

P8800

ENGLISH

FRANÇAIS

Multi-CD control DSP High power CD Cassette  
player with FM/AM tuner

Syntoniseur FM/AM-CD-cassette, puissante  
amplification, contrôleur DSP pour lecteur CD à chargeur

**SUPER  TUNER III**

---

# Operation Manual

# FH-P8800

## Mode d'emploi

***Pioneer***

<b>Dear Customer .....</b>	<b>3</b>	<b>Tuner Operation .....</b>	<b>21</b>
<b>Key Finder .....</b>	<b>4</b>	● Local Seek Tuning (LOCAL)	
● Head Unit (Close)		● Best Stations Memory (BSM)	
● Head Unit (Open)		<b>Using the Built-in CD Player .....</b>	<b>22</b>
● Remote Controller		● Repeat Play (REPEAT)	
<b>Remote Controller and Care .....</b>	<b>6</b>	● Random Play (RANDOM)	
Using the Remote Controller .....	6	● Scan Play (T.SCAN)	
Batteries .....	6	● Pause (PAUSE)	
<b>Before Using This Product .....</b>	<b>7</b>	● Compression and DBE (COMP/DBE)	
About This Product .....	7	● Disc Title Input (TITLE IN)	
About This Manual .....	7	● Displaying Disc Title	
● About Display Indications		CD TEXT Function .....	24
Important .....	7	<b>Using the Cassette Player .....</b>	<b>25</b>
Resetting the Microprocessor .....	7	● Repeat Play (REPEAT)	
Precaution .....	8	● Scan Play (SCAN)	
After-sales Service for Pioneer Products .....	8	● Blank Skip (B.SKIP)	
<b>Basic Operation .....</b>	<b>9</b>	● Radio Intercept (RI)	
To Listen to Music .....	9	● Dolby B NR (B NR)	
Setting the Display Angle .....	10	<b>Using Multi-CD Players .....</b>	<b>27</b>
Basic Operation of Tuner .....	11	● Repeat Play (REPEAT)	
● Manual and Seek Tuning		● Random Play (RANDOM)	
● Preset Tuning		● Scan Play (SCAN)	
● Band		● Pause (PAUSE)	
Basic Operation of Built-in CD Player .....	12	ITS (Instant Track Selection) .....	29
● Eject		● ITS Programming (ITS)	
● Disc Loading Slot		● ITS Play (ITS.PLAY)	
● Track Search and Fast Forward/Reverse		● Erase a Track Program	
Basic Operation of Cassette Player .....	13	● Erase a Disc Program	
● Open/Eject		Disc Title .....	31
● Direction Change		● Disc Title Input (TITLE IN)	
● Fast Forward/Rewind and Music Search		● Selecting Discs by	
● Cassette Loading Slot		Disc Title List (TITLE LIST)	
Basic Operation of Multi-CD Player .....	15	● Displaying Disc Title	
● Track Search and Fast Forward/Reverse		Compression and DBE (COMP/DBE) .....	33
● Disc Search		● COMP/DBE ON/OFF Switching	
● Disc Number Search		CD TEXT Function (for CD TEXT	
(for 6-Disc, 12-Disc types)		compatible type) .....	33
Corresponding Display Indications and		● Title Display Switching	
Buttons .....	16	● Title Scroll	
Entering the Function Menu .....	17	Playing Discs on a 50-Disc Type	
Function Menu Functions .....	17	Multi-CD Player .....	34
Entering the Detailed Setting Menu .....	19		
Detailed Setting Menu Functions .....	20		

<b>Audio Adjustment .....</b>	<b>35</b>
Entering the Audio Menu .....	35
Audio Menu Functions .....	35
● Balance Adjustment (FADER)	
● Subwoofer Output (SUB.W)	
● Subwoofer Setting Adjustment (80Hz)	
● Loudness Adjustment (LOUD)	
● Source Level Adjustment (SLA)	

## Using the Digital Signal

<b>Processor (DSP) .....</b>	<b>38</b>
Entering the DSP Menu .....	38
DSP Menu Functions .....	38
● Graphic Equalizer	
● Recalling the Equalizer Curves	
● 13-Band Graphic Equalizer Adjustment	
Position Selector .....	40
● About the Position Indicator	
● Setting the Listening Position (POSITION)	
Auto-equalizing Function .....	41
● Before Operating the Auto-equalization	
● Auto-equalizing	
● Error Cords of Auto-equalizing Function	

## Initial Setting ..... 45

Entering the Initial Setting Menu .....	45
Initial Setting Menu Functions .....	46
● Setting the Time	
● Setting the Calender	
● Setting the Clock Display (CLOCK)	
● Switching the AUX Mode (AUX)	
● Setting the Dimmer (DIMMER)	
● Selecting the Digital Attenuator (DIG.ATT)	
● Selecting the Contrast (CONTRAST)	

## Other Functions ..... 49

Volume Attenuator .....	49
Switching the Display .....	49
About the Demonstration Mode .....	49
Using the AUX Source .....	50
● Selecting the AUX Source	
● AUX Title Input	
Cellular Telephone Muting .....	50

<b>CD Player and Care .....</b>	<b>51</b>
Precaution .....	51
Built-in CD Player's Error Message .....	51

## Cassette Player and Care ..... 52

Precaution .....	52
● About the Cassette Player	
● About Cassette Tapes	
Cleaning the Head .....	52

## Specifications ..... 53



## *Dear Customer:*

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

### **To establish a safe level:**

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

### **Once you have established a comfortable sound level:**

- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

## **We Want You Listening For A Lifetime**

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

### **Decibel**

<b>Level</b>	<b>Example</b>
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.

### **THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE**

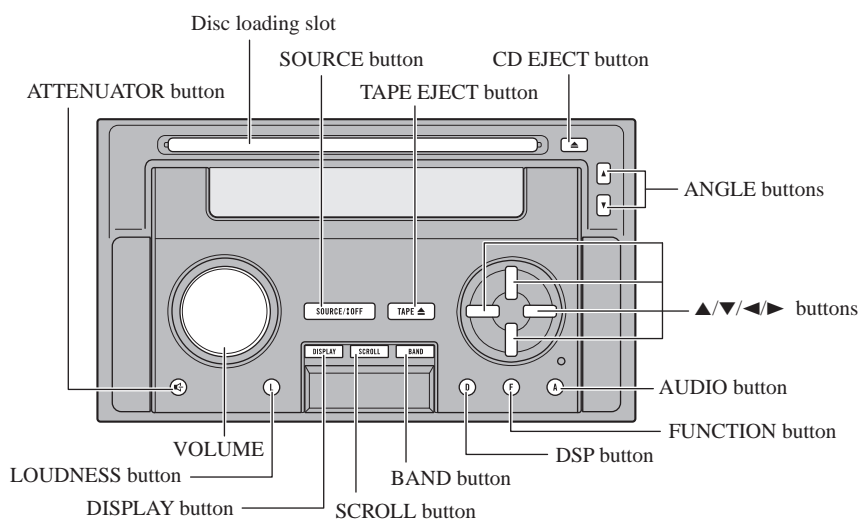
90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.



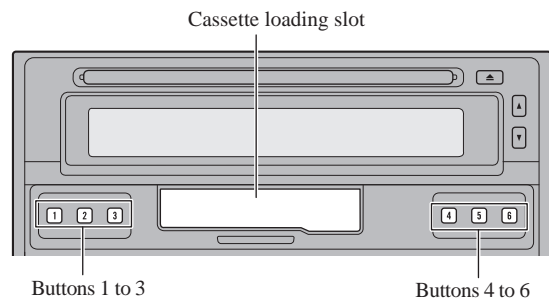
# Key Finder

## Head Unit (Close)



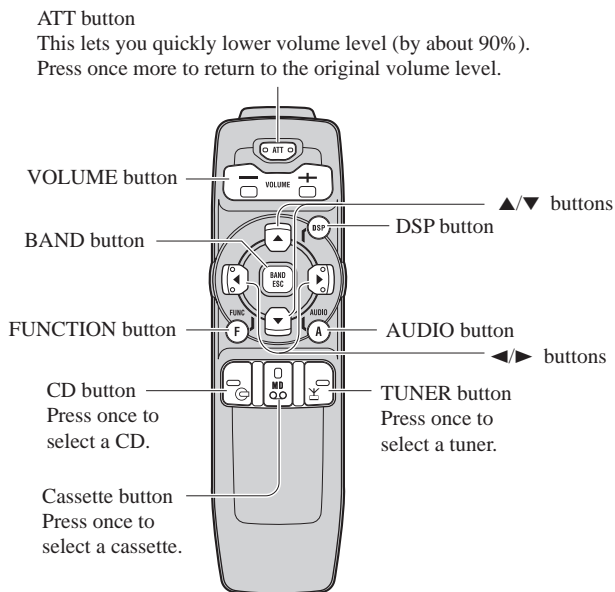
## Head Unit (Open)

Operate buttons 1 to 6 after opening the front panel.  
Refer to page 10 for details on how to open the front panel.



## Remote Controller

A remote controller that enables remote operation of the head unit is supplied. Operation is the same as when using buttons on the head unit.



## Using the Remote Controller

This product is equipped with a remote controller for convenient operation.

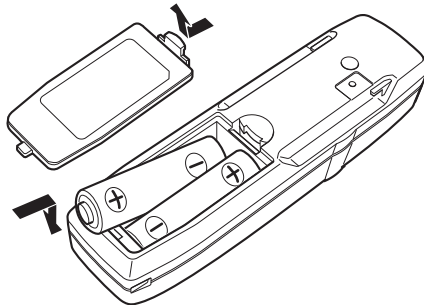
- Point the remote controller in the direction of the front panel to operate.
- When the remote controller is not in use, attach it firmly to the provided Mounting base.

### Precaution:

- Do not store the remote controller in high temperatures or direct sunlight.
- The remote controller may not function properly in direct sunlight.
- Do not let the remote controller fall onto the floor, where it may become jammed under the brake or accelerator pedal.
- If you press the FUNCTION button on the remote controller while pressing the BAND button on it, the remote controller will not function properly. To cancel this setting, press the AUDIO button on the remote controller while pressing the BAND button on it to return to the previous setting.

## Batteries

- **Remove the cover on the back of the remote controller and insert the batteries with the (+) and (–) poles pointing in the proper direction.**



### Precaution:

- Use only AAA or IEC R03 1.5 V batteries.
- Remove the batteries if the remote controller is not used for a month or longer.
- Do not attempt to recharge the supplied batteries.
- Do not mix new and used batteries.
- If the event of battery leakage, wipe the remote controller completely clean and install new batteries.

# *Before Using This Product*

## About This Product

The tuner frequencies on this product are allocated for use in North America. Use in other areas may result in improper reception.

## About This Manual

This product features a number of sophisticated functions ensuring superior reception and operation. All are designed for the easiest possible use, but many are not self-explanatory. This operation manual is intended to help you benefit fully from their 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 product. It is especially important that you read and observe the “Precaution” on page 8 and in other sections.

This manual explains head unit operation. You can perform the same operations with the remote controller. The remote controller enables one-touch source changing, a function not provided on the head unit.

## About Display Indications

This product’s display indications differ depending on whether the front panel is open or closed.

In this manual, all display indication examples are when the front panel is open.

## Important

The serial number of this device is located on the bottom of this product. For your own security and convenience, be sure to record this number on the enclosed warranty card.

## Resetting the Microprocessor

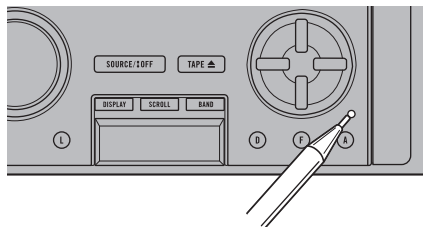
The microprocessor must be reset under the following conditions:

When using this product for the first time after installation.

When the product fails to operate properly.

When strange (incorrect) messages appear on the display.

- **To reset the microprocessor, press the RESET button on the head unit with a pen tip or other pointed instrument.**





## Precaution

**CAUTION:** USE OF CONTROL OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

**CAUTION:** THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.

- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough for outside sounds to be audible.
- Protect the product from moisture.
- If the battery is disconnected, the preset memory will be erased and must be reprogrammed.

## After-sales Service for Pioneer Products

Please contact the dealer or distributor from where you purchased the product for its after-sales service (including warranty conditions) or any other information. In case the necessary information is not available, please contact the companies listed below:

Please do not ship your product to the companies at the addresses listed below for repair without advance contact.

### ■ U.S.A.

Pioneer Electronics Service, Inc.  
CUSTOMER SERVICE  
DEPARTMENT  
P.O. Box 1760  
Long Beach, CA 90801  
800-421-1404

### ■ CANADA

Pioneer Electronics of Canada, Inc.  
CUSTOMER SERVICE  
DEPARTMENT  
300 Allstate Parkway,  
Markham, Ontario L3R 0P2  
(905) 479-4411  
1-877-283-5901

For warranty information please see the Limited Warranty sheet included with your product.

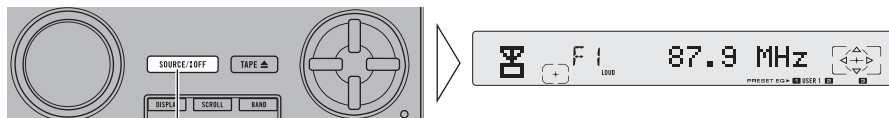
## To Listen to Music

The following explains the initial operations required before you can listen to music.

