# **ProAudio**

## PP107234 and PP107236

CD-RECEIVER

**INSTRUCTION MANUAL** 

AUTORADIO CD

MODE D'EMPLOI

RECEPTOR CD

**MANUAL DE INSTRUCCIONES** 

## **Contents**

Before Use	3
Basics	4
Getting Started	5
1 Set the clock and date	
2 Set the other optional settings	
Radio	6
CD/USB/iPod	7
Spotify 1	10
AUX1	11
Bluetooth® 1	12
Bluetooth – Connection	
Bluetooth – Mobile phone	
Bluetooth – Audio	
Audio Settings	18
Display Settings	20

nstallation/Connection	21
eferences	23
More information Change the display information	
roubleshooting	25
pecifications	27

## **Before Use**

#### **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.
- Please keep the manual in a safe and accessible place for future reference.

#### **A** WARNING

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

#### **A** CAUTION

#### Volume setting:

- Adjust the volume so that you can hear sounds outside the car 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.
- If a disc error occurs due to condensation on the laser lens, eject the disc and wait for the moisture to evaporate.

#### How to read this manual

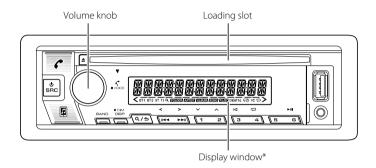
- The displays shown in this manual are examples used to provide clear explanations of the operations. For this reason, they may be different from the actual displays.
- Operations are explained mainly using buttons on the faceplate.
- English indications are used for the purpose of explanation. You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

## **Basics**

## Faceplate

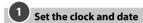


\* Only for illustration purpose.

То	On the faceplate	
Turn on the power	Press <b>O</b> SRC. • Press and hold to turn off the power.	
Adjust the volume	Turn the volume knob.	
Select a source	<ul> <li>Press ΦSRC repeatedly.</li> <li>Press ΦSRC, then turn the volume knob within 2 seconds.</li> </ul>	
Change the display information	Press DISP repeatedly. (Page 24)	

## **Getting Started**





- 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" → "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" → "Month" → "Year" or "Month" → "Day"
  → "Year"
- 11 Press and hold Q/⇒ to exit.

To return to the previous setting item, press  $Q/\Delta$ .

## 2 <sub>Se</sub>

## Set the other optional settings

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

- 1 Press USRC 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 Q/⇒ to exit.

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

Default: [XX]

[AUDIO CONTROL]	
[SWITCH PREOUT]	<b>[REAR]/(SUB-W]</b> : Selects whether rear speakers or a subwoofer are connected to the line out terminals on the rear (through an external amplifier). (Page 25)
[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.

## **Getting Started**

[SOURCE SELECT]	
[SPOTIFY SRC]	[ON]: Enables SPOTIFY/SPOTIFY BT in source selection.; [OFF]: Disables. (Page 10)
[BT AUDIO SRC]	[ON]: Enables BT AUDIO in source selection.; [OFF]: Disables. (Page 17)
[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.
[FACTORY RESET]	[YES]: Resets the settings to default (except the stored station).; [NO]: Cancels.
[ENGLISH]	Select the display language for [FUNCTION] menu and music
[ESPANOL]	information if applicable.
[FRANCAIS]	By default, [ENGLISH] is selected.

## **Radio**



- "ST" indicator lights up when receiving an FM stereo broadcast with sufficient signal strength.
- The unit switches to FM alarm automatically when receiving an alarm signal from FM broadcast.

#### Search for a station

- 1 Press USRC repeatedly to select RADIO.
- 2 Press BAND repeatedly to select FM1/FM2/FM3/AM.
- **3** Press | **◄ ◄ / ▶ ►** I to 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).

## Other settings

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select an item (page 7), then press the knob.
- **3** Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.
- 4 Press and hold Q/⇒ to exit.

