

# TRP RADIO - TR0004

## TR0004

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CD-RECEIVER

**INSTRUCTION MANUAL**

AUTORADIO CD

**MODE D'EMPLOI**

RECEPTOR CD

**MANUAL DE INSTRUCCIONES**

Brought to market by Pana-Pacific, Inc.

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## How to read this manual

- The displays and faceplates shown in this manual are examples used to provide clear explanations of the operations. For this reason, they may be different from the actual displays or faceplates.
- Operations are explained mainly using buttons on the faceplate.
- English indications are used for the purpose of explanation. You can select the display language from the **[FUNCTION]** menu. (Page 6)
- **[XX]** indicates the selected items.
- (Page XX) indicates references are available on the stated page.



This symbol on the product means there are important operating and maintenance instructions in this manual. Be sure to carefully read instructions in this manual.

# Before Use

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## IMPORTANT

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

## ▲ WARNING

- **Do not operate any function that takes your attention away from safe driving.**

- **Do not ingest the battery, Chemical Burn Hazard**

The remote control supplied with this product contains a coin/button cell battery.

If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children.

If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

## ▲ CAUTION

### Volume setting:

- Adjust the volume so that you can hear sounds outside the vehicle to prevent accidents.
- Lower the volume before playing digital sources to avoid damaging the speakers by the sudden increase of the output level.

### General:

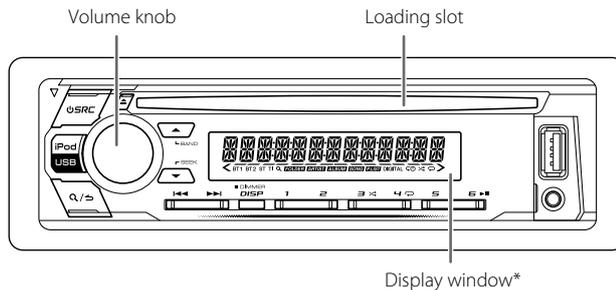
- Avoid using the external device if it might hinder safe driving.
- Make sure all important data has been backed up. We shall bear no responsibility for any loss of recorded data.
- Never put or leave any metallic objects (such as coins or metal tools) inside the unit to prevent a short circuit.

## Remote control (RC-406):

- Do not leave the remote control in hot places such as on the dashboard.
- Risk of fire or explosion if the battery is replaced by an incorrect type. Ensure to replace only with the same type.
- Risk of fire, explosion or the leakage of flammable liquid or gas if the battery is left in an extremely high temperature surrounding environment and/or subjected extremely low air pressure. The battery pack or batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- Risk of fire, explosion or the leakage of flammable liquid or gas if the battery is disposed into fire or a hot oven, recharged, shorted, mechanically crushed or cut of the battery.
- If spilled fluid comes in contact with your eyes or on clothing, immediately rinse with water and consult a physician.

# Basics

## Faceplate

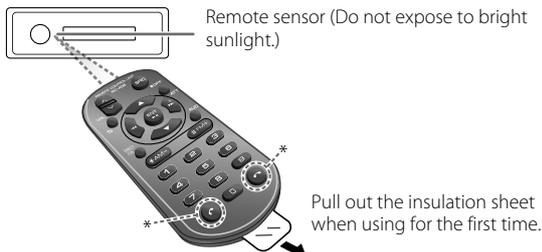


\* Only for illustration purpose.

To	On the faceplate
Turn on the power	Press $\odot$ SRC. • Press and hold to turn off the power.
Adjust the volume	Turn the volume knob.
Select a source	Press $\odot$ SRC repeatedly.
Change the display information	Press DISP repeatedly. (Page 17)

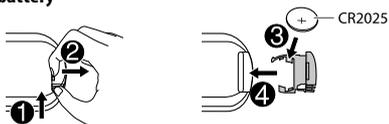
## Basics

### Remote control (RC-406)



\* Not used.

### How to replace the battery

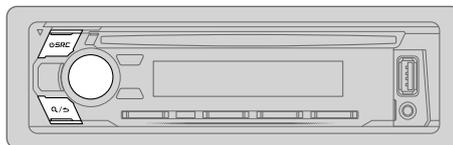


### To

### On the remote control

Adjust the volume	Press VOL $\wedge$ or VOL $\nabla$ . • Press and hold VOL $\wedge$ to continuously increase the volume to 15.  Press ATT during playback to attenuate the sound. • Press again to cancel.
Select a source	Press SRC repeatedly.
Turn off the power	Press and hold SRC to turn off the power. (Pressing SRC does not turn on the power.)

## Getting Started



### 1 Set the clock and date

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select [CLOCK], then press the knob.

