

Pioneer *sound.vision.soul*

**Multi-CD control High power cassette player
with RDS tuner**

**Кассетный проигрыватель высокой мощности с
RDS приёмником и управлением многодисковым
проигрывателем компакт-дисков**

English

Русский

Operation Manual

KEH-P6021R

Инструкция по эксплуатации

Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. *After you have finished reading the instructions, put them away in a safe place for future reference.*

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About this unit

The tuner frequencies on this unit are allocated for use in Europe, Asia, the Middle East, Africa and Oceania. Use in other areas may result in improper reception. The RDS function operates only in areas with FM stations broadcasting RDS signals. 


About this manual

This unit features a number of sophisticated functions ensuring superior reception and operation. All the functions have been designed for the easiest possible use, but many are not self-explanatory. This operation manual will help you benefit fully from this product's potential and to maximize your listening enjoyment.


We recommend that you familiarize yourself with the functions and their operation by reading through the manual before you begin using this unit. It is especially important that you read and observe precautions on this page and in other sections.

This manual explains head unit operation. You can perform the same operations with the steering remote control (sold separately). 

Precautions

- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough so you can hear sounds outside of the car.
- Protect this product from moisture.
- If the battery is disconnected or discharged, the preset memory will be erased and must be reprogrammed. 

In case of trouble

Should this product fail to operate properly, contact your dealer or nearest authorized Pioneer Service Station. 

Protecting your unit from theft

The front panel can be detached from the head unit and stored in the protective case provided to discourage theft.

- If the front panel is not detached from the head unit within five seconds of turning off the ignition, a warning tone will sound.
- You can turn off the warning tone. See *Switching the warning tone* on page 34.



Important

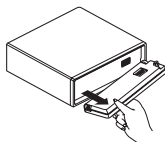
- Never use force or grip the display and the buttons tightly when removing or attaching.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.

Before You Start

Removing the front panel

- 1 Press **OPEN** to open the front panel.
- 2 Grip the left side of the front panel and pull it gently outward.

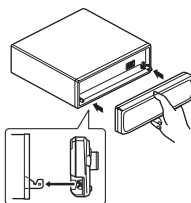
Take care not to grip it tightly or drop it.

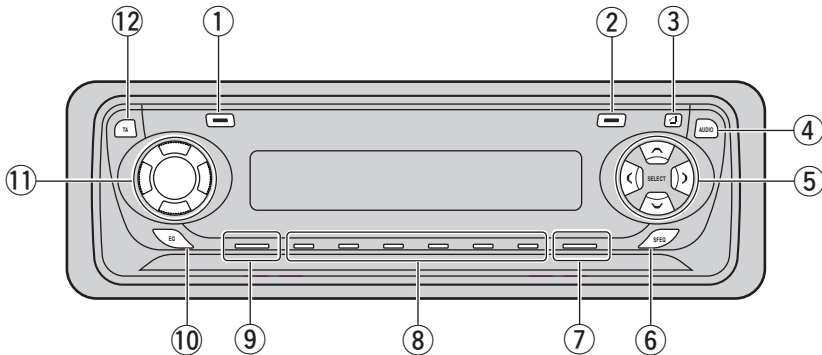


- 3 Put the front panel into the protective case provided for safe keeping.

Attaching the front panel

Replace the front panel by holding it upright to this unit and clipping it securely into the mounting hooks.



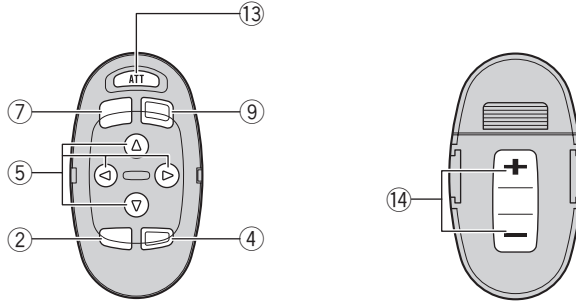


What's What

Head unit

- ① **DISPLAY button**
Press to select different displays.
- ② **FUNCTION button**
Press to select functions.
- ③ **OPEN button**
Press to open the front panel.
- ④ **AUDIO button**
Press to select various sound quality controls.
- ⑤ **▲/▼/◀/▶ buttons**
Press to do manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.
- ⑥ **SFEQ button**
Press to select a natural sound with presence.
- ⑦ **BAND/ESC button**
Press to select among three FM or MW/LW bands and cancel the control mode of functions.
- ⑧ **1-6 (PRESET TUNING) buttons**
Press for preset tuning and disc number search when using a multi-CD player.
- ⑨ **SOURCE button**
This unit is switched on by selecting a source. Press to cycle through all of the available sources.
- ⑩ **EQ button**
Press to select various equalizer curves.
- ⑪ **VOLUME button**
When you press **VOLUME**, it extends outward so that it becomes easier to turn. To retract the **VOLUME**, press it again. Rotate to increase or decrease the volume.
- ⑫ **TA button**
Press to switch traffic announcements function on or off.

Before You Start



Optional remote control

The steering remote control CD-SR80 is sold separately. Operation is the same as when using the button on the head unit. See the explanation of the head unit about the operation of each button with the exception of **ATT**, which is explained below.

13 **ATT button**

Press to quickly lower the volume level, by about 90%. Press once more to return to the original volume level.

14 **VOLUME button**

Press to increase or decrease the volume.

Using the remote control with PGM button

The remote control CD-R600, which is sold separately, can also operate this unit. It has a PGM (program) button in which frequently used functions are preprogrammed for each source. Press PGM to active functions as follows:

Source	Function name	Page
Tuner	BSM (on/off) (Hold for 2 seconds)	12
Cassette player	Blank skip (on/off)	19
Multi-CD player	Pause (on/off)	22



Turning the unit on

Press SOURCE to turn the unit on.

When you select a source the unit is turned on.



Selecting a source

You can select a source you want to listen to. To switch to the cassette player, load a cassette tape in this unit (refer to page 18).

Press SOURCE to select a source.


Press **SOURCE** repeatedly to switch between the following sources:

**Tuner—Cassette player—Multi-CD player—
External unit—AUX**



Notes

- In the following cases, the sound source will not change:
 - When a product corresponding to each source is not connected to this unit.
 - When no cassette is set in this unit.
 - When no magazine is set in the multi-CD player.
 - When the AUX (auxiliary) is set to off (refer to page 35).

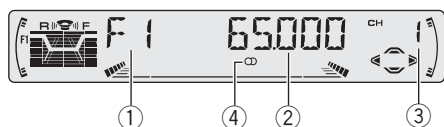
- External unit refers to a Pioneer product (such as one available in the future) that, although incompatible as a source, enables control of basic functions by this unit. Only one external unit can be controlled by this unit.
- When this unit's blue/white lead is connected to the car's auto-antenna relay control terminal, the car's antenna extends when this unit's source is switched on. To retract the antenna, switch the source off. 

Turning the unit off

Press SOURCE and hold for at least one second to turn the unit off. 

Tuner

Listening to the radio



These are the basic steps necessary to operate the radio. More advanced tuner operation is explained starting on page 10.

This unit's AF (alternative frequencies search) function can be switched on and off. AF should be off for normal tuning operation (refer to page 14).