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

### Radio

	Default: [XX]
[TUNER SETTING]	
[SEEK MODE]	Selects the searching method for I→→ / ▶→I buttons when pressed. [AUTO1]: Automatically search for a station.; [AUTO2]: Search for a preset station.; [MANUAL]: Manually search for a station.
[AUTO MEMORY]	[YES]: Automatically starts memorizing 6 stations with good reception.; [NO]: Cancels.  Selectable only if [NORMAL] is selected for [PRESET TYPE]. (Page 5)
[MONO SET]	[ON]: Improves the FM reception, but the stereo effect will be lost.; [OFF]: Cancels.
[TI]	<b>[ON]</b> : Allows the unit to temporarily switch to Traffic Information if available ("TI" indicator lights up). ; <b>[OFF]</b> : Cancels.
[PTY SEARCH]	Select the available Program Type (see the following), then press I◀◀ / ▶►I to start.
[CLOCK]	
[TIME SYNC]	[ON]: Synchronizes the unit's time to the Radio Broadcast Data System station time.; [OFF]: Cancels.

- [MONO SET]/[TI]/[PTY SEARCH] is selectable only when the band is FM1/FM2/FM3.
- If the volume is adjusted during reception of traffic information or news bulletin, the adjusted volume is memorized automatically. It will be applied the next time traffic information or news bulletin is turned on.
- Program Type: [SPEECH]:

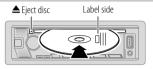
[NEWS], [INFORM] (information), [SPORTS], [TALK], [LANGUAGE], [REL TALK] (religious talk), [PERSNLTY] (personality), [PUBLIC], [COLLEGE], [HABL ESP] (spanish talk), [WEATHER]

#### [MUSIC]:

[ROCK], [CLS ROCK] (classic rock), [ADLT HIT] (adult hits), [SOFT RCK] (softrock), [TOP 40], [COUNTRY], [OLDIES], [SOFT], [NOSTALGA] (nostalgia), [JAZZ], [CLASSICL] (classical), [R & B] (rhythm and blues), [SOFT R&B] (soft rhythm and blues), [REL MUSC] (religious music), [MUSC ESP] (spanish music), [HIP HOP]

## CD/USB/iPod

### Insert a disc



The source changes to CD automatically and playback starts.

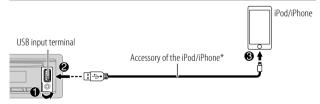
### **Connect a USB device**



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 USB automatically and playback starts.

- You can also connect iPod/iPhone via Bluetooth. (Page 12)
- \* Do not leave the cable inside the vehicle when not in use.

### CD/USB/iPod



For playable audio file, see "Playable files" on page 23.

Ta	On the foresulate
То	On the faceplate
Play back/pause	Press 6 ► II.
Reverse/Fast-forward	Press and hold I◀◀ / ▶▶I.
Select a track/file	Press I◀◀ / ▶▶I.
Select a folder*1	Press 2∧/1∨.
Repeat play*2	Press 4 ← repeatedly.
	[TRACK REPEAT]/[ALL REPEAT]: Audio CD [FILE REPEAT]/[FOLDER REPEAT]/[ALL REPEAT]: MP3/ WMA/AAC/WAV/FLAC file [REPEAT ONE]/[REPEAT ALL]/[REPEAT OFF]: iPod
Random play*2	Press 3 ≠ repeatedly.
	[DISC RANDOM]/[RANDOM OFF]: Audio CD [FOLDER RANDOM]/[RANDOM OFF]: MP3/WMA/AAC/ WAV/FLAC file [Shuffle on]/[Shuffle off]: iPod
	Press and hold 3 ≠ to select [ALL RANDOM].*1

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

#### Select music drive

While in USB source, press 5 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 4]) 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  $\mathbb{Q}/\mathbb{Z}$ .

#### Select control mode

While in iPod USB source (or iPod BT source), press 5 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.

<sup>\*2</sup> For iPod: Applicable only when [MODE OFF] is selected.

