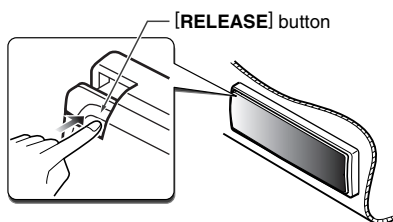# 4. DCP

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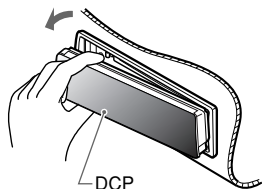
We recommend taking the DCP with you when leaving the car.

Removing the DCP
1. With the SLOPING CONSOLE closed, turn off the power.
2. Press the [**RELEASE**] button deeply to open the DCP.

[**RELEASE**] button

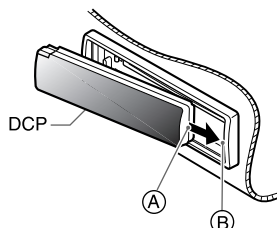3. Pull the DCP toward you and remove it.
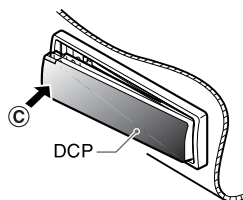

DCP

⚠CAUTION
• **Always close the SLOPING CONSOLE before removing the DCP.**
• **If you remove the DCP with the SLOPING CONSOLE open, the sloping console closes immediately. Be careful not to get your fingers caught.**

Attaching the DCP
1. Insert the DCP so that the Ⓐ section on the right side of the DCP catches on the hook Ⓑ on the unit.

DCP

Ⓐ　Ⓑ

2. Press the left side Ⓒ of the DCP carefully to fit it in place.

Ⓒ

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 [RELEASE] button is pressed and the DCP is not locked into place, it may fall out from vibration of the car. This can break the DCP, so after removing it, either install it on the unit or put it in its DCP case.**
• **The connector connecting the 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.*

5. REMOTE CONTROL

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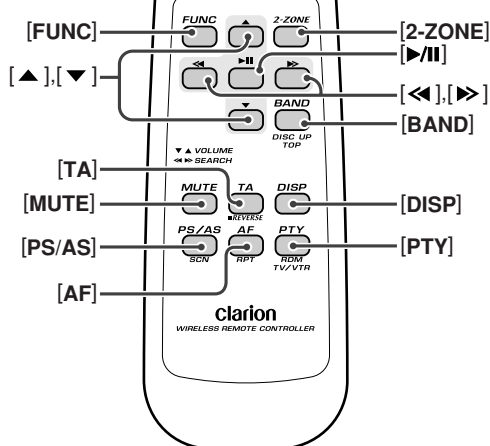
Operating range: 30° in all directions

Signal transmitter

Remote control unit

[**FUNC**]

[▲],[▼]

[**TA**]

[**MUTE**]

[**PS**/**AS**]

[**AF**]

[**2-ZONE**]

[**▶/II**]

[◀◀],[▶▶]

[**BAND**]

[**DISP**]

[**PTY**]

Inserting the Batteries

1. Turn the remote control unit over, then slide the rear cover in the direction of the arrow.

2. Insert the AA (SUM-3, IECR-6/1.5V) batteries that came with the remote control unit facing in the directions shown in the figure, then close the rear cover.

Notes:

Using batteries improperly can cause them to explode. Take note of the following points:

• *When replacing batteries, replace both batteries with new ones.*

• *Do not short-circuit, disassemble or heat batteries.*

• *Do not dispose of batteries into fire or flames.*

• *Dispose of spent batteries properly.*

AA (SUM-3, IECR-6/1.5V) Batteries

Rear cover

Rear side

Functions of Remote Control Unit Buttons

Mode / Button	Radio (RDS) /DAB	CD/MP3/ M.CATCHER	CD changer DVD changer	TV
[**FUNC**]	Switches among radio, DAB, CD/MP3, MC, CD changer, DVD changer, TV and AUX.			
[**BAND**]	Switches reception band.	Plays the first track. Top play.	Moves the next disc in increasing order.	Switches reception band.
[▲] , [▼]	Increases and decreases volume (in all modes).			
[◀◀] , [▶▶]	Moves preset channels up and down.	Moves tracks up and down. When pressed and held for 1 second or longer: Fast-forward/fast-backward.		Moves preset channels up and down.
[▶/II]	No function.	Switches between playback and pause.		No function.
[**MUTE**]	Turns mute on and off.			
[**TA**]	TA on and off.			
[**DISP**]	Switches among main display, clock (CT) display.			
[**PS**/**AS**]	Preset scan. When pressed and held for 2 seconds or longer: Auto store.	Scan play. Press and hold the button for 1 second or longer to perform folder scan play while in the MP3/WMA disc, MC mode.	Scan play. When pressed and held for 1 second or longer: Disc scan play.	Preset scan. When pressed and held for 2 seconds or longer: Auto store.
[**AF**]	AF function on and off. When pressed and held for 1 second or longer: REG function on and off	Repeat play. Press and hold the button for 1 second or longer to perform folder Repeat play while in the MP3/WMA disc, MC mode.	Repeat play. When pressed and held for 1 second or longer: Disc repeat play.	No function.
[**PTY**]	PTY mode on and off.	Random play. Press and hold the button for 1 second or longer to perform folder Random play while in the MP3/WMA disc, MC mode.	Random play. When pressed and held for 1 second or longer: Disc random play.	Switches between TV and VTR.

∗ Some of the corresponding buttons on the main unit and remote control unit have different functions.
∗ [**2-ZONE**] button is not available.

6. OPERATIONS

Basic Operations

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

⚠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 [**FNC**] button.
2. The illumination and display on the unit light up. The unit automatically remembers its last operation mode and will automatically switch to display that mode.
3. Press and hold the [**FNC**] button for 1 second or longer to turn off the power for the unit.

Note:
• *System check*
  *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, "**SYSTEM CHCK**" and "**Push POWER**" appear in the display alternately, so press the [**FNC**] button. The system check starts within the unit. When the system check is complete, press the [**FNC**] button again.*

Selecting a mode

1. Press the [**FNC**] button to change the operation mode.
2. Each time you press the [**FNC**] button, the operation mode changes in the following order:

   Radio mode ➜ DAB mode ➜ CD/MP3 mode ➜ M.CATCHER mode ➜ CD changer mode ➜ DVD changer mode ➜ TV mode ➜ AUX mode ➜ Radio mode...

   ∗ External equipment not connected with CeNET is not displayed.

Adjusting the volume

1. Press the front part of the [**ROTARY**] knob. The knob will pop up.
2. Turning the [**ROTARY**] knob clockwise increases the volume; turning it counterclockwise decreases the volume.

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

Switching the display

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

   Main display ➜ Clock (CT) display ➜ Main display

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

   ∗ For information on how to enter a title, refer to the subsection "**Entering titles**" in section "**Operations Common to Each Mode**".

CT (Clock Time) function

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

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

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

Setting 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.

∗ The factory default setting is off.

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

Note:
• *When "**ADF-1**", "**ADF-2**" or "**ADF-3**" is selected for ADF (Anti Distortion Filter), setting of MAGNA BASS EX cannot be performed.*

Setting the Anti Distortion Filter

The adopted "**Liveliness Enhancement Filter**" and "**Sound Tone Compensation**" functions allow well-modulated realistic playback without affecting the characteristics of the original sound tone.

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

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

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

"ADF-1" ➜ **"ADF-2"** ➜ **"ADF-3"** ➜
"ADF OFF" ...