#### To adjust the clock

- 3 Turn the volume knob to select [CLOCK ADJUST], then press the knob.
- 4 Turn the volume knob to make the settings, then press the knob.  
Set the time in the order of "Hour"  $\rightarrow$  "Minute".
- 5 Turn the volume knob to select [CLOCK FORMAT], then press the knob.
- 6 Turn the volume knob to select [12H] or [24H], then press the knob.

#### To set the date

- 7 Turn the volume knob to select [DATE FORMAT], then press the knob.
- 8 Turn the volume knob to select [DD/MM/YY] or [MM/DD/YY], then press the knob.
- 9 Turn the volume knob to select [DATE SET], then press the knob.
- 10 Turn the volume knob to make the settings, then press the knob.  
Set the date in the order of "Day"  $\rightarrow$  "Month"  $\rightarrow$  "Year" or "Month"  $\rightarrow$  "Day"  $\rightarrow$  "Year".
- 11 Press and hold  $\mathcal{Q}/\rightarrow$  to exit.

To return to the previous setting item, press  $\mathcal{Q}/\rightarrow$ .

## Getting Started

2

### Set the other optional settings

You can only set the following items while the unit is in STANDBY source.

- 1 Press  SRC repeatedly to enter STANDBY.
- 2 Press the volume knob to enter [FUNCTION].
- 3 Turn the volume knob to select an item (see the following table), then press the knob.
- 4 Repeat step 3 until the desired item is selected or activated.
- 5 Press and hold  to exit.

To return to the previous setting item, press .

Default: XX

[AUDIO CONTROL]	
[SWITCH PREOUT]	[REAR]/[SUB-W]: Selects whether rear speakers or a subwoofer are connected to the line out terminals on the rear (through an external amplifier). (Page 15)
[SP SELECT]	[OFF]/[5/4]/[6*9/6]/[OEM]: Selects according to the speaker size (5 inches or 4 inches, 6×9 inches or 6 inches) or OEM speakers for optimum performance.
[TUNER SETTING]	
[PRESET TYPE]	[NORMAL]: Memorizes one station for each preset button in each band (FM1/FM2/FM3/AM). ; [MIX]: Memorizes one station for each preset button, regardless of the selected band.
[SYSTEM]	
[KEY BEEP]	[ON]: Activates the keypress tone. ; [OFF]: Deactivates.

#### [SOURCE SELECT]

[BUILT-IN AUX] [ON]: Enables AUX in source selection. ; [OFF]: Disables. (Page 11)

[CD READ] [1]: Automatically distinguishes between audio file disc and music CD. ; [2]: Forces to play as a music CD. No sound can be heard if an audio file disc is played.

#### [F/W UPDATE]

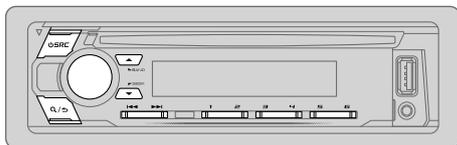
##### [UPDATE SYSTEM]

[F/W UP xxxx] (This feature is not available for this model.)  
 [YES]: Starts upgrading the firmware. ; [NO]: Cancels (upgrading is not activated).  
 • Once you have upgraded the firmware, you are unable to downgrade the firmware.

[ENGLISH] Select the display language for [FUNCTION] menu and music information if applicable.

[ESPANOL] By default, [ENGLISH] is selected.

# Radio



“ST” indicator lights up when receiving an FM stereo broadcast with sufficient signal strength.

## Search for a station

- 1 Press **SRC** repeatedly to select TUNER.
- 2 Press **BAND** repeatedly (or press #FM+/\*AM- on the remote control) to select the band FM1/FM2/FM3/AM.
- 3 Press **◀◀ / ▶▶** (or press **◀◀ / ▶▶ (+)** on the remote control) to search for a station.

You can change the searching method for **◀◀ / ▶▶** buttons when pressed.

Press **▼ SEEK** repeatedly to change the searching method.

- **AUTO1** : Automatically search for a station.
- **AUTO2** : Search for a preset station.
- **MANUAL** : Manually search for a station.

You can store up to 18 stations for FM and 6 stations for AM.

- **To store a station**: Press and hold one of the number buttons (1 to 6).
- **To select a stored station**: Press one of the number buttons (1 to 6) (or press one of the number buttons (1 to 6) on the remote control).

## Direct Access Tuning (using the remote control)

- 1 Press **DIRECT** to enter Direct Access Tuning.
- 2 Press the number buttons to enter a station frequency.
- 3 Press **ENT ▶▶** to search for a station.

- To cancel, press **↶** or **DIRECT**.
- If no operation is done for 10 seconds after step 2, Direct Access Tuning is automatically canceled.

