

CD RDS Receiver

Operation Manual

DEH-3900MP

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Contents

Thank you for buying this Pioneer product

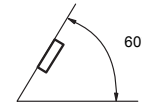
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, keep this manual in a safe place for future reference.

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Installation

Notes

- Check all connections and systems before final installation.
- Do not use unauthorized parts. The use of unauthorized parts may cause malfunctions.
- Consult with your dealer if installation requires drilling of holes or other modifications of 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°.

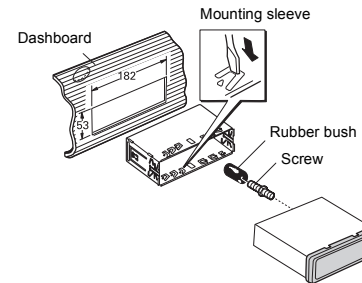


DIN Front/Rear-mount

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

DIN Front-mount

Installation with the rubber bush

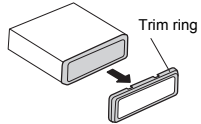


Installation

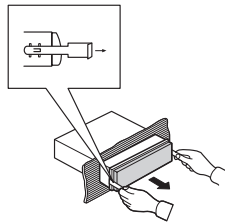
1. Insert the mounting sleeve into the dashboard.
 - When installing in a shallow space, use a supplied mounting sleeve. If there is enough space behind the unit, use factory supplied mounting sleeve.
2. Secure the mounting sleeve by using a screwdriver to bend the metal tabs (90°) into place.
3. Install the unit as illustrated.

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 a groove downwards and attach it.)
 - It becomes easy to remove the trim ring if the front panel is released.

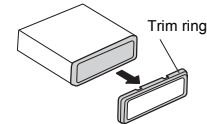


2. Insert the supplied extraction keys into both sides of the unit until they click into place.
3. Pull the unit out of the dashboard.

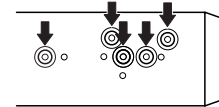


DIN Rear-mount

1. Extend top and bottom of the trim ring outwards to remove the trim ring. (When reattaching the trim ring, point the side with a groove downwards and attach it.)
 - It becomes easy to remove the trim ring if the front panel is released.

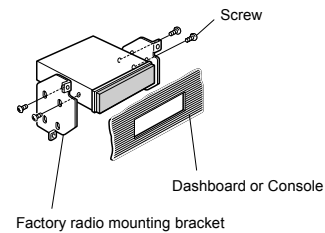


2. Determine the appropriate position where the holes on the bracket and the side of the unit match.



3. Tighten two screws on each side.

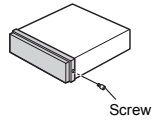
- Use either truss screws (5 mm x 8 mm) or flush surface screws (5 mm x 9 mm), depending on the shape of screw holes in the bracket.



Installation

Fastening the front panel

If you do not plan to detach the front panel, the front panel can be fastened with supplied screw.



Connecting the Units

Notes

- When this unit is installed in a vehicle without ACC (accessory) position on the ignition switch, red cable must be wired to the terminal that can detect the operation of the ignition key. Otherwise, battery drain may result.



ACC position



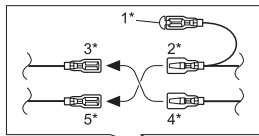
No ACC position

- Use this unit in other than the following conditions could result in fire or malfunction.
 - Vehicles with a 12-volt battery and negative grounding.
 - Speakers with 50 W (output value) and 4 ohm to 8 ohm (impedance value).
- To prevent 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. To protect the wiring, wrap adhesive tape around them where they lie against metal parts.
 - Place all cables away from moving parts, such as gear shift and seat rails.
 - Place all cables away from hot places, such as near the heater outlet.
 - Do not pass the yellow cable through a hole into the engine compartment to connect to a battery.
 - 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 to other equipment. Current capacity of the cable is limited.
 - Use a fuse of the rating prescribed.
 - Never wire the speaker negative cable directly to ground.
 - Never band together multiple speaker's negative cables.
- Control signal is output through blue/white cable when this unit is powered on. Connect it to an external power amp's system remote control 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 blue/white cable to external power amp's power terminal. Also, never connect it to the power terminal of the auto antenna. Otherwise, battery drain or malfunction may result.
- Black cable is ground. This cable and other product's ground cable (especially, high-current products such as power amp) must be wired separately. Otherwise, fire or malfunction may result if they are accidentally detached.