### Note:

- Loading a disc in this product. (Refer to page 12.)
- Loading a cassette tape in this product. (Refer to page 13.)

### 1. Select the desired source (e.g. Tuner).



Each press changes the Source ...

### ■ Head Unit

Each press of the SOURCE button selects the desired source in the following order:

Built-in CD player → Tuner → Cassette player → Multi-CD player →

External Unit → AUX

### ■ Remote Controller

Each press of the button selects the desired source in the following order:

CD button : Built-in CD player → Multi-CD player → Sources OFF

Cassette button : Cassette player → AUX → Sources OFF

TUNER button : Tuner → Sources OFF

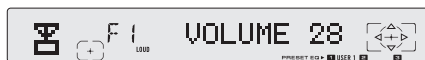
### Note:

- 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 product. Only one External Unit can be controlled by this product.
- In the following cases, the sound source will not change:
  - \* When this product corresponding to each source is not connected to this product.
  - \* No disc is set in this product.
  - \* No tape is set in this product.
  - \* No magazine is set in the Multi-CD player.
  - \* AUX (external input) is set to OFF. (Refer to page 47.)
- When this product's blue lead is connected to the car's Auto-antenna relay control terminal, the car's Auto-antenna extends when this product's source is selected the tuner. To retract the antenna, switch the sources other than tuner.

## 2. Raise or lower the volume.



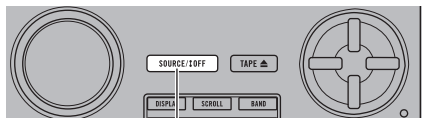
Rolling the VOLUME changes the volume level.



### Note:

- Roll clockwise if you raise the volume level.
- Roll counterclockwise if you lower the volume level.

## 3. Turn the source OFF.



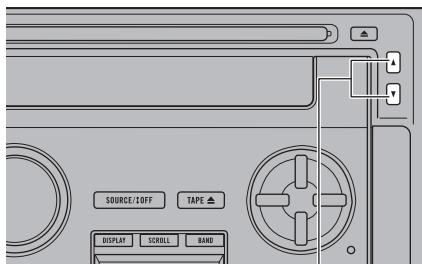
Hold for 1 second



## Setting the Display Angle

You can adjust front panel angle for easier operation. Operate buttons 1 to 6 after opening the front panel.

- Select the desired angle.



Each press changes the angle.



### WARNING:

- Do not use with the front panel left open. If you do leave it open, it may result in injury in the event of an accident.
- Be careful not to catch your finger in the front panel when it is opening or closing.

## Basic Operation of Tuner

### Manual and Seek Tuning

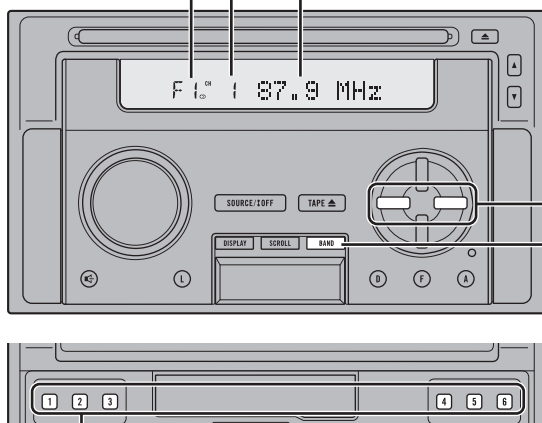
- You can select the tuning method by changing the length of time you press the ◀▶ button.

Manual Tuning (step by step)	0.5 seconds or less
Seek Tuning	0.5 seconds or more

#### Note:

- If you continue pressing the button for longer than 0.5 seconds, you can skip broadcasting stations. Seek Tuning starts as soon as you release the button.
- Stereo indicator “◐◑” lights when a stereo station is selected.

### Band Indicator    Preset Number Indicator    Frequency Indicator



### Preset Tuning

- You can memorize broadcast stations in buttons 1 through 6 for easy, one-touch station recall.

Preset station recall	2 seconds or less
Broadcast station preset memory	2 seconds or more

#### Note:

- Up to 18 FM stations (6 in F1 (FM1), F2 (FM2) and F3 (FM3)) and 6 AM stations can be stored in memory.
- You can also use the ▲ or ▼ buttons to recall broadcast stations memorized in buttons 1 through 6.

### Band

F1 (FM1) → F2 (FM2)  
→ F3 (FM3) → AM

## Basic Operation of Built-in CD Player

### Eject

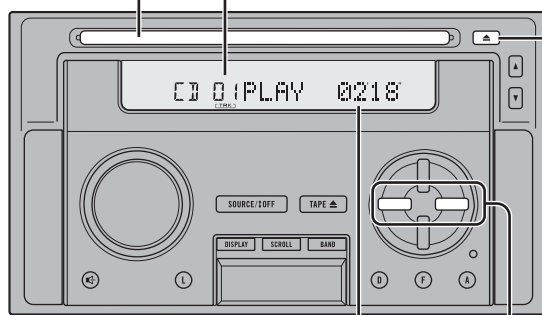
#### Note:

- The CD function can be turned ON/OFF with the disc remaining in this product. (Refer to page 9.)
- A disc left partially inserted after ejection may incur damage or fall out.

### Disc Loading Slot

The Built-in CD player plays one standard 12 cm or 8 cm (single) CD at a time. Do not use an adapter when playing 8 cm CD.

### Track Number Indicator



### Play Time Indicator

### Track Search and Fast Forward/Reverse

- You can select between Track Search or Fast forward/Reverse by pressing the ◀▶ button for a different length of time.

Track Search	0.5 seconds or less
Fast forward/Reverse	Continue pressing

#### Note:

- If a disc cannot be inserted fully or playback fails, make sure the recorded side is down. Push the CD EJECT button and check the disc for damage before reinserting it.
- If a CD is inserted with the recorded side up, it will be ejected automatically after a few moments.
- If the Built-in CD player cannot operate properly, an error message (such as "ERROR-14") appears on the display. Refer to "Built-in CD Player's Error Message" on page 51.

### Basic Operation of Cassette Player

**Note:**

- Be sure to close the front panel after loading or ejecting a cassette.

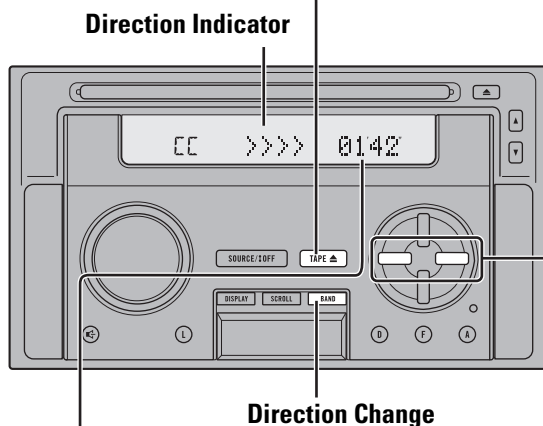
#### Open/Eject

Press the TAPE EJECT button, and the front panel opens, then the tape is ejected.

When a cassette tape is not inserted, by pressing the TAPE EJECT button, you can open or close the front panel alternately.

**Note:**

- The Tape function can be turned ON/OFF with the cassette tape remaining in this product. (Refer to page 9.)



#### Play Time Indicator

**Note:**

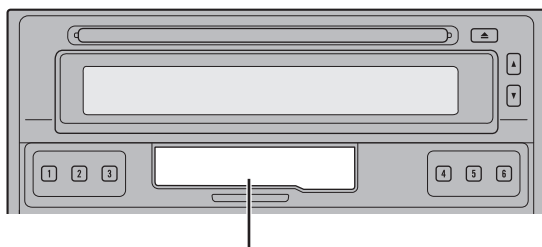
- The continuous playback time count starts at "00'00"" at the following times.
  - \* When a tape is inserted.
  - \* When the tape direction is changed.
  - \* When you rewind the tape side currently playing back to the beginning.
- The continuous playback time count is halted when fast-forwarding/rewinding and while the Music Search function is operating.

## Fast Forward/Rewind and Music Search

- Each press of the ► button selects **Fast Forward or Forward-Music Search**.  
FF (Fast Forward) → F-MS (Forward-Music Search) → Normal Playback
- Each press of the ◀ button selects **Rewind-Music Search**.  
REW (Rewind) → R-MS (Rewind-Music Search) → Normal Playback

**Note:**

- Fast Forward/Rewind and Music Search can be canceled by pressing the BAND button.



### Cassette Loading Slot

If a cassette tape is inserted, the front panel is closed automatically.

**Note:**

- Indicator “MTL” lights when a metal or chrome tape is inserted.  
Nothing is displayed for a normal tape.



### WARNING:

- Do not use with the front panel left open. If you do leave it open, it may result in injury in the event of an accident.

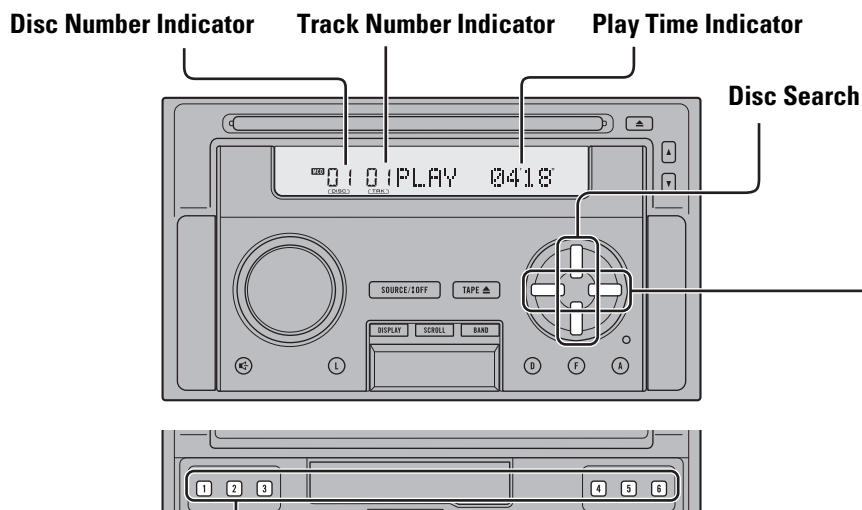
## Basic Operation of Multi-CD Player

This product can control a Multi-CD player (sold separately).

### Track Search and Fast Forward/Reverse

- You can select between Track Search or Fast Forward/Reverse by pressing the ◀/▶ button for a different length of time.

Track Search	0.5 seconds or less
Fast forward/Reverse	Continue pressing



### Disc Number Search (for 6-Disc, 12-Disc types)

- You can select discs directly with the 1 to 6 buttons. Just press the number corresponding to the disc you want to listen to.

#### Note:

- When a 12-Disc Multi-CD Player is connected and you want to select disc 7 to 12, press the 1 to 6 buttons for 2 seconds or longer.

#### Note:

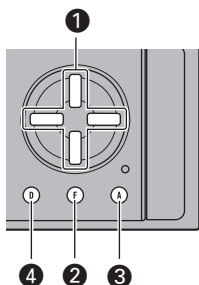
- The Multi-CD player may perform a preparatory operation, such as verifying the presence of a disc or reading disc information, when the power is turned ON or a new disc is selected for playback. "READY" is displayed.
- If the Multi-CD player cannot operate properly, an error message such as "ERROR-14" is 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.



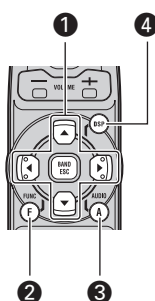
## Corresponding Display Indications and Buttons

This product's display features Key Guidance Indicators. These light to indicate which of the ▲/▼/◀/▶, FUNCTION, AUDIO and DSP buttons you can use. When you're in the Function Menu (refer to next section), Detailed Setting Menu (refer to page 19), Initial Setting Menu (refer to page 45), Audio Menu (refer to page 35) or DSP Menu (refer to page 38), they also make it easy to see which ▲/▼/◀/▶ buttons you can use to switch functions ON/OFF, switch repeat selections and perform other operations. Indicator and corresponding buttons are shown below.

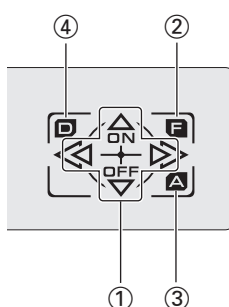
### ■ Head Unit



### ■ Remote Controller



### ■ Display



When ① is lit in the display, perform appropriate operations with the ① buttons.

When ② is lit in the display, it indicates that you are in the Function Menu, Detailed Setting Menu or Initial Setting Menu. You can switch between each of these menus and between different modes in the menus using button ② on the head unit or remote controller.

When ③ is lit in the display, it indicates you are in the Audio Menu. You can switch between modes in the Audio Menu using button ③ on the head unit or remote controller.

When ④ is lit in the display, it indicates you are in the DSP Menu. You can switch between modes in the DSP Menu using button ④ on the head unit or remote controller.

### Note:

- The Key Guidance Indicators are displayed only when the front panel is open. In this manual, all display indication examples are when the front panel is open.