- ① **BAND indicator**
Shows which band the radio is tuned to, MW, LW or FM.
- ② **FREQUENCY indicator**
Shows to which frequency the tuner is tuned.
- ③ **PRESET NUMBER indicator**
Shows what preset has been selected.
- ④ **STEREO (Ⓢ) indicator**
Shows that the frequency selected is being broadcast in stereo.

1 Press SOURCE to select the tuner.

2 Use VOLUME to adjust the sound level.

Rotate to increase or decrease the volume.

3 Press BAND/ESC to select a band.

Press **BAND/ESC** until the desired band is displayed, **F1**, **F2**, **F3** for FM or **MW/LW**.

- The FM bands cover different frequency ranges as below;

F1 (FM1): 65 — 74 MHz

F2 (FM2) , **F3** (FM3): 87.5 — 108 MHz

4 To perform manual tuning, press ◀ or ▶ with quick presses.

The frequencies move up or down step by step.

5 To perform seek tuning, press and hold ◀ or ▶ for about one second and release.

The tuner will scan the frequencies until a broadcast strong enough for good reception is found.

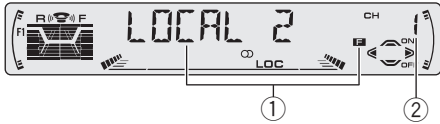
- You can cancel seek tuning by pressing either ◀ or ▶ with a quick press.
- If you press and hold ◀ or ▶ you can skip broadcasting stations. Seek tuning starts as soon as you release the buttons.



Note

- When the frequency selected is being broadcast in stereo the **STEREO** (Ⓢ) indicator will light.

Introduction of advanced tuner operation



- ① **FUNCTION display**
Shows the function status.
- ② **PRESET NUMBER indicator**
Shows what preset has been selected.


Press **FUNCTION** to display the function names.

Press **FUNCTION** repeatedly to switch between the following functions:

BSM (best stations memory)—**REG** (regional)—**LOCAL** (local seek tuning)—**TA** (traffic announcement standby)—**NEWS** (news program interruption)—**AF** (alternative frequencies search)

- To return to the frequency display, press **BAND/ESC**.
- If MW/LW band is selected, you can only select **BSM** or **LOCAL**.

Note

- If you do not operate the function within about 30 seconds, the display is automatically returned to the frequency display. 

Tuner

Storing and recalling broadcast frequencies

If you press any of the **PRESET TUNING** buttons you can easily store up to six broadcast frequencies for later recall with the touch of a button.

When you find a frequency that you want to store in memory press a PRESET TUNING button and hold until the preset number stops flashing.

The number you have pressed will flash in the **PRESET NUMBER** indicator and then remain lit. The selected radio station frequency has been stored in memory.

The next time you press the same **PRESET TUNING** button the radio station frequency is recalled from memory.



Notes

- Up to 18 FM stations, 6 for each of the three FM bands, and 6 MW/LW stations can be stored in memory.
- You can also use ▲ and ▼ to recall radio station frequencies assigned to **PRESET TUNING** buttons. ▣

Tuning in strong signals

Local seek tuning lets you tune in only those radio stations with sufficiently strong signals for good reception.

1 Press FUNCTION to select LOCAL.

Press **FUNCTION** until **LOCAL** appears in the display.

2 Press ▲ to turn local seek tuning on.

Local seek sensitivity (e.g., **LOCAL 2**) appears in the display.

3 Press ◀ or ▶ to set the sensitivity.

There are four levels of sensitivity for FM and two levels for MW/LW:

FM: LOCAL 1—LOCAL 2—LOCAL 3—LOCAL 4
MW/LW: LOCAL 1—LOCAL 2

The **LOCAL 4** setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

4 When you want to return to normal seek tuning, press ▼ to turn local seek tuning off.

LOCAL :OFF appears in the display. ▣

Storing the strongest broadcast frequencies

BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies under **PRESET TUNING** buttons **1-6** and once stored there you can tune in to those frequencies with the touch of a button.

1 Press **FUNCTION** to select **BSM**.

Press **FUNCTION** until **BSM** appears in the display.


2 Press **▲** to turn **BSM** on.

BSM begins to flash. While **BSM** is flashing the six strongest broadcast frequencies will be stored under **PRESET TUNING** buttons in order of their signal strength. When finished, **BSM** stops flashing.

- To cancel the storage process, press **▼**.

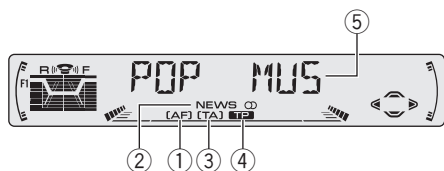


Note

- Storing broadcast frequencies with **BSM** may replace broadcast frequencies you have saved using **PRESET TUNING**. 

RDS

Introduction of RDS operation



RDS (radio data system) is a system for providing information along with FM2 and FM3 bands. This inaudible information provides such features as program service name, program type, traffic announcement standby and automatic tuning intended to aid radio listeners in finding and tuning in to a desired station.

- ① **AF indicator**
Shows when AF (alternative frequencies search) function is on.
- ② **NEWS indicator**
Shows when NEWS (news program interruption) function is on.
- ③ **TA indicator**
Shows when TA (traffic announcement standby) function is on.
- ④ **TP indicator**
Shows when a TP station is tuned in.
- ⑤ **Program service name**
Shows the type of broadcast program.

Press **FUNCTION** to display the function names.

Press **FUNCTION** repeatedly to switch between the following functions:

BSM (best stations memory)—**REG** (regional)—**LOCAL** (local seek tuning)—**TA** (traffic announcement standby)—**NEWS** (news program interruption)—**AF** (alternative frequencies search)

- To return to the frequency display, press **BAND/ESC**.
- If MW/LW band is selected, you can only select **BSM** or **LOCAL**.



Notes

- If you do not operate the function within about 30 seconds, the display is automatically returned to the frequency display.
- RDS service may not be provided by all stations.
- RDS functions like AF and TA are only active when your radio is tuned to a RDS station.

Switching the RDS display


When you tune in a RDS station its program service name is displayed. If you want to know the frequency you can.

Press **DISPLAY**.

Press **DISPLAY** repeatedly to switch between the following settings:

Program service name—PTY information—Frequency

PTY (program type ID code) information is listed on page 17.

- PTY information and the frequency of the current station appears on the display for eight seconds.
- If a PTY code of zero is received from a station, **NONE** is displayed. This indicates that the station has not defined its program contents.
- If the signal is too weak for this unit to pick up the PTY code, **NO PTY** is displayed. 

Selecting alternative frequencies

If you are listening to a broadcast and the reception becomes weak or there are other problems, the unit will automatically search for a different station in the same network which is broadcasting a stronger signal.

- AF is on as a default.

1 Press **FUNCTION** to select **AF**.

Press **FUNCTION** until **AF** appears in the display.

2 Press **▲** to turn **AF** on.

Press **▲** and **AF :ON** is displayed.

3 Press **▼** to turn **AF** off.

Press **▼** and **AF :OFF** is displayed.