## Other settings

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select an item (see the following table), then press the knob.
- 3 Repeat step 2 until the desired item is selected/activated.
- 4 Press and hold **Q/↶** to exit.

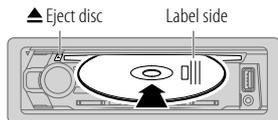
To return to the previous setting item, press **Q/↶**.

Default: **[XX]**

[TUNER SETTING]	
[AUTO MEMORY]	[YES]: Automatically starts memorizing 6 stations with good reception. ; [NO]: Cancels. • Selectable only if [NORMAL] is selected for [PRESET TYPE]. (Page 6)
[MONO SET]	[ON]: Improves the FM reception, but the stereo effect will be lost. ; [OFF]: Cancels.

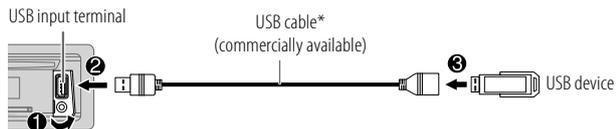
## CD/USB/iPod

### Insert a disc



The source changes to CD automatically and playback starts.

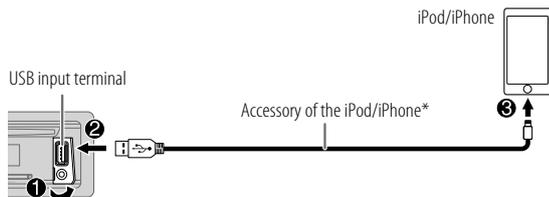
### Connect a USB device



The source changes to USB automatically and playback starts.

\* Do not leave the cable inside the vehicle when not in use.

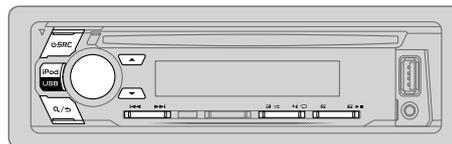
### Connect an iPod/iPhone



The source changes to iPod automatically and playback starts.

\* Do not leave the cable inside the vehicle when not in use.

### Basic operation



- For playable audio file, see "Playable files" on page 16.
- To directly select USB/iPod source, press iPod USB.

To	On the faceplate	On the remote control
Play back/pause	Press 6 ►  .	Press ENT ►  .
Reverse/ Fast-forward	Press and hold I◀◀/ ▶▶.	Press and hold I◀◀/ ▶▶(+).
Select a track/file	Press I◀◀/▶▶I.	Press I◀◀/▶▶I(+).
Select a folder*1	Press ▲/▼.	Press #FM+/*AM-.
Repeat play*2	Press 4 ↻ repeatedly. [TRACK REPEAT]/[ALL REPEAT] : Audio CD [FILE REPEAT]/[FOLDER REPEAT]/[ALL REPEAT] : MP3/ WMA/WAV/FLAC file [FILE REPEAT]/[FOLDER REPEAT]/[REPEAT OFF] : iPod	
Random play*2	Press 3 ⌘ repeatedly. [DISC RANDOM]/[RANDOM OFF] : Audio CD [FOLDER RANDOM]/[RANDOM OFF] : MP3/WMA/WAV/ FLAC file, iPod Press and hold 3 ⌘ to select [ALL RANDOM].*1	

\*1 For CD: Only for MP3/WMA files. This does not work for iPod.

\*2 For iPod: Applicable only when [MODE OFF] is selected. (Page 9)

## CD/USB/iPod

### Select music drive

While in USB source, press iPod USB repeatedly.

Stored songs in the following drive will be played back.

- Selected internal or external memory of a smartphone (Mass Storage Class).
- Selected drive of a multiple drive device. (This unit can support multiple drive device of up to 4 drives. However, this unit may take some time to read if three or more cards are connected.)

You can also select the music drive from the [FUNCTION] menu.

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select [USB], then press the knob.
- 3 Turn the volume knob to select [MUSIC DRIVE], then press the knob.
- 4 Turn the volume knob to select [DRIVE CHANGE], then press the knob.  
The next drive ([DRIVE 1] to [DRIVE 5]) is selected automatically and playback starts.
- 5 Repeat step 1 to step 4 to select the following drives.
- 6 Press and hold **Q/↵** to exit.

To return to the previous setting item, press **Q/↵**.

### Direct Music Search (using the remote control)

- 1 Press DIRECT.
  - 2 Press the number buttons to enter a track/file number.
  - 3 Press ENT **▶||** to search for music.
- To cancel, press **↵** or DIRECT.
  - Not available if Random Play is selected.
  - Not applicable for iPod source.

### Select control mode

While in iPod source, press iPod USB repeatedly.