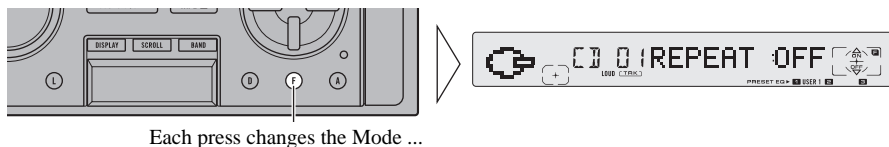
## Entering the Function Menu

The Function Menu lets you operate simple functions for each source.

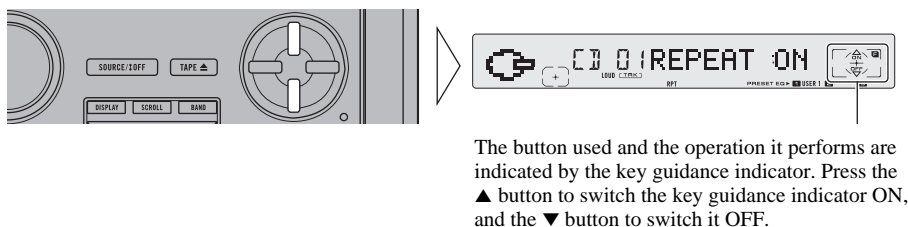
### Note:

- After entering the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

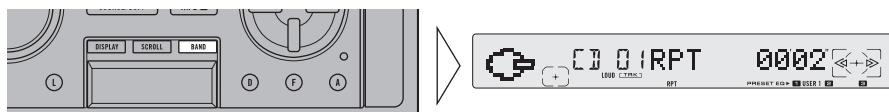
### 1. Select the desired mode in the Function Menu. (Refer to next section “Function Menu Functions”.)



### 2. Operate a mode. (e.g. Repeat Play)



### 3. Cancel the Function Menu.



## Function Menu Functions

The following chart shows functions for each source in the Function Menu.

The chart also shows indications for each function, operations and buttons used to perform operations. For more details, or when you want to know about an operation, refer to the page number indicated in the chart.

### ■ Tuner

Function name (Display)	Button: Operation	Page
Best Stations Memory (BSM)	▲:ON ▼:OFF	21
Local Seek Tuning (LOCAL)	1 ▲:ON ▼:OFF 2 ◀ or ▶:Select (Sensitivity)	21

## ■ Built-in CD Player

Function name (Display)	Button: Operation	Page
Repeat Play (REPEAT)	▲:ON ▼:OFF	22
Random Play (RANDOM)	▲:ON ▼:OFF	22
Scan Play (T.SCAN)	▲:ON ▼:OFF	23
Pause (PAUSE)	▲:ON ▼:OFF	23
Compression and DBE (COMP/DBE)	▲ or ▼:Select (Sound Quality Function)	24

## ■ Cassette Player

Function name (Display)	Button : Operation	Page
Repeat Play (REPEAT)	▲:ON ▼:OFF	25
Scan Play (SCAN)	▲:ON ▼:OFF	25
Blank Skip (B.SKIP)	▲:ON ▼:OFF	25
Radio Intercept (RI)	▶:ON ◀:OFF	26
Dolby B NR (B NR)	▶:ON ◀:OFF	26

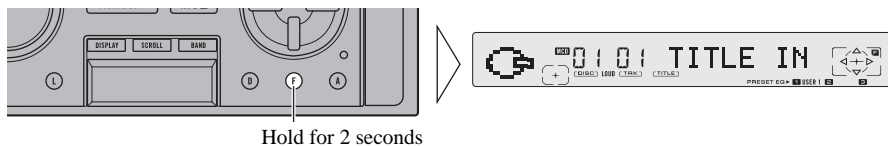
## ■ Multi-CD Player

Function name (Display)	Button: Operation	Page
Repeat Play (REPEAT)	◀ or ▶:Select (Play range)	27
Selecting Discs by Disc Title List (TITLE LIST)	1 ◀ or ▶:Select (Disc Title) 2 ▲:Play	32
Random Play (RANDOM)	▲:ON ▼:OFF	27
Scan Play (SCAN)	▲:ON ▼:OFF	28
ITS Play (ITS.PLAY)	▲:ON ▼:OFF	29
Pause (PAUSE)	▲:ON ▼:OFF	28
Compression and DBE (COMP/DBE)	▲ or ▼:Select (Sound Quality Function)	33

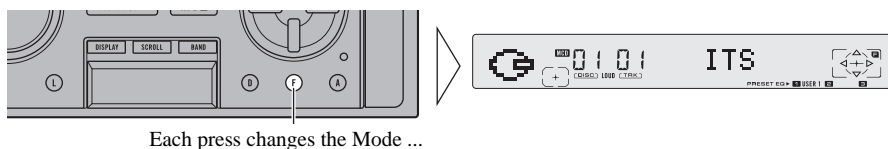
## Entering the Detailed Setting Menu

In the Detailed Setting Menu, you can operate convenient, complex functions for each source.

### 1. Enter the Detailed Setting Menu.

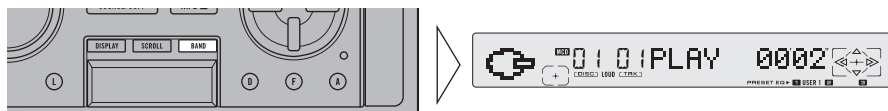


### 2. Select the desired mode. (Refer to next section “Detailed Setting Menu Functions”.)



### 3. Operate a mode.

### 4. Cancel the Detailed Setting Menu.



#### Note:

- You can cancel the Detailed Setting Menu by pressing the FUNCTION button again for 2 seconds or more.

## Detailed Setting Menu Functions

The following chart shows functions for each source in the Detailed Setting Menu. The chart also shows indications for each function, operations and buttons used to perform operations. For more details, or when you want to know about an operation, refer to the page number indicated in the chart.

### ■ Built-in CD Player

Function name (Display)	Button: Operation	Page
Disc Title Input (TITLE IN)	1 ▲ or ▼:Select (Letter)	24
	2 ◀ or ▶:Select (Position)	
	3 ►:Memory	

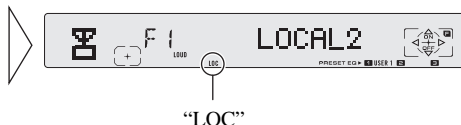
### ■ Multi-CD Player

Function name (Display)	Button: Operation	Page
Disc Title Input (TITLE IN)	1 ▲ or ▼:Select (Letter)	31
	2 ◀ or ▶:Select (Position)	
	3 ►:Memory	
ITS Programming (ITS)	▲:Memory	29

## Local Seek Tuning (LOCAL)

When Local mode is ON, you can only select broadcast stations providing strong reception.

1. Press the **FUNCTION** button and select the **Local mode (LOCAL)** in the **Function Menu**.
2. Switch the Local ON/OFF with the **▲/▼** buttons.



3. Select the desired Local Seek sensitivity with the **◀/▶** buttons.



FM : LOCAL 1 ↔ LOCAL 2 ↔ LOCAL 3 ↔ LOCAL 4  
 AM : LOCAL 1 ↔ LOCAL 2

### Note:

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

## Best Stations Memory (BSM)

The BSM (Best Stations Memory) function stores stations in memory automatically.

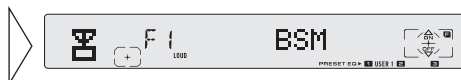
1. Press the **FUNCTION** button and select the **BSM mode (BSM)** in the **Function Menu**.

2. Switch the BSM ON with the **▲** button.

The stations with the strongest signals will be stored under buttons 1 to 6 and in order of their signal strength.



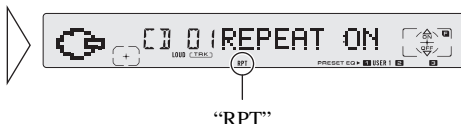
- To cancel the process, press the **▼** button in the **Function Menu** before memorization is complete.



## Repeat Play (REPEAT)

Repeat Play plays the same track repeatedly.

1. Press the **FUNCTION** button and select the Repeat mode (REPEAT) in the Function Menu.
2. Switch Repeat Play ON/OFF with the **▲/▼** buttons.



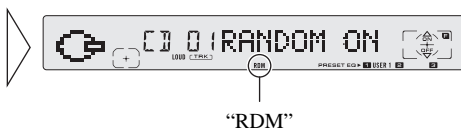
### Note:

- If you perform Track Search or Fast forward/Reverse, Repeat Play is automatically canceled.

## Random Play (RANDOM)

Random Play plays the tracks on a CD in random order for variety.

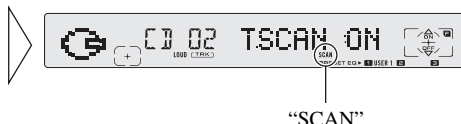
1. Press the **FUNCTION** button and select the Random mode (RANDOM) in the Function Menu.
2. Switch Random Play ON/OFF with the **▲/▼** buttons.



## Scan Play (T.SCAN)

Scan Play plays the first 10 seconds or so of each track on a CD in succession.

1. Press the **FUNCTION** button and select the Scan mode (T.SCAN) in the Function Menu.
2. Switch the Scan Play ON with the **▲** button.



3. When you find the desired track, cancel scan play with the **▼** button.



If the Function Menu is automatically canceled at this time, select the Scan mode in the Function Menu once more.

### Note:

- Scan Play is canceled automatically after all the tracks on a disc have been scanned.

## Pause (PAUSE)

Pause pauses the currently playing track.

1. Press the **FUNCTION** button and select the Pause mode (PAUSE) in the Function Menu.
2. Switch the Pause ON/OFF with the **▲/▼** buttons.





## Compression and DBE (COMP/DBE)

Using the COMP (Compression) and DBE (Dynamic Bass Emphasis) functions enables Built-in CD player sound quality adjustment. Each of the functions enables two-step adjustment.

### ■ COMP

The COMP (Compression) function adjusts imbalances between loud and subdued sounds at higher volumes.

### ■ DBE

DBE (Dynamic Bass Emphasis) boosts bass levels to give a fuller sound.

1. Press the **FUNCTION** button and select the **COMP/DBE Switching mode (COMP/DBE)** in the Function Menu.
2. Select the desired mode with the **▲/▼** buttons.

COMP OFF → COMP 1 → COMP 2  
→ COMP OFF → DBE 1 → DBE 2



## Disc Title Input (TITLE IN)

You can input up to 48 disc titles for CDs in the Built-in CD player. (Refer to “Disc Title Input” on page 31 under “Using Multi-CD Players”.)

### Note:

- After the title for 48 discs have been entered, data for a new disc will overwrite the oldest one.
- If you connect a Multi-CD player, you can input disc titles for up to 100 discs.
- When playing a CD TEXT disc on this product, you cannot switch to this mode.
- A CD TEXT disc is a CD featuring recorded text information such as Disc Title, Artist Name and Track Title.

## Displaying Disc Title

You can display the currently playing Disc Title. (Refer to “Displaying Disc Title” on page 32 under “Using Multi-CD Players”.)

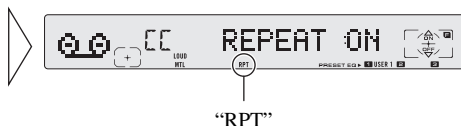
## CD TEXT Function

You can use these functions when playing a CD TEXT disc on the Built-in CD player. (Refer to “CD TEXT Function” on page 33 under “Using Multi-CD Players”.)

## Repeat Play (REPEAT)

The repeat mode lets you hear the same song over again.

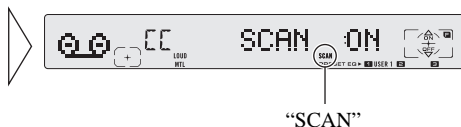
1. Press the **FUNCTION** button and select the Repeat mode (REPEAT) in the Function Menu.
2. Switch the Repeat Play ON/OFF with the **▲/▼** buttons.



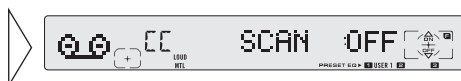
## Scan Play (SCAN)

This function plays approximately the first 10 seconds of each song in succession. This is useful for finding a particular song you want to hear.

1. Press the **FUNCTION** button and select the Scan mode (SCAN) in the Function Menu.
2. Switch the Scan Play ON with the **▲** button.



3. When you hear the song you are looking for, cancel the Scan Play with the **▼** button.

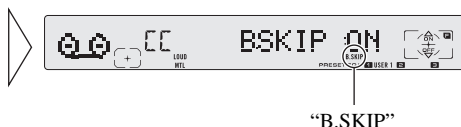


If the Function Menu is automatically canceled at this time, select the Scan mode in the Function Menu once more.

## Blank Skip (B.SKIP)

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

1. Press the **FUNCTION** button and select the Blank Skip mode (B.SKIP) in the Function Menu.
2. Switch the Blank Skip ON/OFF with the **▲/▼** buttons.



## Radio Intercept (RI)

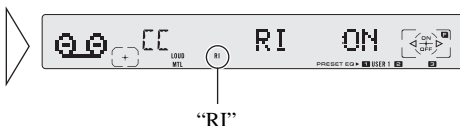
This function allows you to listen to the radio during tape fast-forwarding/rewinding.

**Note:**

- The radio intercept function does not work during a Music Search operation.

