

Pioneer

CD RECEIVER

RADIO CD

CD PLAYER

CD接收機

جهاز استقبال مع مشغل اسطوانات CD

DEH-1250MPG

DEH-1250MP

English

Español

Português (B)

中文

العربية

Owner's Manual
Manual de instrucciones
Manual do proprietário
用戶手冊
کتاب المالك

SUPER  **TUNER III D**

Thank you for purchasing this PIONEER product.

To ensure proper use, please read through this manual before using this product. It is especially important that you read and observe

WARNINGs and **CAUTION**s in this manual.

Please keep the manual in a safe and accessible place for future reference. ■

About this unit



CAUTION

- Do not allow this unit to come into contact with liquids. Electrical shock could result. Also, damage to this unit, smoke, and overheating could result from contact with liquids.
- "CLASS 1 LASER PRODUCT"
This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.
- Always keep the volume low enough to hear outside sounds.
- Avoid exposure to moisture.
- If the battery is disconnected or discharged, any preset memory will be erased.
- Should this unit fail to operate properly, please contact your dealer or nearest authorized PIONEER Service Station.

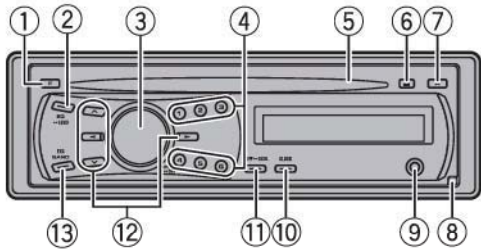
CAUTION:
USE OF CONTROL OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

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



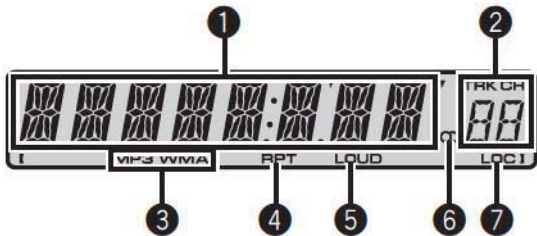
Operating this unit

Head unit



Button	Button
① F (function)	⑧ Detach
② EQ/LOUD	⑨ AUX input jack (3.5 mm stereo jack)
③ SRC/OFF	⑩ CLOCK
④ 1 to 6	⑪ DISP/SCRL
⑤ Disc loading slot	⑫ ▲/▼/◀/▶
⑥ ▲ (eject)	⑬ BAND/ESC
⑦ A (audio)	

Display indication

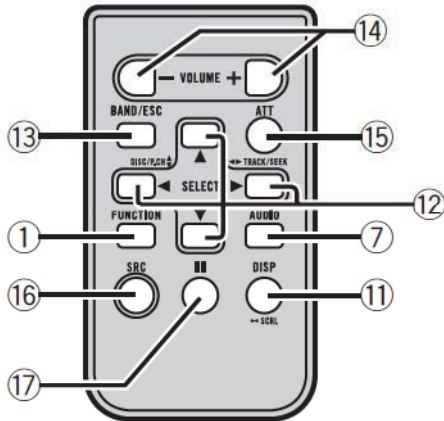


Indicator	State
① Main display section	<ul style="list-style-type: none">Tuner: band and frequencyBuilt-in CD player: elapsed playback time and text information
② Preset number/track number	<ul style="list-style-type: none">The track number or preset number.If a track number 100 or more is selected, ► on the left of the track number indicator will light.
③ MP3/WMA	The type of the currently playing disc.

④ RPT	Repeat play is turned on.
⑤ LOUD	Loudness is on.
⑥ (stereo)	The selected frequency is being broadcasted in stereo.
⑦ LOC	Local seek tuning is on.

Remote control

Operation is the same as when using the buttons on the head unit. See the explanation of the head unit about the operation of each button with the exception of **ATT**, which is explained below.



Part	State
⑭ VOLUME (+/-)	Press to increase or decrease volume.
⑮ ATT	Press to mute. Press again to unmute.
⑯ SRC (source)	Press to cycle through all the available sources. Press and hold to turn the source off.
⑰ II (pause)	Press to pause or resume.

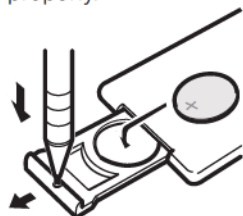
Use and care of the remote control

Using the remote control

- 1 Point the remote control in the direction of the front panel to operate.
When using for the first time, pull out the film protruding from the tray.

