEEK PANEL**] leftward twice to move back to the beginning of the previous track.

## Fast-forward/fast-backward

● **Fast-forward**

1. Push the [**SEEK PANEL**] rightward and hold in position for 1 second or longer.

● **Fast-backward**

1. Push the [**SEEK PANEL**] leftward and hold in position for 1 second or longer.

    ∗ For MP3/WMA/AAC 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/AAC 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.

    ∗ Folder without an MP3/WMA/AAC file is not selectable.

2. To select a track, push the [**SEEK PANEL**] leftward or rightward.

## Top function

The top function resets the CD player to the first track of the disc. Press and hold the [**MENU**] button for 1 second or longer to play the first track (track No. 1) on the disc.

∗ In case of MP3/WMA/AAC, the first track of a folder being played will be returned.

## List search function

1. Press the [**MENU**] button to enter the list search mode. And then the track list appears in the display.

2. Press the [**UP**] or [**DN**] button to select a track.

    ∗ If you push the [**SEEK PANEL**] leftward or rightward, the track list scrolls 5 lines at a time.

3. Press the [ ▶❚❚ ENT ] button to play.

    ∗ In case of MP3/WMA/AAC, this function is performed in the current folder.

    ∗ If no operation is performed for more than 10 seconds, this mode can be cancel and return to the usual mode.

## Other various play functions

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

```
OPT 1      SCN  ▶
     17   TRACK 4
```

### ● Scan play

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

2. Push the [**SEEK PANEL**] leftward or rightward to select "**SCN**".

3. Press the [**UP**] or [**DN**] button to select "**TRACK**", and then press the [ ▶❚❚ **ENT** ] button to perform scan play.

   "**TRACK SCN**" appears in the display.

   ∗ 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/AAC disc.

2. Push the [**SEEK PANEL**] leftward or rightward to select "**SCN**".

3. Press the [**UP**] or [**DN**] button to select "**ALL**", and then press the [ ▶❚❚ **ENT** ] button to perform folder scan play.

   "**ALL SCN**" appears in the display.

   ∗ 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.

2. Push the [**SEEK PANEL**] leftward or rightward to select "**RPT**".

3. Press the [**UP**] or [**DN**] button to select "**TRACK**", and then press the [ ▶❚❚ **ENT** ] button to perform repeat play.

   ∗ "**TRACK RPT**" appears in the display.

### ● Folder repeat play

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

2. Push the [**SEEK PANEL**] leftward or rightward to select "**RPT**".

3. Press the [**UP**] or [**DN**] button to select "**ALL**", and then press the [ ▶❚❚ **ENT** ] button to perform folder repeat play. "**ALL RPT**" appears in the display.

### ● Random play

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

2. Push the [**SEEK PANEL**] leftward or rightward to select "**RDM**".

3. Press the [**UP**] or [**DN**] button to select "**TRACK**", and then press the [ ▶❚❚ **ENT** ] button to perform random play.

   "**TRACK RDM**" appears in the display.

### ● Folder random play

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

2. Push the [**SEEK PANEL**] leftward or rightward to select "**RDM**".

3. Press the [**UP**] or [**DN**] button to select "**ALL**", and then press the [ ▶❚❚ **ENT** ] button to perform folder random play. "**ALL RDM**" appears in the display.

### ● To cancel the trick play

2. Push the [**SEEK PANEL**] leftward or rightward to select "**TRICK PLAY OFF**".

3. Press the [ ▶❚❚ **ENT** ] button to cancel the trick play.

# Operations Common to Each Mode

## To change adjustment setting

1. Press and hold the [**OPTION**] button for 1 second or longer to switch to the adjustment selection display.

2. Push the [**SEEK PANEL**] leftward or rightward to select the "item name".

   "**CONTRAST**" ↔ "**SCRN SVR**" ↔ "**MESSAGE INPUT**" ↔ "**AUTO SCR**" ↔ "**SCRL SPD**" ↔ "**DIMMER**" ↔ "**BLINKLED**" ↔ "**A CANCEL**" ↔ "**AUX/TEL**" ↔ "**TEL SP**" ↔ "**TEL SW**" ↔ "**SYSTEM CHECK**"

3. Press the [**UP**] or [**DN**] button 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 [**OPTION**] button to return to the previous mode.

### ● Setting the contrast

You can adjust the display contrast to match the angle of installation of the unit.

∗ The factory default setting is "**7**". (Adjustment level: 1 to 16)

2-1. Select "**CONTRAST**".

3-1. Press the [**UP**] or [**DN**] button to adjust the contrast.

### ● 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. Press the [**UP**] or [**DN**] button to select the setting.

   "**ON**" ↔ "**OFF**"

### ● Entering message information

Message up to 30 characters long can be stored in memory and displayed as a type of screen saver setting.