1. Press the **FUNCTION** button and select the **Radio Intercept switching mode (RI)** in the Function Menu.

2. Switch the Radio Intercept **ON/OFF** with the **◀/▶** buttons.

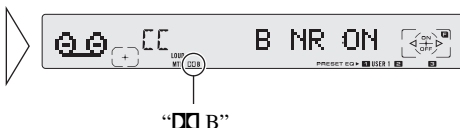


## Dolby B NR (B NR)

Switch to the Dolby B NR on when listening to a cassette recorded with Dolby B NR.

1. Press the **FUNCTION** button and select the **Dolby B NR mode (B NR)** in the Function Menu.

2. Switch the Dolby B NR **ON/OFF** with the **◀/▶** buttons.



**Note:**

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. “DOLBY” and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

## Repeat Play (REPEAT)

There are three repeat play ranges: One-track Repeat, Disc Repeat and Multi-CD player Repeat. Default repeat play range is Multi-CD player Repeat.

### 1. Press the **FUNCTION** button and select the Repeat Selecting mode (REPEAT) in the Function Menu.

### 2. Select the desired repeat play range with the ◀/▶ buttons.

Multi-CD player Repeat (“MCD” is displayed) → One-track Repeat (“TRK” is displayed and “RPT” indicator lights) → Disc Repeat (“DSC” is displayed and “DISC” indicator lights)



#### Note:

- If you select other discs during the repeat play, the repeat play range changes to Multi-CD player Repeat.
- If you perform Track Search or Fast Forward/Reverse during One-track Repeat, the repeat play range changes to Disc Repeat.

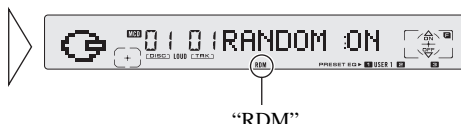
## Random Play (RANDOM)

Tracks are played at random within the selected repeat play range as explained in “Repeat Play” above.

### 1. Press the **FUNCTION** button and select the Random mode (RANDOM) in the Function Menu.

### 2. Switch the Random Play ON/OFF with the ▲/▼ buttons.

After selecting the desired repeat play range from those referred to in “Repeat Play” above, switch Multi-CD Player Random Play ON.



#### Note:

- One-track Repeat changes to the Disc Repeat when you switch the Random Play ON.

# **Scan Play (SCAN)**

In the Disc Repeat, the beginning of each track on the selected disc is scanned for about 10 seconds. In the Multi-CD player Repeat, the beginning of the first track on each disc is scanned for about 10 seconds.

1. Press the **FUNCTION** button and select the Scan mode (SCAN) in the Function Menu.

2. Switch the Scan Play ON with the **▲** button.

After selecting the desired repeat play range from those referred to in “Repeat Play” on page 27, switch Multi-CD Player Scan Play ON.



3. When you find the desired track (or disc), cancel the Scan Play with the **▼** button.

If the Function Menu is automatically canceled at this time, select the Scan mode in the Function Menu once more.



Display	Play range
T.SCAN	Disc Repeat
D.SCAN	Multi-CD player Repeat

## **Note:**

- Scan Play is canceled automatically after all the tracks or discs have been scanned.
- One-track Repeat changes to the Disc Repeat when you switch the Scan Play ON.

# **Pause (PAUSE)**

Pause pauses the currently playing track.

1. Press the **FUNCTION** button and select the Pause mode (PAUSE) in the Function Menu.

2. Switch the Pause ON/OFF with the **▲/▼** buttons.



## ITS (Instant Track Selection)

The ITS function allows you to search for the track you wish to play when a Multi-CD player is installed. You can use ITS to program automatic playback of up to 24 tracks per disc from up to 100 discs. (You can store ITS program and Disc Title data for up to 100 discs in memory.)

### ITS Programming (ITS)

Programmed tracks are played within the selected repeat play range in the “Repeat Play” on page 27.

1. **Play the track you wish to program.**
2. **Select the ITS Programming mode (ITS) in the Detailed Setting Menu.** (Refer to page 19.)
3. **Program the desired track with the ▲ button.**



**Note:**

- After 100 discs have been programmed, data for a new disc will overwrite the data for the disc that has not been played back for the longest time.

### ITS Play (ITS.PLAY)

ITS play of tracks is performed within the play range explained in the “Repeat Play” section.

1. **Press the FUNCTION button and select the ITS Play mode (ITS.PLAY) in the Function Menu.**
2. **Switch the ITS play ON/OFF with the ▲/▼ buttons.**



After selecting the desired repeat play range from those referred to in “Repeat Play” on page 27, switch ITS play ON.

**Note:**

- If no track in the current range is programmed for ITS play, “ITS EMPTY” is displayed.

## Erase a Track Program

1. Select the track you wish to erase, during ITS play.
2. Select the ITS Programming mode (ITS) in the Detailed Setting Menu. (Refer to page 19.)
3. Erase the track program with the ▼ button.

ITS is canceled and playback of the next ITS-programmed track begins. If there are no more programmed tracks in the current range, "ITS EMPTY" is displayed and normal play resumes.



## Erase a Disc Program

1. Select the disc you wish to erase, while the disc is playing.
2. Select the ITS Programming mode (ITS) in the Detailed Setting Menu. (Refer to page 19.)
3. Erase the disc program with the ▼ button.



## Disc Title

### Disc Title Input (TITLE IN)

You can input Titles up to 10 letters long for up to 100 discs. Using this function lets you easily search for and select a desired disc for play. (You can store ITS program and Disc Title data for up to 100 discs in memory.)

1. Play the disc you wish to input the disc title.
2. Select the Disc Title Input mode (TITLE IN) in the Detailed Setting Menu. (Refer to page 19.)

#### Note:

- When playing a CD TEXT disc on a CD TEXT compatible Multi-CD player, you cannot switch to this mode.
- A CD TEXT disc is a CD featuring recorded text information such as Disc Title, Artist Name and Track Title.

3. Switch the desired character type with the button 1.



Each press of button 1 changes the character type in the following order:  
Alphabet (Upper case), Numbers and Symbols → Alphabet (Lower case)

#### Note:

- You can select to input the Numbers and Symbols by pressing button 2.

4. Select letters, numbers and symbols with the ▲/▼ buttons.

To insert a space, select the flashing cursor “\_”.



5. Move the box left and right with the ◀/▶ buttons.



6. When you have completed title input, make the 10th letter flash, then memorize by pressing the ► button.





**Note:**

- Titles remain in memory, even after the disc has been removed from the magazine, and are recalled when the disc is reinserted.
- After the titles for 100 discs have been entered, data for a new disc will overwrite the data for the disc that has not been played back for the longest time.
- You can display the disc title of the disc currently playing. For details, refer to “Displaying Disc Title” on this page.

## Selecting Discs by Disc Title List (TITLE LIST)

Follow the procedures below to play a disc for which you have input the title in a Multi-CD player or a CD TEXT disc on a CD TEXT compatible Multi-CD player.

### 1. Press the FUNCTION button and select the Disc Title List mode (TITLE LIST) in the Function Menu.

### 2. Select the desired disc title with the ◀/▶ buttons.

“NO D-TITLE” is displayed for disc whose titles have not been input.



### 3. Play the selected disc with the ▲ button.



## Displaying Disc Title

You can display the currently playing Disc Title.

**Note:**

- You can also display the currently playing Disc Title when playing a CD TEXT disc on a CD TEXT compatible Multi-CD player.
- **Switch the Disc Title Display.**

Each press of the DISPLAY button changes the display in the following order:



Playback mode (Play Time) → Disc Title → D.Artist (Disc Artist Name) → Track Title → T.Artist (Track Artist Name) → Clock → Calender → Entertainment

**Note:**

- If you switch displays when disc titles have not been input, “NO D-TITLE” is displayed.
- If you select “D.Artist”, “Track Title” or “T.Artist”, “NO ~” (e.g. “NO TA-NAME”) is displayed.
- Refer to “Switching the Display” on page 49 for details on “Clock”, “Calender” and “Entertainment”.

## Compression and DBE (COMP/DBE)

Using the COMP (Compression) and DBE (Dynamic Bass Emphasis) functions enables Multi-CD player sound quality adjustment. Each of the functions enables two-step adjustment.

### COMP/DBE ON/OFF Switching

#### ■ COMP

The COMP (Compression) function adjusts imbalances between loud and subdued sounds at higher volumes.

#### ■ DBE

DBE (Dynamic Bass Emphasis) boosts bass levels to give a fuller sound.

1. Press the **FUNCTION** button and select the **COMP/DBE Switching mode (COMP/DBE)** in the Function Menu.

2. Select the desired mode with the **▲/▼** buttons.

COMP OFF → COMP 1 → COMP 2  
→ COMP OFF → DBE 1 → DBE 2



## CD TEXT Function (for CD TEXT compatible type)

You can use these functions when playing a CD TEXT disc on a CD TEXT compatible Multi-CD player.

### Title Display Switching

- Select the desired title display with the **DISPLAY** button.

Each press of the DISPLAY button changes the display in the following order:

Playback mode (Play Time) → Disc Title → D.Artist (Disc Artist Name) → Track Title → T.Artist (Track Artist Name) → Clock → Calender → Entertainment

#### Note:

- If certain text information is not recorded on a CD TEXT disc, “NO ~” (e.g. “NO TRACK TITLE”) is displayed.
- Refer to “Switching the Display” on page 49 for details on “Clock”, “Calender” and “Entertainment”.



## Title Scroll

This product displays the first 10 letters only of “Disc Title”, “D.Artist”, “Track Title” and “T.Artist”. With text longer than 10 letters, you can see the rest of the text by scrolling.

- **Scroll the title display by pressing the SCROLL button.**



## Playing Discs on a 50-Disc Type Multi-CD Player

When a magazine is loaded into a 50-Disc type Multi-CD Player, information on all the discs in the magazine is read.

If you start playing a disc on a 50-Disc type Multi-CD Player before reading of information on all discs has been completed, reading of information stops part way through. This will prevent you from using the ITS function. (If you try and use this function, “NOT READY” is displayed.)

If this happens, reading of information begins again when you switch to a component other than the 50-Disc type Multi-CD Player.

### Note:

- “LOAD” will be displayed in the following cases:
  - \* If the disc in the extra tray is selected.
  - \* If the disc is moved from the extra tray to the magazine.  
(Refer to the 50-Disc type Multi-CD player owner’s manual.)
- You cannot use the “Ejecting a Single Disc”, “Frequency Play”, “Music Group Play” or “ABC Disc Title Search” functions with this product.

## ■ Disc Number Rough Search

This handy function lets you select discs loaded in a 50-Disc Multi-CD Player using the 1 to 5 buttons. The 50 discs are divided into five blocks, with each of the 1 to 5 buttons assigned to a block.

- **Select the desired block with the 1 to 5 buttons.**

### Note:

- After completing a rough search, use the ▲ and ▼ buttons to select a desired disc.

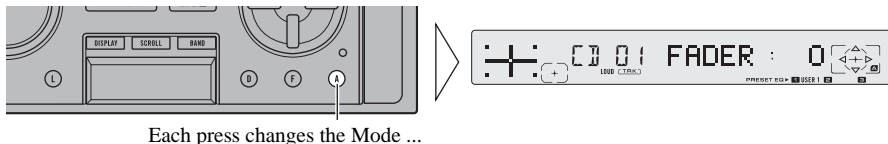
## Entering the Audio Menu

With this Menu, you can adjust the sound quality.

### Note:

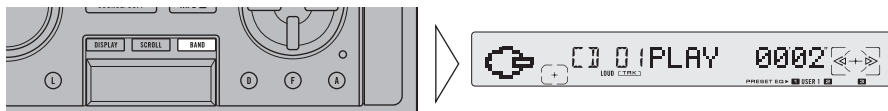
- After entering the Audio Menu, if you do not perform an operation within about 30 seconds, the Audio Menu is automatically canceled.

### 1. Select the desired mode in the Audio Menu.



### 2. Operate a mode.

### 3. Cancel the Audio Menu.



## Audio Menu Functions

The Audio Menu features the following functions.

### Balance Adjustment (FADER)

This function allows you to select a Fader/Balance setting that provides ideal listening conditions in all occupied seats.

#### 1. Press the AUDIO button and select Fader/Balance mode (FADER) in the Audio Menu.

#### 2. Adjust front/rear speaker balance with the ▲/▼ buttons.

“FADER :F25” – “FADER :R25” is displayed as it moves from front to rear.



#### 3. Adjust left/right speaker balance with the ◀/▶ buttons.

“BAL :L25” – “BAL :R25” is displayed as it moves from left to right.



### Note:

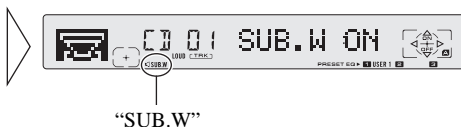
- “FADER : 0” is the proper setting when 2 speakers are in use.

## Subwoofer Output (SUB.W)

This product is equipped with a Subwoofer output which can be switched ON or OFF. Initially, Subwoofer output is OFF.

1. Press the **AUDIO** button and select the Subwoofer ON/OFF mode (SUB.W) in the Audio Menu.

2. Switch the Subwoofer output ON/OFF with the **▲/▼** buttons.



3. Change the phase of Subwoofer output with the **◀/▶** buttons.



### Note:

- Select the OFF setting when you do not want the Subwoofer to operate.

