

Before Reading these Instructions

You can operate this unit by pressing buttons on the main unit and the remote control unit.

■ These instructions describe buttons that are concerned with operations as follows.

Example: Press [P-SET "] or [P-SET #]/["] or [#].

[buttons on the main unit]/[remote control unit]

■ Some operations can be activated by pressing buttons only on main unit or remote control unit.

Those cases are described in the instructions.

Example: Press [OPEN] on the main unit.

Remote Control Unit Preparation

Battery Installation

① Remove the battery holder.

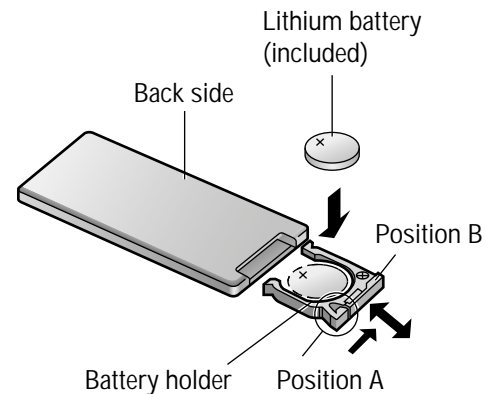
Pull the battery holder by the position B while pushing position A in the direction indicated by the arrow.

② Install the battery on the battery holder.

Set a new battery properly with its "+" side facing up as shown in the figure.

③ Insert the battery holder.

Push the battery holder back into its original position.



Battery Notes

Remove and dispose of an old battery immediately.

Battery Information:

- Battery type: Panasonic lithium battery (CR2025) (included)
- Battery life: Approximately 6 months with normal use (at room temperature)

Caution:

- Improper use of batteries may cause overheating, an explosion or ignition, resulting in injury or a fire. Battery leakage may damage the unit.

- Do not disassemble or short the battery. Do not throw a battery into a fire.
- Keep batteries away from children to avoid the risk of accidents.
- Be careful to observe proper local disposal rules when you dispose of batteries.

Point the remote control unit at the main unit's sensor.

General

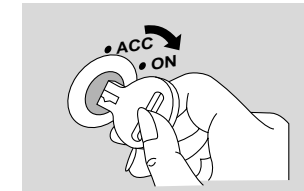
1 Power

Turn the key in the ignition until the accessory indicator lights.

ON: Press [SRC] (PWR)/[SOURCE] (POWER).

OFF: Press and hold [SRC] (PWR)/[SOURCE] (POWER) again for more than 1 second.

- After turning off the ignition key, a security message is displayed, and the panel removable alarm that reminds you to take the panel is activated. (When security function is set to on → page 28)



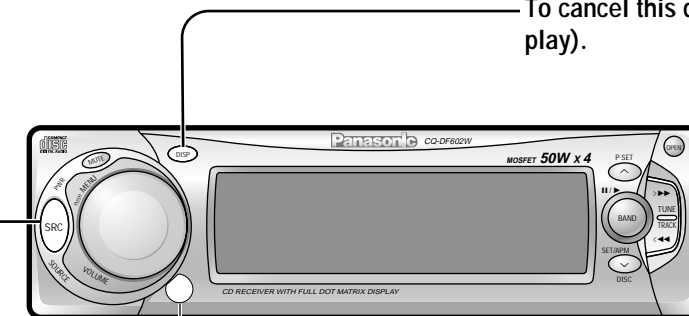
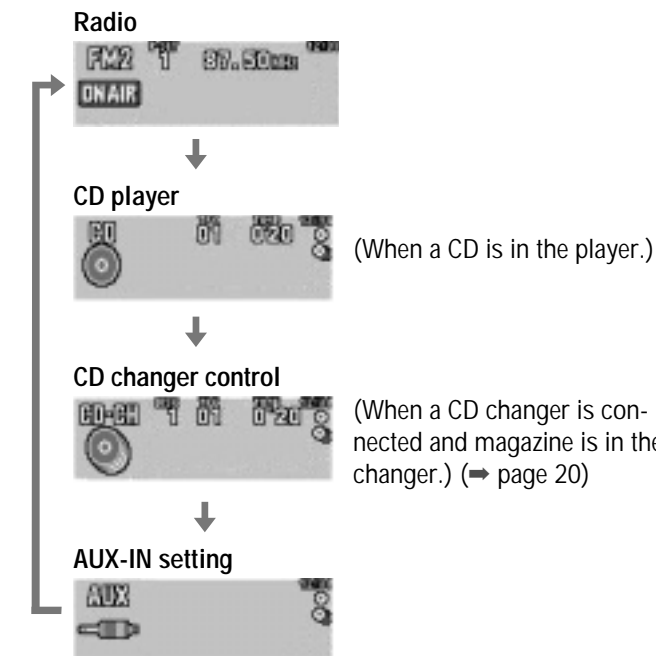
Note:

- When the power is switched on for the first time, a demonstration message appears on the display.