∗ The factory default setting is "**WELCOME TO CLARION**".

2-1. Select "**MESSAGE INPUT**".

3-1. Press the [ ▶❚❚ **ENT** ] button.

3-2. Press and hold the [**MENU**] button for 1 second or longer to clear the old message.

3-3. Push the [**SEEK PANEL**] leftward or rightward to move the cursor.

3-4 Press the [**MENU**] button to select a character type. Each time you press the [**MENU**] button, the character type changes in the following order:

   Capital letters ➜ Numbers ➜ Symbols ➜ Umlaut ➜ Capital letters...

3-5. Press the [**UP**] or [**DN**] button to select the desired character.

3-6. Repeat step 3-3 to 3-5 to enter up to 30 characters for message.

3-7. Press and hold the [ ▶❚❚ **ENT** ] button for 2 seconds or longer to store the message in memory and cancel the input message mode.

   ∗ Press and hold the [**MENU**] button for 1 second or longer to cancel the input message. Then press and hold the [ ▶❚❚ **ENT** ] button for 2 seconds or longer to store the message and the message return to the default setting.

### ● Setting the method for title scroll

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

∗ The factory default setting is "**ON**".

2-1. Select "**AUTO SCR**".

3-1. Press the [**UP**] or [**DN**] button to select "**ON**" or "**OFF**".

   • **ON:**
   To scroll automatically.
   • **OFF:**
   To scroll just 1 time.

### ● Setting the speed of the title scroll

This function allows you to adjust the speed of the title scroll.

∗ The factory default setting is "**SPEED 3**".

2-1. Select "**SCRL SPD**".

3-1. Press the [**UP**] or [**DN**] button to select from "**SPEED 1**" to "**SPEED 6**".

● **Setting the dimmer control**

You can set the dimmer control "**HIGH**", "**MID**", "**LOW**" or "**OFF**".

∗ The factory default setting is "**MID**".

2-1. Select "**DIMMER**".

3-1. Press the [**UP**] or [**DN**] button to select "**HIGH**", "**MID**", "**LOW**" or "**OFF**".

● **Anti-theft indicator**

The red Anti-theft indicator is a function for preventing theft. When the DCP is removed from the unit, this indicator blinks.

∗ The factory default setting is "**OFF**".

2-1. Select "**BLINKLED**".

3-1. Press the [**UP**] or [**DN**] button to select "**ON**" or "**OFF**".

● **Setting the external amplifier**

∗ The factory default setting is "**OFF**".

2-1. Select "**A CANCEL**".

3-1. Press the [**UP**] or [**DN**] button to select "**ON**" or "**OFF**".

• **ON:**
Use with connected AMP.

• **OFF:**
Use with inside AMP.

● **Set the cellular phone connection mode (AUX/TEL)**

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

∗ The factory default setting is "**AUX**".

2-1. Select "**AUX/TEL**".

3-1. Press the [**UP**] or [**DN**] button to select "**AUX**" or "**TEL**".

• **AUX:**
When you select "**AUX**", the AUX input cable is used to connect a AUX BLUETOOTH BB (BLT373) (sold separately).

• **TEL:**
When you select "**TEL**", the CENET input cable is used to connect a cellular phone (BLT433 or TEL-002) (sold separately).

● **Setting the car speaker output for the cellular phone**

∗ The factory default setting is "**R**".

∗ To output the telephone calls, set the cellular phone interrupt to ON.

2-1. Select "**TEL SP**".

3-1. Press the [**UP**] or [**DN**] button to select "**R**" or "**L**".

• **R:**
Telephone calls can be heard on the front right speaker connected to this unit.

• **L:**
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.

∗ The factory default setting is "**OFF**".

2-1. Select "**TEL SW**".

3-1. Press the [**UP**] or [**DN**] button to select the setting 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 pressing the [**UP**] or [**DN**] button.

• **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.

● **Performing a system check**

2-1. Select "**SYSTEM CHECK**".

3-1. Press and hold the [ ▶❙❙ ENT ] button for 1 second or longer.

"**SYSTEM CHECK**" appears in the display, then the unit returns to the previous operation mode.

## AUX function

This system has an external input cable 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 the [**OPTION**] button, "**AUX SENSE MID**" appears in the display.
2. Press the [**UP**] or [**DN**] button to select "**LOW**", "**MID**" or "**HIGH**".
3. Press the [**OPTION**] button to return to the previous mode.