Replacing the battery

- 1 Slide the tray out on the back of the remote control.
- 2 Insert the battery with the plus (+) and minus (-) poles aligned properly.



Important

- Do not store the remote control in high temperatures or direct sunlight.
- The remote control may not function properly in direct sunlight.
- Do not let the remote control fall onto the floor, where it may become jammed under the brake or accelerator pedal.



WARNING

- Keep the battery out of the reach of children. Should the battery be swallowed, consult a doctor immediately.
- Batteries (battery pack or batteries installed) must not be exposed to excessive heat such as sunshine, fire or the like.



CAUTION

- Use one **CR2025 (3 V)** lithium battery.
- Remove the battery if the remote control is not used for a month or longer.
- There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not handle the battery with metallic tools.
- Do not store the battery with metallic objects.
- If the battery leaks, wipe the remote control completely clean and install a new battery.

- When disposing of used batteries, comply with governmental regulations or environmental public institutions' rules that apply in your country/area. ■

Basic Operations



Important

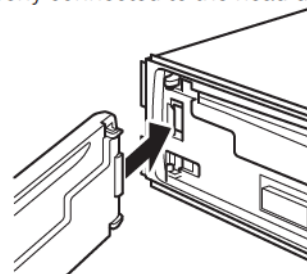
- Handle gently when removing or attaching the front panel.
- Avoid subjecting the front panel to excessive shock.
- Keep the front panel out of direct sunlight and high temperatures.
- Remove any cables and devices attached to this unit before detaching the front panel to avoid damage to the device or vehicle interior.

Removing the front panel to protect your unit from theft

- 1 Press detach to release the front panel.
- 2 Grab the front panel and remove.
- 3 Put the front panel into the provided protective case for safe keeping.

Re-attaching the front panel

- 1 Slide the front panel to the left until it clicks. Front panel and the head unit are connected on the left side. Make sure that the front panel has been properly connected to the head unit.



- 2 Press the right side of the front panel until it is firmly seated.
If you can't attach the front panel to the head unit successfully, try again. However, forcing the front panel into place may result in damage.

Turning the unit on

- 1 Press **SRC/OFF** to turn the unit on.

Turning the unit off

- 1 Press **SRC/OFF** and hold until the unit turns off.

Operating this unit

Selecting a source

- 1 Press **SRC/OFF** to cycle between:
TUNER (tuner)—**CD** (built-in CD player)—**AUX** (AUX)

Adjusting the volume

- 1 Turn **SRC/OFF** to adjust volume.



Note

When this unit's blue/white lead is connected to the vehicle's auto-antenna relay control terminal, the vehicle's antenna extends when this unit's source is turned on. To retract the antenna, turn the source off. ■

Menu operations identical for function settings/audio adjustments/initial settings

Returning to the ordinary display Canceling the initial setting menu

- 1 Press **BAND/ESC**.
You can also cancel initial settings by holding down **SRC/OFF** until the unit turns off.



Tuner

Basic Operations



Important

If you are using this unit in North, Central or South America, reset the AM tuning step (refer to **AM** (*AM tuning step*) on page 8).

Selecting a band

- 1 Press **BAND/ESC** until the desired band (**F1**, **F2**, **F3** for FM or **AM**) is displayed.

Manual tuning (step by step)

- 1 Press ◀ or ▶.

Seeking

- 1 Press and hold ◀ or ▶, and then release.
You can cancel seek tuning by briefly pressing ◀ or ▶.
While pressing and holding ◀ or ▶, you can skip stations. Seek tuning starts as soon as you release ◀ or ▶.

Storing and recalling stations

You can easily store up to six stations as pre-sets.

- When you find a station that you want to store in memory, press one of the preset tuning buttons (1 to 6) and hold until the preset number stops flashing.

Stored radio station frequency can be recalled by pressing the preset tuning button.

- Press ▲ or ▼ to recall radio station frequencies.

Function settings

- Press **F** (function) to select the function.

After selecting, perform the following procedures to set the function.

LOCAL (local seek tuning)

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

- 1 Press ▲ or ▼ to turn local seek tuning on or off.
2 Press ◀ or ▶ to set the sensitivity.

FM: **LOCAL 1—LOCAL 2—LOCAL 3—LOCAL 4**

AM: **LOCAL 1—LOCAL 2**

Larger setting number is higher level. The highest level setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

BSM (best stations memory)

BSM (best stations memory) automatically stores the six strongest stations in the order of their signal strength.