• ADF-1 : suitable for the genuine speakers
• ADF-2 : suitable for separate speakers
• ADF-3 : suitable for coaxial speakers
• ADF OFF : no sound effect

Notes:
• *The volume changes each time the ADF (Anti Distortion Filter) setting is switched. Turn down the volume and the sub-woofer volume before performing a switching operation.*
• *Sufficient effects cannot be obtained with some speaker systems. In such cases, adjust the volume.*

Adjusting the tone

Press the [**A-M**] button and select the item to adjust. Each time you press the [**A-M**] button, the item changes as following order:

● **When "ADF 1, 2, 3" is set**
  "SW-VOL 0" ➜ **"BALANCE 0"** ➜ **"FADER 0"**
  ➜ **Last function mode.**

● **When "ADF OFF" is set**
  "SW-VOL 0" ➜ **"BASS◀GAIN▶"** ➜
  "TREB◀GAIN▶" ➜ **"BALANCE 0"** ➜
  "FADER 0" ➜ **Last function mode.**

Note:
• *As subwoofer is effective, "**SW-VOL 0**" can be selected.*

Adjusting the Subwoofer

∗ The factory default setting is "**SW-VOL 0**"

∗ This function can be adjusted only when the subwoofer output is set to "**ON**". For details on "**Selecting the Subwoofer**", refer to the section "**Operations Common to Each Mode**" of each owner's manual.

1. Press the [**A-M**] button, "**SW-VOL 0**" appears in the display.

2. Turning the [**ROTARY**] knob to select from –6 to +6.

3. When the adjustment is complete, press the [**A-M**] button several times until the function mode is reached.

Adjusting the bass (Gain, Frequency, Q-curve)

This adjustment can be performed when the ADF (Anti Distortion Filter) is set to "**ADF OFF**".

1. Press the [**A-M**] button and select "**BASS◀GAIN▶**".

2. Turning the [**ROTARY**] knob clockwise emphasizes the bass; turning it counterclockwise attenuates the bass.

   ∗ The factory default setting is "**BASS◀G 0▶**". (Adjustment range: –6 to +8)

3. Press the [**◀◀**] or [**▶▶**] button to select "**BASS◀F 50▶**".

   Turninng the [**ROTARY**] knob clockwise or counterclockwise to select the frequency.

   ∗ The factory default setting is "**BASS◀F 50▶**".(Adjustment 50/80/120 Hz)

4. Press the [**◀◀**] or [**▶▶**] button to select "**BASS◀Q 1▶**".

   Turning the [**ROTARY**] knob clockwise or counterclockwise to select the Q-curve.

   ∗ The factory default setting is "**BASS◀Q 1▶**". (Adjustment 1/1.25/1.5/2)

5. When the adjustment is complete, press the [**A-M**] button several times until the function mode is reached.

Adjusting the treble (Gain, Frequency)

This adjustment can be performed when the ADF (Anti Distortion Filter) is set to "**ADF OFF**".

1. Press the [**A-M**] button and select "**TREB◀GAIN▶**".

Basic Operations

2. Turning the [**ROTARY**] knob clockwise emphasizes the treble; turning it counterclockwise attenuates the treble.

   ∗ The factory default setting is "**TREB◀G 0▶**".
   (Adjustment range: –6 to +6)

3. Press the [**◀◀**] or [**▶▶**] button to select "**TREB◀F 12k▶**".

   Turning the [**ROTARY**] knob clockwise or counterclockwise to select the frequency.

   ∗ The factory default setting is "**TREB◀F 12k▶**".
   (Adjustment 8 kHz/12 kHz)

4. When the adjustment is complete, press the [**A-M**] button several times until the function mode is reached.

Adjusting the balance

1. Press the [**A-M**] button and select "**BAL-ANCE 0**".

2. Turning the [**ROTARY**] knob clockwise emphasizes the sound from the right speaker; turning it counterclockwise emphasizes the sound from the left speaker.

   ∗ The factory default setting is "**BALANCE 0**".
   (Adjustment range: L13 to R13)

3. When the adjustment is complete, press the [**A-M**] button several times until the function mode is reached.

Adjusting the fader

1. Press the [**A-M**] button and select "**FADER 0**".

2. Turning the [**ROTARY**] knob clockwise emphasizes the sound from the front speakers; turning it counterclockwise emphasizes the sound from the rear speakers.

   ∗ The factory default setting is "**FADER 0**". (Adjustment range: F12 to R12)

3. When the adjustment is complete, press the [**A-M**] button several times until the function mode is reached.

Radio Operations

Listening to the radio

1. Press the [**FNC**] button and select the radio mode. The frequency or PS appears in the display.

   ∗ PS: Programme service name

2. Press the [**BND**] button and select the radio band. Each time the button is pressed, the radio reception band changes in the following order:

   FM1 ➔ FM2 ➔ FM3 ➔ AM (MW/LW) ➔ FM1...

3. Press the [**◀◀**] or [**▶▶**] button to tune in the desired station.

Tuning

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

Seek tuning

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

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

1. Press the [**BND**] button and select the desired band (FM or AM (MW, LW)).

2. Tune into a station.

   ∗ If "**MANU**" is lit in the display, press and hold the [**BND**] button for 1 second or longer. "**MANU**" in the display goes off and seek tuning is now available.

   ∗ If "**TA**" is lit in the display, TP stations are automatically sought.

●DX SEEK

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

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

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

●LOCAL SEEK

If you press and hold the [**◀◀**] or [**▶▶**] button for 1 second or longer, local seek tuning is carried out. Broadcast stations with good reception sensitivity are selected.

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

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Manual tuning

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

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

1. Press the [**BND**] button and select the desired band (FM or AM (MW/LW)).

   ∗ If "**MANU**" is not lit in the display, press and hold the [**BND**] button for 1 second or longer. "**MANU**" is lit in the display and manual tuning is now available.

2. Tune into a station.

● **Quick tuning:**

Press and hold the [◀◀] or [▶▶] button for 1 second or longer to tune in a station.

● **Step tuning:**

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

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

Recalling a preset station

A total of 24 preset positions (6-FM1, 6-FM2, 6-FM3, 6-AM) exists to store individual radio stations in memory. Pressing the corresponding [**DIRECT**] button recalls the stored radio frequency automatically.

1. Press the [**BND**] button and select the desired band (FM or AM (MW/LW)).

2. Press the corresponding [**DIRECT**] button to recall the stored station.

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

Manual memory

1. Select the desired station with seek tuning, manual tuning or preset tuning.

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

Auto store

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

1. Press the [**BND**] button and select the desired band (FM or AM (MW/LW)).

2. Press and hold the [**P**/**A**] 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 [**P**/**A**] button.

2. When a desired station is tuned in, press the [**P**/**A**] button again to continue receiving that station.

Note:
• Be careful not to press and hold the [**P/A**] button for 2 seconds or longer, otherwise the auto store function is engaged and the unit starts storing stations.

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.

Switching the display

This allows switching of the indication during RDS reception.

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

2. Each time you press and hold the [**D**] button for 1 second or longer, the main display changes in the following order:

   PS-NAME ⟷ PTY

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**".

● **Switching OFF the AF function**

Press the [**AF**] button. "**AF**" in the display goes off and the AF function turns off.

● **Switching ON the AF function**

Press the [**AF**] button. "**AF**" in the display lights and the AF function turns on.

∗ 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.

● **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 or DAH913 DAB unit, sold separately, is connected.

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

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

2. Press the [◀◀] or [▶▶] button to select "**LINK ACT**".

3. Turning the [**ROTARY**] knob clockwise for "**ON**" or counterclockwise for "**OFF**".

   ● **ON:**

   AF switching between DAB and RDS enabled.

   ● **OFF:**

   AF switching between DAB and RDS disabled.

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

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.