## Entering titles

Titles up to 10 characters long can be stored in memory and displayed for CD, CD changer and TV stations. The number of titles that can be entered for each mode are as follows.

| Mode | Number of titles |
|------|------------------|
| CD mode | 50 titles |
| TV mode | 20 titles |

| CD changer mode | Number of titles |
|-----------------|------------------|
| DCZ628 connected | 100 titles |

1. Press the [**SRC**] button to select the mode you want to enter a title (CD, CD changer or TV).
2. Select and play a CD in the CD changer or tune in to a TV station for which you want to enter the title.
3. Press the [**OPTION**] button.
4. Push the [**SEEK PANEL**] leftward or rightward to select "**TITLE INPUT**".
5. Press the [ ▶❙❙ **ENT** ] button.
   The display switches to the title input display.
6. Push the [**SEEK PANEL**] leftward or rightward to move the cursor.

7. Press the [**MENU**] button to select a character type. Each time you press the [**MENU**] button, the character type changes in the following order:

   Capital letters ➜ Numbers ➜ Symbols ➜ Umlaut ➜ Capital letters...
8. Press the [**UP**] or [**DN**] button to select the desired character.
9. Repeat steps 6 to 8 to enter up to 10 characters for the title.
10. Press and hold the [ ▶❙❙ **ENT** ] button for 2 seconds or longer to store the title into memory.

## Clearing titles

1. Select and play a CD in the CD changer or tune in to a TV station for which you want to clear the title.
2. Press the [**OPTION**] button.
3. Push the [**SEEK PANEL**] leftward or rightward to select "**TITLE INPUT**".
4. Press the [ ▶❙❙ **ENT** ] button.
   The display switches to the title input display.
5. Press and hold the [**MENU**] button for 1 second or longer.
   All characters in the title disappear.
6. Press and hold the [ ▶❙❙ **ENT** ] button for 2 seconds or longer to store the setting.

# 6. OPERATIONS OF ACCESSORIES

## USB Operations

### USB memory device operation

**Note:**

* The following operations are the same as for CD mode:
  * *Pause*
  * *Track selection*
  * *Fast-forward/fast-backward*
  * *Top function*
  * *Scan play*
  * *Repeat play*
  * *Random play*
  * *Folder selection*
  * *List search function*

  *See "CD/MP3/WMA/AAC Operations" (page 20-23) for details.*

### About USB memory

* USB is an acronym for Universal Serial Bus, and refers to an external bus standard supporting data transfer rates of 12 Mbps.
* This unit is compatible with USB 1.1/2.0 with maximum data transfer rates of 12 Mbps.
* USB memory devices that can be played by connecting to the unit's USB cable are limited to those recognized as "USB mass storage class devices"; operation is not guaranteed with all USB memory devices.
  * Devices compatible with "USB Mass Storage Class" can be used merely by connecting to the host device, without need for special drivers or application software.
* Consult the manufacturer of your USB memory device for information regarding whether it is supported by "USB Mass Storage Class" standards.
* Audio files playable on this unit are limited to MP3/WMA/AAC files. For details, see the section "**MP3/WMA/AAC**" (page 20).

  Copy-protected WMA/AAC files cannot be played on this unit.

* To prevent the accidental loss of data, always back up important data on your computer.
* This unit does not support connections to a computer. In addition, connections made through a USB hub device are also not supported.
* When a USB memory device is composed of two or more drives, only one of the drives will be detected.
* USB memory devices with security functions cannot be played.
* Do not connect an iPod to the USB connector, since playback and controls may not function properly. To connect an iPod, use the CeNET iPod interface. For details, see the section "**iPod BB Operations**" (page 29).
* The order in which tracks are recorded may differ depending on the USB memory device connected (the actual playback order may not be the same as that indicated on your computer's display).

### ⚠ CAUTION

* **Insert and remove a USB memory device only when the device is not being accessed. Connecting or disconnecting the device at the following times may result in the loss of data:**
  * **If the USB memory device is removed or power is disconnected during writing to the device.**
  * **When the device is subjected to static electricity or electric noise.**
* **Do not leave a USB memory device unattended in an automobile. Exposure to direct sunlight or high temperatures may cause deformation or other malfunction of the USB memory device.**

## Connecting a USB memory device

1. Connect the USB memory device to the USB slot.

   Playback will begin from the first file recorded on the USB memory device.



USB

Confirm the proper orientation of the USB connector before inserting.