Storing broadcast frequencies with BSM may replace broadcast frequencies you have saved using 1 to 6.

- 1 Press ▲ to turn BSM on.

The six strongest broadcast frequencies are stored in the order of their signal strength.

To cancel the storage process, press ▼.



CD

Basic Operations

Playing a CD/CD-R/CD-RW

- 1 Insert the disc, label side up, into the disc loading slot.
- 1 If a disc has already been inserted, press **SRC/OFF** to select the built-in CD player.

Ejecting a CD/CD-R/CD-RW

- 1 Press **▲**.

Selecting a folder

- 1 Press **▲** or **▼**.

Selecting a track

- 1 Press **◀** or **▶**.

Fast forwarding or reversing

- 1 Press and hold **◀** or **▶**.

Switching between compressed audio and CD-DA

- 1 Press **BAND/ESC**.



Note

When playing compressed audio, there is no sound during fast forward or reverse.

Displaying text information

Selecting the desired text information

- 1 Press **DISP/SCRL**.
CD TEXT discs: Play time—disc title—disc artist name—track title—track artist name
WMA/MP3: Play time—folder name—file name—track title—artist name—album title—comment—bit rate
WAV: Play time—folder name—file name—sampling frequency

Scrolling the text information to the left

- 1 Press and hold **DISP/SCRL**.



Notes

- Incompatible text stored with the audio file may not be displayed or may be displayed incorrectly.
- Depending on the version of iTunes used to write MP3 files onto a disc, comment information may be incorrectly displayed.
- When playing back VBR (variable bit rate)-recorded WMA files, the average bit rate value is displayed.

- When playing back VBR (variable bit rate)-recorded MP3 files, **VBR** is displayed instead of bit rate value.

Function settings

● Press F (function) to select the function.

After selecting, perform the following procedures to set the function.

RPT (repeat play)

- 1 Press **◀** or **▶** to select the repeat range.
DSC – Repeat all tracks
TRK – Repeat the current track
FLD – Repeat the current folder

RDM (random play)

- 1 Press **▲** or **▼** to turn random play on or off. When random play is on, **RDM** appears in the display.
 If you turn random play on during folder repeat, **FRDM** appears in the display.

SCAN (scan play)

Scan play searches for a song within the selected repeat range.

- 1 Press **▲** to turn scan play on. If you turn scan play on during **FLD**, **FSCN** appears in the display.
- 2 When you find the desired track press **▼** to turn scan play off.
 If the display has automatically returned to the playback display, select **SCAN** again by pressing **F** (function).
 After scanning of a disc (folder) is finished, normal playback of the tracks begins.

PAUSE (pause)

- 1 Press **▲** or **▼** to pause or resume.

COMP OFF (compression and BMX)

Using the COMP (compression) and BMX functions let you adjust the sound playback quality of this unit.

- 1 Press **▲** or **▼** to select your favorite setting.
COMP OFF—COMP 1—COMP 2—COMP OFF—BMX 1—BMX 2

Operating this unit

FF/REV (fast forward/reverse)

You can switch the search method between fast forward/reverse and searching every 10 tracks. Selecting **ROUGH** enables you to search every 10 tracks.

- 1 Press **▶** to select **ROUGH**.
FF/REV – Fast forward and reverse
ROUGH – Searching every 10 tracks
 To select **FF/REV**, press **◀**.
- 2 Press **BAND/ESC** to return to the playback display.
- 3 Press and hold **◀** or **▶** to search every 10 tracks on a disc (folder).
 If the rest of track number is less than 10, press and hold **◀** or **▶** recalls the first (last) one.



SLA (source level adjustment)

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

- Settings are based on the FM volume level, which remains unchanged.
 Before adjusting source levels, compare the FM volume level with the level of the source you wish to adjust.
 - The AM volume level can also be adjusted with source level adjustments.
- 1 Press **▲** or **▼** to adjust the source volume.
 Adjustment range: **SLA +4** to **SLA -4**



Note

You can also turn loudness on or off by pressing and holding **EQ/LOUD**.

Audio Adjustments

Audio Adjustments

- Press **A** (audio) to select the audio function.

After selecting, perform the following procedures to set the audio function.

FAD (fader/balance adjustment)

You can change the fader/balance setting.