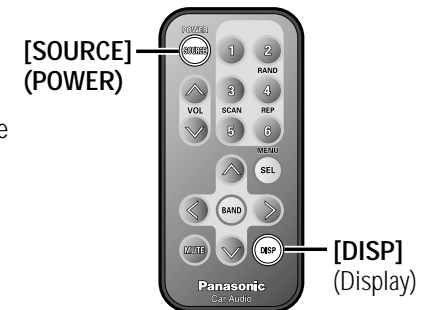
To cancel this display, press [DISP] (display).

2 Source

Press [SRC] (SOURCE)/[SOURCE] to change the source.



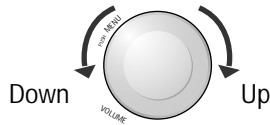
Remote control signal sensor



General (Continued)

Volume

On the main unit:
Turn [VOLUME] dial
Clockwise: Up
Counterclockwise: Down



On the remote control unit:
[VOL "]: Up
[VOL #]: Down



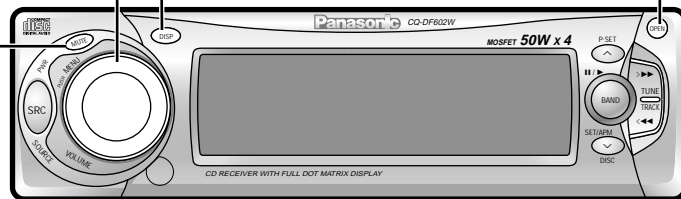
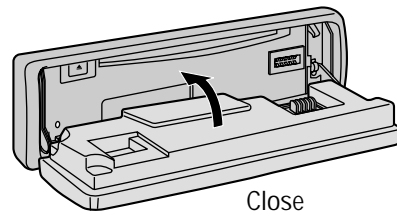
Setting range:
0 to 40

Note:

- The sound level for each source is stored in memory.
(There is one volume setting for AM radio band and one volume setting for FM radio band.)

Open/Close the Front Panel

OPEN: Press [OPEN] on the front panel.
CLOSE: Raise the panel by hand.



Mute/Attenuation

ON: Press [MUTE].
OFF: Press again.

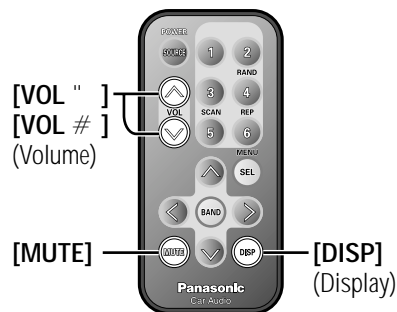


: No sound.



: Decrease the volume to 1/10.

Decreasing volume range depends on setting.
(⇒ page 28)



Caution:

- To avoid damaging the front panel, do not push it down or place objects on it while it is open.
- Do not pitch your finger or hand in the front panel.
- Do not insert foreign matter into the disc slot.

Display Change

When Power is ON

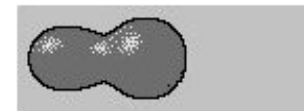
Press [DISP] (display).



Mode display



Mode and spectrum analyzer display



Spectrum Analyzer (S-A) display

If you press a button, the mode and spectrum analyzer display appear for 5 seconds.



Mode and clock display



Display and light off (when it is turned on.)

If you press a button, the light is turned on, the mode display appears for 5 seconds, and the light is turned off again.

Press and hold [DISP] (display) for more than 2 seconds.

- The audio indicator is displayed and returns to the previous display.
- When the indicator lights, the audio function (S-HDB/SUB-W) is now activated.



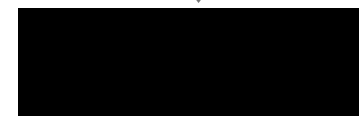
Press [DISP] (display) again to cancel.

When Power is OFF

Press [DISP] (display).



Clock display



Display and light off

Note:

- Set the Spectrum Analyzer (S-A) display pattern in a separate procedure. (⇒ page 26)
- **ADJUST** : Displays before adjusting the clock. (⇒ page 28)

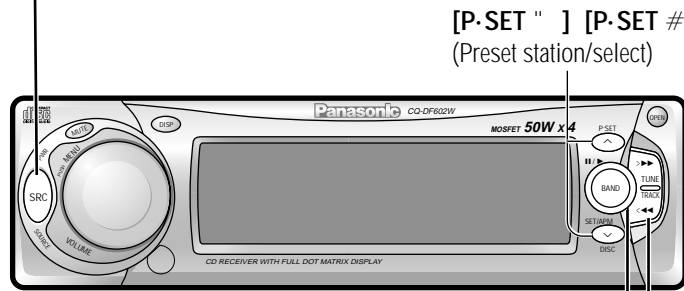
Radio

1 Radio Mode

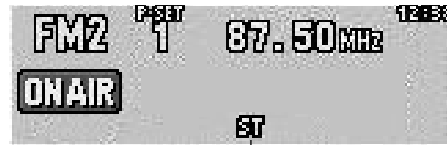
Press [SRC] (SOURCE)/[SOURCE] to change to the radio mode.