* If the USB memory device is not recognized, press the [**SRC**] button to switch the source to the device.
* Always insert the USB memory device fully into the connector. Incomplete connections may cause the USB memory device not to be recognized.
* Depending on the number of tracks recorded, some amount of time may be required until all tracks are read into the unit.
* The order in which tracks are recorded may differ depending on the USB memory device connected (the actual playback order may not be the same as that indicated on your computer's display).
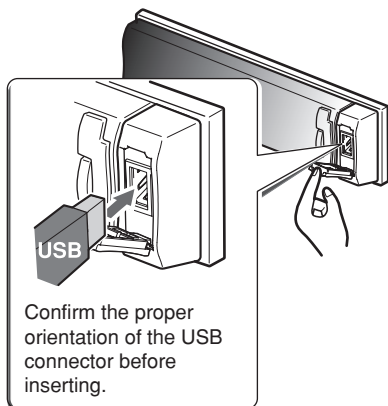
## To listen to tracks on a connected USB memory device

1. Press the [**SRC**] button to switch the source. When USB memory device is selected, playback will begin from the location at which playback was previously stopped.
   * When a USB memory device is connected the USB mode will be displayed.
   * When a USB memory device is disconnected and then reconnected, playback will begin from the beginning of the USB memory device.

## To stop play

1. Press the [**SRC**] button and switch the function to a source other than the USB memory.

### ⚠ CAUTION

**Do not remove the USB memory device when the USB mode is selected, since it may result in loss or damage to data on the USB memory device.**

**Always backup and save important data on your computer.**

2. Remove the USB memory device from the USB slot.

# iPod BB Operations

## ● iPod BB

This section describes operations when connected to a CeNET iPod Interface (EA-1276E). (Hereinafter, "iPod Interface (EA-1276E)" is abbreviated as iPod BB.)

**Note:**
* See the iPod BB Owner's Manual for details regarding iPod BB connections and operation conditions.

## Connecting an iPod

When an iPod is connected to the iPod BB interface, the "Repeat" set on the iPod will become "All repeat play" instead. Likewise, "Shuffle" set on the iPod will become as follows:

* "Shuffle (Albums)" play ➜ Random play
* "Shuffle (Songs)" play ➜ All random play

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

## Select iPod BB Interface

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

   Playback will begin from the last file that was played on the iPod alone or through the iPod BB.

**Note:**
* The following operations in Play mode operate the same as in CD mode:

   ∗**Track selection: [SEEK PANEL]**

   ∗**Fast-forward/fast-backward: [SEEK PANEL]**

   ∗**Pause: [ ▶❚❚ ENT ]**

   See "**CD/MP3/WMA/AAC Operations**" (page 20-23) for details.

## Other various play functions (in Play mode)

**Notes:**
* These functions are not supported when in the iPod menu mode.
* The Random function set on the iPod or when connected to iPod BB, remains the same after attachment/ detachment of the iPod.
* The iPod BB can be set simultaneously for All repeat and All random.

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

## ● Repeat play

Play back one track repeatedly.

2. Push the [**SEEK PANEL**] leftward or rightward to select "**RPT**".
3. Press the [**UP**] or [**DN**] button to select "**TRACK**", and then press the [ ▶❚❚ **ENT** ] button to perform repeat play.

## ● All repeat play

Repeatedly play all tracks within a selected category.

2. Push the [**SEEK PANEL**] leftward or rightward to select "**RPT**".
3. Press the [**UP**] or [**DN**] button to select "**ALL**", and then press the [ ▶❚❚ **ENT** ] button to perform all repeat play.

## ● Random play

Play all albums within a selected category, in random order. (Corresponds to "Shuffle (Albums)" command on iPod.)

2. Push the [**SEEK PANEL**] leftward or rightward to select "**RDM**".
3. Press the [**UP**] or [**DN**] button to select "**TRACK**", and then press the [ ▶❚❚ **ENT** ] button to perform random play.

## ● All random play

Play all tracks within a selected category, in random order. (Corresponds to "Shuffle (Songs)" command on iPod.)

2. Push the [**SEEK PANEL**] leftward or rightward to select "**RDM**".
3. Press the [**UP**] or [**DN**] button to select "**ALL**", and then press the [ ▶❚❚ **ENT** ] button to perform all random play.

● **To cancel the trick play**

2. Push the [**SEEK PANEL**] leftward or rightward to select "**RPT OFF**" or "**RDM OFF**".

3. Press the [ ▶❙❙ **ENT** ] button.

**Note:**

• *When the all repeat play mode is canceled, playback will stop when all tracks have been played.*

## Selecting category from the iPod menu

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

   The iPod menu categories will be displayed.

2. Press the [**UP**] or [**DN**] button to switch between categories.

   The iPod menu categories alternate in the following order:

   "**PLAYLIST**" ↔ "**ARTISTS**" ↔ "**ALBUMS**" ↔ "**SONGS**" ↔ "**GENRES**" ↔ "**COMPOSERS**" ↔ "**PLAYLIST**" ...

**Note:**

*The iPod menu mode can be canceled by performing the following operation:*

• *Press the [**MENU**] button.*

3. Push the [**SEEK PANEL**] rightward to select the category.

4. When the track name display is showing, push the [**SEEK PANEL**] rightward.

   Playback will begin from the first track in the selected category, and the iPod menu mode will be canceled.