- 1 Press **▲** or **▼** to adjust front/rear speaker balance.
 Adjustment range (front/rear): **FAD F15** to **FAD R15**
FAD 0 is the proper setting when only two speakers are used.
- 2 Press **◀** or **▶** to adjust left/right speaker balance.
 Adjustment range (left/right): **BAL L15** to **BAL R15**

BASS/MID/TREBLE (equalizer adjustment)

You can adjust the bass/mid/treble level.

- Adjusted equalizer curve settings are stored in **CUSTOM**.
- 1 Press **▲** or **▼** to adjust the level.
 Adjustment range: **+6** to **-6**

LOUD (loudness)

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

- 1 Press **▲** or **▼** to turn loudness on or off.
- 2 Press **◀** or **▶** to select the desired setting.
LOW (low)—**HI** (high)

Using the equalizer

- Press **EQ/LOUD** to select the equalizer.
DYNAMIC—VOCAL—NATURAL—CUSTOM—FLAT—POWERFUL

- **CUSTOM** allows you to create a customized setting.
- When **FLAT** is selected no adjustments are made to the sound.

Other Functions

Adjusting initial settings

1 Press **SRC/OFF** and hold until the unit turns off.

2 Press **SRC/OFF** and hold until the clock appears in the display.

3 Press **F** (function) to select the initial setting.

After selecting, perform the following procedures to set the initial setting.

Setting the clock

- 1 Press **◀** or **▶** to select the segment of the clock display you wish to set.
 Hour—Minute
- 2 Press **▲** or **▼** to put a clock right.

FM (FM tuning step)

The FM tuning step employed by seek tuning can be switched between 100 kHz, the preset step, and 50 kHz.

- If seek tuning is performed in 50 kHz steps, stations may be tuned in imprecisely. Tune in the stations with manual tuning or use seek tuning again.

1 Press ◀ or ▶ to select the FM tuning step.

50 (50 kHz)—**100** (100 kHz)

AM (AM tuning step)

The AM tuning step can be switched between 9 kHz, the preset step, and 10 kHz. When using the tuner in North, Central or South America, reset the tuning step from 9 kHz (531 kHz to 1 602 kHz allowable) to 10 kHz (530 kHz to 1 640 kHz allowable).

1 Press ◀ or ▶ to select the AM tuning step.

10 (10 kHz)—**9** (9 kHz)

AUX (auxiliary input)

Activate this setting when using auxiliary device connected to this unit.

1 Press ▲ or ▼ to turn auxiliary setting on or off.

Turning the clock display on or off

- Press **CLOCK** to turn the clock display on or off.

Each press of **CLOCK** turns the clock display on or off.

- The clock display disappears temporarily when you perform other operations, but the clock display appears again after 25 seconds.

Using the AUX source

1 Insert the stereo mini plug into the AUX input jack.

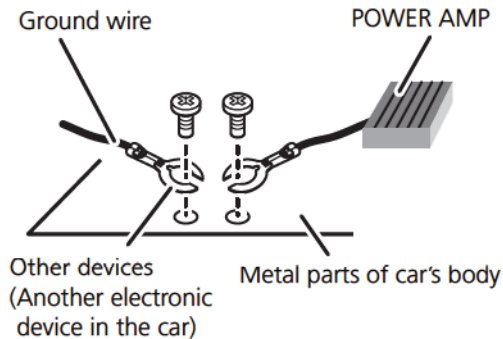
2 Press **SRC/OFF** to select AUX as the source. ■

Connections



WARNING

- Use speakers over 50 W (output value) and between 4 Ω to 8 Ω (impedance value). Do not use 1 Ω to 3 Ω speakers for this unit.
- The black cable is ground. When installing this unit or power amp (sold separately), make sure to connect the ground wire first. Ensure that the ground wire is properly connected to metal parts of the car's body. The ground wire of the power amp and the one of this unit or any other device must be connected to the car separately with different screws. If the screw for the ground wire loosens or falls out, it could result in fire, generation of smoke or malfunction.



Important

- When installing this unit in a vehicle without an ACC (accessory) position on the ignition switch, failure to connect the red cable to the terminal that detects operation of the ignition key may result in battery drain.