Notes

- Only RDS stations are tuned in during seek tuning or BSM when **AF** is on.
- When you recall a preset station, the tuner may update the preset station with a new frequency from the station's AF list. (This is only available when using presets on the **F2** or **F3** band.) No preset number appears on the display if the RDS data for the station received differs from that for the originally stored station.
- Sound may be temporarily interrupted by another program during a AF frequency search.
- When the tuner is tuned to a non-RDS station the **AF** indicator flashes.
- AF can be switched on or off independently for each FM band.

Using **PI** seek

If the unit fails to find a suitable alternative frequency, or if you are listening to a broadcast and the reception becomes weak, the unit will automatically search for a different station with the same programming. During the search, **PI SEEK** is displayed and the output is muted. The muting is discontinued after completion of the PI seek, whether or not a different station is found.

Using auto PI seek for preset stations

When present stations cannot be recalled, as when travelling long distances, the unit can be set to perform PI seek during preset recall.

- The default setting for auto PI seek is off. See *Switching auto PI seek* on page 34.

Limiting stations to regional programming

When AF is used to automatically retune frequencies, the regional function limits the selection to stations broadcasting regional programs.

1 Press FUNCTION to select REG.

Press **FUNCTION** until **REG** appears in the display.

2 Press ▲ to turn the regional function on.

Press **▲** and **REG :ON** is displayed.

3 Press ▼ to turn the regional function off.

Press **▼** and **REG :OFF** is displayed.



Notes

- Regional programming and regional networks are organized differently depending on the country (i.e., they may change according to the hour, state or broadcast area).
- The preset number may disappear on the display if the tuner tunes in a regional station which differs from the originally set station.
- **REG** can be turned on or off independently for each FM band.

Receiving traffic announcements

TA (traffic announcement standby) lets you receive traffic announcements automatically, no matter what source you are listening to. TA can be activated for both a TP station (a station that broadcasts traffic information) or an enhanced other network's TP station (a station carrying information which cross-references TP stations).

1 Tune in a TP or enhanced other network's TP station.

When you are tuned into a TP or enhanced other network's TP station the **TP** indicator will light.

2 Press TA to turn traffic announcement standby on.

Press **TA** and the **TA** indicator appears in the display. The tuner will standby for traffic announcements.

- To turn traffic announcements standby off, press **TA** again.

3 Use VOLUME to adjust the TA volume when a traffic announcement begins.

Rotate to increase or decrease the volume.

The newly set volume is stored in memory and recalled for subsequent traffic announcements.

4 Press TA while a traffic announcement is being received to cancel the announcement.

The tuner returns to the original source but remains in the standby mode until **TA** is pressed again.

**Notes**

- You can also turn the **TA** function on or off by pressing **FUNCTION**.
- The system switches back to the original source following traffic announcement reception.
- TA can be activated from sources other than the tuner if the tuner was last set to the FM band but not if it was last set to the MW/LW band.
- If the tuner was last set to FM, turning on TA lets you operate other tuning functions while listening to sources other than the tuner.
- Only TP and enhanced other network's TP stations are tuned in during seek tuning or BSM when TA is on.

Responding to the TP alarm

When a TP or enhanced other network's TP station is lost due to a weak signal the **TP** indicator is extinguished and a series of short beeps, about five seconds long, sound to remind you to select another TP or enhanced other network's TP station.

When listening to the tuner, tune in another TP or enhanced other network's TP station.

- When listening to sources other than the tuner the unit will automatically seek out a TP station with the strongest signal after a 10- or 30-second delay. The delay is 10 seconds if TA is on and 30 seconds if TA and AF are on.

Using PTY functions

You can tune in a station by using PTY information.

Using news program interruption

When a news program is broadcast from a PTY code news station the unit can switch from any station to the news broadcast station. When the news program ends, reception of the previous program resumes.

Press TA and hold to turn on news program interruption.

Press **TA** until **NEWS** appears in the display.

- To turn off news program interruption, press **TA** and hold until **NEWS** disappears from the display.

**Note**

- You can also turn on or off news program interruption by pressing **FUNCTION**.

Receiving PTY alarm broadcasts

PTY alarm is a special PTY code for announcements regarding emergencies such as natural disasters. When the tuner receives the radio alarm code, **ALARM** appears on the display and the volume adjusts to the TA volume. When the station stops broadcasting the emergency announcement, the system returns to the previous source.

- An emergency announcement can be cancelled by pressing **TA**.

RDS

04

PTY list

English

Specific	Type of program
NEWS	News
AFFAIRS	Current affairs
INFO	General information and advice
SPORT	Sports
WEATHER	Weather reports/meteorological information
FINANCE	Stock market reports, commerce, trading, etc.
POP MUS	Popular music
ROCK MUS	Contemporary modern music
EASY MUS	Easy listening music
OTH MUS	Non categorized music
JAZZ	Jazz
COUNTRY	Country music
NAT MUS	National music
OLDIES	Oldies music, golden oldies
FOLK MUS	Folk music
L. CLASS	Light classical music
CLASSIC	Serious classical music
EDUCATE	Educational programs
DRAMA	All radio plays and serials
CULTURE	National or regional culture
SCIENCE	Nature, science and technology
VARIED	Light entertainment
CHILDREN	Children's
SOCIAL	Social affairs
RELIGION	Religion affairs or services
PHONE IN	Phone in
TOURING	Travel programs, not for announcements about traffic problems
LEISURE	Hobbies and recreational activities
DOCUMENT	Documentaries



Playing a tape



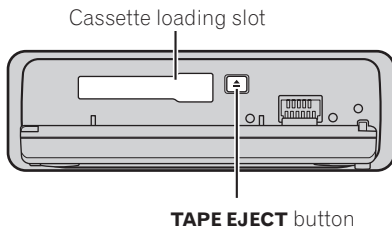
These are the basic steps necessary to play a tape with your cassette player. More advanced cassette player operation is explained starting on page 19.

- ① **TAPE DIRECTION indicator**
Shows the direction of the tape transport.
- ② **PLAY TIME indicator**
Shows the elapsed playing time of the current side of the tape.

1 Press OPEN to open the front panel.
Cassette loading slot appears.

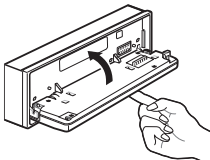
2 Insert a cassette tape into the cassette loading slot.

Playback will automatically start.



• You can eject a cassette tape by pressing **TAPE EJECT**.

3 Close the front panel.



• After a cassette tape has been inserted, press **SOURCE** to select the cassette player.

4 Use VOLUME to adjust the sound level.

Rotate to increase or decrease the volume.

5 To perform fast forward or rewind, press ◀ or ▶.

FF or **REW** appears in the display.

• To cancel fast forward or rewind and return to playback, press **BAND/ESC**.

• You can cancel fast forward or rewind by pressing ◀ or ▶ in the same direction twice.

6 To perform forward or rewind music search, press ◀ or ▶ twice.

F-MS (forward music search) or **R-MS** (rewind music search) appears in the display. The cassette player will fast forward or rewind to the next or previous blank spot on the tape and begin to play.

• To cancel music search and return to playback, press **BAND/ESC**.

• You can cancel music search by pressing ◀ or ▶ in the same direction again.