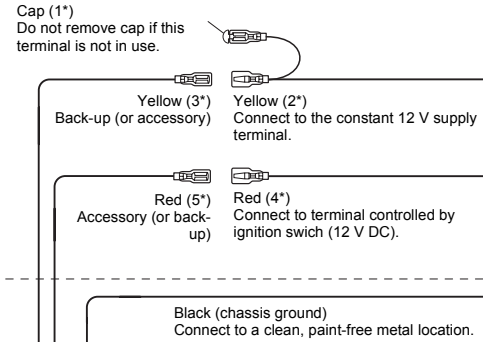
- Cord function may differ according to the product, even if cord color is the same. When connecting this system, be sure to check all manuals and connect cords correctly.

Connecting the Units

Note
Depending on the kind of vehicle, the function of 3* and 5* may be different. In this case, be sure to connect 2* to 5* and 4* to 3*.



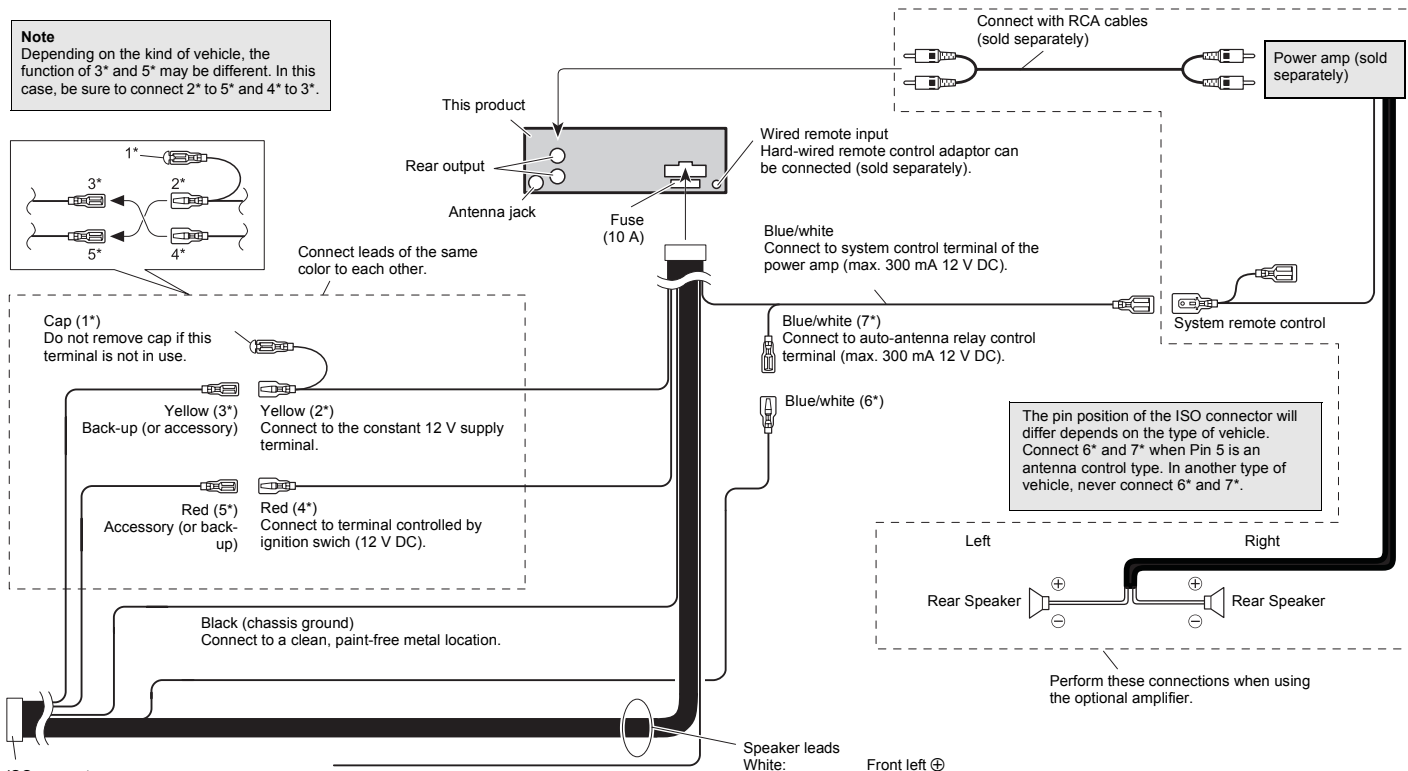
Connect leads of the same color to each other.