ACC position



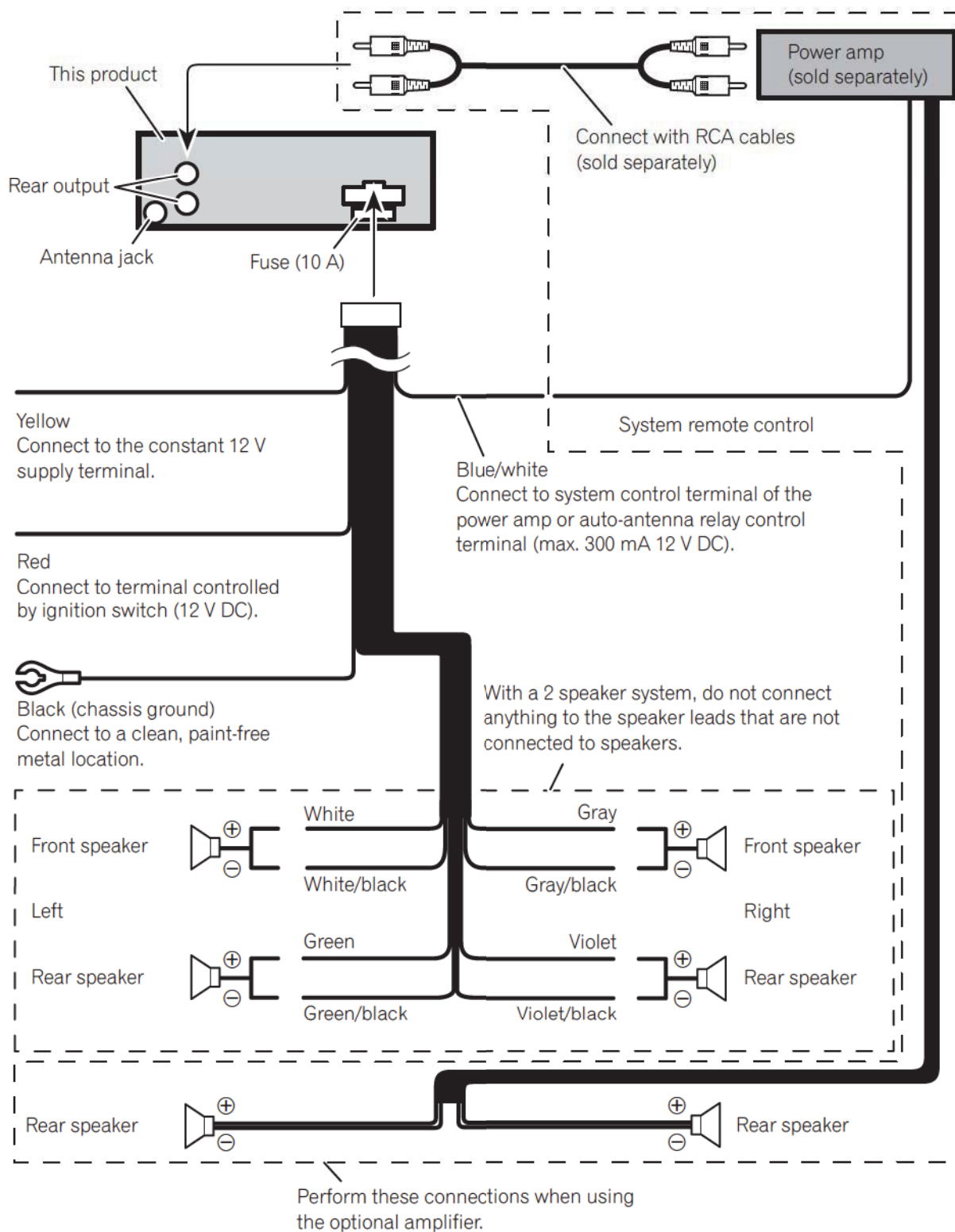
No ACC position

- Use this unit with a 12-volt battery and negative grounding only. Failure to do so may result in a fire or malfunction.
- To prevent a short-circuit, overheating or malfunction, be sure to follow the directions below.
 - Disconnect the negative terminal of the battery before installation.
 - Secure the wiring with cable clamps or adhesive tape. Wrap adhesive tape around

wiring that comes into contact with metal parts to protect the wiring.