7 To change the direction of the tape transport, press BAND/ESC.

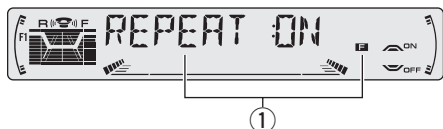


Notes

- Do not insert anything other than a cassette tape into the cassette loading slot.
- **PLAY TIME** indicator starts from **00'00"** in the following cases:
 - When a tape is inserted
 - When the tape direction is changed
 - When you rewind the tape to the beginning
- **PLAY TIME** indicator is halted when fast forward, rewind or music search is operating.

Cassette Player

Introduction of advanced cassette player operation



① FUNCTION display

Shows the function status.

Press FUNCTION to display the function names.

Press **FUNCTION** repeatedly to switch between the following functions:

REPEAT (repeat play)—**B-SKIP** (blank skip)—**RI** (radio intercept)

- To return to the playback display, press **BAND/ESC**.



Note

- If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.

Repeating play

Repeat play lets you hear the same track over again.

1 Press FUNCTION to select REPEAT.

Press **FUNCTION** until **REPEAT** appears in the display.

2 Press ▲ to turn repeat play on.

REPEAT :ON appears in the display. The track presently playing will play and then repeat.

3 Press ▼ to turn repeat play off.

REPEAT :OFF appears in the display. The track presently playing will continue to play and then play the next track.

Skipping blank tape sections

Blank skip automatically fast forwards to the next song if there is a long period of silence (12 seconds or longer) between songs.

1 Press FUNCTION to select B-SKIP.

Press **FUNCTION** until **B-SKIP** appears in the display.

2 Press ▲ to turn blank skip on.

B-SKIP :ON appears in the display. Long periods of silence between songs will be skipped.

3 Press ▼ to turn blank skip off.

B-SKIP :OFF appears in the display. The complete cassette tape will play.

Radio intercept

This function allows you to listen to the radio during tape fast-forwarding/rewinding. The radio intercept function does not work during a Music Search operation.

1 Press FUNCTION to select RI.

Press **FUNCTION** until **RI** appears in the display.

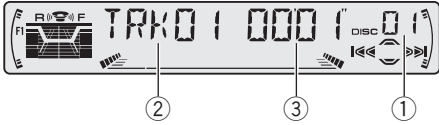
2 Press ▲ to turn radio intercept on.

RI :ON appears in the display.

3 Press ▼ to turn radio intercept off.

RI :OFF appears in the display.

Playing a CD



You can use this unit to control a multi-CD player, which is sold separately.

These are the basic steps necessary to play a CD with your multi-CD player. More advanced CD operation is explained starting on page 21.

- ① **DISC NUMBER indicator**
Shows the disc currently playing.
- ② **TRACK NUMBER indicator**
Shows the track currently playing.
- ③ **PLAY TIME indicator**
Shows the elapsed playing time of the current track.

1 Press SOURCE to select the multi-CD player.

Press **SOURCE** until you see **Multi-CD** displayed.

2 Use VOLUME to adjust the sound level.

Rotate to increase or decrease the volume.

3 Select a disc you want to listen to with the 1 to 6 buttons.

For discs located at 1 to 6, press the corresponding number button.

If you want to select a disc located at 7 to 12, press and hold the corresponding numbers such as **1** for disc 7, until the disc number appears in the display.

- You can also sequentially select a disc by pressing **▲/▼**.

4 To perform fast forward or reverse, press and hold ◀ or ▶.

5 To skip back or forward to another track, press ◀ or ▶.

Pressing **▶** skips to the start of the next track.

Pressing **◀** once skips to the start of the current track. Pressing again will skip to the previous track.



Notes

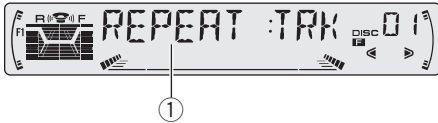
- When the multi-CD player performs the preparatory operations, **READY** is displayed.
- If the multi-CD player does not operate properly, an error message such as **ERROR-14** may be displayed. Refer to the multi-CD player owner's manual.
- If there are no discs in the multi-CD player magazine, **NO DISC** is displayed.

50-disc multi-CD player

Only those functions described in this manual are supported for 50-disc multi-CD players.

Multi-CD Player

Introduction of advanced multi-CD player operation



① FUNCTION display

Shows the function status.

Press FUNCTION to display the function names.


Press **FUNCTION** repeatedly to switch between the following functions:

REPEAT (repeat play)—**TITLE LIST** (disc title list)—**RANDOM** (random play)—**SCAN** (scan play)—**ITS-P** (ITS play)—**PAUSE** (pause)—**COMP** (compression and DBE)

- To return to the playback display, press **BAND/ESC**.



Note

- If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display. 

Repeating play

There are three repeat play ranges for the multi-CD player: **MCD** (multi-CD player repeat), **TRK** (one-track repeat), and **DSC** (disc repeat).

1 Press FUNCTION to select REPEAT.

Press **FUNCTION** until **REPEAT** appears in the display.


2 Press ◀ or ▶ to select the repeat range.

Press ◀ or ▶ until the desired repeat range appears in the display.

- **MCD** — Repeat all discs in the multi-CD player
- **TRK** — Repeat just the current track
- **DSC** — Repeat the current disc



Notes

- If you select other discs during repeat play, the repeat play range changes to **MCD** (multi-CD player repeat).
- If you perform track search or fast forward/reverse during **TRK** (one-track repeat), the repeat play range changes to **DSC** (disc repeat). 

Playing tracks in a random order

Random play lets you play back tracks in a random order within the repeat range, **MCD** (multi-CD player repeat) and **DSC** (disc repeat).

1 Select the repeat range.

Refer to *Repeating play* on page 21.


2 Press FUNCTION to select RANDOM.

Press **FUNCTION** until **RANDOM** appears in the display.

3 Press ▲ to turn random play on.

RANDOM :ON appears in the display. Tracks will play in a random order within the previously selected **MCD** (multi-CD player repeat) or **DSC** (disc repeat) ranges.

4 Press ▼ to turn random play off.

RANDOM :OFF appears in the display. Tracks will continue to play in order. 

Scanning CDs and tracks

While you are using **DSC** (disc repeat), the beginning of each track on the selected disc plays for about 10 seconds. When you are using **MCD** (multi-CD player repeat), the beginning of the first track of each disc is played for about 10 seconds.

1 Select the repeat range.

Refer to *Repeating play* on page 21.

2 Press FUNCTION to select SCAN.

Press **FUNCTION** until **SCAN** appears in the display.

3 Press ▲ to turn scan play on.

SCAN :ON appears in the display. The first 10 seconds of each track of the present disc (or the first track of each disc) is played.

4 When you find the desired track (or disc) press ▼ to turn scan play off.

SCAN :OFF appears in the display. The track (or disc) will continue to play.

- If the display has automatically returned to the playback display, select **SCAN** again by pressing **FUNCTION**.



Note

- After track or disc scanning is finished, normal playback of the tracks will begin again.



Pausing CD playback

Pause lets you temporarily stop playback of the CD.


1 Press FUNCTION to select PAUSE.

Press **FUNCTION** until **PAUSE** appears in the display.

2 Press ▲ to turn pause on.

PAUSE :ON appears in the display. Play of the current track pauses.