[MODE ON]: Control iPod/iPhone using the iPod/iPhone itself. However, you can still perform play/pause, file skip, fast-forward or fast-reverse from this unit.

[MODE OFF]: Control iPod/iPhone from this unit.

### Select a file to play

#### From a folder or list

- For iPod, applicable only when [MODE OFF]/[BROWSE MODE] is selected.

- 1 Press **Q/↵**.
- 2 Turn the volume knob to select a folder/list, then press the knob.
- 3 Turn the volume knob to select a file, then press the knob.  
Selected file starts playing.

#### Quick search (applicable only for CD source and USB source)

If you have many files, you can search through them quickly.

- 1 Press **Q/↵**.
- 2 Turn the volume knob to select a folder/list, then press the knob.
- 3 Turn the volume knob quickly to browse through the list quickly.
- 4 Turn the volume knob to select a file, then press the knob.  
Selected file starts playing.

## CD/USB/iPod

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### **Skip search** (applicable only for iPod source)

If you have many files in the selected list, you can perform the following to search for a file by skipping through the list at a rate selected in [SKIP SEARCH].

- For iPod, applicable only when [MODE OFF]/[BROWSE MODE] is selected.

- 1 Press **Q/↵**.
- 2 Turn the volume knob to select a list, then press the knob.
- 3 Press **◀◀ / ▶▶** to search at a preset skip search ratio.
  - Pressing and holding **◀◀ / ▶▶** searches at a 10% ratio irregardless of the [SKIP SEARCH] settings. (See the following.)
- 4 Turn the volume knob to select a file, then press the knob.  
Selected file starts playing.

### [SKIP SEARCH] setting

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select [USB], then press the knob.
- 3 Turn the volume knob to select [SKIP SEARCH], then press the knob.
- 4 Turn the volume knob to select the skip search ratio, then press the knob.  
[0.5%] (default)/[1%]/[5%]/[10%]  
The skip search ratio is shown as a percentage of the total files.
- 5 Press and hold **Q/↵** to exit.

### **Alphabet search** (applicable only for iPod source) You can search

for a file according to the first character.

- For iPod, applicable only when [MODE OFF]/[BROWSE MODE] is selected.

### For iPod source

- 1 Press **Q/↵**.
- 2 Turn the volume knob to select a list, then press the knob.
- 3 Turn the volume knob quickly to enter character search.

- 4 Turn the volume knob to select the character.
  - Select “\*” to search for a character other than A to Z, 0 to 9.
- 5 Press **◀◀ / ▶▶** to move to the entry position.
  - You can enter up to 3 characters.
- 6 Press the volume knob to start searching.
- 7 Turn the volume knob to select a file, then press the knob.  
Selected file starts playing.

## AUX

You can listen to music from a portable audio player via the auxiliary input jack.

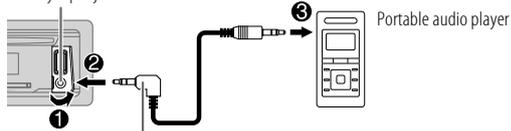
### Preparation:

Select [ON] for [BUILT-IN AUX] in [SOURCE SELECT]. (Page 6)

### Start listening

- 1 Connect a portable audio player (commercially available).

Auxiliary input jack



3.5 mm (1/8") stereo mini plug with "L" shaped connector (commercially available)

- 2 Press  $\odot$  SRC repeatedly to select AUX.
- 3 Turn on the portable audio player and start playback.

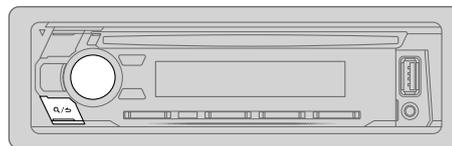
### Set the name of the external device

While listening to a portable audio player connected to the unit...

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select [SYSTEM], then press the knob.
- 3 Turn the volume knob to select [AUX NAME SET], then press the knob.
- 4 Turn the volume knob to select an item, then press the knob.  
[AUX] (default)/[DVD]/[PORTABLE]/[GAME]/[VIDEO]/[TV]
- 5 Press and hold  $\mathcal{R}/\mathcal{S}$  to exit.

To return to the previous setting item, press  $\mathcal{R}/\mathcal{S}$ .

## Audio Settings



- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select an item (see the following table), then press the knob.
- 3 Repeat step 2 until the desired item is selected or activated.
- 4 Press and hold  $\mathcal{R}/\mathcal{S}$  to exit.

(or using the remote control)

- 1 Press AUD to enter [AUDIO CONTROL].
- 2 Press  $\blacktriangle/\blacktriangledown$  to select an item, then press ENT  $\blacktriangleright$   $\blacksquare$ .

To return to the previous setting item, press  $\mathcal{R}/\mathcal{S}$ .