● **Switching the REG function ON**

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

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

● **Switching the REG function OFF**

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

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

Manually tuning a regional station in the same network

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

Note:
• This function can be used when a regional broadcast of the same network is received.

2. Press any one of the [**DIRECT**] buttons to call out the regional station.

3. If the reception condition of the called out station is bad, press the [**DIRECT**] button of the same number. The unit receives a local station on the same network.

TA (Traffic Announcement)

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

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

●**Setting the TA standby mode**

If you press the [**TA**] button when only "**TP**" is lit in the display, "**TP**" and "**TA**" light in the display and the unit is set into the TA standby mode until a traffic announcement is broadcast. When a traffic announcement broadcast starts, "**TRA INFO**" appears in the display. If you press the [**TA**] button while a traffic announcement broadcast is being received, the traffic announcement broadcast reception is cancelled and the unit goes into the TA standby mode.

●**Cancelling the TA standby mode**

As "**TP**" and "**TA**" lit in the display, press the [**TA**] button. The "**TA**" in the display goes off and the TA standby mode is cancelled.

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

●**Searching for a TP station**

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

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

Auto store function for TP stations

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

As "**TA**" lit in the display, press and hold the [**P/A**] 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.

●**Setting the PTY standby mode**

When you press the [▶❚❚] button, "**PTY**" lights in the display and the PTY standby mode is turned on. When the selected PTY broadcast starts, the PTY item name appears in the display.

●**Cancelling the PTY standby mode**

When you press and hold the [▶❚❚] button for 1 second or longer, "**PTY**" goes off in the display and PTY standby mode is cancelled.

●**Cancelling a PTY interrupt broadcast**

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

Selecting PTY

1. When you press the [▶❚❚] button, the unit goes into PTY select mode.

2. Press any one of the [**DIRECT**] buttons. Alternatively, Turning the [**ROTARY**] knob clockwise or counterclockwise to select the desired PTY.

   ∗ Below are the factory default settings stored for the [**DIRECT**] buttons.

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

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

English

PTY seek

1. When you press the [▶️❚❚] button, the PTY select mode is turned on.

2. Select PTY.

3. Press the [◀◀] or [▶▶] button. If you press the [▶▶] button, the unit seeks a PTY broadcast moving up the frequencies; if you press the [◀◀] button, it seeks moving down the frequencies.

   ∗ If no station with the selected PTY broadcast can be received, the unit returns to the previous mode.

PTY preset memory

1. When you press the [▶️❚❚] button, the PTY select mode is turned on.

2. Turning the [**ROTARY**] knob clockwise or counterclockwise to select the desired PTY.

   The 29 types of PTY below can be selected.

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

PTY item				
ENGLISH	**DEUTSCH**	**SVENSKA**	**FRANCAIS**	**Contents**
News	Nachrich	Nyheter	Infos	News
Affairs	Aktuell	Aktuellt	Magazine	Today's events
Info	Service	Info	Services	Information
Sport	Sport	Sport	Sport	Sports
Educate	Bildung	Utbildn	Educatif	Education
Drama	Hör + Lit	Teater	Fiction	Drama
Culture	Kultur	Kultur	Culture	Culture
Science	Wissen	Vetenskp	Sciences	Science
Varied	Unterh	Underh	Divers	Variety
Pop M	Pop	Pop	M Pop	Pop music
Rock M	Rock	Rock	M Rock	Rock music
Easy M	U-Musik	Lättlyss	Chansons	Easy music
Light M	L-Musik	L klass	M Cl Lég	Light music
Classics	E-Musik	Klassisk	Classiq	Classics
Other M	- - Musik	Övrig m	Autre M	Other music
Weather	Wetter	Väder	Météo	Weather
Finance	Wirtsch	Ekonomi	Economie	Finance
Children	Kinder	För barn	Enfants	For children
Social	Soziales	Socialt	Société	Social
Religion	Religion	Andligt	Religion	Religion
Phone In	Anruf	Telefon	Forum	Phone in
Travel	Reise	Resor	Voyages	Travel
Leisure	Freizeit	Fritid	Loisirs	Leisure
Jazz	Jazz	Jazz	Jazz	Jazz
Country	Country	Country	Country	Country
Nation M	Landes M	Nation m	Ch pays	Nation music
Oldies	Oldies	Oldies	Rétro	Oldies
Folk M	Folklore	Folkm	Folklore	Folk music
Document	Feature	Dokument	Document	Documentaries

CD/MP3/WMA Operations

Emergency broadcast

If an emergency broadcast is received, all the function mode operations are stopped. "**ALARM**" appears in the display and the emergency broadcast can be heard.

● **Cancelling an emergency broadcast**

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

Switching the PTY display language

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

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

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

2. Press the [◀◀] or [▶▶] button and select "**LANGUAGE E**".

3. Press the [▶❚❚] button

4. Turning the [**ROTARY**] knob clockwise or counterclockwise to select the desired language.

5. Press the [▶❚❚] button

6. Press the [**T**] 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, Turning the [**ROTARY**] knob clockwise or counterclockwise to set the volume to the desired level (0 to 33).

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

MP3/WMA

What is MP3?

MP3 is an audio compression method and classified into audio layer 3 of MPEG standards. This audio compression method has penetrated into PC users and become a standard format.

This MP3 features the original audio data compression to about 10 percent of its initial size with a high sound quality. This means that about 10 music CDs can be recorded on a CD-R disc or CD-RW disc to allow a long listening time without having to change CDs.

What is WMA?

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

Notes:

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

• *Windows Media™, and the Windows ® logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.*

● **To disable DRM (Digital Rights Management):**

1. When using Windows Media Player 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.

Precautions when creating MP3/WMA disc

● **Usable sampling rates and bit rates:**

1. MP3: Sampling rate 11.025 kHz-48 kHz,

   Bit rate: 8 kbps-320 kbps / VBR

2. WMA: Bit rate 48 kbps-192 kbps

● **File extensions**

1. Always add a file extension "**.MP3**" or "**.WMA**" to MP3 or WMA file by using single byte letters. If you add a file extension other than specified or forget to add the file extension , the file cannot be played.

2. Files without MP3/WMA data will not play. The indication "**—:—**" appears in the play time display if you attempt to play files without MP3/WMA data.

● **Logical format (File system)**

1. When writing MP3/WMA file on a CD-R disc or CD-RW disc, please select "ISO9660 level 1, 2 or JOLIET or Romeo" as the writing software format. Normal play may not be possible if the disc is recorded on another format.

2. The folder name and file name can be displayed as the title during MP3/WMA play but the title must be within 128 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 500 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.

Multisession function

When a disc contains both normal CD type tracks and MP3/WMA type tracks mixedly, you can select which type of the recorded tracks to play.

● **Default value is "CD".**

Each time you press and hold the [**BND**] button for 1 second or longer, the mixed mode is switched between CD type or MP3/WMA type. The following indication appears in the title display when switching the track type to be played.

● **Display when CD type track is selected:**

$$M\text{-}SESS \quad CD$$

↕

● **Display when MP3/WMA type track is selected:**

$$M\text{-}SESS \quad MP3$$

1. Types of recording that can be played are as follows.

Disc \ Setting	Set to CD	Set to MP3/WMA
Mixed with CD and MP3/WMA type tracks	Play CD	Play MP3/WMA
CD type track only	Play CD	Play CD
MP3/WMA type track only	Play MP3/WMA	Play MP3/WMA

2. After making these settings, remove the disc and then reinsert it.

3. When a mixed mode CD is loaded and CD is set, the track to be played first is MP3/WMA file data and no sound is heard.

Note:

• When playing a CCCD (Copy Control CD), set the setting to CD type. When this is set to MP3/WWA type, the CD cannot be played normally in some cases.