3 Press ▼ to turn pause off.

PAUSE :OFF appears in the display. Play will resume at the same point that you turned pause on. 

Multi-CD Player

Using ITS playlists

ITS (instant track selection) lets you make a playlist of favorite tracks from those in the multi-CD player magazine. After you have added your favorite tracks to the playlist you can turn on ITS play and play just those selections.

Creating a playlist with ITS programming

You can use ITS to enter and playback up to 99 tracks per disc, up to 100 discs (with the disc title). (With multi-CD players sold before the CDX-P1250 and CDX-P650, up to 24 tracks can be stored in the playlist.)

1 Play a CD that you want to program.

Press **▲** or **▼** to select a CD.

2 Press **FUNCTION** and hold until **TITLE IN** appears in the display, then press **FUNCTION** to select **ITS**.

After **TITLE IN** is displayed, press **FUNCTION** repeatedly, the following functions appear in the display:

TITLE IN (disc title input)—**ITS** (ITS programming)

3 Select a desired track by pressing **◀** or **▶**.

4 Press **▲** to store the currently playing track in the playlist.

IN is displayed briefly and the currently playing selection is added to your playlist.

5 Press **BAND/ESC** to return to the playback display.



Note

- After data for 100 discs has been stored in memory, data for a new disc will overwrite the oldest one.

Playback from your ITS playlist

ITS play lets you listen to the tracks that you have entered into your ITS playlist. When you turn on ITS play, tracks from your ITS playlist in the multi-CD player will begin to play.

1 Select the repeat range.

Refer to *Repeating play* on page 21.

2 Press **FUNCTION** to select **ITS-P**.

Press **FUNCTION** until **ITS-P** appears in the display.

3 Press **▲** to turn **ITS play on**.

ITS-P :ON appears in the display. Playback begins of those tracks from your playlist within the previously selected **MCD** (multi-CD player repeat) or **DSC** (disc repeat) ranges.

- If no tracks in the current range are programmed for ITS play then **ITS EMPTY** is displayed.

4 Press **▼** to turn **ITS play off**.

ITS-P :OFF appears in the display. Playback will continue in normal order from the currently playing track and CD.

Section

06

Multi-CD Player

Erasing a track from your ITS playlist

When you want to delete a track from your ITS playlist, you can if ITS play is on.
If ITS play is already on, skip to step 2. If ITS play is not already on, press **FUNCTION**.

1 Play a CD you want to delete a track from your ITS playlist, and turn ITS play on.

Refer to *Playback from your ITS playlist* on page 23.

2 Press FUNCTION and hold until TITLE IN appears in the display, then press FUNCTION to select ITS.

After **TITLE IN** is displayed, press **FUNCTION** until **ITS** appears in the display.

3 Select a desired track by pressing ◀ or ▶.**4 Press ▼ to erase a track from your ITS playlist.**

The currently playing selection is erased from your ITS playlist and playback of the next track from your ITS playlist begins.

- If there are no tracks from your playlist in the current range, **ITS EMPTY** is displayed and normal play resumes.

5 Press BAND/ESC to return to the playback display.**Erasing a CD from your ITS playlist**

When you want to delete all tracks of a CD from your ITS playlist, you can if ITS play is off.

1 Play a CD that you want to delete.

Press ▲ or ▼ to select a CD.

2 Press FUNCTION and hold until TITLE IN appears in the display, then press FUNCTION to select ITS.

After **TITLE IN** is displayed, press **FUNCTION** until **ITS** appears in the display.

3 Press ▼ to erase all tracks on the currently playing CD from your ITS playlist.

All tracks on the currently playing CD are erased from your playlist and **ITS CLEAR** is displayed.

4 Press BAND/ESC to return to the playback display. □**Using disc title functions**

You can input CD titles and display the title. Then you can easily search for and select a desired disc for play.

Entering disc titles

Disc title input lets you input CD titles up to 10 letters long and up to 100 disc titles (with ITS playlist) into the multi-CD player.

1 Play a CD that you want to enter the title.

Press ▲ or ▼ to select a CD.

2 Press FUNCTION and hold until TITLE IN appears in the display.

After **TITLE IN** is displayed, press **FUNCTION** repeatedly, the following functions appear in the display:

TITLE IN (disc title input)—**ITS** (ITS programming)

Multi-CD Player

• When playing a CD TEXT disc on a CD TEXT compatible multi-CD player, you cannot switch to **TITLE IN**. The disc title will have already been recorded on a CD TEXT disc.

3 Press ▲ or ▼ to select a letter of the alphabet.

Each press of ▲ will display a letter of the alphabet in **A B C ... X Y Z**, numbers and symbols in **1 2 3 ... @ # <** order. Each press of ▼ will display a letter in the reverse order, such as **Z Y X ... C B A** order.



4 Press ► to move the cursor to the next character position.

When the letter you want is displayed, press ► to move the cursor to the next position and then select the next letter. Press ◀ to move backwards in the display.

5 Move the cursor to the last position by pressing ► after entering the title.

When you press ► one more time, the entered title is stored in memory.

6 Press BAND/ESC to return to the playback display.



Notes

- Titles remain in memory, even after the disc has been removed from the magazine, and are recalled when the disc is reinserted.
- After data for 100 discs has been stored in memory, data for a new disc will overwrite the oldest one.

Displaying disc titles

You can display the title of any disc that has had a disc title entered.

Press DISPLAY.

Press **DISPLAY** repeatedly to switch between the following settings:

PLAY TIME (playback time)—**DISC TITLE** (disc title)

When you select **DISC TITLE**, the title of the currently playing disc is shown in the display.

- If no title has been entered for the currently playing disc, **NO TITLE** is displayed.

Selecting discs from the disc title list

Disc title list lets you see the list of disc titles that have been entered into the multi-CD player and select one of them to playback.

1 Press **FUNCTION** to select **TITLE LIST**.

Press **FUNCTION** until **TITLE LIST** appears in the display.

2 Press **◀** or **▶** to scroll through the list of titles that have been entered.

- Nothing is displayed for disc whose titles have not been input.

3 Press **▲** to play your favorite **CD** title.

That selection will begin to play.

Using CD TEXT functions

You can use these functions only with a CD TEXT compatible multi-CD player.

Some discs have certain information encoded on the disc during manufacture. These discs may contain such information as the CD title, track title, artist's name and playback time and are called CD TEXT discs. Only these specially encoded CD TEXT discs support the functions listed below.

Displaying titles on CD TEXT discs

Press **DISPLAY** when playing a **CD TEXT** disc from the multi-CD player.

Press **DISPLAY** repeatedly to switch between the following settings:

PLAY TIME (playback time)—**DISC TITLE** (disc title)—**D.ARTIST** (disc artist)—**TRK TITLE** (track title)—**T.ARTIST** (track artist)

- If specific information has not been recorded on a CD TEXT disc, **NO XXXX** will be displayed (e.g., **NO D-TITLE**).

Scrolling titles in the display

This unit can display the first 10 letters only of **DISC TITLE**, **D.ARTIST**, **TRK TITLE** and **T.ARTIST**. When the recorded information is longer than 10 letters, you can scroll the text to the left so that the rest of the title can be seen.

Press **DISPLAY** and hold until the title begins to scroll to the left.