Default: [XX]

[AUDIO CONTROL]		
[SUB-W LEVEL]	[-15] to [+15] ([0])	Adjusts the subwoofer output level.
[BASS LEVEL]	[-8] to [+8] ([+2])	Adjusts the level to memorize for each source. (Before making an adjustment, select the source you want to adjust.)
[MID LEVEL]	[-8] to [+8] ([+1])	
[TRE LEVEL]	[-8] to [+8] ([+1])	

## Audio Settings

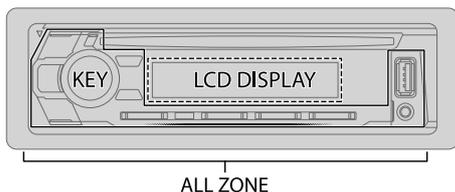
[EQ PRO]	Adjusts your own sound settings for each source. • The settings are stored to [USER] in [PRESET EQ].
[BASS ADJUST]	[BASS CTR FRQ] [60]/[80]/[100]/[200]: Selects the center frequency.
	[BASS LEVEL] [-8] to [+8] ([+2]): Adjusts the level.
	[BASS Q FACTOR] [1.00]/[1.25]/[1.50]/[2.00]: Adjusts the quality factor.
	[BASS EXTEND] [ON]: Turns on the extended bass. ; [OFF]: Cancels.
[MID ADJUST]	[MID CTR FRQ] [0.5KHZ]/[1.0KHZ]/[1.5KHZ]/[2.5KHZ]: Selects the center frequency.
	[MID LEVEL] [-8] to [+8] ([+1]): Adjusts the level.
	[MID Q FACTOR] [0.75]/[1.00]/[1.25]: Adjusts the quality factor.
[TRE ADJUST]	[TRE CTR FRQ] [10.0KHZ]/[12.5KHZ]/[15.0KHZ]/[17.5KHZ]: Selects the center frequency.
	[TRE LEVEL] [-8] to [+8] ([+1]): Adjusts the level.
[PRESET EQ]	[DRIVE EQ]/[TOP40]/[POWERFUL]/[ROCK]/[POPS]/[EASY]/[JAZZ]/[NATURAL]/[USER]: Selects a preset equalizer suitable to the music genre. • Select [USER] to use the settings made in [EQ PRO]. • [DRIVE EQ] is a preset equalizer that reduces noise outside the car or running noise of the tyres.
[BASS BOOST]	[LV1]/[LV2]/[LV3]: Selects your preferred bass boost level. ; [OFF]: Cancels.
[LOUDNESS]	[LV1]/[LV2]: Selects your preferred low or high frequencies boost to produce a well-balanced sound at low volume. ; [OFF]: Cancels.
[SUBWOOFER SET]	[ON]: Turns on the subwoofer output. ; [OFF]: Cancels.

[LPF SUBWOOFER]	[THROUGH]: All signals are sent to the subwoofer. ; [85HZ]/[120HZ]/[160HZ]: Audio signals with frequencies lower than 85 Hz/120 Hz/160 Hz are sent to the subwoofer.
[SUB-W PHASE]	[REVERSE] (180°)/[NORMAL] (0°): Selects the phase of the subwoofer output to be in line with the speaker output for optimum performance. • Selectable only if a setting other than [THROUGH] is selected for [LPF SUBWOOFER].
[FADER]	[R15] to [F15] ([0]): Adjusts the front and rear speaker output balance.
[BALANCE]	[L15] to [R15] ([0]): Adjusts the left and right speaker output balance.
[VOLUME OFFSET]	For AUX: [-8] to [+8] ([0]) ; For other sources: [-8] to [0]: Presets the initial volume level of each source by comparing to the FM volume level. (Before adjustment, select the source you want to adjust.)
[SOUND RECNRSTR] (Sound reconstruction)	[ON]: Creates realistic sound by compensating the high-frequency components and restoring the rise-time of the waveform that are lost in audio data compression. ; [OFF]: Cancels.

- [SUB-W LEVEL]/[SUBWOOFER SET]/[LPF SUBWOOFER]/[SUB-W PHASE] is selectable only if [SWITCH PREOUT] is set to [SUB-W]. (Page 6)
- [SUB-W LEVEL]/[LPF SUBWOOFER]/[SUB-W PHASE] is selectable only if [SUBWOOFER SET] is set to [ON].

# Display Settings

Zone identification for brightness settings



## Set the dimmer

Press and hold DISP (DIMMER) to turn on or off the dimmer.

- Once you press and hold this button, [DIMMER] setting will be overwritten.

## Change the display settings

- Press the volume knob to enter [FUNCTION].
- Turn the volume knob to select an item (page 14), then press the knob.
- Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.
- Press and hold **Q/➔** to exit.