Loading a CD

1. Press the [▲] button. The SLOPING CONSOLE opens.

2. Insert a CD into the center of the CD SLOT with the label side facing up. The CD plays automatically after loading.

Notes:

• Never insert foreign objects into the CD SLOT.

• If the CD is not inserted easily, there may be another CD in the mechanism or the unit may require service.

• Discs not bearing the or mark and CD-ROMs cannot be played by this unit.

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

Loading 8 cm compact discs

∗ No adapter is required to play an 8 cm CD.

∗ Insert the 8 cm CD into the center of the insertion slot.

Backup Eject function

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

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

Note:

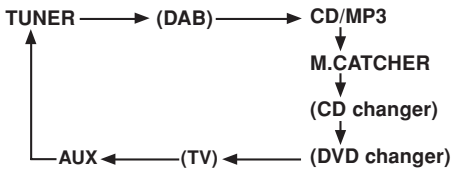• Always close the sloping console after opening it or ejecting the CD.

⚠️CAUTION

- **Be careful not to catch your hand or fingers while closing the SLOPING CONSOLE.**
- **Do not try to put your hand or fingers in the disc insertion slot. Also never insert foreign objects into the slot.**
- **Do not insert discs where adhesive comes out from cellophane tape or a rental CD label, or discs with marks where cellophane tape or rental CD labels were removed. It may be impossible to extract these discs from the unit and they may cause the unit to break down.**

Listening to a disc already loaded in the unit

Press the [**FNC**] button to select the CD/MP3 mode.

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

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

TUNER ⟶ (DAB) ⟶ CD/MP3
↓
M.CATCHER
↓
(CD changer)
↓
AUX ⟵ (TV) ⟵ (DVD changer)

∗ The mode changes each time the [**FNC**] button is pressed. (Modes are not displayed for equipment that is not connected.)

MUSIC CATCHER

In the M.CATCHER mode, the files recorded in the built-in flash memory are played back. Operations for listening to a recording made using MUSIC CATCHER are the same as "**CD/MP3/WMA Operations**". For operations for recoding using MUSIC CATCHER, refer to the section "**MUSIC CATCHER Operations**".

Pausing play

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

Displaying CD titles

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

1. Press the [**D**] button to display the title.
2. Each time you press and hold the [**D**] button for 1 second or longer, the title display changes in the following order:

● **CD-TEXT disc**

User title (disc) ➔ CD-text title (disc) ➔ Artist name ➔ CD-text title (track) ➔ User title (disc)...

● **MP3/WMA disc**

Folder ➔ File ➔ Album TAG ➔ Artist TAG ➔ Title TAG ➔ Folder...

● **M.CATCHER**

Folder ⟷ File

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 disc is not input TAG, "NO TAG" 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. Press the [►►] button to move ahead to the beginning of the next track.
2. Each time you press the [►►] button, the track advances ahead to the beginning of the next track.

● **Track-down**
1. Press the [◄◄] button to move back to the beginning of the current track.
2. Press the [◄◄] button twice to move to the beginning of the previous track.

Fast-forward/fast-backward
● **Fast-forward**

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

● **Fast-backward**

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

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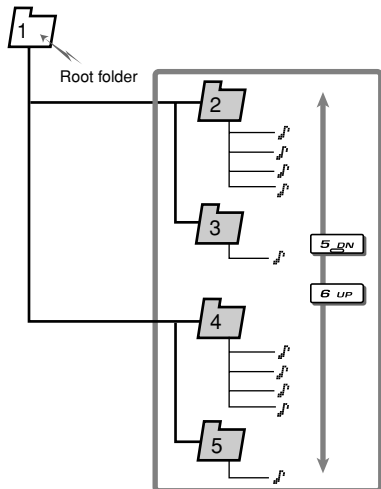
Folder Select

This function allows you to select a folder containing MP3/WMA files and start playing from the first track in the folder.

1. Press the [**UP**] or [**DN**] button.

   Press the [**DN**] button to move to the previous folder.

   Press the [**UP**] button to move to the next folder.

* Press the [**UP**] button while in the final folder to shift to the first folder.
* Folder without an MP3/WMA file is not selectable.

2. To select a track, press the [◀◀] or [▶▶] button.

Top function

The top function resets the CD player to the first track of the disc. Press the [**BND**] button to play the first track (track No. 1) on the disc.

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

Scan play

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

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

   The indication "**SCN**" lights up in the display, and "***TRK SCAN***" (or "*♪-SCAN*" when searching for a track in the MP3/WMA file) appears in the title display for about 2 seconds, then scan play starts.

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

2. To cancel scan play, press the [**SCN**] button again.

   The play status indication such as "**SCN**" disappears from the display and the current track continuous to played.

Folder scan play

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

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

   The indications "**FOLDER**" and "**SCN**" light up in the display and "*▣-SCAN*" appears for about 2 seconds in the title display, and then folder scan play starts.

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

2. To cancel folder scan play, press the [**SCN**] button again.

   The play status indications such as "**FOLDER**" and "**SCN**" disappear from the display and the current track continuous to played.

Repeat play

This function allows you to play the current track repeatedly.

1. Press the [**RPT**] button to perform repeat play.

   The indication "**RPT**" lights up in the display and "***TRK REPEAT***" (or "*♪-REPEAT*" when performing repeated play for a track in the MP3/WMA file) appears for about 2 seconds in the title display, and then repeat play starts.

2. To cancel repeat play, press the [**RPT**] button again.

   The play status display such as "**RPT**" disappears from the display and normal play resumes from the track currently being played.

Folder repeat play

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

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

   The indications "**FOLDER**" and "**RPT**" light up in the display and "*▣-REPEAT*" appears for about 2 seconds in the title display, and then folder repeat play starts.

2. To cancel folder repeat play, press the [**RPT**] button again.

The play status indications such "**FOLDER**" and "**RPT**" disappear from the display and normal play resumes from the track currently being played.

Random play

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

1. Press the [**RDM**] button to perform random play.

The indication "**RDM**" lights up in the display and "***TRK RANDOM***" (or "*♪-RANDOM*" when performing random play for tracks on a MP3/WMA disc) appears in the title display for about 2 seconds, and then random play starts. The tracks on the disc are then played in a random order.

2. To cancel random play, press the [**RDM**] button again.

The play status indication such as "**RDM**" disappears from the display and normal play resumes from the track currently being played.

Folder random play

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

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

The indications "**FOLDER**" and "**RDM**" light up in the display and "*▉-RANDOM*" appear in the title display for about 2 seconds, and then folder random play starts.

2. To cancel folder random play, press the [**RDM**] button again.

The play status indications such as "**FOLDER**" and "**RDM**" disappear from the display and normal play resumes from the track currently being played.

Play list mode

This function allows you to play tracks, up to latest 5 time stamps, by reading the play list information written on the disc.

1. Press and hold the [**PLAY LIST**] button for 1 second or longer to turn on or off the play list mode.

* Play list play is possible only when there is a file whose extension is "**.M3U**" on the CD-R/RW.

* Up to 5 play lists can be recognized, and up to 255 files can be recognized per play list.

2. Press the [◀◀] or [▶▶] button to change the track.

3. Press the [**DN**] button to move to the previous play list.

Press the [**UP**] button to move to the next play list.

Notes:
• The SCN/RPT/RDM functions cannot be used while in the play list mode.
• The title display changes from folder name to play list name.