## Subwoofer Setting Adjustment (80Hz)

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

1. Press the **AUDIO** button and select the Subwoofer setting mode (80Hz) in the Audio Menu.

2. Select the frequency to 50 Hz, 80 Hz or 125 Hz with the **◀/▶** buttons.



3. Increase or decrease the output level with the **▲/▼** buttons.

The display shows “+6” – “-6”.



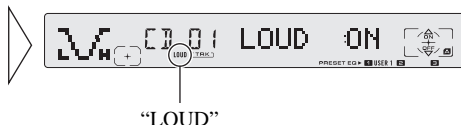
### Note:

- You can select the Subwoofer setting mode only when Subwoofer output is switched ON in the Subwoofer ON/OFF mode.

## Loudness Adjustment (LOUD)

The Loudness function compensates for deficiencies in the low and high sound ranges at low volume. Initially, Loudness function is ON.

1. Press the **AUDIO** button and select the **Loudness mode (LOUD)** in the Audio Menu.
2. Switch the Loudness function ON/OFF with the **▲/▼** buttons.



### Note:

- You can also switch the Loudness function ON/OFF by pressing the **LOUDNESS** button.

## Source Level Adjustment (SLA)

The SLA (Source Level Adjustment) function prevents radical leaps in volume when switching between sources. Settings are based on the FM volume, which remains unchanged. (Since the FM volume is the control, SLA is not possible in the FM modes.) The AM, cassette, CD, External Unit and AUX levels can all be adjusted. (The Built-in CD player and Multi-CD player are set to the same volume adjustment setting automatically.)

1. Compare the FM volume with the volume of the other source.  
(e.g. Built-in CD player)
2. Press the **AUDIO** button and select the **SLA mode (SLA)** in the Audio Menu.
3. Increase or decrease the level with the **▲/▼** buttons.

The display shows “+4” – “-4”.



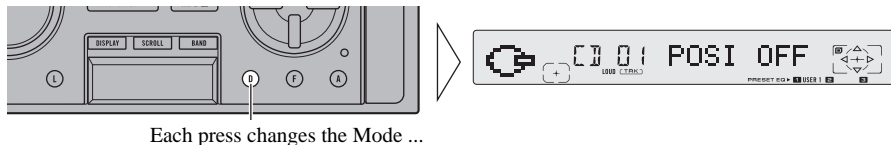
## Entering the DSP Menu

With this Menu, you can adjust the sound field.

### Note:

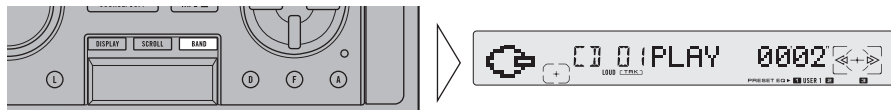
- After entering the DSP Menu, if you do not perform an operation within about 30 seconds, the DSP Menu is automatically canceled.

### 1. Select the desired mode in the DSP Menu.



### 2. Operate a mode.

### 3. Cancel the DSP Menu.



## DSP Menu Functions

The DSP Menu features the following functions.

### Graphic Equalizer

Enables adjustment of equalization to match car interior acoustic characteristics as desired.

#### ■ Flat


No supplement or correction is made to the sound. A useful function to check the effect of the equalizer curves by switching alternatively between FLAT and a set equalizer curve.

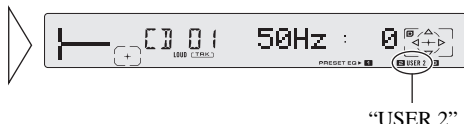
#### ■ User Curves (User 1, 2)

User curves (User 1, 2) can be stored as an adjusted equalizer curve. Adjustment can be made by 13-Band Graphic Equalizer Adjustment.

## Recalling the Equalizer Curves

You can easily recall equalizer curves.

1. Press the DSP button and select the Graphic Equalizer mode (50Hz) in the DSP Menu.
  2. Select the desired equalizer curve with one of the buttons from 1 to 3. (e.g. Press button 2.)
- 
- The diagram shows a rectangular display area representing the DSP menu. On the left, there is a large right-pointing arrow. Inside the display area, on the left, is a vertical bar with a small square at its base, and a small circle with a plus sign (+) next to it. To the right of this is the text 'EQ 01'. Further right is '50Hz :'. To the right of that is a '0' followed by a small square with a plus sign (+) and a small square with a minus sign (-). Below the 'EQ 01' text is 'LOAD (TRC)'. Below the '50Hz :' text is 'PRESET EQ'. At the bottom right of the display area is a button labeled 'EQ 01' with a small circle around it.





**Note:**

- When you have performed Auto-equalizing (refer to page 41), you can turn AUTO EQ ON and OFF by pressing the button for the equalizer curve that was called.

Button	Display	Equalizer Curve
1	USER 1	User 1
2	USER 2	User 2
3	FLAT	Flat

### 13-Band Graphic Equalizer Adjustment

The user curves (User 1, 2) let you make fine adjustments to equalizer curve frequency levels. Adjustments are automatically memorized.

1. Press the DSP button and select the Graphic Equalizer mode (50Hz) in the DSP Menu.
2. Recall User curve (User 1 or 2). (Refer to previous section.)
3. Select the band to be adjusted with the   buttons.



- 50 ↔ 80 ↔ 125 ↔ 200 ↔ 315  
↔ 500 ↔ 800 ↔ 1.3 k ↔ 2 k  
↔ 3.2 k ↔ 5 k ↔ 8 k ↔ 12.5 k (Hz)

- 4. Adjust the level with the ▲/▼ buttons.**

The display shows “+6” – “–6”.





## 5. Repeat steps 3 to 4 for the other band adjustments.

### Note:

- You can create different User curves for different sources. (The Built-in CD Player and Multi-CD Player are set to the same Equalizer Adjustment setting automatically.)
- When you have selected User 1, if you press button 2 for two seconds or more, the User 1 curve is memorized in User 2. This is convenient when you want to return the User 1 curve to its original settings and create a curve for User 2. (When you have selected User 2, if you press button 1 for two seconds or more, the User 2 curve is memorized in User 1.)

## Position Selector

One way to assure a more natural sound is to clearly position the stereo sound image (putting you in the center of the sound field).

The Position Selector function adjusts volume level of sound from each speaker to match seat positions and the number of people in the car, and lets you recall settings at the touch of a button. The result is a natural sound regardless of the seat you are sitting in.

Button	Display	Position
▲	FRONT	Front Seat Right & Left
▼	ALL	All Seats
◀	FRONT-L	Front Seat Left
▶	FRONT-R	Front Seat Right

## About the Position Indicator

This lets you confirm current Position setting without switching to the Position Selector mode.

Front Seat  
Left



Front Seat  
Right



Front Seat  
Right&Left



All Seats



## Setting the Listening Position (POSITION)

- Press the DSP button and select the Position Selector mode (POSITION) in the DSP Menu.
- Press one of buttons ▲/▼/◀/▶ to select the desired Position.  
(e.g. Press button ◀.)



To cancel the listening position, press the same button again.

## Auto-equalizing Function

This product's Auto-equalizer automatically measures car interior acoustic characteristics, and then creates the Auto-equalizer curve based on that information.

### Before Operating the Auto-equalization

#### ■ WARNING:

- To prevent accidents, never perform Auto-equalizing when driving. When this function measures car interior acoustic characteristics to create an Auto-equalizer curve, a loud measurement tone (noise) may be output from the speakers.

#### ■ Precaution:

- Performing Auto-equalizing under the following conditions may damage the speakers. Be sure to check conditions thoroughly before performing Auto-equalizing.
  - \* When speakers are incorrectly connected. (e.g. When a rear speaker is connected to a subwoofer output.)
  - \* When a speaker is connected to a power amp delivering output higher than the speaker's maximum input power capability.
- If the microphone is placed in an unsuitable position the measurement tone may become loud and measurement may take a long time, resulting in a drain on battery power. Be sure to place the microphone in the specified location. (Refer to page 42.)

#### ■ Read this before performing Auto-equalizing

- Perform Auto-equalizing in as quiet a place as possible, with the car engine and air conditioning switched off. Also cut power to car or portable telephones in the car, or remove from the car before performing Auto-equalizing. Sounds other than the measurement tone (surrounding sounds, engine sound, telephones ringing etc.) may prevent correct measurement of car interior acoustic characteristics.
- Be sure to perform Auto-equalizing with the supplied microphone. Using another microphone will prevent measurement, or result in incorrect measurement of car interior acoustic characteristics.
- With no speaker connected, Auto-equalizing cannot be performed.
- When connected to a power amp with input level control, Auto-equalizing may not be possible if you lower power amp input level. Set the power amp's input level to the standard position.
- After normal completion of Auto-equalizing, fader/balance settings (refer to page 35) return to the center position (initial settings).
- If you perform Auto-equalizing when Auto-equalizer curve already exists, the previous curve is erased.
- If you perform Auto-equalizing, the equalizer curve switches to flat.
- If you perform Auto-equalizing while a Subwoofer is connected to this product, it will be adjusted automatically Subwoofer output setting. (Subwoofer output is automatically turned on adjusted even if you have turned it off before.)

- After the Auto-equalizing function countdown has started, do not switch a source ON by loading a CD or a cassette, or with the voice controller.

## **Auto-equalizing**

### **1. Select the position for the seat on which the microphone is placed.**

(Refer to “Position Selector” on page 40.)

- When not setting for the “Front Seat Left” or “Front Seat Right”, if you start Auto-equalizing, “Front Seat Right” is automatically selected.

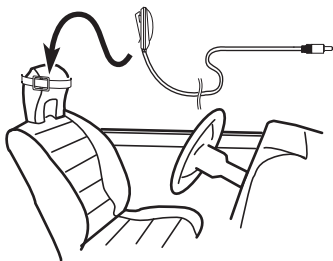
### **2. Stop the car in a place that’s as quiet as possible, close all doors, windows, the sun roof, and switch the engine off.**

If the engine is left running, engine noise may prevent correct Auto-equalizing.

### **3. Fix the provided microphone in the center of the headrest of the driver’s seat, facing forward, using the belt (sold separately).**

The Auto-equalizer curve may differ depending on where you place the microphone.

If desired, place the microphone on the front passenger seat and perform Auto-equalizing.



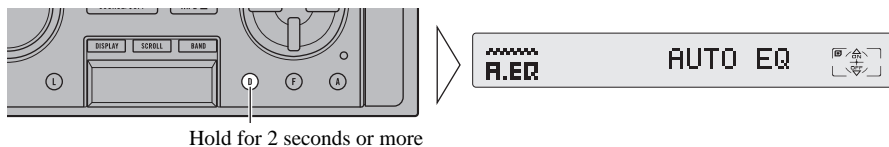
### **4. Switch the ignition switch to ON or ACC.**

If the car’s air conditioner or heater is switched on, switch it off. Noise from the fan in the air conditioner or heater may prevent correct Auto-equalizing.

### **5. Switch the source OFF.**

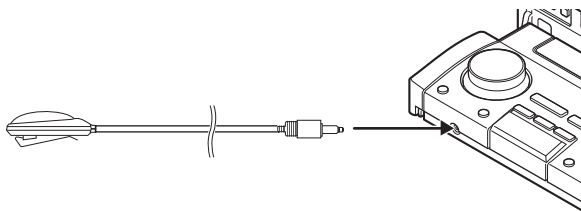
**Continued overleaf.**

## 6. Enter the Auto-equalizing mode (AUTO EQ).



The front panel opens automatically.

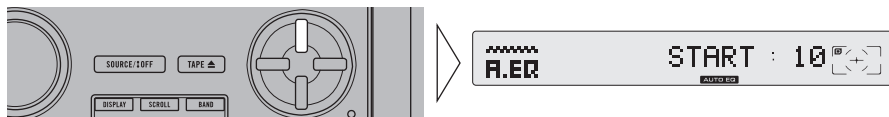
## 7. Plug the provided microphone into the microphone input jack on this unit.



### Note:

- When the front panel is open, if it touches the shift lever or prevents connection of the microphone to the jack, press the BAND button and cancel the Auto-equalizing mode. Then press the Angle button and adjust the front panel to enable connection of the microphone. After connecting the microphone to the jack, perform the operation in step 6, switch to the Auto-equalizing mode and select step 8.

## 8. Start the Auto-equalizing.



## 9. Get out of the car and close the door within 10 seconds, if a 10-second count-down starts.

The measurement tone (noise) is output from the speakers, and Auto-equalizing (acoustic characteristics measurement and compensation) begins.

### Note:

- When all speaker units are connected, Auto-equalizing is completed in about 7 or 8 minutes.
- To cancel Auto-equalizing part way through, press any button.

# 10. When Auto-equalizing is completed, a message is displayed as below.



When correct measurement of car interior acoustic characteristics is not possible, an error message is displayed. (Refer to error messages on this page.)

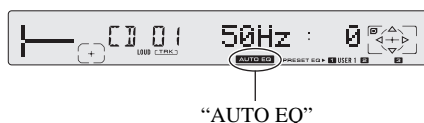
# 11. To cancel the Auto-equalizing mode, press any button.

# 12. Store the microphone carefully in the glove compartment.

Store the microphone carefully in the glove compartment or other safe place. If the microphone is subjected to direct sunlight for an extended period, high temperatures may cause it to deform, change color and malfunction.