Caution:

- To ensure safety, never attempt to preset stations while you are driving.



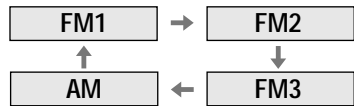
[P-SET "] [P-SET #] Radio mode display
(Preset station/select)



FM stereo indicator

2 Band

Press [BAND] to change the band.

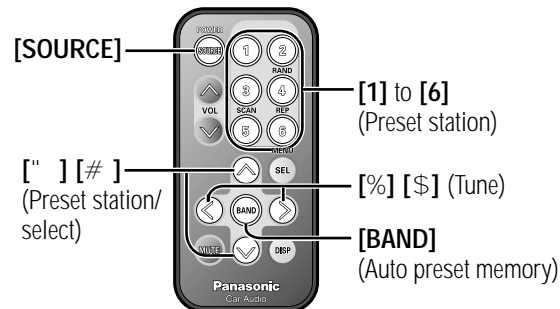


3 Tuning

[TUNE \$]/[\$]: Up
[TUNE %]/[%]: Down
Press and hold [TUNE \$] or [TUNE %]/[\$] or [%] for more than 0.5 seconds, then release. Seeking will start.

Note:

- When pressing [MENU] in radio mode, the following display appears. This is because radio mode does not have any menu settings.



One-Touch Selection of a Preset Station

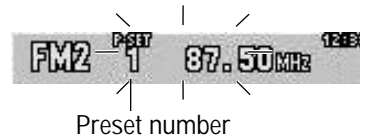
Up to 6 stations each can be saved in the FM1, FM2, FM3 and AM preset station memories.

Manual Preset Memory

Manually save a station in the preset memory.

- ① Select a band and frequency (steps ①, ② and ③ on the previous page).
- ② Press and hold [P-SET "] or [P-SET #]/["] or [#] for more than 2 seconds until the preset number blinks.
- ③ Press [P-SET "] or [P-SET #]/["] or [#] to select a preset number (1–6).
- ④ Press and hold [P-SET "] or [P-SET #]/["] or [#] for more than 2 seconds to memorize.

- The display blinks once, and a receiving station is saved in the memory.



Note:

- Frequency setting can be performed even after selecting a preset number.

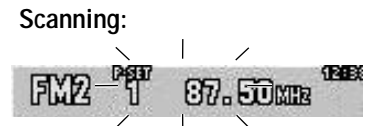
Entering numbers directly on the remote control unit

- ① Select a band and frequency (step ①, ② and ③ on the previous page).
- ② Press and hold [1] to [6] for more than 2 seconds to memorize.

Auto Preset Memory (APM)

Automatically save relatively strong stations in the preset memory.

- ① Select a band (steps ① and ② on the previous page).



- ② Press and hold [BAND] (APM) for more than 2 seconds.
- The 6 strongest available stations will be automatically saved in the memory under preset number 1 to 6.
 - Once set, the preset stations are sequentially scanned for 5 seconds each. (Scanning)
 - Press [P-SET "] or [P-SET #]/["] or [#] for the broadcast you want to listen to. (Press [1] to [6] on the remote control unit.)

Note:

- Existing saved stations are overwritten with new stations after following this procedure.

Preset Station Calling

- ① Select a band (steps ① and ② on the previous page).
- ② Press [P-SET "] or [P-SET #]/["] or [#] to select the preset number for tuning in the preset station. (Press [1] to [6] on the remote control unit.)

CD Player

Disc Insert and Playback

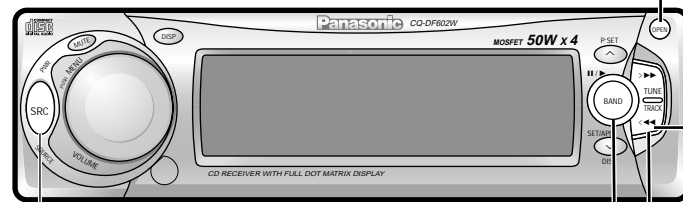
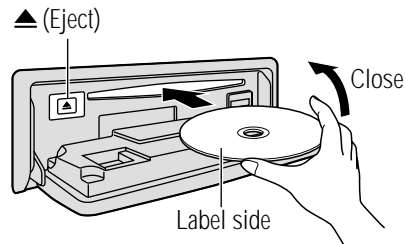
1 Open the front panel.

Press [OPEN] on the front panel.

2 Insert the disc.

Playback will start automatically after the unit recognized the loaded disc as an ordinary music CD. (When a CD-R or CD-RW which has CD-DA formatted data as the same as an ordinary music CD is loaded, this unit recognizes it as an ordinary music CD.)

Close the front panel manually.