Making a play list

1. Write desired tracks to a CD-R/RW, etc. Be sure to use alphanumeric/ASCII characters for all file names.

2. Make a play list by using a multimedia player, etc. and save the data. The file format must be M3U.

3. Again, write this play list to the CD-R/RW, etc.

Notes:
• When writing to a CD-R/RW, etc., be sure to use alphanumeric/ASCII characters.
• Up to 5 layers can be recognized as a list. For written play lists, latest 5 lists are recognized in the order in which they are written.
• When writing to a CD-R/RW, etc., turn off the Disc At Once function.
• When adding a play list, it is recommended to write it in the "**Root**" folder.

MUSIC CATCHER Operations

Setting a recording mode

The recording mode for MUSIC CATCHER can be switched between the following 2 modes:

- HQ (High Quality) MODE: about 265 minutes
- LP (Long Play) MODE: about 353 minutes

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

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button and select "**MC-REC MODE**".
3. Turning the [**ROTARY**] knob clockwise or counterclockwise and select "**HQ**" or "**LP**".
4. Press the [**T**] button to return to the previous mode.

Setting RDS interrupt during recording

The RDS or DAB interrupt function can be switched on or off during recording using MUSIC CATCHER.

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

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button and select "**RDS-INT REC**".
3. Turning the [**ROTARY**] knob clockwise or counterclockwise and select "**ON**" or "**OFF**".

   ● **ON:**

   When "**ON**" is selected, recording is suspended at the occurrence of an RDS interrupt during recording. (The output is switched to RDS audio.)

   ● **OFF:**

   When "**OFF**" is selected, recording continues even at the occurrence of an RDS interrupt during recording. (RDS audio is not output.)

Notes:

- *At the occurrence of an emergency broadcast (alarm interrupt), recording is suspended even when RDS interrupt is set to "OFF".*
- *When TEL interrupt is set to "ON", recording is suspended even when RDS interrupt is set to "OFF". To avoid this, set the "TEL-SWITCH" setting to "OFF" or disconnect the cellular phone from the unit.*
- ∗ For details on "**Cellular phone interrupt setting**", refer to the section "**Operations Common to Each Mode**" of each owner's manual.

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

Notes on recording using MUSIC CATCHER:

- Recording operations are to be performed in the CD/MP3 mode.
- Recordable media are CD-DAs only.
- Discs (CD-R/CD-RW) created by copying on a music recorder cannot be recorded.
- MP3/WMA discs cannot be recorded.
- Some CDs may show a subtractive time indication in the area between tracks when they are played back. A between-tracks area is not recorded in such a CD.
- In recording using MUSIC CATCHER, some amount of silent time is created between the tracks.
- If the disc contains some tracks that have been already recorded, the other tracks are recorded.
- Folder and file names are added automatically during recording. These folder and file names cannot be changed. (The file names correspond to the track Nos. on the CD.)
- If the disc is not recordable, "**NO REC DISC**" shows on the display.
- If the disc contains some tracks previously recorded, "**INCLUDED**" shows on the display.
- If there is no empty folder available, "**FOLDER FULL**" shows on the display.
- When the memory capacity is used up, "**MEMORY FULL**" shows on the display and recording is canceled.
- Recording cannot be performed during SCN, RPT, and RDM. In such cases, "**BUSY**" shows on the display.
- The [▶❚❚], [◀◀], [▶▶], [**BND**] and [**SCN/PRT/RDM**] buttons are invalid during recording. When these buttons are pressed, "**INVALID**" shows on the display.

Recording operation (REC function)

Recording using MUSIC CATCHER is performed in the CD/MP3 mode and the following 2 recording modes are available: "**TRACK REC**" to record only one track currently being played back and "**DISC REC**" to record all tracks on the CD.

● **TRACK REC**

1. Press the [**FNC**] button to select the CD/MP3 mode.

2. Play back a track to be recorded and press the [**REC**] button. Then, the "**REC**" indicator on the display and the [**REC**] button blink, "**TRACK REC**" shows on the title display for 2 seconds, and recording starts.

   ∗ When recording is complete, the "**REC**" indicator goes off and "**REC DONE**" shows on the display for 2 seconds.

● **DISC REC**

1. Press the [**FNC**] button to select the CD/MP3 mode.

2. Play back a CD to be recorded and press and hold the [**REC**] button for 2 seconds or longer. Then, the "**REC**" indicator on the display and the [**REC**] button blink, "**DISC REC**" shows on the display for 2 seconds, and recording starts.

   ∗ When recording is complete, the "**REC**" indicator goes off and "**REC DONE**" shows on the display for 2 seconds.

Canceling recording

1. To suspend recording, press the [**REC**] button again. Then, recording is canceled.

   The display shows "**CANCELED**" for 2 seconds and then the playback of the CD continues.

Notes:
- *Recording also can be canceled by pressing the [FNC] or [▲] button.*
- *When recording is canceled, the file that has been recorded incompletely is deleted.*

Erasing operation (ERASE function)

Erasing recordings made using MUSIC CATCHER is performed in the M.CATCHER mode and the following 3 erasing modes are available.

"**FILE ERASE**"   : erase only one file.

"**FOLDER ERASE**"   : erase the whole folder.

"**ALL ERASE**"   : erase all the contents of the flash memory.

1. Press the [**FNC**] button to select the M.CATCHER mode.

2. Each time you press the [**ERASE**] button, the display switches in the following order:

   FILE ERASE ➜ FLD ERASE ➜ Normal mode

Notes:
- *When a selected file or folder is erased, the approximate recordable time is shown (the recordable time shown varies according to the set recording mode).*
- *Do not turn off the power to the unit or switch the operation mode during erasing recordings.*

● **FILE ERASE**

1. Press the [**FNC**] button to select the M.CATCHER mode.

2. Play back a file to be erased, and press the [**ERASE**] button to select "**FILE ERASE**".

3. While "**FILE ERASE**" is showing on the display, press and hold the [▶❙❙] button for 2 seconds or longer. The title display shows "**ERASING**" as the file currently being played back is erased.

● **FOLDER ERASE**

1. Press the [**FNC**] button to select the M.CATCHER mode.

2. Play back any track of the folder to be erased, and press the [**ERASE**] button to select "**FLD ERASE**".

3. While "**FLD ERASE**" is showing on the display, press and hold the [▶❙❙] button for 2 seconds or longer. The title display shows "**ERASING**" as the folder currently being played back is erased.

● **ALL ERASE**

1. Press the [**FNC**] button to select the M.CATCHER mode.

2. Press the [**ERASE**] button for 2 seconds or longer to select "**ALL ERASE**".

3. While "**ALL ERASE**" is showing on the display, press and hold the [▶❙❙] button for 2 seconds or longer. The title display shows "**ERASING**" as ALL ERASE is executed.

Remaining capacity of the memory

By pressing the [**REC**] button while in the M.CATCHER mode, the remaining capacity of the flash memory can be displayed for 4 seconds as an approximate recordable time in "**MM (minute): SS (second)**".

The title display shows "**AVIL. 123:45**".

Note:
- *The recordable time shown varies according to the set recording mode*

Operations Common to Each Mode

Turning the screen saver function on or off

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

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

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

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**SCRN SVR** ▤".
3. Press the [▶❙❙] button.
4. Turning the [**ROTARY**] knob clockwise or counterclockwise to select the setting. Each time you turning the [**ROTARY**] knob, the setting changes in the following order:
   OFF ➜ ON ➜ MESSAGE
5. Press the [**T**] button to return to the previous mode.

Entering MESSAGE INFORMATION

When the use of the message is selected for the screen saver setting, you can change the contents of the message.

∗ Up to 30 characters can be entered.

∗ The factory default setting is "**Welcome to Clarion**".