   ∗ Subfolders may be displayed, depending on the category.

   In this case, press the [**UP**] or [**DN**] button to switch between subfolders, then push the [**SEEK PANEL**] rightward to select the desired subfolder.

   ∗ When the track name display is showing, pushing the [**SEEK PANEL**] leftward will return to the currently playing folder name display.

5. Press the [**UP**] or [**DN**] button to select a track within a category.

6. Push the [**SEEK PANEL**] rightward to play the desired track.

## About title display

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

• Character code information is UTF-8; displayable characters include English alphanumerics, some symbols, and some umlaut characters.

• Unsupported characters will be replaced by asterisks (∗).

# CD Changer Operations

**Note:**
* The following operations are the same as for CD mode:
  * *Pause*
  * *Track selection*
  * *Fast-forward/fast-backward*
  * *Scan play*
  * *Repeat play*
  * *Random play*

  See "**CD/MP3/WMA/AAC Operations**" (page 20-23) for details.

## CD changer functions

When an optional CD changer is connected through the CeNET cable, this unit controls all CD changer functions. This unit can control a total of 2 changers.

Press the [**SRC**] button and select the CD changer mode to start play. If 2 CD changers are connected, press the [**SRC**] button to select the CD changer for play.

∗ If "**NO MAG**" appears in the display, insert the magazine into the CD changer. "**DISC CHECK**" appears in the display while the player loads (checks) the magazine.

∗ If "**NO DISC**" appears in the display, eject the magazine and insert discs into each slot. Then, reinsert the magazine back into the CD changer.

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

### ⚠ CAUTION

**CD-ROM discs cannot be played from every CD changer, it's depended on the model.**

## Displaying CD titles

This unit can display title data for CD-text CDs and user titles input with this unit.

1. Press the [**D**] button to change the title display.

## Procedure to scroll a title

Set "**AUTO SCR**" to "**ON**" or "**OFF**".

(The factory default setting is "**ON**". Refer to the subsection "**Setting the method for title scroll**" in section "**Operations Common to Each Mode**".)

● **When set to "ON"**
The title is automatically kept scrolling.

● **When set to "OFF"**
To scroll just 1 time.

**Note:**
* User title can't scroll.

## Selecting a CD

1. Press the [**UP**] or [**DN**] button to select a desired disc in the magazine.

   ∗ If a CD is not loaded in a slot of magazine, "**NO DISC**" appears in the display

## Other various play functions

● **Disc scan play**

Disc scan play locates and plays the first 10 seconds of the first track on each disc in the currently selected CD changer. This function continues automatically until it is cancelled.

∗ Disc scan play is useful when you want to select a desired CD.

1. Press the [**OPTION**] button.
2. Push the [**SEEK PANEL**] leftward or rightward to select "**SCN**".
3. Press the [**UP**] or [**DN**] button to select "**ALL**", and then press the [ ▶❚❚ **ENT** ] button. "**ALL SCN**" appears in the display and disc scan play starts.

● **Disc repeat play**

After all the tracks on the current disc have been played, disc repeat play automatically replays the current disc over from the first track. This function continues automatically until it is cancelled.

1. Press the [**OPTION**] button.
2. Push the [**SEEK PANEL**] leftward or rightward to select "**RPT**".
3. Press the [**UP**] or [**DN**] button to select "**ALL**", and then press the [ ▶❚❚ **ENT** ] button. "**ALL RPT**" appears in the display and disc repeat play starts.

● **Disc random play**

The disc random play selects and plays individual tracks or discs automatically in no particular order. This function continues automatically until it is cancelled.

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

2. Push the [**SEEK PANEL**] leftward or rightward to select "**RDM**".

3. Press the [**UP**] or [**DN**] button to select "**ALL**", and then press the [ ▶❙❙ ENT ] button. "**ALL RDM**" appears in the display and disc random play starts.

● **To cancel the trick play**

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

2. Push the [**SEEK PANEL**] leftward or rightward to select "**TRICK PLAY OFF**".

3. Press the [ ▶❙❙ ENT ] button to cancel the trick play.

# DVD Changer Operations

By connecting an optional DVD changer that supports CeNET wiring, this unit can be used to control the DVD changer. To view DVDs, an optional monitor is required.

• The DVD control and display functions supported by this unit are limited; the unit does not support all the functions possible on a DVD changer.

  For fullest functionality, use the remote control unit provided with your DVD changer to control its operations. For details, consult the Owner's Manual provided with your DVD changer.