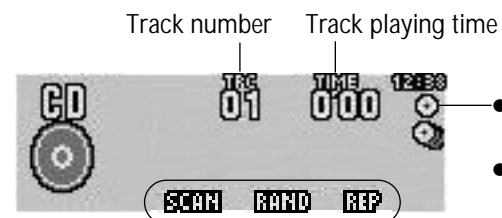


[SRC] (SOURCE)

Note:

- Loading a disc when the power is off allows the power to be turned on.

CD player mode display



- Do not insert a disc when this indicator lights.
- Lights when the disc is loaded/played.

Scan, random and repeat indicator

Stop and Disc Eject

- 1 Press [OPEN] on the front panel.
- 2 Press [▲] (eject) to stop CD play and eject the disc.

Note:

- Ejecting the disc when the unit is in the CD player mode allows the power to be turned off.

Caution:

- Only 12 cm CD, CD-DA data recorded CD-R and CD-RW discs are available for this unit.
- This unit does not support CD text display.
- This unit does not support MP3 disc playback.
- Refer to page 35 about notes on CD-Rs/RWs.
- To avoid damaging the front panel, do not push it down or place objects on it while it is open.
- Do not use irregular shaped discs.
- Do not use discs that have a seal or label attached.
- Do not insert foreign matter into the disc slot.

Listening to a CD

CD Player Mode

(When CD is in the player.)

Press [SRC] (SOURCE)/[SOURCE] to change to CD player mode.

Playback will start automatically.

Track Selection

[TRACK ►►]/[/\$]: Advance to the next track.

[TRACK ◀◀]/[%]: Back to the beginning of the current track.

Back to the previous track.

(Press twice.)

Track Search

Press and hold.

[TRACK ►►]/[/\$]: Fast forward

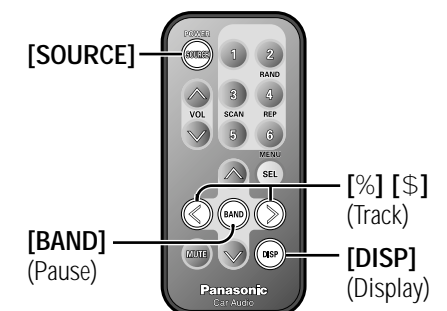
[TRACK ◀◀]/[%]: Fast backward

Release to resume the regular play.

Pause

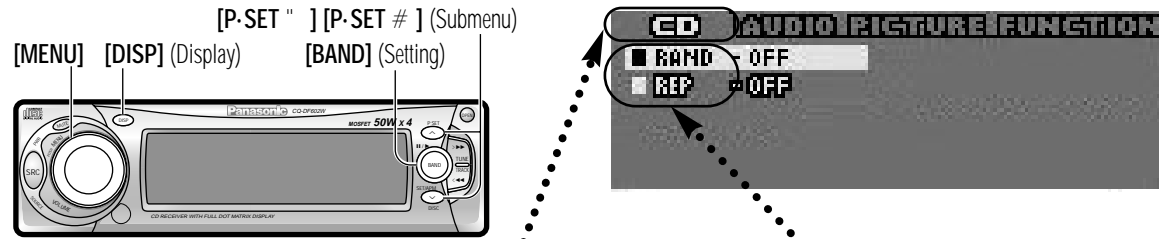
Press [BAND] (||/►).

Press [BAND] (||/►) again to cancel.



CD Player (Continued)

Menu Setting on CD Player Mode



1 Menu

2 Submenu

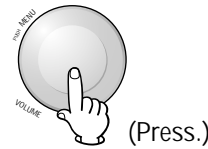
Random Play

Default: OFF

Repeat Play

Default: OFF

Press [MENU]/[SEL] (MENU) during CD playing to display "CD" tab.



Press [P-SET "] or [P-SET #]/["] or [#] to select **RAND**.

Press [P-SET "] or [P-SET #]/["] or [#] to select **REP**.

3 Setting

Press [BAND] (SET) to change setting.

ON : All the available tracks plays in a random sequence.

OFF : Cancel

Press [BAND] (SET) to change setting.

ON : Repeat the current track.

OFF : Cancel

Note:

- Operations except setting should be performed after returning to the mode display.
- Press [MENU], [DISP] (display) to return to the regular mode.

Direct setting on the remote control unit when the menu is not displayed

Press [4] (RAND) to change setting.



Press [6] (REP) to change setting.



Only for the remote control unit

When the menu is not displayed

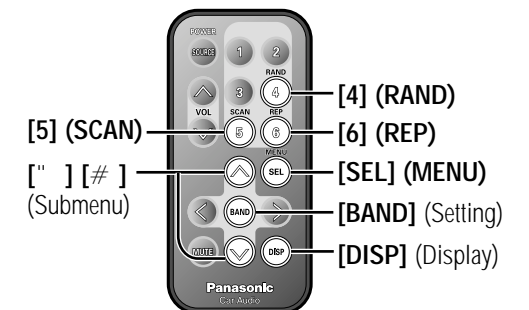
Scan Play

Default: SCAN OFF

Press [5] (SCAN) to change setting.