Note
In some vehicles, the ISO connector may be divided into two. In this case, be sure to connect to both connectors.

Yellow/black
If you use an equipment with Mute function, wire this lead to the Audio Mute lead on that equipment. If not, keep the Audio Mute lead free of any connections.

- Speaker leads**
- White: Front left ⊕
 - White/black: Front left ⊖
 - Gray: Front right ⊕
 - Gray/black: Front right ⊖
 - Green: Rear left ⊕
 - Green/black: Rear left ⊖
 - Violet: Rear right ⊕
 - Violet/black: Rear right ⊖



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Before You Start



If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling.

Private households in the 25 member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one).

For countries not mentioned above, please contact your local authorities for the correct method of disposal.

By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health.

About this unit

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

⚠ CAUTION

- Do not allow this unit to come into contact with liquids. Electrical shock could result. Also, this unit damage, smoke, and overheat 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.
- The Pioneer CarStereo-Pass is for use only in Germany.
- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough so that you can hear sounds from outside the vehicle.
- Protect this unit from moisture.
- If the battery is disconnected or discharged, the preset memory will be erased and must be reprogrammed.
- Should this product fail to operate properly, contact your dealer or nearest authorized Pioneer Service Station.

About WMA

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

WMA is short for Windows Media Audio and refers to an audio compression technology that is developed by Microsoft Corporation. WMA data can be encoded by using Windows Media Player version 7 or later.



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

Note

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

About 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>.

Visit our website

Visit us at the following site:

www.pioneer.co.uk

- Register your product. We will keep the details of your purchase on file to help you refer to this information in the event of an insurance claim such as loss or theft.
- We offer the latest information about Pioneer Corporation on our website.

Before You Start

Protecting your unit from theft

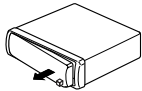
The front panel can be detached to deter theft.

Important

- Handle gently when removing or attaching the front panel.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.

Removing the front panel

1. Press **DETACH** to release the front panel.
2. Grab the front panel and remove.



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

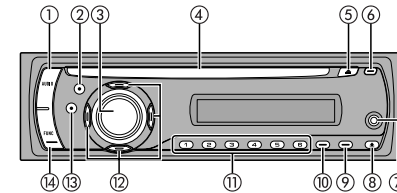
Attaching the front panel

1. Slide the front panel to the left until it clicks.
Front panel and the head unit are jointed on the left side. Make sure that the front panel has been jointed 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. Front panel may be damaged if you attach the front panel forcedly.

Operating this unit

What's What

Head unit



- | | |
|--|---|
| <p>① AUDIO button
Press to select various sound quality controls.</p> <p>② EQ button
Press to select various equalizer curves.</p> <p>③ SOURCE button, VOLUME
This unit is turned on by selecting a source. Press to cycle through all the available sources.
Press and hold to recall the initial setting menu when the sources are off.
Rotate it to increase or decrease the volume.</p> <p>④ Disc loading slot
Insert a disc to play.</p> <p>⑤ EJECT button
Press to eject a CD from your built-in CD player.</p> <p>⑥ TA button
Press to turn TA function on or off. Press and hold to turn AF function on or off.</p> <p>⑦ AUX input jack (3.5 mm stereo jack)
Use to connect an auxiliary equipment.</p> | <p>⑧ DETACH button
Press to remove the front panel from the head unit.</p> <p>⑨ DISPLAY button
Press to select different displays.</p> <p>⑩ LOUD button
Press to turn loudness on or off.</p> <p>⑪ 1 to 6 buttons
Press for preset tuning.</p> <p>⑫ ▲/▼/▶/◀ buttons
Press to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.</p> <p>⑬ BAND button
Press to select among MW/LW and two FM bands and cancel the control mode of functions.
Press and hold to turn regional function on or off.</p> <p>⑭ FUNCTION button
Press to recall the function menu when operating a source.</p> |
|--|---|

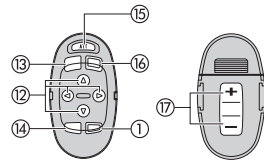
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Operating this unit

Optional remote control

The remote control CD-SR100 is sold separately.

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.



15 ATT button

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

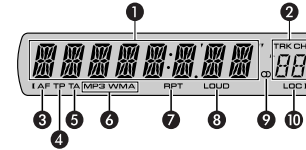
16 SOURCE button

Press to cycle through all the available sources. Press and hold to turn the source off.

17 VOLUME button

Press to increase or decrease the volume.