- Place all cables away from moving parts, such as the gear shift and seat rails.
- Place all cables away from hot places, such as near the heater outlet.
- Do not connect the yellow cable to the battery by passing it through the hole to the engine compartment.
- Cover any disconnected cable connectors with insulating tape.
- Do not shorten any cables.
- Never cut the insulation of the power cable of this unit in order to share the power with other devices. The current capacity of the cable is limited.
- Use a fuse of the rating prescribed.
- Never wire the negative speaker cable directly to ground.
- Never band together negative cables of multiple speakers.
- When this unit is on, control signals are sent through the blue/white cable. Connect this cable to the system remote control of an external power amp or the vehicle's auto-antenna relay control terminal (max. 300 mA 12 V DC). If the vehicle is equipped with a glass antenna, connect it to the antenna booster power supply terminal.
- Never connect the blue/white cable to the power terminal of an external power amp. Also, never connect it to the power terminal of the auto antenna. Doing so may result in battery drain or a malfunction.

Connection diagram

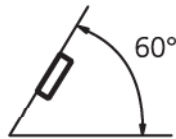


Installation



Important

- Check all connections and systems before final installation.
- Do not use unauthorized parts as this may cause malfunctions.
- Consult your dealer if installation requires drilling of holes or other modifications to the vehicle.
- Do not install this unit where :
 - it may interfere with operation of the vehicle.
 - it may cause injury to a passenger as a result of a sudden stop.
- The semiconductor laser will be damaged if it overheats. Install this unit away from hot places such as near the heater outlet.
- Optimum performance is obtained when the unit is installed at an angle of less than 60°.



- To ensure proper heat dispersal when using this unit, make sure you leave ample space behind the rear panel and wrap any loose cables so they are not blocking the vents when installing the unit.

DIN front/rear mount

This unit can be properly installed either from "Front" (conventional DIN front-mount) or "Rear" (DIN rear-mount installation, utilizing threaded screw holes on the sides of unit chassis). For details, refer to the following installation methods.

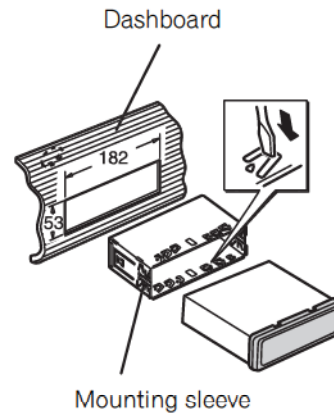
- Use commercially available parts when installing.

DIN Front-mount

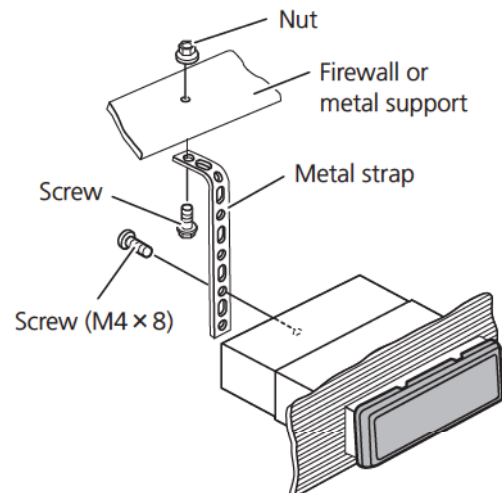
1 Insert the mounting sleeve into the dashboard.

For installation in shallow spaces, use the supplied mounting sleeve. If there is enough space, use the mounting sleeve that came with the vehicle.

2 Secure the mounting sleeve by using a screwdriver to bend the metal tabs (90°) into place.



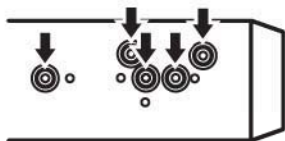
3 Install the unit as illustrated.



- Make sure that the unit is installed securely in place. An unstable installation may cause skipping or other malfunctions.

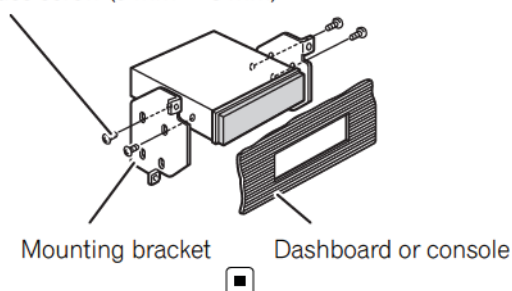
DIN Rear-mount

1 Determine the appropriate position where the holes on the bracket and the side of the unit match.

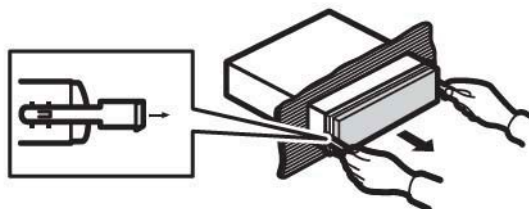


2 Tighten two screws on each side.

Truss screw (5 mm × 8 mm)

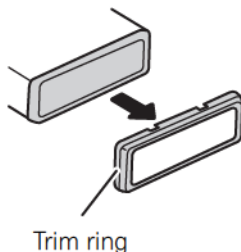


3 Pull the unit out of the dashboard.



Removing the unit

1 Extend top and bottom of the trim ring outwards to remove the trim ring. (When reattaching the trim ring, point the side with the groove down.)