To return to the previous setting item, press **Q/➔**.

Default: [XX]

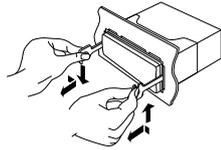
[DISPLAY]	
[DIMMER]	<p>Dims the illumination.</p> <p>[ON]: Dimmer is turned on.</p> <p>[OFF]: Dimmer is turned off.</p> <p>[DIMMER TIME]: Set the time to turn on dimmer and to turn off dimmer.</p> <p><b>1</b> Turn the volume knob to adjust the [ON] time, then press the knob.</p> <p><b>2</b> Turn the volume knob to adjust the [OFF] time, then press the knob.</p> <p>Default: [ON]: [6:00PM] ; [OFF]: [6:00AM]</p>
[BRIGHTNESS]	<p><b>1</b> Select a zone. (See the illustration on the left column.)</p> <p><b>2</b> [LVL00] to [LVL31]: Select your preferred brightness level for the selected zone.</p>
[TEXT SCROLL]	<p>[ONCE]: Scrolls the display information once. ; [AUTO]: Repeats scrolling at 5-second intervals. ; [OFF]: Cancels.</p>
[CLOCK]	
[CLOCK DISPLAY]	<p>[ON]: The clock time is shown on the display even when the unit is turned off. ; [OFF]: Cancels.</p>

# Installation/Connection

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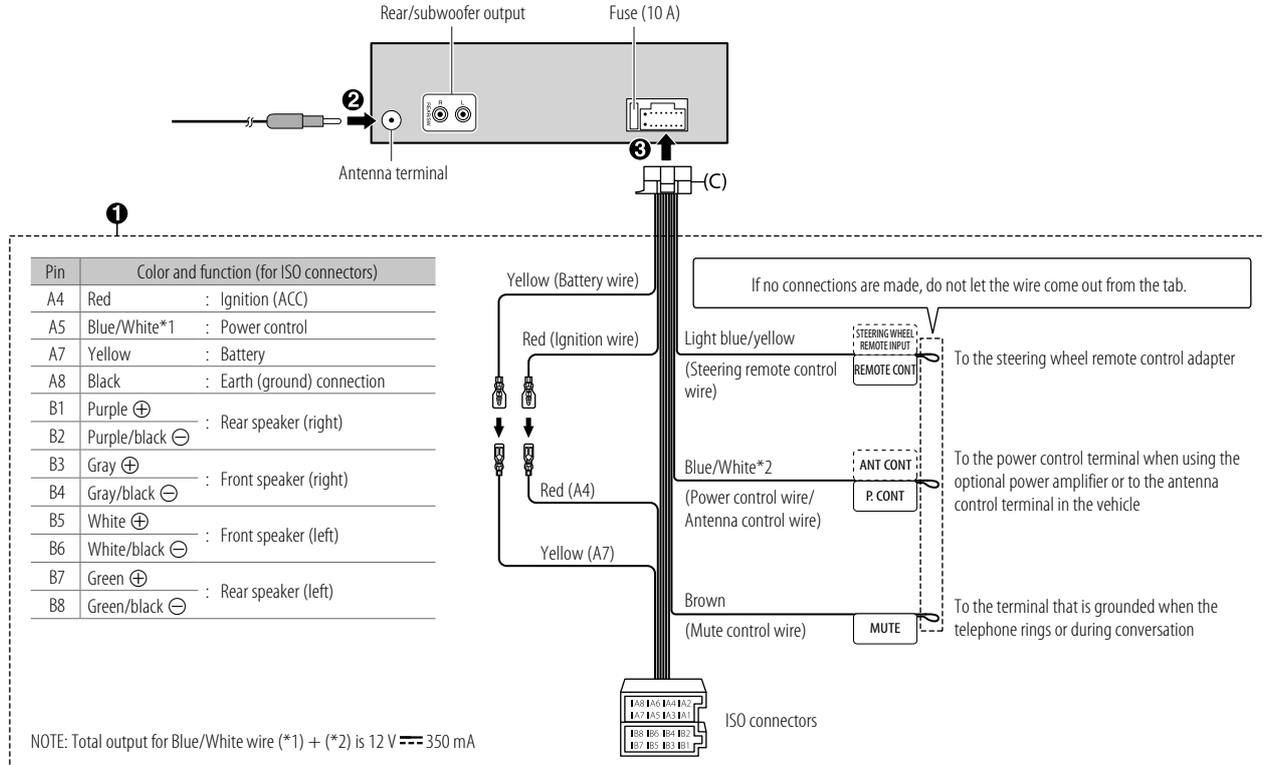
## Installing / Removing the unit

Insert the extraction keys deeply into the slots on each side, then follow the arrows as shown on the illustration.