LCD display



1 Main display section

Shows the various information such as band, play time, and other setting.

- Tuner
Band and frequency are displayed.
- RDS
Program service name, PTY information or frequency is displayed.
- Built-in CD Player (Audio CD)
Elapsed play time is displayed.
- Built-in CD Player (WMA/MP3/WAV disc)
Folder number and elapsed play time are displayed.
- Audio and initial setup
Function names and setup status are displayed.

2 Preset number/track number indicator

Shows 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 AF indicator

Shows when AF (alternative frequencies search) function is on.

4 TP indicator

Shows when a TP station is tuned in.

5 TA indicator

Shows when TA (traffic announcement standby) function is on.

6 MP3/WMA indicator

Shows the type of the currently playing disc.

7 RPT indicator

Shows when repeat play is turned on.

8 LOUD indicator

Appears in the display when loudness is turned on.

9 Stereo (◻) indicator

Shows when the selected frequency is being broadcast in stereo.

10 LOC indicator

Shows when local seek tuning is on.

Operating this unit

Basic Operations

Turning the unit on and selecting a source

You can select a source you want to listen to. To switch to the built-in CD player, load a disc in the unit (refer to page 12).

- **Press SOURCE to select a source.**

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

Tuner – Built-in CD player – AUX

Notes

- In the following cases, the sound source will not change:
 - When there is no disc in the unit.
 - When the AUX (auxiliary input) is set to off (refer to page 15).
- AUX is set to on by default. Turn off the AUX when not in use (refer to "Switching the auxiliary setting" on page 15).
- 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.

Adjusting the volume

- Use **VOLUME** to adjust the sound level.

Turning the unit off

- Press **SOURCE** and hold until the unit turns off.

Tuner

Listening to the radio

1. Press **SOURCE** to select the tuner.

2. Press **BAND** to select a band.

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

3. To perform manual tuning, briefly press ◀ or ▶.

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

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

- You can cancel seek tuning by briefly pressing ◀ or ▶.
- If you press and hold ◀ or ▶ you can skip stations. Seek tuning starts as soon as you release the button.

Storing and recalling broadcast frequencies

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

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

- Up to 12 FM stations, 6 for each of the two FM bands, and 6 MW/LW stations can be stored in memory.
- Press ▲ or ▼ to recall radio station frequencies.

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Operating this unit

Tuning in strong signals

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

1. Press **FUNCTION** to select **LOCAL**.
2. Press **▲** or **▼** to turn local seek tuning on or off.
3. Press **◀** or **▶** to set the sensitivity.

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

MW/LW: **LOCAL 1 – LOCAL 2**

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

Storing the strongest broadcast frequencies

BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies under preset tuning buttons **1** to **6**. Once stored you can tune in to those frequencies with the touch of button.

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

1. Press **FUNCTION** to select **BSM**.
2. Press **▲** to turn **BSM** on.

Six strongest broadcast frequencies will be stored in the order of their signal strength.

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

RDS

Introduction of RDS operation

RDS (radio data system) contains inaudible informations that helps searching of the radio stations.

- RDS service may not be provided by all stations.
- RDS functions such as AF and TA are only active when your radio is tuned to an RDS station.

Switching the RDS display

- Press **DISPLAY**.

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

Program service name – PTY information – Frequency

PTY (program type ID code) information is listed on page 11.

- PTY information and the frequency appear on the display for eight seconds.

Receiving PTY alarm broadcasts

When the emergency PTY code broadcasts, the unit receives it automatically (**ALARM** appears). When the broadcasting ends, the system returns to the previous source.

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

Selecting alternative frequencies

When the tuner can't get good reception, the unit automatically search for a different station in a same network.

- Press and hold **TA** repeatedly to turn **AF (alternative frequency search)** on or off.

Notes

- You can also turn the AF function on or off in the menu that appears with the pressing of **FUNCTION**.
- Only RDS stations are tuned in during seek tuning or BSM when AF is on.
- When you recall a preset station, the tuner may update the preset station with a new frequency from the station's AF list. (This is only available when using presets on the **F1** or **F2** bands.) No preset number appears on the display if the RDS data for the station received differs from that for the originally stored station.
- Sound may be temporarily interrupted by another program during an AF frequency search.
- AF can be turned on or off independently for each FM band.

Using PI Seek

If the tuner can't find a suitable station, or reception status becomes bad, the unit will automatically search for a different station with a same programming. During the search, **PI SEEK** is displayed and the output is muted.