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button and select "**MSG INPUT** ▤".
3. Press the [▶❙❙] button.
4. Press the [◀◀] or [▶▶] button to move the cursor.
5. Press the [**D**] button to select a character. Each time you press the [**D**] button, the character changes in the following orders:
   Capital letters ➜ Small letters ➜ Numbers/ Symbols ➜ Umlaut ➜ Capital letters…
6. Turning the [**ROTARY**] knob to select the desired character.

7. Repeat step 4 to 6 to enter up to 30 characters for message.
8. Press and hold the [▶❙❙] button for 2 seconds or longer to store the message in memory and cancel input message mode.
   ∗ Press the [**BND**] button can cancel the input message. Then press and hold the [▶❙❙] button for 2 seconds or longer to store the message and the message return to default setting.
9. Press the [**T**] button to return to the previous mode.

Message display

When the unit is powered on or off, a message is displayed. The user can turn this message display ON or OFF.

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

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**MESSAGE**".
3. Turning the [**ROTARY**] knob clockwise or counterclockwise to set the message display "**ON**" or "**OFF**".
4. Press the [**T**] button to return to the previous mode.

Setting the method for title scroll

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

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

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button and select "**AUTO SCROLL"**.
3. Turning the [**ROTARY**] knob clockwise or counterclockwise and select "**ON**" or "**OFF**".
   ● **ON:**
   To scroll automatically.
   ● **OFF:**
   To scroll just 1 time when the title was changed or the title key was pressed.
4. Press the [**T**] button to return to the previous mode.

Dimmer control

You can setting the dimmer control "**ON**" or "**OFF**".

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

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

2. Press the [◀◀] or [▶▶] button to select "**DIM-MER**".

3. Turning the [**ROTARY**] knob clockwise or counterclockwise and select "**ON**" or "**OFF**".

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

Dimmer in control

You can setting the dimmer in control AUTO or ILLUMI.

∗ The factory default setting is "**DMR-IN AUTO**".

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

2. Press the [◀◀] or [▶▶] button to select "**DIM-MER IN**".

3. Turning the [**ROTARY**] knob clockwise or counterclockwise and select "**DMR-IN AUTO**" or "**DMR-IN ILLM**".

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

Adjusting the display contrast

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

∗ The factory default setting is "**8**". (Adjustment level:1to 16)

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

2. Press the [◀◀] or [▶▶] button to select "**CONTRAST**".

3. Turning the [**ROTARY**] knob clockwise or counterclockwise to adjust the contrast.

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

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**".

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

2. Press the [◀◀] or [▶▶] button and select "**BLINK LED**".

3. Turning the [**ROTARY**] knob clockwise to set this function "**ON**" or turn it counterclockwise to switch this function "**OFF**".

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

Setting the Subwoofer

∗ The factory default setting is "**SUB-W ON**".

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

2. Press the [◀◀] or [▶▶] button and select "**SUB-WOOFER**".

3. Turning the [**ROTARY**] knob clockwise or counterclockwise and select "**ON**" or "**OFF**".

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

Setting LOW PASS FILTER

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

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

2. Press the [◀◀] or [▶▶] button and select "**SUB-W LPF**".

3. Turning the [**ROTARY**] knob clockwise or counterclockwise to select the setting. Each time you turning the [**ROTARY**] knob, the setting changes in the following order:

   THRGH ➔ 50 Hz ➔ 80 Hz ➔ 120 Hz

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

Setting the external amplifier

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

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

2. Press the [◀◀] or [▶▶] button and select "**AMP CANCEL**".

3. Turning the [**ROTARY**] knob clockwise or counterclockwise and select "**ON**" or "**OFF**".

   ● **ON:**

   Use with connected AMP.

   ● **OFF:**

   Use with inside AMP.

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

AUX function

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

Selecting AUX/TEL

You can listen to sounds and music from external devices or your telephone calls from the speakers when connected to this unit.

When TEL INT or External device is connected to this unit, you can select TEL mode or AUX mode.

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

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

2. Press the [◀◀] or [▶▶] button and select "**AUX/TEL**".

3. Turning the [**ROTARY**] knob clockwise or counterclockwise as needed and select from "**AUX**" or "**TEL**".

   ● **AUX** :

   AUX/TEL input cable is for external Audio input.

   ● **TEL** :

   AUX/TEL input cable is for cellular phone audio input.

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

Selecting AUX IN sensitivity

Make the following settings to select the sensitivity when sounds from external devices connected to this unit are difficult to hear even after adjusting the volume.

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

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

2. Press the [◀◀] or [▶▶] button and select "**AUX SENS**".

3. Turning the [**ROTARY**] knob clockwise or counterclockwise as needed and select from "**LOW**", "**MID**" or "**HIGH**".

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

Setting the car speaker output for the cellular phone (Optional TEL-002)

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

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

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

2. Press the [◀◀] or [▶▶] button to select "**TEL-SPEAKER**".

3. Turning the [**ROTARY**] knob clockwise to select "**RIGHT**" or counterclockwise to select "**LEFT**".

   ● **RIGHT:**

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

   ● **LEFT:**

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

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

Cellular phone interrupt setting

If you connect this unit and your cellular phone with a separately sold unit (TEL-002), you can listen to your telephone calls on your car speakers.

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

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

2. Press the [◀◀] or [▶▶] button to select "**TEL-SWITCH**".

3. Turning the [**ROTARY**] knob clockwise or counterclockwise to select the setting. Each time you turning the [**ROTARY**] knob, the setting changes in the following order:

   OFF ➜ ON ➜ MUTE ➜ OFF...

   ● **OFF:**

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

Note:

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

● **ON:**

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

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

● **MUTE:**

The sound from this unit is muted during telephone calls.

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

Setting the button illumination

Press the [**COLOR**] button to select a color type. Each time you press the [**COLOR**] button, the type changes in the following orders:

COLOR SCAN ➜ RED ➜ MANDARIN ➜ ORANGE ➜ AMBER ➜ YELLOW ➜ G-YELLOW ➜ LIME ➜ GREEN ➜ D-GREEN ➜ USER ➜ COLOR SCAN…

● **Setting COLOR SCAN mode**

As selecting "**COLOR SCAN**", the color automatically changes.

∗ The factory default setting is "**COLOR SCAN**".

∗ After 3 seconds the color changes to the other.

● **Setting USER mode**

The factory default setting is "**R>8 G>8**".

As selecting "**USER**", press and hold the [**COLOR**] button for 1 second or longer "**R>8 G>8**" appears in the display.

1. Press the [◀◀] or [▶▶] button to move the cursor.

2. Turning the [**ROTARY**] knob clockwise or counterclockwise to select from 0 to 8.

3. Press and hold the [▶❚❚] button for 2 seconds or longer to store the color in memory and cancel setting mode.

COLOR	R	G
RED	8	0
MANDARIN	8	1
ORANGE	8	2
AMBER	8	5
YELLOW	8	8
G-YELLOW	6	8
LIME	4	8
GREEN	2	8
D-GREEN	0	8
USER	8	8

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
CDC655Tz connected	100 titles
CDC1255z connected	50 titles

1. Press the [**FNC**] 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 [**D**] button and display the main.

4. Press the [**T**] button.

5. Press the [◀◀] or [▶▶] button to move the cursor.

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

   Capital letters ➜ Small letters ➜ Numbers/Symbols ➜ Umlaut ➜ Capital letters...

7. Turning the [**ROTARY**] knob to select the desired character.

8. Repeat steps 5 to 7 to enter up to 10 characters for the title.

9. Press and hold the [▶❚❚] button for 2 seconds or longer to store the title into memory and cancel title input mode.

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 [**D**] button and display the main.

3. Press the [**T**] button and switch the display to the title input display.

4. Press the [**BND**] button.

5. Press and hold the [▶❚❚] button for 2 seconds or longer to clear the title and cancel title input mode.

7. OPERATIONS OF ACCESSORIES

CD Changer Operations

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

∗ If "**NO MAGAZINE**" 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.