*Note:*

• *The following operations are the same as for CD and CD Changer modes:*

  ∗*Pause*

  ∗*Track selection*

  ∗*Fast-forward/fast-backward*

  ∗*Scan play*

  ∗*Repeat play*

  ∗*Random play*

  *See "**CD/MP3/WMA/AAC Operations**" (page 20-23) and "**CD Changer Operations**" (page 31-32) for details.*

# TV Operations

**Note:**
- The following operations are performed the same as for radio mode:
  * **Channel selection**
  * **Storing channels in memory**
  * **Calling channels from memory**
  * **Auto store**
  * **Preset scan**

  See "**Radio Operations**" (page 15-16) for details.

## TV tuner functions

When an optional TV tuner is connected through the CeNET cable, this unit controls all TV tuner functions. To watch TV requires a TV tuner and monitor.

## Watching a TV

1. Press the [**SRC**] button and select the TV mode.
2. Press the [**MENU**] button to select the desired TV band (TV1 or TV2). Each time the button is pressed, the input selection toggles between TV1 and TV2.
3. Push the [**SEEK PANEL**] leftward or rightward to tune in the desired TV station.

## Watching a video

The TV tuner has a VTR input terminal to which 1 external device can be connected. Connect a 12 V video cassette player (VCP) or video cassette recorder (VCR) to the TV tuner input terminal.

1. Press the [**OPTION**] button.
2. Push the [**SEEK PANEL**] leftward or rightward to select "**TV**/**VTR**".
3. Press the [ ▶ ❚❚ **ENT** ] button to enter the VTR mode.
4. To return to the TV broadcast, press the [**OPTION**] button.
5. Press the [ ▶ ❚❚ **ENT** ] button to return to the TV mode.

## Setting the TV area

When you select the TV area (TV reception area), the TV tuner area setting changes.

1. Press the [**OPTION**] button to switch to the adjustment selection display.
2. Push the [**SEEK PANEL**] leftward or rightward to select "**TV AREA**".
3. Press the [**UP**] or [**DN**] button to select the reception area.
4. Press the [**OPTION**] button to return to the previous mode.

## Setting the TV diver

You can change the reception setting for the TV antenna connected to the TV tuner.

1. Press the [**OPTION**] button to switch to the adjustment selection display.
2. Push the [**SEEK PANEL**] leftward or rightward to select "**TV DIVER**".
3. Press the [**UP**] or [**DN**] button to set to "**ON**" or "**OFF**".

   • **ON:**

   Sets the diver setting to ON.

   • **OFF:**

   Sets the diver setting to OFF.
4. Press the [**OPTION**] button to return to the previous mode.

# Digital Radio / DAB Operations

**DAB control function**

When a CeNET cable is used to connect a DAB (DAH923) (sold separately), all functions can be operated.

## Listening to the DAB station

1. Press the [**SRC**] button to select the DAB mode.

*Notes:*

• *The display shown in the normal reception mode and the preset reception mode is the same as that when a DAB station is received.*

• *The number of programmes and broadcasting times depend on the DAB stations.*

• *When the strength of DAB signals is weak, audio output is muted.*

## Seek tuning

1. Press the [**SRC**] button to select the DAB mode.

2. Push the [**SEEK PANEL**] leftward or rightward and hold in position for 1 second or longer.

   "**DAB**" lights up in the display when the main unit receives a DAB station.

   ∗ The main unit stops the seek tuning when it cannot find a DAB station. The display returns to the previous mode.

## Manual tuning

1. Press the [**SRC**] button to select the DAB mode.

2. Press and hold the [**MENU**] button for 1 second or longer. "**MANU**" lights up in the display.

3. Push the [**SEEK PANEL**] leftward or rightward to select a station.

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

## Switching programmes

1. Press the [**SRC**] button to receive a DAB station.

2. Push the [**SEEK PANEL**] leftward or rightward and hold in position for 1 second or longer to switch programmes in the DAB station.

*Note:*

• *The programme name may be the same depending on DAB programmes.*

## Programme scan

This function scans through each receivable programme in a DAB station being received for 10 seconds sequentially. This is useful when you want to search for a desired programme.

1. Press the [**SRC**] button to receive a DAB station.

2. Perform the following operation depending on the connected model.

   Press the [**OPTION**] button. Push the [**SEEK PANEL**] leftward or rightward to select "**SERVICE SCN**", and then press the [ ▶❙❙ **ENT** ] button. "**SERVICE SCN**" appears in the display and the unit starts scanning each programme for 10 seconds sequentially. Each time the main unit scans, the programme name is shown in the display.

3. To stop programme scan when a desired programme is tuned in.

   Press the [ ▶❙❙ **ENT** ] button.

## Manual memory

The main unit has a manual memory function for DAB programmes. Up to 18 programmes (6 programmes each) can be preset in the preset memory.