SCAN ON : The first 10 seconds of each track plays in sequence.

SCAN OFF : Cancel



CD Changer Control

CD changer functions are designed for optional Panasonic CD changer unit.

Preparation:

- Connect the CD changer, and load a magazine (disc).

Note:

- Loading a magazine when the power is off allows the power to be turned on.
- Ejecting the magazine when the unit is in the CD changer mode allows the power to be turned off.
- This unit does not support CD-ROM, CD-R or CD-RW playback through the CD changer. Use the CD changer to listen to normal music CD exclusively.
- This unit does not support CD text display of the CD changer control.
- Pausing does not function in the CD changer mode.

1 CD Changer Mode

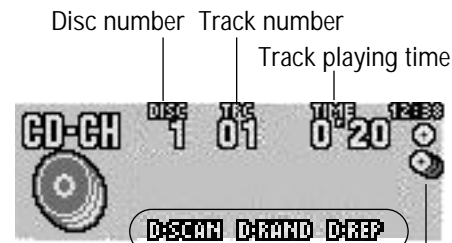
(When a CD changer is connected and a magazine is in the changer.)

Press [SRC] (SOURCE)/[SOURCE] to change to CD changer mode.
Playback starts automatically.

Note:

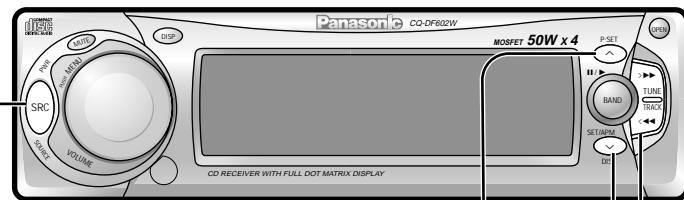
- **NO DISC** : Load a magazine with CDs.
- **MAGAZINE EJECT** : Magazine is ejected in the CD changer mode.

CD changer mode display



Scan, random and repeat indicator

- Lights when the changer (magazine) is connected.
- Lights when the disc is played.



2 Disc Selection

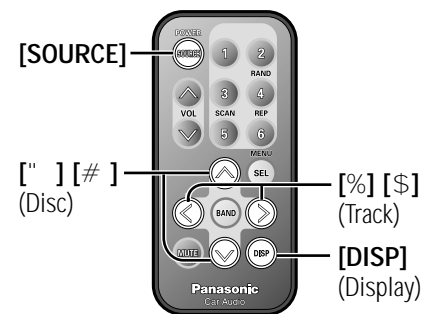
[DISC "]/["]: Next disc.
[DISC #]/[#]: Previous disc.

3 Track Selection

[TRACK ►►]/[\$]: Advance to the next track.
[TRACK ◀◀]/[%]: Back to the beginning of the current track.
Back to the previous track.
(Press twice.)

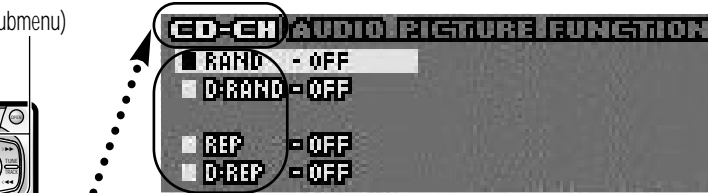
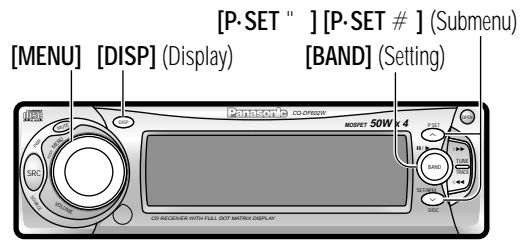
Track Search

Press and hold.
[TRACK ►►]/[\$]: Fast forward
[TRACK ◀◀]/[%]: Fast backward
Release to resume the regular play.



CD Changer Control (Continued)

Menu Setting on CD Changer Mode



1 Menu

2 Submenu

Random Play

Default: OFF

Disc Random Play

Default: OFF

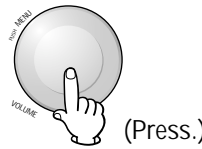
Repeat Play

Default: OFF

Disc Repeat Play

Default: OFF

Press [MENU]/[SEL] (MENU) during CD changer playing to display "CD-CH" tab.

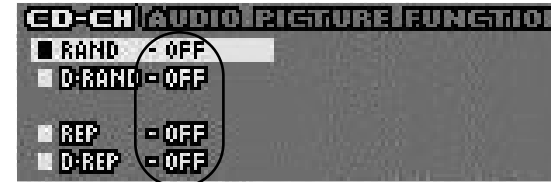


Press [P-SET "] or [P-SET #]/["] or [#] to select **RAND**.