Using Auto PI Seek for preset stations

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

- The default setting for Auto PI Seek is off. See "Switching Auto PI Seek" on page 15.

Operating this unit

Limiting stations to regional programming

When AF is used, the regional function limits the selection of stations broadcasting regional programs.

1. Press **FUNCTION** to select **REG**.
2. Press **▲** or **▼** to turn the regional function on or off.

Notes

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

Receiving traffic announcements

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

1. **Tune in a TP or enhanced other network's TP station.**
TP indicator will light.
2. **Press TA to turn traffic announcement standby on.**
 - To turn traffic announcements standby off, press **TA** again.
3. **Use VOLUME to adjust the TA volume when a traffic announcement begins.**
The newly set volume is stored in memory and recalled for subsequent traffic announcements.
4. **Press TA while a traffic announcement is being received to cancel the announcement.**
The tuner returns to the original source but remains in the standby mode until **TA** is pressed again.
 - You can also cancel the announcement by pressing **SOURCE**, **BAND**, **▲**, **▼**, **◀** or **▶** while a traffic announcement is being received.

Notes

- You can also turn the TA function on or off in the menu that appears with the pressing of **FUNCTION**.
- The system switches back to the original source following traffic announcement reception.
- Only TP and enhanced other network's TP stations are tuned in during seek tuning or BSM when TA is on.

PTY list

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

Operating this unit

Built-in Player

Playing a disc

1. Insert a CD (CD-ROM) into the disc loading slot.

Playback will automatically start.

- **Be sure to turn up the label side of a disc.**
- After a CD (CD-ROM) has been inserted, press **SOURCE** to select the built-in CD player.
- You can eject a CD (CD-ROM) by pressing **EJECT**.

2. Press **▲** or **▼** to select a folder when playing a WMA/MP3/WAV disc.

- You cannot select a folder that does not have a WMA/MP3/WAV file recorded in it.
- To return to folder 01 (ROOT), press and hold **BAND**. However, if folder 01 (ROOT) contains no files, playback commences with folder 02.

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

If you select **ROUGH**, pressing and holding **◀** or **▶** enables you to search every 10 tracks in the current disc (folder). (Refer to "Searching every 10 tracks in the current disc or folder" on page 13.)

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

Notes

- Read the precautions with discs and player on page 17.
- If an error message such as **ERROR-11** is displayed, refer to "Error messages" on page 16.
- There is sometimes a delay between starting up disc playback and the sound being issued. When being read, **FRMTREAD** is displayed.
- When playing CD-EXTRA or MIXED-MODE CDs, WMA/MP3/WAV and CD-DA can be switched by pressing **BAND**.
- If you have switched between WMA/MP3/WAV files and audio CD-DA, playback starts at the first track on the disc.
- The built-in CD player can play back a WMA/MP3/WAV file recorded on CD-ROM. (Refer to page 17 for files that can be played back.)
- When playing back VBR (variable bit rate) recorded files, erapsed play time may not be displayed correctly.
- When playing WMA/MP3/WAV disc, there is no sound on fast forward or reverse.

Repeating play

Repeat play plays the same track/folder within the selected repeat play range.

1. Press **FUNCTION** to select **RPT**.

2. Press **◀** or **▶** to select the repeat range.

DSC – Repeat all tracks

TRK – Repeat just the current track

FLD – Repeat the current folder

- If you select another folder during repeat play, the repeat play range changes to disc repeat.
- When playing CD, performing track search or fast forward/reverse cancels the repeat play automatically.
- When playing WMA/MP3/WAV disc, performing track search or fast forward/reverse during **TRK** (track repeat) changes the repeat play range to folder repeat.
- When **FLD** (folder repeat) is selected, it is not possible to play back a subfolder of that folder.
- To return to the normal display, press **BAND**.

Playing tracks in random order

Random play plays tracks in a random order within the selected repeat range.

1. Select the repeat range.

Refer to "Repeating play" on this page.

2. Press **FUNCTION** to select **RDM**.

3. 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.

- To return to the normal display, press **BAND**.

Operating this unit

Scanning tracks or folders

Scan play searches the song within the selected repeat range.

1. Select the repeat range.

Refer to "Repeating play" on page 12.

2. Press FUNCTION to select SCAN.

3. Press ▲ to turn scan play on.

SCAN appears in the display. The first 10 seconds of each track is played.

- If you turn scan play on during **FLD**, **FSCN** appears in the display.

4. 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 **FUNCTION**.
- After scanning of a disc (folder) is finished, normal playback of the tracks will begin again.