   [M1], [M2] and [M3]

1. Press the [**SRC**] button to select the DAB mode.

2. Press and hold the [**MENU**] button for 1 second or longer to select manual tuning mode.

3. Push the [**SEEK PANEL**] leftward or rightward to select a desired programme.

4. Press the [ ▶❙❙ **ENT** ] button to enter the preset memory mode.

5. Press the [**UP**] or [**DN**] button to select a desired programme. Press and hold the [ ►❚❚ **ENT** ] button for 2 seconds or longer to store the programme.

**Note:**
• The interrupt programme (PTY or INFO) cannot be written into a manual memory.

## Recalling a preset programme

1. Press the [**SRC**] button to select the DAB mode.
2. Press the [**MENU**] button. Each time you press the [**MENU**] button, the display changes in the following order:
   [M1] ➜ [M2] ➜ [M3] ➜ [M1]...
3. Press the [**UP**] or [**DN**] button to recall a preset programme.

## INFO (Announcement)

In the INFO standby mode, when the selected announcement programme starts, the main unit switches to the selected announcement programme automatically.

● **Setting the INFO standby mode**
If you press and hold the [**TA**] button for 1 second or longer, "**INFO**" lights in the display and the main unit is set into the INFO standby mode until the selected announcement is broadcast. When the selected announcement broadcast starts, the announcement item appears in the display. If you press and hold the [**TA**] button for 1 second or longer while the selected announcement broadcast is being received, the selected announcement broadcast reception is cancelled and the main unit goes into the INFO standby mode.

● **Cancelling INFO standby mode**
To cancel the INFO standby mode, press and hold the [**TA**] button for 1 second or longer.

● **Information select**
This is a function for selecting INFORMATION ON or OFF in the Information interrupt mode.
You can set ON up to 6 information items.
You can select any of the 6 items below:

| INFORMATION item | |
|---|---|
| **ENGLISH** | **Contents** |
| **TRAVEL** | Transport flash |
| **WARNING** | Warning / Service |
| **NEWS** | News flash |
| **WEATHER** | Area weather flash |
| **EVENT** | Event announcement |
| **SPECIAL** | Special event |

1. Perform the following operation depending on the connected model.
   Press the [**OPTION**] button.
2. Push the [**SEEK PANEL**] leftward or rightward to select "**INFO SELECT**", then press the [ ►❚❚ **ENT** ] button to enter "**INFO SELECT**" mode.
3. Push the [**SEEK PANEL**] leftward or rightward to select an information item. You can select any of 6 items:
   **TRAVEL ➜ WARNING ➜ NEWS ➜ WEATHER ➜ EVENT ➜ SPECIAL ➜ TRAVEL ➜ ...**
4. Press the [**UP**] or [**DN**] button to set the information item for ON or OFF.
5. Press the [ ►❚❚ **ENT** ] button to return to the previous mode.
6. Press the [**OPTION**] button to return to the previous display.

**English**

● **AF function between RDS and DAB**

When the same programme is broadcasted by both RDS and DAB, and this function is ON, the unit switches to receive the broadcast with the better reception automatically.

∗ This function only operates when the DAH923 DAB unit (sold separately) is connected.

∗ The factory default setting is "**ON**".

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

2. Push the [**SEEK PANEL**] leftward or rightward to select "**LINK ACT**".

3. Press the [**UP**] or [**DN**] button to select "**ON**" or "**OFF**".

   • **ON:**

   AF switching between DAB and RDS enabled.

   • **OFF:**

   AF switching between DAB and RDS disabled.

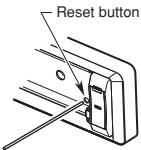4. Press the [**OPTION**] button to return to the previous mode.

**For the following items, see "RDS Operations" on page 17.**

● **AF function**

∗ If the reception of the current broadcast station deteriorates, "**SEARCHING**" appears in the display and the radio searches for the same programme on another frequency.

● **TA (Traffic Announcement)**

● **PTY**

● **Emergency broadcast**

● **Switching the PTY and INFO display language**

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

# 7. IN CASE OF DIFFICULTY

| | 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. | 1. Turn the unit off.<br>2. Remove all wires attached to the power antenna lead. Check each wire for a possible short to ground using an ohm meter.<br>3. Turn the unit back on.<br>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.<br><br>Display is not accurate. | The microprocessor has malfunctioned due to noise, etc. | Turn off the power, then press the [**OPEN**] button and remove the DCP.<br>Press the reset button for about 2 seconds with a thin rod.  — Reset button |
| | | 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. | 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).<br>2. If the sound is muted again, consult our service department. |
| **CD/MP3/WMA/AAC** | No sound heard | MP3/WMA/AAC files are absent in a disc. | Write MP3/WMA/AAC files onto the disc properly. |
| | | Files are not recognized as an MP3/WMA/AAC file. | Use MP3/WMA/AAC files encoded properly. |
| | | File system is not correct. | Use ISO9660 level 1, 2 or JOLIET or Romeo or APPLE ISO 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/AAC files are not encoded properly. | Use MP3/WMA/AAC 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 or APPLE ISO file system. |