The rest of the title will appear in the display.

Multi-CD Player

Using compression and bass emphasis

You can use these functions only with a multi-CD player that supports them.

Using COMP (compression) and DBE (dynamic bass emphasis) functions let you adjust the sound playback quality of the multi-CD player. Each of the functions have a two-step adjustment. The COMP function balances the output of louder and softer sounds at higher volumes. DBE boosts bass levels to give playback a fuller sound. Listen to each of the effects as you select through them and use the one that best enhances the playback of the track or CD that you are listening to.


1 Press FUNCTION to select COMP.

Press **FUNCTION** until **COMP** appears in the display.

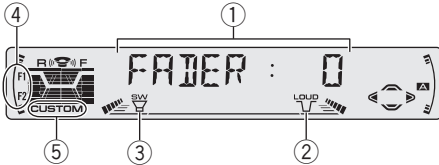
- If the multi-CD player does not support COMP/DBE, **NO COMP** is displayed when you attempt to select it.

2 Press ▲ or ▼ to select your favorite setting.

Press ▲ or ▼ repeatedly to switch between the following settings:

**COMP OFF—COMP 1—COMP 2—COMP OFF—
DBE 1—DBE 2** 

Introduction of audio adjustments



- ① **AUDIO display**
Shows the audio adjustments status.
- ② **LOUD indicator**
Appears in the display when loudness is turned on.
- ③ **SW indicator**
Appears in the display when subwoofer is turned on.
- ④ **F1 or F2 indicator**
The **F1** or **F2** indicator lights depending on the **SFEQ** setting.
- ⑤ **CUSTOM indicator**
Appears in the display when equalization is adjusted.


Press **AUDIO** to display the audio function names.

Press **AUDIO** repeatedly to switch between the following audio functions:

FADER (balance adjustment)—**EQ** (equalizer curve fine adjustment)—**BASS** (bass)—**TRE** (treble)—**LOUD** (loudness)—**SUB.W** (subwoofer output)—**80HZ0** (subwoofer setting adjustment)—**SLA** (source level adjustment)

- When selecting the FM tuner as the source, you cannot switch to **SLA**.
- To return to the display of each source, press **BAND/ESC**.

Notes

- If you do not operate the audio function within about 30 seconds, the display is automatically returned to the source display.
- Audio Menu functions change depending on the rear output setting in the Initial Setting Menu. Refer to *Switching the rear output setting* on page 35. 

Audio Adjustments

Setting the sound focus equalizer

Clarifying the sound image of vocals and instruments allows the simple staging of a natural, pleasant sound environment.

Even greater listening enjoyment will be obtained if seating positions are chosen carefully.

- **FRT1** boosts the treble on the front output and the bass on the rear output.

FRT2 boosts the treble and the bass on the front output and the bass on the rear output. (The bass boost is the same for both front and rear.) For both **FRT1** and **FRT2** the **HI** setting provides a more pronounced effect than the **LOW** setting.

1 Press **SFEQ** to select the desired **SFEQ** mode.

Press **SFEQ** repeatedly to switch between the following setting:

FRT1-HI (front 1-high)—**FRT1-LOW** (front 1-low)—**FRT2-HI** (front 2-high)—**FRT2-LOW** (front 2-low)—**CUSTOM** (custom)—**SFEQ OFF** (off)
Selected mode (e.g., **F1**) appears in the display.

2 Press **◀** or **▶** to select the desired position.

Press **◀** or **▶** until the desired position appears in the display.

L (left)—**C** (center)—**R** (right)



Note

- If you adjust the bass or treble, **CUSTOM** memorizes an **SFEQ** mode in which the bass and treble are adjusted for personal preference.

Using balance adjustment

You can select a fader/balance setting that provides an ideal listening environment in all occupied seats.

1 Press **AUDIO** to select **FADER**.

Press **AUDIO** until **FADER** appears in the display.

- If the balance setting has been previously adjusted, **BAL** will be displayed.

2 Press **▲** or **▼** to adjust front/rear speaker balance.

Each press of **▲** or **▼** moves the front/rear speaker balance towards the front or the rear.

- **FADER :F15 – FADER :R15** is displayed as the front/rear speaker balance moves from front to rear.

- **FADER : 0** is the proper setting when only two speakers are used.

- When the rear output setting is subwoofer, you cannot adjust front/rear speaker balance. Refer to *Switching the rear output setting* on page 35.

3 Press **◀** or **▶** to adjust left/right speaker balance.

When you press **◀** or **▶**, **BAL : 0** is displayed.

Each press of **◀** or **▶** moves the left/right speaker balance towards the left or the right.

- **BAL :L9 – BAL :R9** is displayed as the left/right speaker balance moves from left to right.

Using the equalizer

The equalizer lets you adjust the equalization to match car interior acoustic characteristics as desired.

Recalling equalizer curves

There are seven stored equalizer curves which you can easily recall at any time. Here is a list of the equalizer curves:

Display	Equalizer curve
POWERFUL	Powerful
NATURAL	Natural
VOCAL	Vocal
CUSTOM1, 2	Custom 1, 2
EQ FLAT	Flat
SUPER BASS	Super bass

- **CUSTOM1** and **CUSTOM2** are adjusted equalizer curves that you create.
- A separate **CUSTOM1** curve can be created for each source.
- If you make adjustments when a curve other than **CUSTOM2** is selected, the equalizer curve settings are memorized in **CUSTOM1**.
- A **CUSTOM2** curve can be created common to all sources.
- If you make adjustments when the **CUSTOM2** curve is selected, the **CUSTOM2** curve is updated.
- When **EQ FLAT** is selected no supplement or correction is made to the sound. This is useful to check the effect of the equalizer curves by switching alternatively between **EQ FLAT** and a set equalizer curve.

Press EQ to select the equalizer.

- If the equalizer has been previously set to an equalizer curve other than **POWERFUL** then the title of that previously selected equalizer curve will be displayed, such as **NATURAL**, **VOCAL**, **CUSTOM1**, **CUSTOM2**, **EQ FLAT** or **SUPER BASS**.

Adjusting equalizer curves

You can adjust the currently selected equalizer curve setting as desired. Adjusted equalizer curve settings are memorized in **CUSTOM1** or **CUSTOM2**.

1 Press AUDIO to select the equalizer mode.

Press **AUDIO** until **EQ-LOW/EQ-MID/EQ-HIGH** appears in the display.

2 Select the band you want to adjust with the ◀/▶.

EQ-LOW (low)—**EQ-MID** (mid)—**EQ-HIGH** (high)

3 Press ▲ or ▼ to adjust the equalizer curve.

Each press of ▲ or ▼ increases or decreases the equalizer curve respectively.

- **+6 – -6** is displayed as the equalizer curve is increased or decreased.
- The actual range of the adjustments are different depending on which equalizer curve is selected.



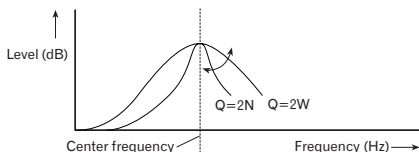
Note

- If you make adjustments when a curve other than **CUSTOM2** is selected, the newly adjusted curve will replace the previous **CUSTOM1** curve.