Pausing disc playback

Pause lets you temporarily stop playback of the disc.

1. Press FUNCTION to select PAUSE.

2. Press ▲ or ▼ to turn pause on or off.

- To return to the normal display, press **BAND**.

Using compression and BMX

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

1. Press FUNCTION to select COMP OFF.

2. Press ▲ or ▼ to select your favorite setting.

COMP OFF – COMP 1 – COMP 2 – COMP OFF – BMX 1 – BMX 2

- To return to the normal display, press **BAND**.

Searching every 10 tracks in the current disc or folder

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 FUNCTION to select FF/REV.

- If the search method **ROUGH** has been previously selected, **ROUGH** will be displayed.

2. Press ► to select ROUGH.

- **FF/REV** – Fast forward and reverse
- **ROUGH** – Searching every 10 tracks
- To select **FF/REV**, press ◀.

3. Press BAND to return to the playback display.

4. 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.

Displaying text information on disc

● **Press DISPLAY.**

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

For CD TEXT discs

Play time – **DISC TTL** (disc title) – **DISC ART** (disc artist name) – **TRK TTL** (track title) – **TRK ART** (track artist name)

For WMA/MP3 discs

Play time – **FOLDER** (folder name) – **FILE** (file name) – **TRK TTL** (track title) – **ARTIST** (artist name) – **ALBUM** (album title) – **COMMENT** (comment) – Bit rate

For WAV discs

Play time – **FOLDER** (folder name) – **FILE** (file name) – Sampling frequency

Operating this unit

Notes

- You can scroll to the left of the title by pressing and holding **DISPLAY**.
- Audio CD that contain certain information such as text and/or number are **CD TEXT**.
- If specific information has not been recorded on a disc, **NO XXXX** will be displayed (e.g., **NO T-TTL**).
- When playing back VBR-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.
- Depending on the version of iTunes® used to write MP3 files onto a disc, comment information may not be correctly displayed.
 - iTunes is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.
- The sampling frequency shown in the display may be abbreviated.

Audio Adjustments

Using balance adjustment

Fader/balance setting creates an ideal listening environment in all occupied seats.

- Press **AUDIO** to select **FAD**.
- Press **▲** or **▼** to adjust front/rear speaker balance.

FAD F15 to **FAD R15** is displayed.

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

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

BAL L15 to **BAL R15** is displayed.

- To return to the normal display, press **BAND**.

Using the equalizer

There are six stored equalizer settings such as **DYNAMIC**, **VOCAL**, **NATURAL**, **CUSTOM**, **FLAT** and **POWERFUL** that can easily be recalled at any time.

- CUSTOM** is an adjusted equalizer curve that you create.
- When **FLAT** is selected no supplement or correction is made to the sound.
- Press **EQ** to select the equalizer.

Press **EQ** repeatedly to switch between the following equalizers:

DYNAMIC – **VOCAL** – **NATURAL** – **CUSTOM** – **FLAT** – **POWERFUL**

Adjusting equalizer curves

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

Adjusting bass/mid/treble

You can adjust the bass/mid/treble level.

- Press **AUDIO** to select **BASS/MID/TREBLE**.

- Press **▲** or **▼** to adjust the level.

+6 to **-6** is displayed as the level is increased or decreased.

- To return to the normal display, press **BAND**.

Adjusting loudness

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

- Press **AUDIO** to select **LOUD**.

- Press **▲** or **▼** to turn loudness on or off.

- You can also turn loudness on or off by pressing **LOUD**.

- Press **◀** or **▶** to select a desired level.

LOW (low) – **HI** (high)

- To return to the normal display, press **BAND**.

Adjusting source levels

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

- Settings are based on the FM tuner volume level, which remains unchanged.
- The MW/LW tuner volume level can also be adjusted with source level adjustments.

- Compare the **FM tuner volume level with the level of the source you wish to adjust**.

- Press **AUDIO** to select **SLA**.

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

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

- To return to the normal display, press **BAND**.

Operating this unit

Other Functions

Adjusting initial settings

Using the initial settings, you can customize various system settings to achieve optimal performance from this unit.

1. Press **SOURCE** and hold until the unit turns off.
2. Press **SOURCE** and hold until function name appears in the display.
3. Press **FUNCTION** to select one of the initial settings.

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

FM (FM tuning step) – **A-PI** (auto PI Seek) – **AUX** (auxiliary input) – **TITLE** (multi language) – **SAVE** (power save)

Use the following instructions to operate each particular setting.