## ■ When Auto-equalizing was performed correctly:

AUTO EQ ON applies to, and the “AUTO EQ” indicator lights for, all equalizer curves that are called (refer to page 39.). The called equalizer curve is set after it is corrected by Auto-equalizing.



## Error Cords of Auto-equalizing Function

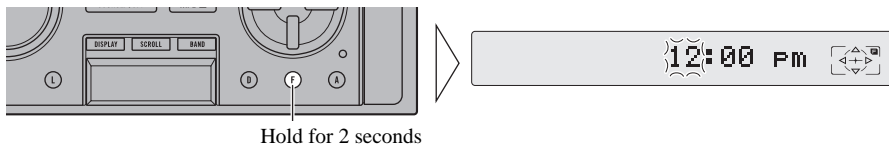
When correct measurement of car interior acoustic characteristics is not possible with the Auto-equalizer, the following error messages are displayed. After checking, try again.

Display	Cause	Remedy
ERROR-1	Microphone is not connected.	Plug in the supplied microphone securely into the jack.
ERROR-2	The microphone cannot pick up the measuring tone of the front and rear speakers.	Confirm that the speakers are connected correctly. Set the input level setting of the power amp connected to the speakers correctly. Correctly set the microphone.
ERROR-3	The surrounding noise level is too high.	Stop your car in a place that's as quite as possible, and switch off the engine and air conditioner or heater. Correctly set the microphone.

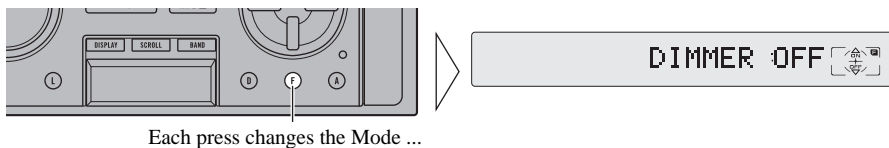
## Entering the Initial Setting Menu

With this Menu, you can perform initial settings for the product.

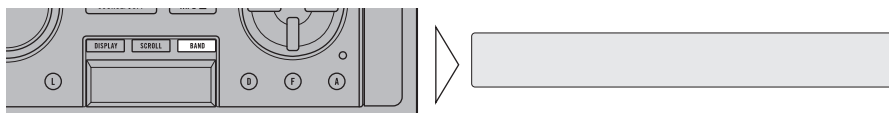
1. Switch the sources OFF.
2. Enter the Initial Setting Menu with the sources OFF.



3. Select the desired mode.



4. Operate a mode.
5. Cancel the Initial Setting Menu.



### Note:

- Holding down the FUNCTION button for 2 seconds also cancels the Initial Setting Menu.

## Initial Setting Menu Functions

The Initial Setting Menu features the following functions.

### Setting the Time

This is the mode for setting the time on the unit's clock display. (Refer to page 49 for details concerning the clock display.)

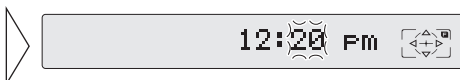
1. Press the **FUNCTION** button and select the Time setting mode in the Initial Setting Menu.

2. Select "Hour" or "Minute" with the ◀/▶ buttons.



3. Set as desired time with the ▲/▼ buttons.

As soon as you switch to "Hour" or "Minute", the seconds start counting from 00.



### Setting the Calender

This is the mode for setting the date on the unit's calender display. (Refer to page 49 for details concerning the calender display.)

1. Press the **FUNCTION** button and select the Calender setting mode in the Initial Setting Menu.

2. Select "Day", "Month" or "Year" with the ◀/▶ buttons.



3. Set as desired date with the ▲/▼ buttons.



## Setting the Clock Display (CLOCK)

You can set this product so that after performing an operation, time indications are automatically displayed if you do not perform another operation within about 25 seconds.

1. Press the **FUNCTION** button and select the **Clock display mode (CLOCK)** in the Initial Setting Menu.
2. Switch the Clock display ON/OFF with the ▲/▼ buttons.



## Switching the AUX Mode (AUX)

It is possible to use auxiliary (AUX) equipment with this product. Activate the AUX mode when using external equipment with this product.

1. Press the **FUNCTION** button and select the **AUX Setting mode (AUX)** in the Initial Setting Menu.
2. Switch the AUX ON/OFF with the ▲/▼ buttons.



## Setting the Dimmer (DIMMER)

To enable this product's display from being too bright at night, when the vehicle's head lights are turned ON the display is dimmed. You can switch this function ON/OFF.

1. Press the **FUNCTION** button and select the **Dimmer mode (DIMMER)** in the Initial Setting Menu.
2. Switch the Dimmer ON/OFF with the ▲/▼ buttons.





## Selecting the Digital Attenuator (DIG.ATT)

When listening to a CD or other source on which the recording level is high, setting the equalizer curve level to “H” (high) may result in distortion.

You can switch the digital attenuator to “L” (low) to reduce distortion. (Sound quality when the setting is “H” (high) is better than when the setting is “L” (low), so usually set to “H” (high).)

1. Press the **FUNCTION** button and select the **Digital Attenuator mode (DIG.ATT)** in the **Initial Setting Menu**.

2. Select the desired attenuation level with the **◀/▶** buttons.

L ↔ H



## Selecting the Contrast (CONTRAST)

You can adjust the contrast of the product's display.

1. Press the **FUNCTION** button and select the **Contrast mode (CONTRAST)** in the **Initial Setting Menu**.

2. Select the desired Contrast with the **◀/▶** buttons.

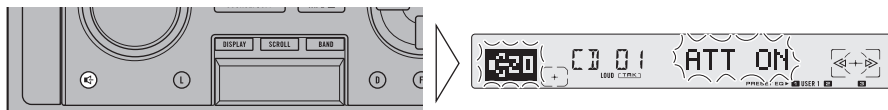
The display shows “+7” – “-7”.



### Volume Attenuator

The attenuator reduces the volume instantly.

- **Cut the volume by about 90%.**



Repeat the preceding operation to return to previous volume.

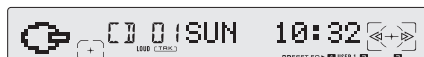
If the VOLUME is used to cancel the Attenuator mode, the sound will resume at a lower volume than before.

### Switching the Display

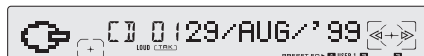
Besides display of indications for each source (e.g. Disc Title), display of “Clock”, “Calender” and “Entertainment” indications are also possible.

- **Select the desired Display with the DISPLAY button.**

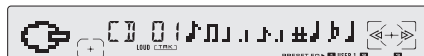
e.g. Clock



e.g. Calender



e.g. Entertainment



**Note:**

- When the clock display function (refer to page 47) is ON, whichever display you select, indications return to “Clock” after about 25 seconds.

### About the Demonstration Mode

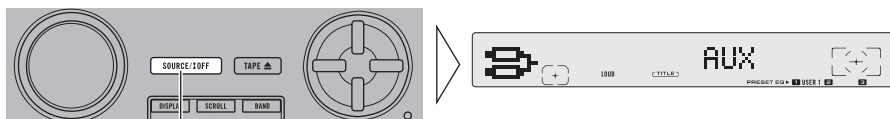
If you press the DISPLAY button when this product's source is OFF, a Demonstration is shown in the display. Pressing DISPLAY button during Demonstration operation cancels the Demonstration mode. Remember that if the Demonstration continues operating when the car engine is switched OFF, it may drain battery power.

## Using the AUX Source

It is possible to use auxiliary (AUX) equipment with this product.  
To listen to auxiliary equipment, switch the AUX Mode in the Initial Setting Menu ON, and then select the desired source.

### Selecting the AUX Source

- **Select AUX. (Refer to page 9.)**

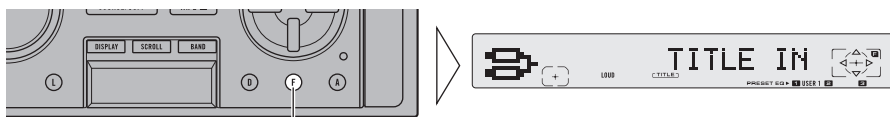


Each press changes the Source ...

### AUX Title Input

The display title for AUX Source can be changed.

1. **Select the AUX Title Input mode (TITLE IN) in the Detailed Setting Menu.**



Hold for 2 seconds

2. **Input the AUX Title.**

Refer to “Disc Title Input” on page 31, and perform procedures 3 to 6 in the same way.

### Cellular Telephone Muting

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

- The sound is turned off, “MUTE” is displayed and no audio adjustment except volume control is possible. Operation returns to normal when the phone connection is ended.

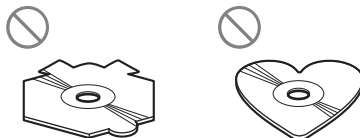


## Precaution

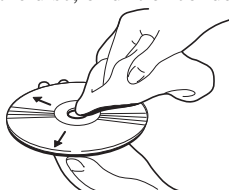
- Play only CDs bearing the Compact Disc Digital Audio mark. (If a CD features the top right mark on its disc title side, that disc is a CD TEXT disc. There are also some CD TEXT discs that do not feature the top right mark.)



- This product is designed for use with conventional, fully circular CDs only. Use of shaped CDs are not recommended for this product.



- Check all CDs before playing and discard cracked, scratched or warped discs.
- Playback by this product of a CD-R disc recorded on a CD recorder may not be possible due to characteristics of the disc, scratches or dirt on the disc, or dirt or condensation on this product's optical pickup lens.
- Read the precautions with the CD-R discs before using.
- Wipe dirty or damp discs outward from the center with a soft cloth.



- Avoid touching the recorded (iridescent) surface when handling discs.
- Store discs in their cases when not in use.
- Keep discs out of direct sunlight and high temperatures.
- Do not affix labels or apply chemicals to discs.
- Condensation may collect inside the player when using the heater in cold weather, interfering with playback. Turn it off for an hour or so and wipe damp discs with a soft cloth.
- Road shocks may interrupt CD playback.

## Built-in CD Player's Error Message

When problems occur with CD playback, an error message appears on the display. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, contact your dealer or your nearest PIONEER Service Center.

Message	Possible cause	Recommended action
ERROR- 11, 12, 17, 30	Dirty disc.	Clean the disc.
ERROR- 11, 12, 17, 30	Scratched disc.	Replace the disc.
ERROR- 14	Unrecorded CD.	Check the disc.
ERROR- 10, 11, 12, 14, 17, 30, A0	Electrical or mechanical problem.	Turn the ignition ON and OFF, or switch to a different source, then back to the CD player.
HEAT	CD player overheating.	Discontinue play until the machine temperature drops.

## Precaution

### About the Cassette Player

- A loose or warped label on a cassette tape may interfere with the eject mechanism of the unit or cause the cassette to become jammed in the unit. Avoid using such tapes or remove such labels from the cassette before attempting use.
- The music search, repeat and scan functions may not work properly with the following kinds of recorded tapes because the gap between songs cannot be found correctly.
  - \* A tape with a gap of 4 seconds or less between songs.
  - \* A tape containing dialog, etc., with pauses lasting for 4 seconds or longer.
  - \* A tape with an extremely quiet passage in the music lasting for 4 seconds or longer.

### About Cassette Tapes

- Do not use tapes longer than C-90 type (90 min.) cassettes. Longer tapes can interfere with tape transport.
- Storing cassettes in areas directly exposed to sunlight or high temperatures can distort them and subsequently interfere with tape transport.



- Store unused tapes in a tape case where there is no danger of them becoming loose or being exposed to dust.

## Cleaning the Head

If the head becomes dirty, the sound quality will deteriorate and there will be sound dropouts and other imperfections in performance. In this case, the head must be cleaned.