Pausing play

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

2. To resume play, press the [▶❙❙] button again.

Displaying CD titles

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

∗ Title data for CD-text CDs can be displayed with this unit only when it is connected to CDC655Tz.

● **When connected to DCZ628 or CDC1255z.**

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

● **When connected to CDC655Tz**

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

2. Each time you press and hold the [**D**] button for 1 second or longer, the title display changes in the following order:

User title (disc) ➜ CD-text title (disc) ➜ Artist name ➜ CD-text title (track) ➜ User title (disc)…

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 a CD-text CD is not input its disc title or a track title, "**NO TITLE**" appears in the display.

Procedure to scroll a title

Set "**SCROLL**" to "**ON**" or "**OFF**".

(The factory default setting is "**ON**". Refer to the subsection "**Turning the screen saver function on or off**" in section "**Operation common to each mode**".)

● **When set to "ON"**

The title is automatically kept scrolling.

● **When set to "OFF"**

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

Selecting a CD

Press the [**UP**] or the [**DN**] button to select the desired disc.

∗ If a CD is not loaded in a slot of magazine, pressing the [**UP**] or the [**DN**] button cannot work.

Selecting a track

● **Track-up**

1. Press the [▶▶] button to move ahead to the beginning of the next track.

2. Each time you press the [▶▶] button, the track advances ahead to the beginning of the next track.

● **Track-down**

1. Press the [◀◀] button to move back to the beginning of the current track.

2. Press the [◀◀] button twice to move to the beginning of the previous track.

Fast-forward/fast-backward
● **Fast-forward**

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

● **Fast-backward**

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

Scan play
Scan play locates and plays the first 10 seconds of each track on a disc automatically. This function continues on the disc until it is cancelled.

∗ The scan play is useful when you want to select a desired track.

1. Press the [**SCN**] button to start track scanning. "**SCN**" lights in the display.

2. To cancel the scan play, press the [**SCN**] button again. "**SCN**" goes off from the display and the current track continues to play.

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 and hold the [**SCN**] button for 1 second or longer. "**DISC**" and "**SCN**" light in the display and disc scan play starts.

2. To cancel disc scan play, press the [**SCN**] button again. "**DISC**" and "**SCN**" go off from the display and the current track continues to play.

Repeat play
Repeat play continuously plays the current track. This function continues automatically until it is cancelled.

1. Press the [**RPT**] button. "**RPT**" lights in the display and the current track is repeated.

2. To cancel repeat play, press the [**RPT**] button again. "**RPT**" goes off from the display and normal play resumes.

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 and hold the [**RPT**] button for 1 second or longer. "**DISC**" and "**RPT**" light in the display and disc repeat play starts.

2. To cancel disc repeat play, press the [**RPT**] button again. "**DISC**" and "**RPT**" go off from the display and normal play resumes on the current track.

Random play
Random play selects and plays individual tracks on the disc in no particular order. This function continues automatically until it is cancelled.

1. Press the [**RDM**] button. "**RDM**" lights in the display and random play begins.

2. To cancel random play, press the [**RDM**] button again. "**RDM**" goes off from the display and normal play resumes.

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 and hold the [**RDM**] button for 1 second or longer. "**DISC**" and "**RDM**" light in the display and disc random play starts.

2. To cancel disc random play, press the [**RDM**] button again. "**DISC**" and "**RDM**" go off from the display and normal play resumes from the current track.

TV Operations

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 [**FNC**] button and select the TV mode.

2. Press the [**BND**] 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. Press the [◀◀] or [▶▶] button 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 [▶❚❚] button to select VTR.

2. To return to the TV broadcast, press the [▶❚❚] button.

Tuning

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

Seek tuning

1. Press the [**BND**] button and select the desired TV band (TV1 or TV2).

   ∗ If "**MANU**" is lit in the display, press and hold the [**BND**] button for 1 second or longer. "**MANU**" in the display goes off and seek tuning is now available.

2. Press the [◀◀] or [▶▶] button to automatically seek a station. Press the [▶▶] button to automatically tune up the frequency band to the next available TV station; press the [◀◀] button to automatically tune down.

Manual tuning

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

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

1. Press the [**BND**] button and select the desired band (TV1 or TV2).

   ∗ If "**MANU**" is not lit in the display, press and hold the [**BND**] button for 1 second or longer. "**MANU**" lights in the display and manual tuning is now available.

2. Tune into a station.

● **Quick tuning:**

   Press and hold the [◀◀] or [▶▶] button for 1 second or longer to tune in a station.

● **Step tuning:**

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

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

Recalling a preset station

A total of 12 TV stations can be stored (6-TV1 and 6-TV2). This allows you to select your favorite TV stations and store them in memory for later recall.

1. Press the [**BND**] button and select the desired TV band (TV1 or TV2).

2. To recall a stored TV station, press the desired [**DIRECT**] button to select that station.

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

Manual memory

1. Select the desired station with seek tuning, manual tuning or preset tuning.

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

Auto store

Auto store selects 6 TV stations automatically and stores each one into preset memory.

If there are not 6 stations with good reception, stations previously stored in memory remain and only the strong stations are stored into memory.

1. Press the [**BND**] button and select the desired TV band (TV1 or TV2).

2. Press and hold the [**P/A**] button for 2 seconds or longer. The stations with good reception are stored automatically to the preset channels.

Digital Radio / DAB Operations

Preset scan

Preset scan allows the user to view each preset position before it automatically advances to the next preset. This function is useful for searching for a desired TV station in memory.

1. Press the [**P**/**A**] button.

2. When the desired station is found, press the [**P**/**A**] button again to remain tuned to that station.

Note:

• *Do not press and hold the [P/A] button for 2 seconds or longer. Doing so will trigger the auto store function and start storing stations into memory.*

Setting the TV area

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

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

2. Press the [◀◀] or [▶▶] button to select "**TV AREA** 🗉".

3. Press the [▶❙❙] button.

4. Turning the [**ROTARY**] knob clockwise or counterclockwise to select the reception area.

5. Press the [▶❙❙] button.

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

2. Press the [◀◀] or [▶▶] button to select "**TV DIVER**".

3. Turning the [**ROTARY**] knob clockwise to set to "**ON**" or counterclockwise to set to "**OFF**".

● **ON:**

Sets the diver setting to ON.

● **OFF:**

Sets the diver setting to OFF.

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

DAB control function

When a CeNET cable is used to connect a DAB (DAH913 or DAH923) (sold separetely), all functions can be operated.

Listening to the DAB station

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

2. When the unit receives a DAB station, the display changes in the following order:

Frequency channel ➜ service label

Switching the display

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

2. Each time you press the [**D**] button, the display switches in the following order:

S-LABEL ↔ PTY

Notes:

• *The display shown in the normal reception mode and the preset reception mode is the same 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 [**FNC**] button to select the DAB mode.

2. Press and hold the [◀◀] or [▶▶] button 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 [**FNC**] button to select the DAB mode.

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

3. Press the [◀◀] or [▶▶] button 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.

English

Switching programmes

1. Press the [**FNC**] button to receive a DAB station.
2. Press the [◀◀] or [▶▶] button 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 [**FNC**] button to receive a DAB station.
2. Perform the following operation depending on the connected model.

   Press the [**P/A**] button. "**SERVICE SCN**" lights up 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 [**P/A**] 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 buttons.