# Installation/Connection

## Wiring connection



# References

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## More information

### General

- This unit can only play the following CDs:



### Playable files

- Playable audio file:
  - For disc: MP3 (.mp3), WMA (.wma)
  - For USB mass storage class device:
    - MP3 (.mp3), WMA (.wma), WAV (.wav), FLAC (.flac)
- Playable disc media: CD-R/CD-RW/CD-ROM
- Playable disc file format: ISO 9660 Level 1/2, Joliet, Long file name
  
- Playable USB device file system: FAT12, FAT16, FAT32
  - Even when audio files comply with the standards listed above, playback may be impossible depending on the types or conditions of media or devices.

### Unplayable discs

- Discs that are not round.
- Discs with coloring on the recording surface or discs that are dirty.
- Recordable/ReWritable discs that have not been finalized.
- 8 cm CD. Attempting to insert using an adapter may cause malfunction.

### About USB devices

- You cannot connect a USB device via a USB hub.
- Connecting a cable whose total length is longer than 5 m may result in abnormal playback.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 1.0 A.

### About iPod/iPhone

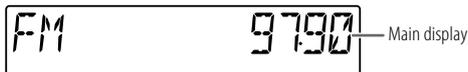
- Made for
  - iPod touch (2nd, 3rd, 4th, 5th, and 6th generation)
  - iPod classic
  - iPod nano (3rd, 4th, 5th, 6th, and 7th generation)
  - iPhone 3G, 3GS, 4, 4S, 5, 5S, 5C, 6, 6 Plus, 6S, 6S Plus, SE
- It is not possible to browse video files on the “Videos” menu in **[MODE OFF]**.
- The song order displayed on the selection menu of this unit may differ from that of the iPod/iPhone.
- You cannot operate iPod if or “” is displayed on iPod.
- Depending on the version of the operating system of the iPod/iPhone, some functions may not operate on this unit.

## References

### Change the display information

Each time you press DISP, the display information changes.

- If the information is unavailable or not recorded, "NO TEXT", "NO INFO", or other information (eg. station name) appears or display will be blank.



Source name	Display information: Main display
STANDBY	Source name → Clock → back to the beginning
TUNER	Frequency → Clock → back to the beginning
CD or USB	For CD-DA: Disc title/Artist → Track title/Artist → Playing time → Clock → back to the beginning  For MP3/WMA/WAV/FLAC files: Song title/Artist → Album title/Artist → Folder name → File name → Playing time → Clock → back to the beginning
iPod	When [MODE OFF]/[BROWSE MODE] is selected. (Page 9) Song title/Artist → Album title/Artist → Playing time → Clock → back to the beginning
AUX	Source name → Clock → back to the beginning

## Troubleshooting

	Symptom	Remedy
General	Sound cannot be heard.	<ul style="list-style-type: none"> <li>• Adjust the volume to the optimum level.</li> <li>• Check the cords and connections.</li> </ul>
	"MISWIRING CHECK WIRING THEN PWR ON" appears.	Turn the power off, then check to be sure the terminals of the speaker wires are insulated properly. Turn the power on again.
	"PROTECTING SEND SERVICE" appears.	Send the unit to the nearest service center.
	Source cannot be selected.	Check the [SOURCE SELECT] setting. (Page 6)
	<ul style="list-style-type: none"> <li>• Sound cannot be heard.</li> <li>• The unit does not turn on.</li> <li>• Information shown on the display is incorrect.</li> </ul>	Clean the connectors.
Radio	The unit does not work at all.	Reset the unit. (Page 4)
	Correct characters are not displayed.	<ul style="list-style-type: none"> <li>• This unit can only display uppercase letters, numbers, and a limited number of symbols.</li> <li>• Depending on the display language you have selected (page 6), some characters may not be displayed correctly.</li> </ul>
	<ul style="list-style-type: none"> <li>• Radio reception is poor.</li> <li>• Static noise while listening to the radio.</li> </ul>	Connect the antenna firmly.
CD/USB/iPod	Disc cannot be ejected.	Press and hold ▲ to forcibly eject the disc. Be careful not to drop the disc when it is ejected. If this does not solve the problem, reset the unit (page 4).
	Noise is generated.	Skip to another track or change the disc.
	"PLEASE EJECT" appears.	Reset the unit (page 4). If this does not solve the problem, consult your nearest service center.