Audio Adjustments

Equalizer curve fine adjustment

You can adjust the center frequency and the Q factor (curve characteristics) of each currently selected curve band (**EQ-LOW/EQ-MID/EQ-HIGH**).



1 Press AUDIO and hold until frequency and the Q factor (e.g., F-80 Q-1W) appears in the display.

2 Press AUDIO to select the desired band for adjustment.

Press **AUDIO** repeatedly to switch between the following bands:

EQ-LOW (low)—**EQ-MID** (mid)—**EQ-HIGH** (high)

3 Press ◀/▶ to select the desired frequency.

Press ◀ or ▶ until the desired frequency appears in the display.

LOW: 40—80—100—160 (Hz)

MID: 200—500—1K—2K (Hz)

HIGH: 3K—8K—10K—12K (Hz)

4 Press ▲/▼ to select the desired Q factor.

Press ▲ or ▼ until the desired Q factor appears in the display.

2N—1N—1W—2W



Note

- If you make adjustments when a curve other than **CUSTOM2** is selected, **CUSTOM1** curve is updated.

Adjusting bass

You can adjust the cut-off frequency and the bass level.

In **FRT1** mode, bass adjustment affects only the rear output: front output cannot be adjusted.

1 Press AUDIO to select BASS.

Press **AUDIO** until **BASS** appears in the display.

2 Select the desired frequency with ◀/▶.

Press ◀ or ▶ until the desired frequency appears in the display.

40—63—100—160 (Hz)

3 Press ▲ or ▼ to adjust the bass level.

Each press of ▲ or ▼ increases or decreases the bass level. **+6—-6** displayed as the level is increased or decreased.

Adjusting treble

You can adjust the cut-off frequency and the Treble level.

In **FRT1** and **FRT2** modes, treble adjustment affects only the front output: rear output cannot be adjusted.

1 Press **AUDIO** to select **TRE**.

Press **AUDIO** until **TRE** appears in the display.

2 Select the desired frequency with **◀/▶**.

Press **◀** or **▶** until the desired frequency appears in the display.

2K—4K—6K—10K (Hz)

3 Press **▲** or **▼** to adjust the treble level.

Each press of **▲** or **▼** increases or decreases the treble level. **+6—-6** displayed as the level is increased or decreased. **■**

Adjusting loudness

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.

1 Press **AUDIO** to select **LOUD**.

Press **AUDIO** until **LOUD** appears in the display.

2 Press **▲** to turn loudness on.

Loudness level (e.g., **LOUD:MID**) appears in the display.

3 Press **◀** or **▶** to select the level.

Press **◀** or **▶** until the desired level appears in the display.

LOW (low)—**MID** (mid)—**HI** (high)

4 Press **▼** to turn loudness off.

LOUD:OFF appears in the display. **■**

Using subwoofer output

This unit is equipped with a subwoofer output which can be switched on or off. When a subwoofer is connected to the rear output, first, switch the rear output setting to subwoofer, then turn the subwoofer output on. For more details, see *Switching the rear output setting* on page 35.

1 Press **AUDIO** to select **SUB.W**.

When the rear output setting is subwoofer, you can select **SUB.W**. Press **AUDIO** until **SUB.W** appears in the display.

2 Press **▲** to turn subwoofer output on.

SUB.W:ON appears in the display. Subwoofer output is now on.

3 Press **▼** to turn subwoofer output off.

SUB.W:OFF appears in the display. Subwoofer output is now off.

Audio Adjustments

Adjusting subwoofer settings

When the subwoofer output is on, you can adjust the cut-off frequency and the output level of the subwoofer.

1 Press **AUDIO** to select the subwoofer setting.

When the subwoofer output is on, you can select the subwoofer setting. Press **AUDIO** until **80Hz** appears in the display.


- If the subwoofer setting has been previously adjusted, the frequency of that previously selected will be displayed, such as **50Hz** or **125Hz**.

2 Press **◀** or **▶** to select cut-off frequency.

Press **◀** and **50Hz** is displayed. Press **▶** and **125Hz** is displayed. Only frequencies lower than those in the selected range are output from the subwoofer.

3 Press **▲** or **▼** to adjust the output level of the subwoofer.

Each press of **▲** or **▼** increases or decreases the level of the subwoofer (e.g., **+6** to **-6**).

Press **▲** or **▼** until you see the desired value displayed. 

Adjusting source levels

SLA (Source level adjustment) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources.

- Settings are based on the volume level of the FM tuner, which remains unchanged.

1 Compare the FM tuner volume level with the level of the source you wish to adjust (e.g., built-in CD player).

2 Press **AUDIO** to select SLA.

Press **AUDIO** until **SLA** appears in the display.


3 Press **▲** or **▼** to adjust the source volume.

Each press of **▲** or **▼** increases or decreases the source volume.

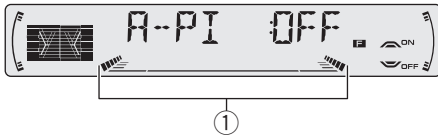
- **SLA :+4 – SLA :-4** is displayed as the source volume is increased or decreased.



Notes

- Since the FM tuner volume is the control, it is not possible to apply source level adjustments to the FM tuner.
- The MW/LW tuner volume level can also be adjusted with source level adjustments. 

Adjusting initial settings



Initial settings lets you perform initial set up of different settings for this unit.

① FUNCTION display

Shows the function status.

1 Press SOURCE and hold until the unit turns off.

2 Press FUNCTION and hold until A-PI appears in the display.

3 Press FUNCTION to select one of the initial settings.

Press **FUNCTION** repeatedly to switch between the following settings:

**A-PI—WARN—AUX—DIMMER—ILL.CLR—
FRT+REAR**

Use the following instructions to operate each particular setting.

- To cancel initial settings, press **BAND/ESC**.
- You can also cancel initial settings by holding down **FUNCTION** until the unit turns off.

Switching auto PI seek

The unit can automatically search for a different station with the same programming, even during preset recall.

1 Press FUNCTION to select A-PI.

Press **FUNCTION** repeatedly until **A-PI** appears in the display.

2 Select A-PI on or off with ▲/▼.

Pressing **▲/▼** will switch **A-PI** between on and off and that status will be displayed (e.g.,

A-PI :ON).

Switching the warning tone

If the front panel is not detached from the head unit within five seconds of turning off the ignition, a warning tone will sound. You can turn off this warning tone.

1 Press FUNCTION to select WARN.

Press **FUNCTION** repeatedly until **WARN** appears in the display.

2 Select WARN on or off with ▲/▼.

Pressing **▲/▼** will switch **WARN** between on and off and that status will be displayed (e.g.,

WARN :ON).

Initial Settings

Switching the auxiliary setting

It is possible to use auxiliary equipment with this unit. Activate the auxiliary setting when using auxiliary equipment connected to this unit.

1 Press FUNCTION to select AUX.

Press **FUNCTION** repeatedly until **AUX** appears in the display.

2 Select AUX on or off with ▲/▼.

Pressing ▲/▼ will switch **AUX** between on and off and that status will be displayed (e.g.,

AUX :ON).

Switching the dimmer setting

To prevent the display from being too bright at night, the display is automatically dimmed when the car's headlights are turned on. You can switch dimmer on or off.