## General

Power source .....	14.4 V DC (10.8 – 15.1 V allowable)
Grounding system .....	Negative type
Max. current consumption .....	10.0 A
Dimensions	
(chassis) ....	178 (W) × 100 (H) × 160 (D) mm
[7 (W) × 3-7/8 (H) × 6-1/4 (D) in]	
(nose) .....	170 (W) × 95 (H) × 32 (D) mm
[6-3/4 (W) × 3-3/4 (H) × 1-1/4 (D) in]	
Weight .....	3.0 kg (6.6 lbs)

## Audio/DSP

Continuous power output is 22 W per channel min. into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.	
Maximum power output .....	45 W × 4
Load impedance .....	4 Ω (4 – 8 Ω allowable)
Preout maximum output level/	
output impedance .....	2 V/1 kΩ
Loudness contour .....	+10 dB (100 Hz), +7 dB (10 kHz)
	(volume: –30 dB)
Equalizer (13-Band Graphic Equalizer)	
Frequency .....	50/80/125/200/315/500/800 Hz
	1.25/2/3.15/5/8/12.5 kHz
Equalization range .....	±12 dB
Subwoofer output	
Frequency .....	50/80/125 Hz
Slope .....	–18 dB/oct.
Gain .....	±12 dB

## CD player

System .....	Compact disc audio system
Usable discs .....	Compact disc
Signal format .....	Sampling frequency: 44.1 kHz
	Number of quantization bits: 16; linear
Frequency characteristics .....	5 – 20,000 Hz ( $\pm 1$ dB)
Signal-to-noise ratio .....	92 dB (1 kHz) (IHF-A network)
Dynamic range .....	91 dB (1 kHz)
Number of channels .....	2 (stereo)

## Cassette player

Tape .....	Compact cassette tape (C-30 – C-90)
Tape speed .....	4.8 cm/sec.
Fast forward/rewinding time ....	Approx. 100 sec. for C-60
Wow & flutter .....	0.09% (WRMS)
Frequency response .....	Metal: 30 – 19,000 Hz ( $\pm 3$ dB)
Stereo separation .....	45 dB
Signal-to-noise ratio	
..... Metal: Dolby B NR IN:	67 dB (IHF-A network)
	Dolby NR OUT: 61 dB (IHF-A network)

## FM tuner

Frequency range .....	87.9 – 107.9 MHz
Usable sensitivity	
.....	10 dBf (1.0 $\mu$ V/75 $\Omega$ , mono, S/N: 30 dB)
50 dB quieting sensitivity ....	15 dBf (1.7 $\mu$ V/75 $\Omega$ , mono)
Signal-to-noise ratio .....	70 dB (IHF-A network)
Distortion .....	0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response .....	30 – 15,000 Hz ( $\pm 3$ dB)
Stereo separation .....	40 dB (at 65 dBf, 1 kHz)
Selectivity .....	70 dB (2ACA)
Three-signal intermodulation	
(desired signal level) .....	30 dBf
(two undesired signal level: 100 dBf)	

## AM tuner

Frequency range .....	530 – 1,710 kHz (10 kHz)
Usable sensitivity .....	18 $\mu$ V (S/N: 20 dB)
Selectivity .....	50 dB ( $\pm 10$ kHz)

### Note:

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

## **PIONEER CORPORATION**

4-1, MEGURO 1-CHOME, MEGURO-KU, TOKYO 153-8654, JAPAN

### **PIONEER ELECTRONICS (USA) INC.**

P.O. Box 1760, Long Beach, California 90801, U.S.A.

TEL: (800) 421-1404

### **PIONEER ELECTRONIC (EUROPE) N.V.**

Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium

TEL: (0) 3/570.05.11

### **PIONEER ELECTRONICS AUSTRALIA PTY. LTD.**

178-184 Boundary Road, Braeside, Victoria 3195, Australia

TEL: (03) 9586-6300

### **PIONEER ELECTRONICS OF CANADA, INC.**

300 Allstate Parkway, Markham, Ontario L3R 0P2, Canada

TEL: (905) 479-4411

### **PIONEER ELECTRONICS DE MEXICO, S.A. de C.V.**

San Lorenzo Num 1009 3er piso Desp. 302

Col. Del Valle, Mexico D.F. C.P. 03100

TEL: 5-688-52-90

Published by Pioneer Corporation.

Copyright © 1999 by Pioneer Corporation.

All rights reserved.

Publication de Pioneer Corporation.

Copyright © 1999 Pioneer Corporation.

Tous droits de reproduction et de traduction réservés.



## FH-P8800

This product conforms to CEMA cord colors  
Le code de couleur des câbles utilisé pour ce produit  
est conforme à CEMA

**Pioneer**

## Connecting the Units

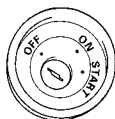
### Note:

- This unit is for vehicles with a 12-volt battery and negative grounding. Before installing it in a recreational vehicle, truck or bus, check the battery voltage.
- To avoid shorts in the electrical system, be sure to disconnect the  $\ominus$  battery cable before beginning installation.
- Refer to the owner's manual for details on connecting the power amp and other units, then make connections correctly.
- Secure the wiring with cable clamps or adhesive tape. To protect the wiring, wrap adhesive tape around them where they lie against metal parts.
- Route and secure all wiring so it cannot touch any moving parts, such as the gear shift, handbrake and seat rails. Do not route wiring in places that get hot, such as near the heater outlet. If the insulation of the wiring melts or gets torn, there is a danger of the wiring short-circuiting to the vehicle body.
- Don't pass the yellow lead through a hole into the engine compartment to connect to the battery. This will damage the lead insulation and cause a very dangerous short.
- Do not shorten any leads. If you do, the protection circuit may fail to work when it should.
- Never feed power to other equipment by cutting the insulation of the power supply lead of the unit and tapping into the lead. The current capacity of the lead will be exceeded, causing overheating.
- When replacing fuse, be sure to use only fuse of the rating prescribed on the fuse holder.
- Since a unique BPTL circuit is employed, never wire so the speaker leads are directly grounded or the left and right  $\ominus$  speaker leads are common.
- The black lead is ground. Please ground this lead separately from the ground of high-current products such as power amps.  
If you ground the products together and the ground becomes detached, there is a risk of damage to the products or fire.
- If the RCA pin jack on the unit will not be used, do not remove the caps attached to the end of the connector.
- Speakers connected to this unit must be high-power types with minimum rating of 45 W and impedance of 4 to 8 ohms. Connecting speakers with output and/or impedance values other than those noted here may result in the speakers catching fire, emitting smoke, or becoming damaged.

- When an external power amp is being used with this system, be sure not to connect the blue/white lead to the amp's power terminal. Likewise, do not connect the blue/white lead to the power terminal of the auto-antenna. Such connection could cause excessive current drain and malfunction.
- To avoid short-circuiting, cover the disconnected lead with insulating tape. Especially, insulate the unused speaker leads without fail. There is a possibility of short-circuiting if the leads are not insulated.
- To prevent incorrect connection, the input side of the IP-BUS connector is blue, and the output side is black. Connect the connectors of the same colors correctly.
- If this unit is installed in a vehicle that does not have an ACC (accessory) position on the ignition switch, the red lead of the unit should be connected to a terminal coupled with ignition switch ON/OFF operations. If this is not done, the vehicle battery may be drained when you are away from the vehicle for several hours (Fig. 1).



ACC position

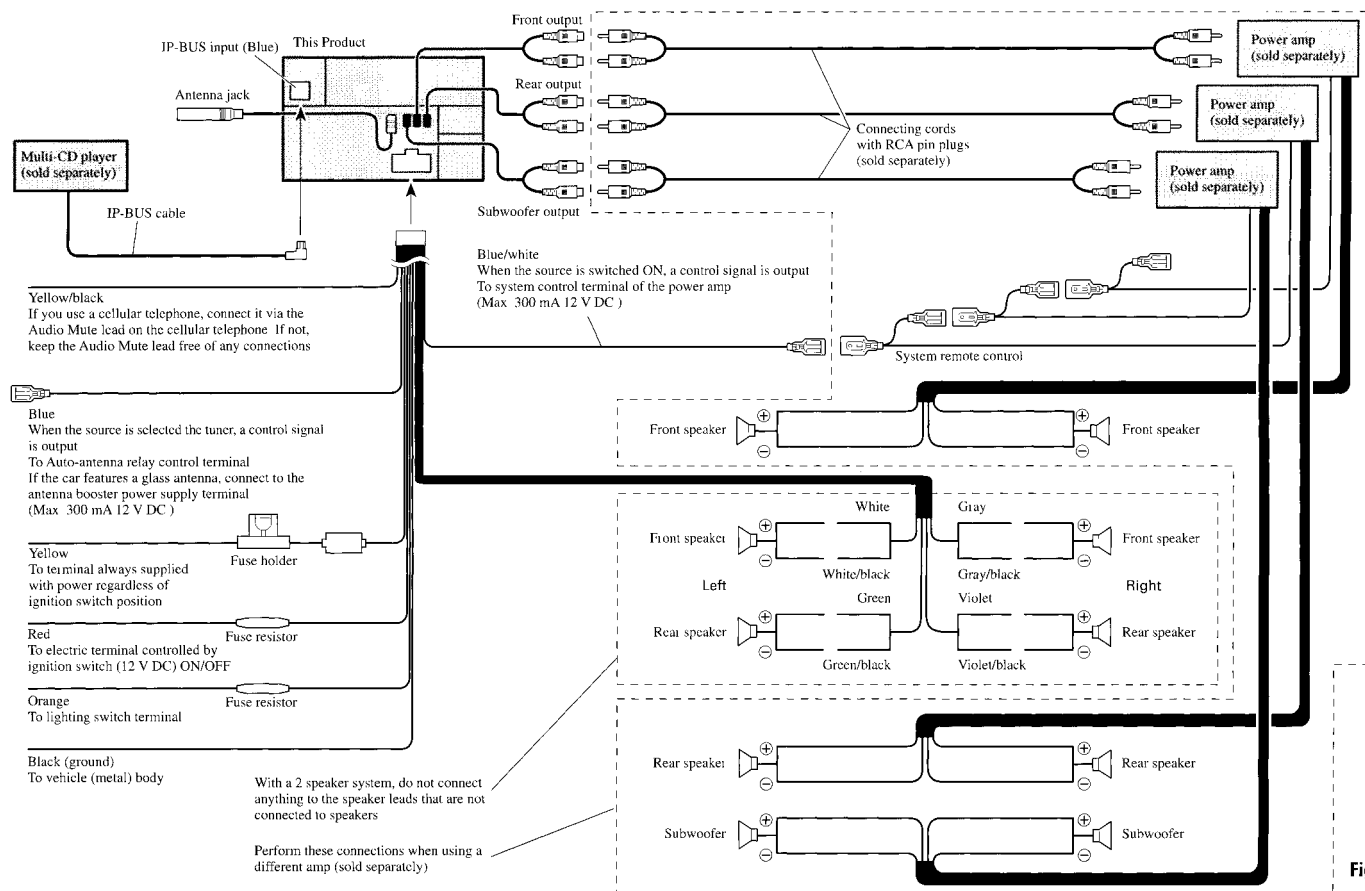


No ACC position

Fig. 1

- Cords for this product and those for other products may be different colors even if they have the same function. When connecting this product to another product, refer to the supplied Installation manuals of both products and connect cords that have the same function.

# Connection Diagram



## Note:

- Before finally installing the unit, connect the wiring temporarily, making sure it is all connected up properly, and the unit and the system work properly
- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle
- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop
- The semiconductor laser will be damaged if it overheats, so don't install the unit anywhere hot — for instance, near a heater outlet

- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance (Fig. 3)

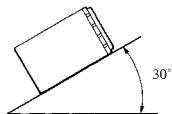
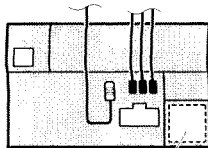


Fig. 3

- The cords must not cover up the area shown in the figure below. This is necessary to allow the amplifiers to radiate freely (Fig. 4)



Do not close this area

Fig. 4

## Installation using the screw holes on the side of the unit

### Fastening the unit to the factory radio mounting bracket. (Fig. 5) (Fig. 6)

Select a position where the screw holes of the bracket and the screw holes of the head unit become aligned (are fitted), and tighten the screws at 3 or 4 places on each side. Use either binding screws (5 × 6 mm) or flush surface screws (5 × 6 mm), depending on the shape of the screw holes in the bracket.

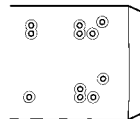


Fig. 5

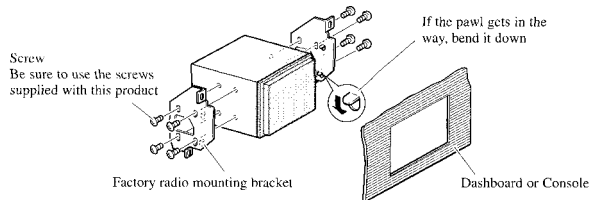


Fig. 6

### Fitting the Remote Control Unit

**Precaution:**

- Press the remote control unit onto the mounting base until it clicks into place

#### Fitting horizontally (Fig. 7)

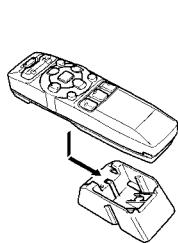


Fig 7

#### Fitting vertically (Fig. 8)

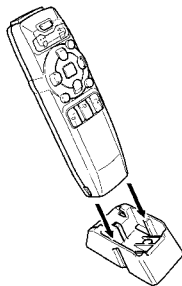


Fig 8

### Installation Using the Mounting Base

**Precaution:**

- To avoid it being a hindrance to driving, always install the remote control unit to the passenger's side – not the driver's side
- Install the mounting base so that the remote control is slanting upwards at an angle when fitted
- Before using double-sided tape, clean off any dirt on the surface to which the double-sided tape is to be attached

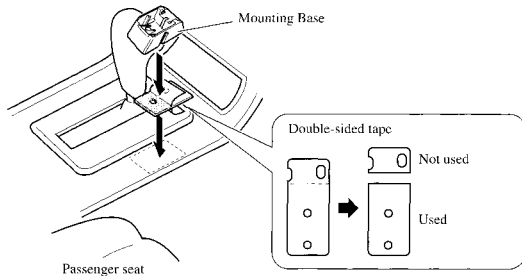


Fig 9



**PIONEER ELECTRONICS (USA) INC. - PIONEER ELECTRONIQUES DU CANADA, INC.**  
**(PA) (POC)**

**GARANTIE LIMITÉE**

**GARANTIE VALIDE SEULEMENT DANS LE PAYS OU LE PRODUIT A ÉTÉ ACHETÉ**

**LA PÉRIODE DE GARANTIE**

Pour la période précisée ci-après, à partir de la date originale d'achat au détail (la période de garantie) d'un vendeur autorisé Pioneer, les compagnies Pioneer Electronics (USA) Inc., (PA), et Pioneer Electroniques du Canada, Inc., (POC), garantissent que les Produits distribués par PA aux États-Unis et par POC au Canada qui présenteraient des défauts de fonctionnement lors l'usage normal et quand installés et opérés selon les instructions fournies au consommateur avec les appareils; que ces produits affectés par des défauts de manufacture seront donc réparés ou remplacés par une unité de valeur comparable, (au choix de PA ou POC) sans frais pour les pièces et le temps de travail. Les pièces fournies selon cette garantie peuvent être neuves ou refaites au choix de PA ou POC.