   [M1], [M2] and [M3]

1. Press the [**FNC**] button to select the DAB mode.
2. Press the [**BND**] button to select any one shown above.
3. Press the [◀◀] or [▶▶] button to select a desired programme.
4. Press and hold one of the [**DIRECT**] buttons (1 to 6) 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 [**FNC**] button to select the DAB mode.
2. Press the [**BND**] button. Each time you press the [**BND**] button, the display changes in the following order:

   [M1] ➜ [M2] ➜ [M3] ➜ [M1]...
3. Press one of the [**DIRECT**] buttons to recall a preset programme.

Note:
• *Press and hold the [**DIRECT**] button for 2 seconds or longer to store the programme currently being received. (Manual memory)*

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**"
∗ If the reception of the current broadcast station deteriorates, "**SEARCH**" appears in the display and the radio searches for the same programme on another frequency.
∗ For details on "**AF function**", refer to the section "**RDS operation**" of each owner's manual.

● **Switching OFF the AF function**

● **Switching ON the AF function**

● **AF function between RDS and DAB**

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

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. 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 DAB or RDS broadcast station being received has traffic announcement programmes.
∗ For details on "**TA**", refer to the section "**RDS operation**" of each owner's manual.

● **Setting the TA standby mode**

● **Cancelling the TA standby mode**

● **Searching for a TP station**

Notes:
• If a TP station is not received, the main unit stops the search operation.
• "**TP**" may be lit in the display when a TP broadcast is transmitted from an RDS station. In this case, press the [**TA**] button to perform TP seek tuning. Press the [**TA**] button again to return to the previous mode.

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 and hold the [**T**] button for 1 second or longer.
2. Press the [◀◀] or [▶▶] button to select "**INFO SEL** ▤", then press the [▶❚❚] button to enter "**INFO SEL**" mode.
3. Press the [◀◀] or [▶▶] button to select an information item. You can select any of 6 items:
   Travel ➜ Warning ➜News ➜ Weather ➜ Event ➜ Special ➜ Travel ➜ ...
4. Turning the [**ROTARY**] knob clockwise or counterclock wise to set the information item for ON or OFF.
5. Press the [▶❚❚] button to store the setting.
6. Press the [**T**] button to return to the previous display.

PTY

This function enables you to listen to the selected programme type, irrespective of the function mode.

∗ One common PTY can be selected for DAB or RDS.
∗ Of DAB PTY and RDS PTY, the PTY which is received earlier takes priority over the other.
∗ PTY broadcasts are not yet available in all countries.
∗ In the INFO standby mode, INFO stations have priority over PTY stations.
∗ In the TA standby mode, TP stations have priority over PTY stations.
∗ For details on "**PTY**", refer to the section "**RDS operation**" of each owner's manual.

● **Setting the PTY standby mode**
● **Cancelling the PTY standby mode**
● **Cancelling a PTY interrupt broadcast**
● **Selecting PTY**
● **PTY seek**
● **PTY preset memory**

Emergency broadcast

When an emergency broadcast is received, all the function mode operations are stopped. "**ALARM**" appears in the display and the emergency broadcast can be heard.

∗ For details on "**Emergency broadcast**", refer to the section "**RDS operation**" of each owner's manual.

● **Cancelling an emergency broadcast**

English

Switching the PTY and INFO display language

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

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

∗ For details on "**Switching the PTY display language**", refer to the section "**RDS operation**" of each owner's manual.

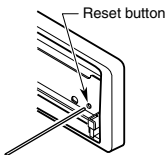### Volume setting of TA, INFO, emergency broadcast (ALARM) and PTY

The volume for TA, INFO, ALARM and PTY interrupts can be set during TA, INFO, ALARM and PTY interrupt. Perform the following operation depending on the connected model.

∗ The factory default setting is "**15**".

During a TA, INFO, ALARM or PTY interrupt, turning the [**ROTARY**] knob clockwise or counterclockwise to set the volume to a desired level (0 to 33).

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

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8. 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. 2. Remove all wires attached to the power antenna lead. Check each wire for a possible short to ground using an ohm meter. 3. Turn the unit back on. 4. Reconnect each amplifier remote wire to the power antenna lead one by one. If the amplifiers turn off before all wires are attached, use an external relay to provide remote-on voltage (excessive current required).
	Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Turn off the power, then press the [**RELEASE**] button and remove the DCP. Press the reset button for about 2 seconds with a thin rod. Reset button
		DCP or main unit connectors are dirty.	Wipe the dirt off with a soft cloth moistened with cleaning alcohol.
CD/MP3/WMA	No sound heard.	There is a disc other than a compact disc or foreign matter already in place.	With the sloping console open, press and hold the [⏏] button for 3 seconds or longer. The foreign matter is forcibly ejected.
		MP3/WMA files are absent in a disc.	Write MP3/WMA files onto the disc properly.
		Files are not recognized as an MP3/WMA file.	Use MP3/WMA files encoded properly.
		File system is not correct.	Use ISO9660 level 1, 2 or JOLIET or Romeo file system.
	Sound skips or is noisy.	Disc is dirty.	Clean the disc with a soft cloth.
		Disc is heavily scratched or warped.	Replace with a disc with no scratches.
	Sound is cut or skipped. Noise is generated or noise is mixed with sound.	MP3/WMA files are not encoded properly.	Use MP3/WMA files encoded properly.

	Problem	Cause	Measure
CD/MP3/WMA	Sound is bad directly after power is turned on.	Water droplets may form on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with the power on.
	Wrong filename	File system is not correct.	Use ISO9660 level 1, 2 or JOLIET or Romeo file system.
	Play list play is not performed.	File name or extension is not correct.	Use alphanumeric/ASCII characters for MP3/WMA file name. Use "**.M3U**" for the file extension of a play list.

9. ERROR DISPLAYS

If an error occurs, one of the following displays is displayed.

Take the measures described below to eliminate the problem.

	Error Display	Cause	Measure
CD/MP3/WMA	**ERROR 2**	A DISC is caught inside the CD deck and is not ejected.	This is a failure of CD deck's mechanism and consult your store of purchase.
	ERROR 3	A DISC cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped-disc.
	ERROR 6	A DISC is loaded upside-down inside the CD deck and does not play.	Eject the disc then reload it properly.
M.CATCHER	**ERROR 7**	The format of the flash memory is damaged.	Execute ALL ERASE on the flash memory, and the problem is solved.
	ERROR 8	There is a failure with the flash memory.	Turn POWER/ACC off and then turn it on again, and the problem is solved. If not solved, executed ALL ERASE on the flash memory, and the problem is solved.
	ERROR 9	An error during recording, scratch on the disc, or error due to sound skips	Turn POWER/ACC off and then turn it on again, or eject the CD. The problem is solved.
General	**AMP GUARD**	The speaker protection circuit is operating. During this operation, if any volume operation is performed, the display shows "**AMP GUARD**".	1. Turn down sound volume. Function can also be restored by turning the power off and on again. (Speaker volume is reduced automatically when the speaker protection circuit operates). 2. If the sound is muted again, consult our service department.
CD changer	**ERROR 2**	A DISC 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 DISC inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	A DISC inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.

	Error Display	Cause	Measure
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.

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.

10. 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) IHFA

Dynamic Range: 95 dB (1 kHz)

Distortion: 0.01%

MC mode

HQ:
  Approximately 265 minutes, 66 tracks
  (4 minutes for each)

LP:
  Approximately 353 minutes, 88 tracks
  (4 minutes for each)

General

Output Power: 4×31 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)

Auto Antenna Rated Current: 500 mA or less

Weight:
  Main unit: 1.7 kg
  Remote control unit: 80 g (including battery)

Dimensions:
  Main unit :
      178 (W) $\times$ 50 (H) $\times$ 155 (D) mm
  Remote control unit :
      44 (W) $\times$ 110 (H) $\times$ 27 (D) mm

Note:

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