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

Setting the FM tuning step

Normally the FM tuning step employed by seek tuning is 50 kHz. When AF or TA is on, the tuning step automatically changes to 100 kHz. It may be preferable to set the tuning step to 50 kHz when AF is on.

- The tuning step remains at 50 kHz during manual tuning.

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

Press **◀** to select **50** (50 kHz). Press **▶** to select **100** (100 kHz).

Switching Auto PI Seek

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

1. Press **FUNCTION** to select **A-PI**.
2. Press **▲** or **▼** to turn the Auto PI seek on or off.

Switching the auxiliary setting

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

1. Press **FUNCTION** to select **AUX**.
2. Press **▲** or **▼** to turn the auxiliary setting on or off.

Multi language display setting

Text information such as title name, artist name or comment can be recorded on a WMA/MP3/WAV disc.

This unit can display them even if they are embedded in either European language or Russian language.

- If embedded language and selected language setting are not consistent with each other, text information may not be displayed properly.
- Some characters may not be displayed properly.

1. Press **FUNCTION** to select **TITLE**.
2. Press **◀** or **▶** to select the language.
EUR (European language) – **RUS** (Russian language)

Saving the battery consumption

Switching this function on enables you to save the consumption of battery power.

- Operations other than turning on the source are not allowed when this function is on.

Important

- If the battery in your vehicle is disconnected the Power Save mode is canceled. Turn on Power Save again once the battery has been reconnected. If the ignition switch in your vehicle doesn't have an ACC (accessory) position, it is possible depending on the connection method that when Power Save is off, the unit will draw power from the battery.

1. Press **FUNCTION** to select **SAVE**.
2. Press **▲** or **▼** to turn the power save on or off.

ENGLISH

Operating this unit

Sound muting

Sound from this unit is muted automatically in the following cases:

- When a call is made or received using a cellular telephone connected to this unit.
- When the voice guidance is output from a Pioneer navigation unit connected to this unit.

The sound is turned off, **MUTE** is displayed and no audio adjustments, except volume control, are possible. Operation returns to normal when the phone connection or the voice guidance is ended.

Additional Information

Error messages

When you contact your dealer or your nearest Pioneer Service Center, be sure to record 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 ON and OFF, or switch to a different source, then back to the CD player.
ERROR-15	The inserted disc does not contain any data	Replace disc.
ERROR-22, 23	The CD format cannot be played back	Replace disc.
NO AUDIO	The inserted disc does not contain any files that can be played back	Replace disc.
PROTECT	All the files on the inserted disc are secured by DRM	Replace disc.
SKIPPED	The inserted disc contains WMA files that are protected by DRM	Replace disc.

Additional Information

Handling guideline of discs and player

- Use only discs featuring either of following two logos.



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



- Use 12-cm or 8-cm CD. Do not use an adapter when playing 8-cm CDs.
- 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.
- 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 dump 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.
- Text information may not be correctly displayed depending on the recorded environment.
- Road shocks may interrupt disc playback.
- Read the precautions with discs before using them.

Dual Discs

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

WMA, MP3 and WAV files

- Depending on the version of Windows Media Player used to encode WMA files, album names and other text information may not be correctly displayed.
- There may be a slight delay when starting playback of WMA files encoded with image data.
- ISO 9660 Level 1 and 2 compliant. Romeo and Joliet file systems are both compatible with this player.
- Multi-session playback is possible.
- WMA/MP3/WAV files are not compatible with packet write data transfer.
- Only 64 characters from the beginning can be displayed as a file name (including the extension such as .wma, .mp3 or .wav) or a folder name.
- Folder selection sequence or other operation may be altered depending on the encoding or writing software.
- Regardless of the length of blank section between the songs of original recording, WMA/MP3/WAV discs will play with a short pause between songs.
- File extensions such as .wma, .mp3 or .wav must be used properly.

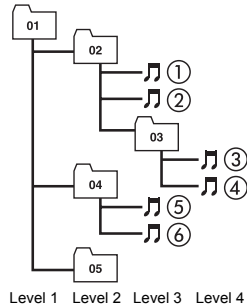
Additional Information

Example of a hierarchy

📁: Folder

🎵: File

- This unit assigns folder numbers. The user cannot assign folder numbers.
- Folder hierarchy is allowed up to eight tiers. However, practical hierarchy of folder is less than two tiers.
- Up to 99 folders on a disc can be played back.