La période de garantie pour les clients-détaillants qui louent les produits commence à la date où le produit est d'abord mis en usage: a) pendant la période de location b) au moment de la vente au détail; selon la première éventualité.

Cette garantie ne couvre aucun produit qui serait utilisé sous forme d'échange d'affaires ou pour des usages de type commercial ou industriel.

**LE PRODUIT**

Système audio pour l'auto \_\_\_\_\_

**Garantie sur pièces**

un an

**Temps de travail**

un an

Cette garantie sur les produits sera honorée durant sa durée entière qu'elle soit entre les mains du propriétaire original ou d'un propriétaire subséquent. Advenant un cas où le service après-vente requis, le produit devra être livré au cours de la durée de la garantie et le transport devra être payé au préalable à l'intérieur du pays où le produit a été acheté, et ce, tel qu'expliqué dans ce document. Vous serez responsables du transport et de l'installation du produit alors que PA ou POC, selon le cas, assumeront le coût du renvoi du produit réparé ou remplacé et ce, à l'intérieur du pays où le produit a été acheté.

**CE QUI N'EST PAS COUVERT**

Cette garantie ne s'applique pas dans le cas de haut-parleurs qui auraient été soumis à des charges de pouvoir excédant les cotes de puissance publiées.

Cette garantie ne couvre pas: les cabinets ou quel qu'article de décoration; les antennes attachés de l'utilisateur; quelque dommage que ce soit à des enregistrements ou rubans et disques; quel que dommage sur le produit résultant d'altérations ou de modifications non autorisées par écrit par PA ou POC; quel que dommage causé par des éclairs ou surtensions de courant; les dommages consécutifs du coulage; les batteries endommagées ou inopérantes ou l'utilisation de batteries non conformes aux spécifications du manuel d'instructions.

Cette garantie ne couvre pas le coût de pièces ou de temps de travail alloué sans frais par cette garantie et qui aurait été obtenu d'une autre source qu'une compagnie de service autorisée par PA ou POC ou l'un de leur lieu de service désigné. Cette garantie ne couvre pas les défauts ou dommages causés par l'usage de pièces ou par des travaux non autorisés ou par un entretien non approprié.

DES NUMÉROS DE SÉRIE MODIFIÉS, MUTILÉS OU ENLEVÉS ANNULERONT CETTE GARANTIE.

**VOS DROITS**

PA et POC excluent de plus toute obligation de leur part dans le cas de dommages incidents ou consécutifs reliés à la défectuosité d'un de leurs produits respectifs et ce, aux conditions établies ci-devant.

**AUX ÉTATS-UNIS** - PA limite son obligation aux garanties implicites, y compris, mais sans s'y limiter, les garanties de commerciabilité et de bon état de marche dans un but particulier pour un temps ne dépassant pas la période de garantie. AUCUNE GARANTIE NE S'APPLIQUERA UNE FOIS LA PÉRIODE DE GARANTIE ÉCOULÉE. CERTAINS ÉTATS NE PERMETTENT PAS DE LIMITATIONS SUR LA DURÉE IMPLICITE D'UNE GARANTIE ET CERTAINS ÉTATS NE PERMETTENT PAS L'EXCLUSION OU LA LIMITATION DE DOMMAGES FORTUITS OU CONSÉQUENTS. IL SE PEUT DONC QUE LES LIMITATIONS ET EXCLUSIONS CI-DESSUS NE VOUS CONCERNENT PAS. CETTE GARANTIE VOUS ASSURE DES DROITS LÉGAUX PRÉCIS ET VOUS POUVEZ BÉNÉFICIER D'AUTRES DROITS QUI PEUVENT VARIER D'UN ÉTAT À L'AUTRE.

**AU CANADA** - À L'EXCEPTION DES CLAUSES STIPULÉES DANS CE DOCUMENT, IL N'Y A AUCUNE REPRÉSENTATION, GARANTIE, OBLIGATION OU CONDITION IMPLIQUÉES, PRÉVUES OU AUTRE APPLICABLES À CE PRODUIT.

**POUR OBTENIR LE SERVICE**

**SYSTÈME AUDIO POUR L'AUTO (EXCEPTÉ LES HAUT-PARLEURS D'AUTO VENDUS SEULEMENT AUX ÉTATS-UNIS)**

PA et POC ont désigné un certain nombre de compagnies autorisées de service à travers les États-Unis et le Canada pour vous servir en cas de besoin de réparation. Pour avoir droit à la garantie de service, vous devrez présenter votre reçu d'achat ou de location indiquant le lieu et la date de la transaction avec le propriétaire original.

S'il était nécessaire d'expédier l'unité, vous devrez emballer le produit avec soin (un emballage soigné requiert l'utilisation de matériel d'isolation adéquat pour assurer la protection du produit en cours de livraison. L'emballage original serait l'idéal à cette fin) et l'envoyer à une compagnie de service autorisée en assumant les frais de transport au préalable.

Vous incluez dans ce paquet: vos noms, adresse, numéro de téléphone ou vous pouvez être joint lors de jours ouvrables, une copie de votre reçu d'achat et une description détaillée du problème.

**POUR SERVICE DES HAUT-PARLEURS D'AUTO AUX ÉTATS-UNIS SEULEMENT**

Si vos haut-parleurs d'auto avaient besoin de réparation, retournez les haut-parleurs défectueux à votre détaillant pour échange.

Pour obtenir ce service garanti, vous devrez présenter votre reçu d'achat indiquant le lieu et la date d'achat au détail original.

Si, pour n'importe quel raison, vous ne pouvez échanger les haut-parleurs au détaillant, appelez le Département de Service à la Clientèle au numéro mentionné plus bas.

**INFORMATIONS SUPPLÉMENTAIRES**

**POUR LES USA**

Pour avoir des informations additionnelles sur la garantie, s'il vous plaît appelez ou écrivez à:

CUSTOMER SERVICE DEPARTMENT  
PIONEER ELECTRONICS SERVICE, INC.  
P.O. BOX 1760  
LONG BEACH, CALIFORNIA 90801  
1-800-421-1404

**POUR LES ÉTATS-UNIS NE RETOURNEZ PAS DE PRODUIT À CETTE ADRESSE, IL NE S'AGIT PAS D'UN CENTRE DE SERVICE**

**AU CANADA**

S.V.P. contacter un détaillant autorisé PIONEER pour connaître le centre de service autorisé PIONEER le plus près. Pour plus d'informations à propos de cette garantie, S.V.P. appelez ou écrivez à:

DEPARTMENT DE SERVICE POUR DES CLIENTS  
PIONEER ELECTRONIQUES DU CANADA, INC.  
300 ALLSTATE PARKWAY  
MARKHAM, ON L3R 0P2  
(905) 479-4411

**POUR LES USA**

Pour plus d'information sur les produits ou pour localiser le centre de service autorisé PIONEER S.V.P. appelez le: 1-800-421-1404

Modèle no: \_\_\_\_\_ No de série: \_\_\_\_\_ Date d'achat: \_\_\_\_\_

Acheté de: \_\_\_\_\_

**ENREGISTREZ LE LIEU ET LA DATE D'ACHAT POUR RÉFÉRENCE ULTÉRIEURE**

**PRENEZ SOIN DE GARDER CETTE INFORMATION ET VOTRE REÇU D'ACHAT DANS UN ENDROIT SUR**



PIONEER ELECTRONICS (USA) INC - PIONEER ELECTRONICS OF CANADA, INC  
(PA) (POC)

## LIMITED WARRANTY

WARRANTY VALID ONLY IN COUNTRY OF PRODUCT PURCHASE

### WARRANTY PERIOD

For the period specified below from date of original retail purchase (the warranty period) from an authorized Pioneer dealer, Pioneer Electronics (USA) Inc. (PA), and Pioneer Electronics Of Canada, Inc. (POC), warrant that products distributed by PA in the U.S.A., and by POC in Canada that fail to function properly under normal use due to a manufacturing defect when installed and operated according to the owner's manual enclosed with the unit will be repaired or replaced with a unit of comparable value, at the option of PA or POC, without charge to you for parts or actual repair work. Parts supplied under this warranty may be new or rebuilt at the option of PA or POC.

The warranty period for retail customers who rent the product commences upon the date product is first put into use (a) during the rental period or (b) retail sale, whichever occurs first.

The warranty does not cover any product which is used in any trade or business, or in an industrial or commercial application.

### PRODUCT

WARRANTY PERIOD  
PARTS LABOR

Car Stereo Products

ONE YEAR ONE YEAR

This warranty covers the product during the warranty period whether in the possession of the original owner or any subsequent owner. In the event service is required, the product must be delivered within the warranty period, transportation prepaid, from within the country of purchase as explained in this document. You will be responsible for removal and installation of the product. PA or POC, as appropriate, will pay for the cost of returning the repaired or replacement product to you within the country of purchase.

### WHAT'S NOT COVERED

This warranty does not apply to any speaker that has been subjected to power in excess of its published power rating.

This warranty does not cover the cabinet or any appearance item, user attached antennas, any damage to recordings or recording tapes or discs, any damage to the product resulting from alterations, modifications not authorized in writing by PA or POC, accident, misuse or abuse, damage due to lightning or to power surges, subsequent damage from leaking, damaged or inoperative batteries or the use of batteries not conforming to those specified in the owner's manual.

This warranty does not cover the cost of parts or labor which would be otherwise provided without charge under this warranty, obtained from any source other than a PA or POC Authorized Service Company or other designated location. This warranty does not cover defects or damage caused by the use of unauthorized parts or labor, or from improper maintenance.

**ALTERED, DEFACTED OR REMOVED SERIAL NUMBERS VOID THIS WARRANTY**

### YOUR RIGHTS

PA and POC exclude any obligation on their part for incidental or consequential damages related to the failure of products each distributes to function properly under the conditions set forth above.

**IN THE U.S.A.** - PA LIMITS ITS OBLIGATIONS UNDER ANY IMPLIED WARRANTIES INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO A PERIOD NOT TO EXCEED THE WARRANTY PERIOD. NO WARRANTIES SHALL APPLY AFTER THE WARRANTY PERIOD. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, AND SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

**IN CANADA** - EXCEPT AS EXPRESSLY PROVIDED HEREIN, THERE ARE NO REPRESENTATIONS, WARRANTIES, OBLIGATIONS OR CONDITIONS, IMPLIED, STATUTORY OR OTHERWISE, APPLICABLE TO THIS PRODUCT.

### TO OBTAIN SERVICE

**CAR STEREO PRODUCTS (EXCEPT CAR SPEAKERS SOLD IN THE U.S.A. ONLY)**

PA and POC have appointed a number of Authorized Service Companies throughout the U.S.A. and Canada should your product ever require service. To receive warranty service you will need to present your sales receipt or, if rented, your rental contract showing place and date of original owner's transaction.

Should it become necessary to ship the unit you will need to package the product carefully and send it, transportation prepaid by a traceable, pre-insured method, to an Authorized Service Company. Carefully package the product using adequate padding material to prevent damage in transit. The original container is ideal for this purpose. Include in the package your name, address, telephone number where you can be reached during business hours, a copy of your sales receipt and a detailed description of the problem.

### TO OBTAIN SERVICE

**CAR SPEAKERS SOLD IN THE U.S.A. ONLY**

Should your car speaker require service, return defective car speaker to your retail dealer for exchange. To receive warranty service you will need to present your sales receipt showing place and date of original owner's retail purchase. If, for any reason, you cannot exchange the speakers at the selling dealer, call the Customer Service Department as given below.

### - ADDITIONAL INFORMATION -

#### IN THE U.S.A.

For additional information on this warranty, please call or write:

CUSTOMER SERVICE DEPARTMENT  
PIONEER ELECTRONICS SERVICE, INC.  
P.O. BOX 1760  
LONG BEACH, CALIFORNIA 90801  
1-800-421-1404

**IN THE U.S.A. DO NOT RETURN ANY PRODUCT TO THE ABOVE ADDRESS. IT IS NOT A SERVICE LOCATION.**

#### IN CANADA

Please contact a Pioneer authorized Dealer to find the nearest Pioneer authorized service location. For additional information on this warranty, please call or write:

CUSTOMER SERVICE DEPARTMENT  
PIONEER ELECTRONICS OF CANADA, INC.  
300 ALLSTATE PARKWAY  
MARKHAM, ON L3R 0P2  
(905) 479-4411

### IN THE U.S.A.

RECORD THE PLACE AND DATE OF PURCHASE FOR FUTURE REFERENCE

**FOR PRODUCT INFORMATION, TO PURCHASE REPLACEMENT PARTS OR TO LOCATE AN AUTHORIZED SERVICE COMPANY  
CALL: 1-800-421-1404**

Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_ Purchase Date \_\_\_\_\_

Purchased From \_\_\_\_\_