| | Problem | Cause | Measure |
|---|---|---|---|
| **USB** | No sound heard | The USB memory device contains no MP3/WMA/AAC files. | Record MP3/WMA/AAC files properly to the USB memory device. |
| | | The files are not proper MP3/WMA/AAC format. | Use only properly encoded MP3/WMA/AAC files. |
| | | Files are DRM copyright protected. | See page 20 for details on how to cancel DRM protection. |
| | | Connectors are loose. | Disconnect the USB memory device and reconnect securely. |
| | Sound is interrupted or has noise. | The MP3/WMA/AAC files are improperly encoded. | Use only properly encoded MP3/WMA/AAC files. |
| | USB memory device isn't recognized. | The USB memory device is damaged. | Disconnect the USB memory device and reconnect. If the device is still not recognized, try replacing with a different USB memory device. |
| | | Connectors are loose. | |
| | Can't insert USB memory device. | The USB memory devices has been inserted improperly. | Try reversing the connection direction of the USB device (usually the brand name surface should be facing left). |
| | | The USB connector is broken. | Replace with a new USB memory device. |

# 8. 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/AAC** | **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. |
| **CD changer** | **ERROR 2** | A CD inside the CD changer is not loaded. | This is a failure of CD changer's mechanism and consult your store of purchase. |
| | **ERROR 3** | A CD inside the CD changer cannot be played due to scratches, etc. | Replace with a non-scratched, non-warped disc. |
| | **ERROR 6** | A CD inside the CD changer cannot be played because it is loaded upside-down. | Eject the disc then reload it properly. |
| **DVD changer** | **ERROR 2** | A DISC inside the DVD changer cannot be played. | This is a failure of DVD mechanism and consult your store of purchase. |
| | **ERROR 3** | A DISC cannot be played due to scratches, etc. | Retry or replace with a non-scratched, non-warped-disc. |
| | **ERROR 6** | A DISC inside the DVD changer cannot be played because it is loaded upside-down. | Eject the disc then reload it properly. |
| | **ERROR P** | Parental level error | Set the correct Parental level. |
| | **ERROR R** | Region code error | Eject the disc and replace correct region code disc. |
| **iPod** | **ERROR 1** | A communication error occurs between the iPod and the iPod CeNET Controller. | Disconnect the iPod, then connect it again. |
| | **NO IPOD** | There is no iPod connected. | Please connect the iPod. |
| **USB** | **ERROR 1** | Device mechanism is damaged. | The unit's mechanism may be damaged. Consult your dealer. |
| | **NO FILE** | USB memory device contains no audio files. | Insert USB memory device containing audio files. |
| | **DSP ERROR** | USB connector is short-circuited or USB memory device is overloaded. | Disconnect USB memory device, then hold [**SRC**] button depressed to turn power OFF. Then press [**SRC**] button once again to turn power ON. |

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.

# 9. 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: 100 dB (1 kHz)
Dynamic Range: 95 dB (1 kHz)
Distortion: 0.01%

## General

Output Power: $4 \times 31$ W (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: 1.6 kg
Remote control unit: 40 g (including battery)
Dimensions:
Main unit:
178 (W) $\times$ 50 (H) $\times$ 158 (D) mm
Remote control unit:
44 (W) $\times$ 113 (H) $\times$ 11 (D) mm

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

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⁄⁄ High-Tech High-Touch ⁄⁄

## » DICHIARAZIONE DI CONFORMITA' «
(D.M. 28 agosto 1995, no548)

### Io, Fabbricante / Mandatario nell'UE

**Clarion Europa GmbH
Hessenring 19-21
64546 Mörfelden-Walldorf**

### Dichiaro che il prodotto

### Autoradio con CD

### DXZ578RUSB

**è conforme alle disposizioni contenute nel suddetto
decreto relativamente alla prevenzione e l'eleminazione
dei disturbi radioelettrici provocati dai ricevitori di
radiodiffusione sonora e televisiva.**

Io, Fabbricante / Mandatario nell'UE

Data   21 Dicembre 2006

**Clarion Europa GmbH
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*Firma*

PBL No 06IRDC002C                    IDCFMTFWLH002C

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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: DXZ578RUSB**
**Product code: PE2903**
**TYPE: 1043053**

(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 **89/336/EEC** 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
**21 DEC 2006**                     President
(Place and date of issue)      (name and signature or equivalent
                                marking of authorized person)

RefNo 06RCDC004C   *D.F.DQC06A169*

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# Clarion Co., Ltd.

2006/12

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