## Troubleshooting

	Symptom	Remedy
CD/USB/iPod	Playback order is not as intended.	The playback order is determined by the order in which files were recorded (disc) or the file name (USB).
	Elapsed playing time is not correct.	This depends on the recording process earlier (disc/USB).
	"READING" keeps flashing.	<ul style="list-style-type: none"> <li>Do not use too many hierarchical levels and folders.</li> <li>Reload the disc or reattach the device (USB).</li> </ul>
	"NO DISC"	Insert a playable disc into the loading slot.
	"TOC ERROR"	Make sure the disc is clean and inserted properly.
	"NA FILE"	Make sure the media (disc/USB) contain supported audio files. (Page 16)
	"COPY PRO"	A copy-protected file is played.
	"NO DEVICE"	Connect a device (USB), and change the source to USB again.
	"NO MUSIC"	Connect a device (USB) that contains playable audio files.
	"READ ERROR"	Copy the files and folders onto the USB device again. If this does not solve the problem, reset the USB device or use another USB device.
	"NA DEVICE"	Connect a supported USB device, and check the connections.
"iPod ERROR"	<ul style="list-style-type: none"> <li>Reconnect the iPod.</li> <li>Reset the iPod.</li> </ul>	

### Muting upon the reception of a phone call

Connect the MUTE wire to your telephone using a commercial telephone accessory. (Page 15)

- When a call comes in, "CALL" appears. (The audio system pauses.)
  - To continue listening to the audio system during a call, press **SRC**. "CALL" disappears and the audio system resumes.
- When the call ends, "CALL" disappears. (The audio system resumes.)

# Specifications

Tuner	FM	Frequency Range	87.9 MHz — 107.9 MHz (200 kHz space)
		Usable Sensitivity (S/N = 26 dB)	8.2 dBf (0.71 $\mu$ V/75 $\Omega$ )
		Quieting Sensitivity (DIN S/N = 46 dB)	17.2 dBf (2.0 $\mu$ V/75 $\Omega$ )
		Frequency Response ( $\pm 3$ dB)	30 Hz — 15 kHz
		Signal-to-Noise Ratio (MONO)	64 dB
		Stereo Separation (1 kHz)	40 dB
AM	Frequency Range	530 kHz — 1 700 kHz (10 kHz space)	
	Usable Sensitivity (S/N = 20 dB)	29 dB $\mu$ (28.2 $\mu$ V)	
CD player	Laser Diode	GaAlAs	
	Digital Filter (D/A)	8 times over sampling	
	Spindle Speed	500 rpm — 200 rpm (CLV)	
	Wow & Flutter	Below measurable limit	
	Frequency Response ( $\pm 1$ dB)	20 Hz — 20 kHz	
	Total Harmonic Distortion (1 kHz)	0.01 %	
	Signal-to-Noise Ratio (1 kHz)	105 dB	
	Dynamic Range	90 dB	
	Channel Separation	85 dB	
	MP3 Decode	Compliant with MPEG-1/2 Audio Layer-3	
WMA Decode	Compliant with Windows Media Audio		
Auxiliary	Frequency Response ( $\pm 3$ dB)	20 Hz — 20 kHz	
	Input Maximum Voltage	1 000 mV	
	Input Impedance	30 k $\Omega$	

USB	USB Standard	USB 1.1, USB 2.0 (Full speed)		
	File System	FAT12/16/32		
	Maximum Supply Current	DC 5 V $\leq$ 1.0 A		
	MP3 Decode	Compliant with MPEG-1/2 Audio Layer-3		
	WMA Decode	Compliant with Windows Media Audio		
	FLAC Decode	FLAC file (Up to 48 kHz/16 bit)		
Audio	Maximum Output Power	50 W $\times$ 4		
	Full Bandwidth Power	22 W $\times$ 4 (at less than 1 % THD)		
	Speaker Impedance	4 $\Omega$ — 8 $\Omega$		
	Tone Action	Bass	100 Hz $\pm 8$ dB	
		Middle	1.0 kHz $\pm 8$ dB	
		Treble	12.5 kHz $\pm 8$ dB	
Preout Level/Load	2 500 mV/10 k $\Omega$			
Preout Impedance	$\leq$ 600 $\Omega$			
General	Operating Voltage	12 V DC battery		
	Installation Size (W $\times$ H $\times$ D)	182 mm $\times$ 53 mm $\times$ 158 mm (7-3/16" $\times$ 2-1/16" $\times$ 6-1/4")		
	Net Weight (includes Trimplate, Mounting Sleeve)	1.3 kg (2.9 lbs)		

Subject to change without notice.

**Información acerca de la eliminación de equipos eléctricos y electrónicos al final de la vida útil (aplicable a los países que hayan adoptado sistemas independientes de recogida de residuos)**



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Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Declaration of Conformity**

Pana-Pacific, Inc.  
838 N. Laverne Avenue  
Fresno, CA 93727  
Phone: (800) 726-2636

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