Compressed audio compatibility

WMA

- Compatible format: WMA encoded by Windows Media Player Ver. 7, 7.1, 8, 9 or 10
- Bit rate: 48 kbps to 320 kbps (CBR), 48 kbps to 384 kbps (VBR)
- Sampling frequency: 32 kHz to 48 kHz
- Windows Media Audio 9 Professional, Lossless, Voice: No

MP3

- Bit rate: 8 kbps to 320 kbps
- Sampling frequency: 16 kHz to 48 kHz (32 kHz, 44.1 kHz, 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 than Version 1.x.)
- M3u playlist: No
- MP3i (MP3 interactive), mp3 PRO: No

WAV

- Compatible format: Linear PCM (LPCM), MS ADPCM
- Quantization bits: 8 and 16 (LPCM), 4 (MS ADPCM)
- Sampling frequency: 16 kHz to 48 kHz (LPCM), 22.05 kHz to 44.1 kHz (MS ADPCM)

Russian character chart

Display	Character	Display	Character
<i>A</i>	A	<i>Б</i>	Б
<i>В</i>	В	<i>Г</i>	Г
<i>Д</i>	Д	<i>Е</i>	Е, Ё
<i>Ж</i>	Ж	<i>З</i>	З
<i>И</i>	И, Й	<i>К</i>	К
<i>Л</i>	Л	<i>М</i>	М
<i>Н</i>	Н	<i>О</i>	О
<i>П</i>	П	<i>Р</i>	Р
<i>С</i>	С	<i>Т</i>	Т
<i>У</i>	У	<i>Ф</i>	Ф
<i>Х</i>	Х	<i>Ц</i>	Ц
<i>Ч</i>	Ч	<i>Ш</i>	Ш, Щ
<i>Ъ</i>	Ъ	<i>Ы</i>	Ы
<i>Ь</i>	Ь	<i>Э</i>	Э
<i>Ю</i>	Ю	<i>Я</i>	Я

Additional Information

Specifications

General

Power source 14.4 V DC
 (10.8 V to 15.1 V allowable)
 Grounding system Negative type
 Max. current consumption 10.0 A
 Dimensions (W x H x D):
 DIN
 Chassis 178 x 50 x 162 mm
 Nose 188 x 58 x 14 mm
 D
 Chassis 178 x 50 x 162 mm
 Nose 170 x 47 x 14 mm
 Weight 1.3 kg

Audio

Continuous power output 22 W x 4
 (50 Hz to 15 000 Hz, 5% THD,
 4 Ω load, both channels driven)
 Maximum power output 50 W x 4
 Load impedance 4 Ω (4 Ω to 8 Ω allowable)
 Preout max output level/
 output impedance 2.2 V/1 kΩ
 Bass/Mid/Treble:
 Bass
 Frequency 100 Hz
 Gain ±13dB
 Mid
 Frequency 1 kHz
 Gain ±12 dB
 Treble
 Frequency 10 kHz
 Gain ±12 dB
 Loudness contour:
 Low +7 dB (100 Hz), +4 dB (10 kHz)
 High +10 dB (100 Hz), +6.5 dB (10 kHz)
 (volume: -30 dB)

CD player

System Compact disc system
 Usable discs Compact disc
 Signal format:
 Sampling frequency 44.1 kHz
 Number of quantization bits 16; linear
 Frequency characteristics 5 Hz to 20 000 Hz
 (±1 dB)
 Signal-to-noise ratio 94 dB (1 kHz)
 (IEC-A network)
 Dynamic range 92 dB (1 kHz)
 Number of channels 2 (stereo)
 WMA decoding format Ver. 7, 7.1, 8, 9, 10
 (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
 Usable sensitivity 8 dBf (0.7 μV/75 Ω,
 mono, S/N: 30 dB)
 Signal-to-noise ratio 75 dB (IEC-A network)
 Distortion 0.3 % (at 65 dBf, 1 kHz, stereo)
 0.1 % (at 65 dBf, 1 kHz, mono)
 Frequency response 30 Hz to 15 000 Hz (±3 dB)
 Stereo separation 45 dB (at 65 dBf, 1 kHz)

MW tuner

Frequency range 531 kHz to 1 602 kHz (9 kHz)
 Usable sensitivity 18 μV (S/N: 20 dB)
 Signal-to-noise ratio 65 dB (IEC-A network)

LW tuner

Frequency range 153 kHz to 281 kHz
 Usable sensitivity 30 μV (S/N: 20 dB)
 Signal-to-noise ratio 65 dB (IEC-A network)

Note

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

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