Press [P-SET "] or [P-SET #]/["] or [#] to select **D-RAND**.

Press [P-SET "] or [P-SET #]/["] or [#] to select **REP**.

Press [P-SET "] or [P-SET #]/["] or [#] to select **D-REP**.



3 Setting

Press [BAND] (SET) to change setting.

- ON** : All the available tracks on all discs in the magazine plays in a random sequence.
- OFF** : Cancel

Press [BAND] (SET) to change setting.

- ON** : All the available tracks on the current disc plays in a random sequence.
- OFF** : Cancel

Press [BAND] (SET) to change setting.

- ON** : Repeat the current track.
- OFF** : Cancel

Press [BAND] (SET) to change setting.

- ON** : Repeat the current disc.
- OFF** : Cancel

Note:

- Operations except setting should be performed after returning to the mode display.
- Press [MENU], [DISP] (display) to return to the regular mode.

Direct setting on the remote control unit when the menu is not displayed

Press [4] (RAND) to change setting.



Press and hold [4] (RAND) for more than 2 seconds to change setting.



Press [6] (REP) to change setting.



Press and hold [6] (REP) for more than 2 seconds to change setting.



Only for the remote control unit

Scan Play

Default: SCAN OFF

Disc Scan Play

Default: DISC SCAN OFF

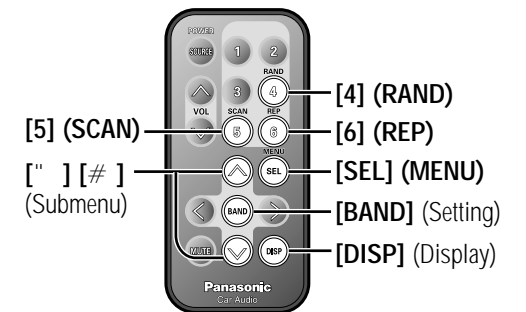
When the menu is not displayed

Press [5] (SCAN) to change setting.

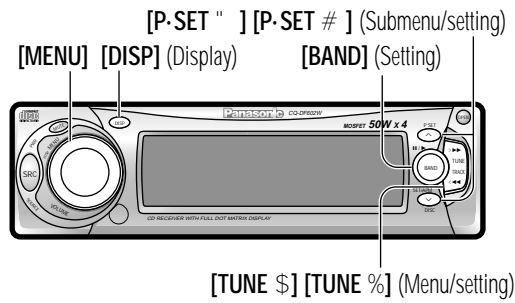
- SCAN ON** : The first 10 seconds of each track on all discs plays in sequence.
- SCAN OFF** : Cancel

Press and hold [5] (SCAN) for more than 2 seconds to change setting.

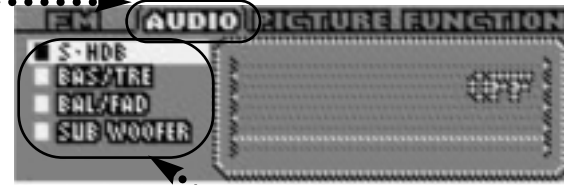
- DISC SCAN ON** : The first 10 seconds of the first track of all the discs plays in sequence.
- DISC SCAN OFF** : Cancel



Audio Settings [AUDIO]



Audio menu display



1 Menu

2 Submenu

S-HDB (Super High Definition Bass)

Especially for rock music, the bass-sound will be more powerful.
 Default: OFF
 Setting range: OFF, BOOM, TIGHT

Bass and Treble

You can adjust the bass and treble sound.
 Default: BAS (Bass) 0
 TRE (Treble) 0
 Setting range: -12 to +12 (by 2 steps)

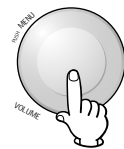
Balance and Fader

You can adjust the sound balance among the front, rear, right and left speakers.
 Default: BAL (Balance) Center
 FAD (Fader) Center
 Setting range: 15 levels each

Subwoofer Level

You can change the subwoofer volume level.
 Default: 0
 Setting range: -∞ (Subwoofer mute), -6 to +6 (by 2 steps)

① Press [MENU]/[SEL] (MENU).



(Press.)

② Press [TUNE \$] or [TUNE %]/[\$] or [%] to select "AUDIO" tab.

- ① Press [P-SET "] or [P-SET #]/["] or [#] to select **S-HDB**.
- ② Press [BAND] (SET) to set.

- ① Press [P-SET "] or [P-SET #]/["] or [#] to select **BAS/TRE**.
- ② Press [BAND] (SET) to set.

- ① Press [P-SET "] or [P-SET #]/["] or [#] to select **BAL/FAD**.
- ② Press [BAND] (SET) to set.

- ① Press [P-SET "] or [P-SET #]/["] or [#] to select **SUB WOOFER**.
- ② Press [BAND] (SET) to set.