1 Press FUNCTION to select DIMMER.

Press **FUNCTION** repeatedly until **DIMMER** appears in the display.

2 Select DIMMER on or off with ▲/▼.

Pressing ▲/▼ will switch **DIMMER** between on and off and that status will be displayed (e.g.,

DIMMER :ON).

Selecting the illumination color

This product is equipped with two illumination colors, green and red.

You can select the desired illumination color.

1 Press FUNCTION to select ILL. CLR.

2 Select the desired illumination color with ◀/▶.

Pressing ◀/▶ will switch **ILL. CLR** between red or green and that status will be displayed (e.g., **ILL. CLR :GRN**).

Switching the rear output setting

This unit's rear output (rear speaker leads output and RCA rear output) can be used for full-range speaker or subwoofer connection. If you switch the rear output setting to the subwoofer, you can connect a rear speaker lead directly to a subwoofer without using an auxiliary amp.

- If you connect a subwoofer to the rear output, set the output setting to subwoofer.
- Even if you change this setting, there is no output unless you switch the subwoofer output on (refer to *Using subwoofer output* on page 32).
- Both rear speaker leads output and RCA rear output are switched simultaneously in this setting.

1 Press FUNCTION to select the rear output setting mode.

Press **FUNCTION** repeatedly until **FRT+REAR** appears in the display.

- If the rear output setting has been set to the subwoofer then **FRT+S/W** will be displayed.

2 Select full-range speaker or subwoofer with ◀/▶.

Pressing ◀/▶ will switch between **FRT+REAR** (full-range speaker) and **FRT+S/W** (subwoofer) and that status will be displayed.

Using the AUX source

An IP-BUS-RCA Interconnector such as the CD-RB20 or CD-RB10 (sold separately) lets you connect this unit to auxiliary equipment featuring RCA output. For more details, refer to the IP-BUS-RCA Interconnector owner's manual.

Selecting AUX as the source

Press SOURCE to select AUX as the source.

Press **SOURCE** until **AUX** appears in the display.

- If the auxiliary setting is not switched on, **AUX** cannot be selected. For more details, see *Switching the auxiliary setting* on page 35.

Setting the AUX title

The title displayed for the **AUX** source can be changed.

1 After you have selected AUX as the source, press FUNCTION and hold until TITLE IN appears in the display.

2 Press ▲ or ▼ to select a letter of the alphabet.

Each press of ▲ will display a letter of the alphabet in **A B C ... X Y Z**, numbers and symbols in **1 2 3 ... @ # <** order. Each press of ▼ will display a letter in the reverse order, such as **Z Y X ... C B A** order.



3 Press ► to move the cursor to the next character position.

When the letter you want is displayed, press ► to move the cursor to the next position and then select the next letter. Press ◀ to move backwards in the display.

4 Move the cursor to the last position by pressing ► after entering the title.

When you press ► one more time, the entered title is stored in memory.

5 Press BAND/ESC to return to the playback display. ◻

Cellular telephone muting

Sound from this unit is muted automatically when a call is made or received using a connected cellular telephone.

- The sound is turned off, **MUTE** is displayed and no audio adjustments, except volume control, are possible. Operation returns to normal when the phone call is ended. ◻

Additional Information

Cassette tapes

- A loose, torn or warped label on a cassette tape can jam the cassette player. Do not use cassette tapes with loose, torn or warped labels.
- Cassette tapes longer than C-90 (90-minute tapes) can cause the tape to jam in the cassette player. Do not use tapes longer than C-90.
- Cassette tapes exposed to high temperatures may warp and jam the cassette player. Keep cassettes out of direct sunlight or places where there are high temperatures.



- Store unused tapes in a tape case where there is no danger of them becoming loose, dirty or dusty. ■

Cleaning the playback head

If the head becomes dirty, the sound quality will get bad and there will be sound dropouts and other problems. If you have any of these problems the head may need cleaning. ■

Music search and repeat functions

Music search and repeat functions may not work with these tapes:

- A tape with a gap of 4 seconds or less between songs
- A tape containing dialog or other non-musical content, with pauses lasting 4 seconds or longer
- A tape with an extremely quiet passage in the music lasting for 4 seconds or longer ■

Specifications

General

Power source	14.4 V DC (10.8 – 15.1 V allowable)
Grounding system	Negative type
Max. current consumption	10.0 A
Dimensions (W × H × D):	
Mounting size	178 × 50 × 157 mm
Nose	188 × 58 × 19 mm
Weight	1.4 kg

Audio/DSP

Maximum power output	50 W × 4, 50 W × 2/4 Ω + 70 W × 1/2 Ω (for subwoofer)
Continuous power output	27 W × 4 (DIN45324, +B = 14.4 V)
Load impedance	4 Ω (4 – 8 Ω [2 Ω for 1 ch] allowable)
Preout maximum output level/output impedance	2.2 V/1 kΩ
Equalizer (3-Band Parametric Equalizer)	
(Low)	Frequency: 40/80/100/160 Hz Q Factor: 0.35/0.59/0.95/1.15 (+6 dB when boosted) Level: ±12 dB
(Mid)	Frequency: 200/500/1k/2k Hz Q Factor: 0.35/0.59/0.95/1.15 (+6 dB when boosted) Level: ±12 dB
(High)	Frequency: 3.15k/8k/10k/12.5k Hz Q Factor: 0.35/0.59/0.95/1.15 (+6 dB when boosted) Level: ±12 dB
Loudness contour	
(Low)	+3.5 dB (100 Hz), +3 dB (10 kHz)
(Mid)	+10 dB (100 Hz), +6.5 dB (10 kHz)
(High)	+11 dB (100 Hz), +11 dB (10 kHz) (volume: –30 dB)

Tone controls

(Bass)	Frequency: 40/63/100/160 Hz Level: ±12 dB
(Treble)	Frequency: 2.5k/4k/6.3k/10k Hz Level: ±12 dB

Subwoofer output

Frequency	50/80/125 Hz
Slope	–12 dB/oct.
Level	±12 dB

Cassette player

Tape	Compact cassette tape (C-30 – C-90)
Tape speed	4.8 cm/sec
Fast forward/rewinding time	Approx. 100 sec (C-60)
Wow & flutter	0.09% (WRMS)
Frequency response:	
Metal	30 – 16,000 Hz (±3 dB)
Stereo separation	45 dB
Signal-to-noise ratio	
Metal:	
Dolby NR OUT	61 dB (IEC-A network)

FM tuner

Frequency range	65 – 74 MHz 87.5 – 108 MHz
Usable sensitivity	10 dBf (0.9 μV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity ...	15 dBf (1.5 μV/75 Ω, mono)
Signal-to-noise ratio	70 dB (IEC-A network)
Distortion	0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response	30 – 15,000 Hz (±3 dB)
Stereo separation	40 dB (at 65 dBf, 1 kHz)

MW tuner

Frequency range	531 – 1,602 kHz (9 kHz)
Usable sensitivity	18 μV (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)

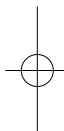
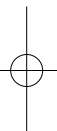
LW tuner

Frequency range	153 – 281 kHz
Usable sensitivity	30 μV (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)



Note

- Specifications and the design are subject to possible modifications without notice due to improvements. ■



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