- Releasing the front panel allows easier access to the trim ring.

2 Insert the supplied extraction keys into both sides of the unit until they click into place.

Additional Information

Troubleshooting

Symptom	Cause	Action (See)
The display automatically returns to the ordinary display.	You did not perform any operation within about 30 seconds.	Perform operation again.
The repeat play range changes unexpectedly.	Depending on the repeat play range, the selected range may change when selecting another folder or track, or when fast forwarding/reversing.	Select the repeat play range again.
NO XXXX appears when a display is changed (e.g., NO TTL).	No text information embedded	Switch the display or play another track/file.
The unit is malfunctioning. There is interference.	You are using a device, such as a cell phone, that transmits electromagnetic waves near the unit.	Move electrical devices that may be causing the interference away from the unit.



Error messages

When you contact your dealer or your nearest Pioneer Service Center, be sure to note the error message.

Message	Cause	Action
ERROR-11, 12, 17, 30	Dirty disc	Clean disc.
ERROR-11, 12, 17, 30	Scratched disc	Replace disc.
ERROR-10, 11, 12, 15, 17, 30, A0	Electrical or mechanical	Turn the ignition switch OFF and back ON, or switch to a different source, then back to the CD player.
ERROR-15	The inserted disc is blank	Replace disc.

ERROR-22, 23	Unsupported CD format	Replace disc.
FRMTREAD	There is sometimes a delay between the start of playback and when you start to hear any sound	Wait until the message disappears and you hear sound.
NO AUDIO	The inserted disc does not contain any playable files	Replace disc.
PROTECT	All the files on the inserted disc are embedded with DRM	Replace disc.
SKIPPED	The inserted disc contains DRM protected WMA files	Replace disc.



Handling guideline

Discs and player

Use only discs featuring either of following two logos.



Use 12-cm or 8-cm CD. Do not use an adapter when playing 8-cm CDs.

Use only conventional, fully circular discs. Do not use shaped discs.



Do not insert anything other than a CD into the CD loading slot.

Do not use cracked, chipped, warped, or otherwise damaged discs as they may damage the player.

Unfinalized CD-R/CD-RW disc playback is not possible.

Additional Information

Do not touch the recorded surface of the discs.

Store discs in their cases when not in use.

Avoid leaving discs in excessively hot environments including under direct sunlight.

Do not attach labels, write on or apply chemicals to the surface of the discs.

To clean a CD, wipe the disc with a soft cloth outward from the center.

Condensation may temporarily impair the player's performance. Leave it to adjust to the warmer temperature for about one hour. Also, wipe any damp discs with a soft cloth.

Playback of discs may not be possible because of disc characteristics, disc format, recorded application, playback environment, storage conditions, and so on.

Road shocks may interrupt disc playback.

Read the precautions for discs before using them.

DualDiscs

DualDiscs are two-sided discs that have a recordable CD for audio on one side and a recordable DVD for video on the other.

Since the CD side of DualDiscs is not physically compatible with the general CD standard, it may not be possible to play the CD side with this unit.

Frequent loading and ejecting of a DualDisc may result in scratches on the disc. Serious scratches can lead to playback problems on this unit. In some cases, a DualDisc may become stuck in the disc loading slot and will not eject. To prevent this, we recommend you refrain from using DualDisc with this unit. Please refer to the information from the disc manufacturer for more detailed information about DualDiscs.



Compressed audio compatibility

WMA

Compatible format: WMA encoded by Windows Media Player

File extension: .wma

Bit rate: 48 kbps to 320 kbps (CBR), 48 kbps to 384 kbps (VBR)

Sampling frequency: 32 kHz to 48 kHz

Windows Media Audio Professional, Lossless, Voice: No

MP3

File extension: .mp3

Bit rate: 8 kbps to 320 kbps

Sampling frequency: 16 kHz to 48 kHz (32, 44.1, 48 kHz for emphasis)

Compatible ID3 tag version: 1.0, 1.1, 2.2, 2.3, 2.4 (ID3 tag Version 2.x is given priority over Version 1.x.)