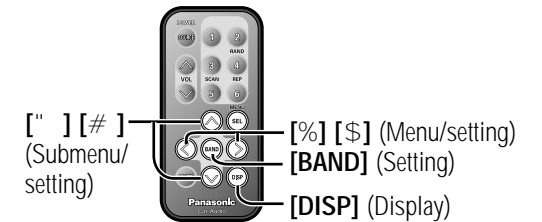
3 Setting

Press [P-SET "] or [P-SET #]/["] or [#] to change setting.

- BOOM** : The bass sounds of the speakers are strongly emphasized.
- TIGHT** : The bass sounds of the speakers are moderately emphasized. (The sounds of the subwoofer can be heard clearly.)
- OFF** : S-HDB is non-active.

Note:

- Operations except setting should be performed after returning to the mode display.
- Press [MENU], [DISP] (display) to return to the regular mode.



- BAS (Bass)** ① Press [TUNE \$] or [TUNE %]/[\$] or [%] to select "BAS".
 ② Press [P-SET "]/["]: Increase the bass.
 Press [P-SET #]/[#]: Decreases the bass.



- TRE (Treble)** ① Press [TUNE \$] or [TUNE %]/[\$] or [%] to select "TRE".
 ② Press [P-SET "]/["]: Increases the treble.
 Press [P-SET #]/[#]: Decreases the treble.

- BAL (Balance)** Press [TUNE \$]/[\$]: Right enhanced.
 Press [TUNE %]/[%]: Left enhanced.



- FAD (Fader)** Press [P-SET "]/["]: Front enhanced.
 Press [P-SET #]/[#]: Rear enhanced.

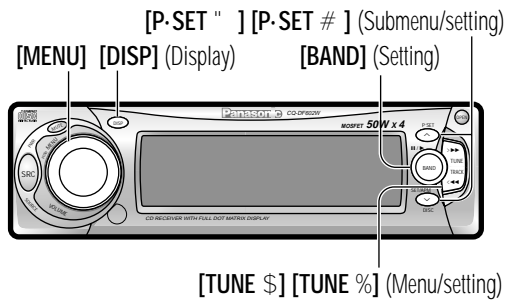
Press [TUNE \$]/[\$]: Increase the level.
 Press [TUNE %]/[%]: Decrease the level.



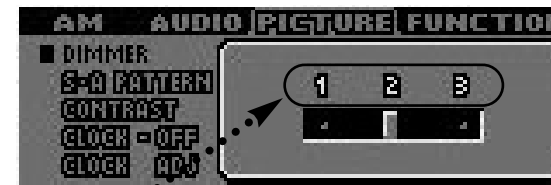
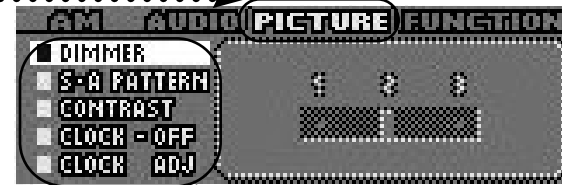
Note:

- When subwoofer level is set "-∞", the indicator (SUB-W) is not shown on the audio indicator display. (⇒ page 13)

Picture (Display) Settings [PICTURE]



Picture (display) menu display



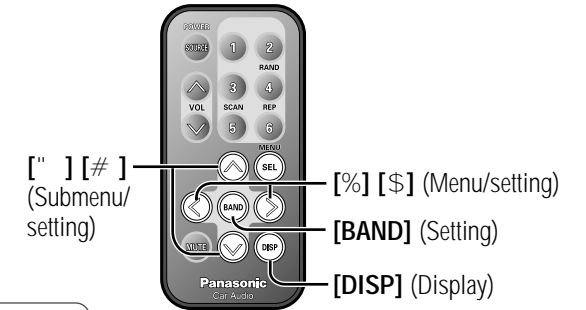
1 Menu

2 Submenu

3 Setting

Note:

- Operations except setting should be performed after returning to the mode display.
- Press [MENU], [DISP] (display) to return to the regular mode.



Dimmer (display brightness setting range)

Default: 3
Setting range: 1 to 3

- 1 Press [P-SET "] or [P-SET #]/["] or [#] to select **DIMMER**.
- 2 Press [BAND] (SET) to set.

Press [TUNE \$] or [TUNE %]/[\$] or [%] to change setting.

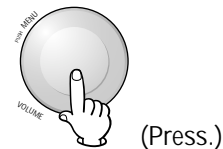
3 : Bright **2** : Medium **1** : Dark



Spectrum Analyzer (S-A) Display Pattern

Default: Pattern A
Variety: 6 types

- 1 Press [MENU]/[SEL] (MENU).



- 1 Press [P-SET "] or [P-SET #]/["] or [#] to select **S-A PATTERN**.
- 2 Press [BAND] (SET) to set.

Press [TUNE \$] or [TUNE %]/[\$] or [%] to change setting.

- | | |
|--|--|
| A : Display showing a cube that continues to change. | D : Display showing a text pattern. |
| B : Display showing a globe that continues to change. | E : Display showing the image of a circuit. |
| C : Display showing the image of a soccer. | STD : Standard spectrum analyzer display (9 bands). |

Note:

- Change the display to show the Spectrum Analyzer (S-A) display. (→ page 13)



Contrast

Allows you to adjust the display contrasts for better viewing.

Default: 3
Setting range: 1 to 5

- 2 Press [TUNE \$] or [TUNE %]/[\$] or [%] to select "PICTURE" tab.

- 1 Press [P-SET "] or [P-SET #]/["] or [#] to select **CONTRAST**.
- 2 Press [BAND] (SET) to set.

Press [TUNE \$]/[\$]: Decreases the contrast.

Press [TUNE %]/[%]: Increases the contrast.



Increase Decrease

Clock on the Mode Display

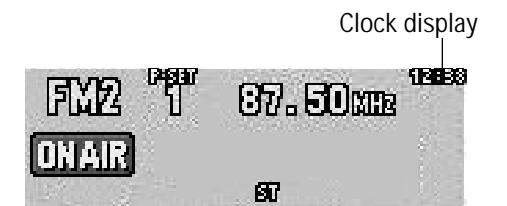
Default: ON
("---:--" will appear before adjusting the clock.)
(Clock adjustment → page 28)

- 1 Press [P-SET "] or [P-SET #]/["] or [#] to select

- CLOCK-OFF**
- CLOCK-ON**

- 2 Press [BAND] (SET) to set.

- ON** : Clock display ON
- OFF** : Clock display OFF



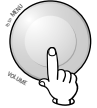
Clock display

Clock Basics

Clock Adjustment

(24 hour system)
Default: "ADJUST" (not adjusted.)

1 Menu

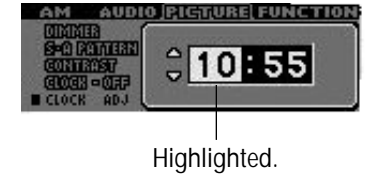
- Press **[MENU]/[SEL]** (MENU).
 (Press.)
- Press **[TUNE \$]** or **[TUNE %]/[\$]** or **[%]** to select "PICTURE" tab.

2 Submenu

- Press **[P-SET "]** or **[P-SET #]/["]** or **[#]** to select **■ CLOCK ADJ**.
- Press **[BAND] (SET)** to set.

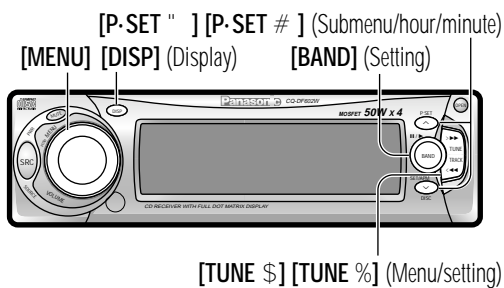
3 Setting

- Hours set.**
- [TUNE %]/[%]**: The hour display highlights.
 - [P-SET "]/["]**: Put forward.
[P-SET #]/#]: Put back.
- Minutes set.**
- [TUNE \$]/[\$]**: The minutes display highlights.
 - [P-SET "]/["]**: Put forward.
[P-SET #]/#]: Put back.
- Press **[BAND] (SET)** to set.



Highlighted.

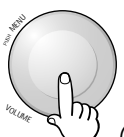
Function Settings [FUNCTION]



Function menu display



1 Menu

- Press **[MENU]/[SEL]** (MENU).
 (Press.)

- Press **[TUNE \$]** or **[TUNE %]/[\$]** or **[%]** to select "FUNCTION" tab.

2 Submenu

Press **[P-SET "]** or **[P-SET #]/["]** or **[#]** to select **■ MUTE KEY**.

Press **[P-SET "]** or **[P-SET #]/["]** or **[#]** to select **■ S-LED**.

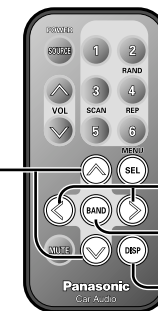
3 Setting

Press **[BAND] (SET)** to change setting.

- MUTE**: No sound.
- ATT**: Decrease the volume to 1/10. (Attenuation)

Note:

- Operations except setting should be performed after returning to the mode display.
- Press **[MENU]**, **[DISP]** (display) to return to the regular mode.



Mute/Attenuation

You can select how much to lower the volume when **[MUTE]** is pressed.
Default: MUTE

Security Function

The security indicator blinks when the removable face plate is removed from the unit.
Default: ON

Press **[BAND] (SET)** to change setting.

- ON**: Security function is active.
- OFF**: Security function is non-active.



Security Function

When the key in the ignition is turned OFF.

- Security message will be active.
- The panel removable alarm will be active.

When the removable face plate is removed.

- The security indicator blinks. (⇒ page 41)