M3u playlist: No

MP3i (MP3 interactive), mp3 PRO: No

WAV

Compatible format: Linear PCM (LPCM), MS ADPCM

File extension: .wav

Quantization bits: 8 and 16 (LPCM), 4 (MS ADPCM)

Sampling frequency: 16 kHz to 48 kHz (LPCM), 22.05 kHz and 44.1 kHz (MS ADPCM)

Disc

Playable folder hierarchy: up to eight tiers (A practical hierarchy is less than two tiers.)

Playable folders: up to 99

Playable files: up to 999

File system: ISO 9660 Level 1 and 2, Romeo, Joliet

Multi-session playback: Yes

Packet write data transfer: No

Regardless of the length of blank section between the songs of the original recording, compressed audio discs play with a short pause between songs.

Additional Information

Supplemental information

Only the first 32 characters can be displayed as a file name (including the file extension) or a folder name.

This unit may not operate correctly depending on the application used to encode WMA files.

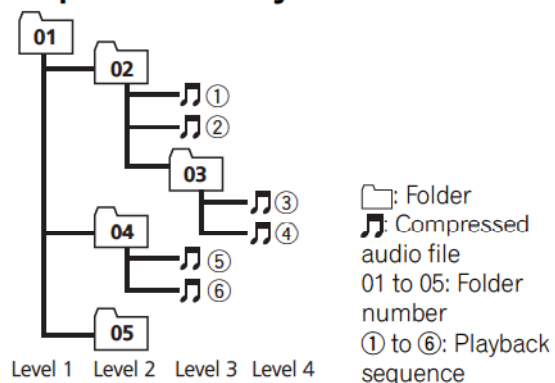
There may be a slight delay when starting playback of audio files embedded with image data.



Sequence of audio files

The user cannot assign folder numbers and specify playback sequences with this unit.

Example of a hierarchy



Disc

- Folder selection sequence or other operation may differ depending on the encoding or writing software.
- Folder hierarchy is allowed up to eight tiers. However, a practical hierarchy of folder is less than two tiers.
- Up to 99 folders on a disc can be played back. ■

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MP3

Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e. revenue-generating) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent license for such use is required. For details, please visit <http://www.mp3licensing.com>.

WMA



The Windows Media™ logo printed on the box indicates that this unit can play back WMA data.

Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries. ■

Additional Information

Specifications

General

Rated power source	14.4 V DC
	(allowable voltage range: 12.0 V to 14.4 V DC)
Grounding system	Negative type
Maximum current consumption	10.0 A
Dimensions (W × H × D):	
DIN	
Chassis	178 mm × 50 mm × 162 mm
Nose	188 mm × 58 mm × 15 mm
D	
Chassis	178 mm × 50 mm × 162 mm
Nose	170 mm × 48 mm × 15 mm
Weight	1.3 kg

Audio

Maximum power output	50 W × 4
Continuous power output ...	22 W × 4 (50 Hz to 15 000 Hz, 5 % THD, 4 Ω load, both channels driven)
Load impedance	4 Ω (4 Ω to 8 Ω allowable)
Preout maximum output level	2.0 V
Tone controls:	
Bass	
Frequency	100 Hz
Gain	± 12 dB
Mid	
Frequency	1 kHz
Gain	± 12 dB
Treble	
Frequency	10 kHz
Gain	± 12 dB

CD player

System	Compact disc audio system
Usable discs	Compact disc
Signal-to-noise ratio	94 dB (1 kHz) (IEC-A network)
Number of channels	2 (stereo)
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio) (Windows Media Player)
MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WAV signal format	Linear PCM & MS ADPCM

FM tuner

Frequency range	87.5 MHz to 108.0 MHz
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Usable sensitivity	11 dBf (0.7 μV/75 Ω, mono, S/N: 30 dB)
Signal-to-noise ratio	72 dB (IEC-A network)

AM tuner

Frequency range	531 kHz to 1 602 kHz (9 kHz)
	530 kHz to 1 640 kHz (10 kHz)
Usable sensitivity	25 μV (S/N: 20 dB)
Signal-to-noise ratio	62 dB (IEC-A network)

Infrared remote control

Wavelength	940 nm ± 50 nm
Output	typ; 12 mw/sr per Infrared LED



Note

Specifications and the design are subject to modifications without notice. ■