### CD/USB/iPod

## Select a file to play

#### From a folder or list

- For iPod, applicable only when [MODE OFF] is selected. (Page 8)
- 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.

## Skip search (applicable only for iPod USB source and iPod BT 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] is selected. (Page 8)

- Press Q /★.
- 2 Turn the volume knob to select a list, then press the knob.
- 3 Press | ◀ ✓ / ▶ ► I to search at a preset skip search ratio.
  - Pressing and holding I◀◀ / ▶▶I searches at a 10% ratio irregardless of the [SKIP SEARCH] settings.
- 4 Turn the volume knob to select a file, then press the knob. Selected file starts playing.

#### [SKIP SEARCH] setting

- 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 USB source and iPod BT source)

You can search for a file according to the first character.

- For iPod, applicable only when [MODE OFF] is selected. (Page 8)
- 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 7 0 to 9
- **5** Press | **◄ ◄ / ▶ ►** I 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.
- To return to the root folder/first file/top menu, press 5. (Not applicable for BT AUDIO source.)
- To return to the previous setting item, press Q/⇒.
- To cancel, press and hold Q/≤.

9

## **Spotify**

You can listen to Spotify on iPhone/iPod touch (via Bluetooth or via USB input terminal) or Android device (via Bluetooth).

#### Preparation:

- Install the latest version of the Spotify application on your device (iPhone/ iPod touch or Android device), then create an account and log in to Spotify.
- Select [ON] for [SPOTIFY SRC] in [SOURCE SELECT]. (Page 6)

### Start listening

- 1 Start up the Spotify application on your device.
- 2 Connect your device to the USB input terminal.



You can also connect the iPhone/iPod touch or Android device via Bluetooth. (Page 12)

- Make sure the USB input terminal is not connected to any device when you connect via Bluetooth.
- **3** Press OSRC repeatedly to select SPOTIFY (for iPhone/iPod touch) or SPOTIFY BT (for Android device).

Broadcast starts automatically.

То	On the faceplate
Play back/pause	Press 6 ► III.
Skip a track	Press I◀◀*1 / ▶▶I.
Select thumbs up or thumbs down*2	Press 2∧/1∨.
Start radio	Press and hold 5.
Repeat play*3	Press 4 <b> →</b> repeatedly.
	[REPEAT ALL], [REPEAT ONE]*1, [REPEAT OFF]
Random play*3	Press 3 ★ repeatedly*1. [SHUFFLE ON], [SHUFFLE OFF]

<sup>\*1</sup> Available for premium account users only.

## Save favorite song information

While listening to the Radio on Spotify...

#### Press and hold the volume knob.

"SAVED" appears and the information is stored to "Your Music" or "Your Library" on your Spotify account.

To unsave, repeat the same procedure.

"REMOVED" appears and the information is removed from "Your Music" or "Your Library" on your Spotify account.

<sup>\*</sup> Do not leave the cable inside the vehicle when not in use.

<sup>\*2</sup> This feature is available for tracks in Radio only. If thumbs down is selected, the current track is skipped.

<sup>\*3</sup> Available for tracks in Playlists only.

## **Spotify**

### Search for a song or station

- 1 Press Q/⇒.
- 2 Turn the volume knob to select a list type, then press the knob. The list types displayed differ depending on the information sent from Spotify.
- **3** Turn the volume knob to select the desired song or station.
- **4** Press the volume knob to confirm.

  You can browse through the list quickly by turning the volume knob quickly.

To cancel, press and hold  $\mathbb{Q}/\mathfrak{L}$ .

## **AUX**

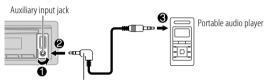
You can listen to music from a portable audio player via the auxiliary input jack.

#### Preparation:

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

## Start listening

1 Connect a portable audio player (commercially available).



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

- 2 Press OSRC 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 Q/⇒ to exit.

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

- Depending on the Bluetooth version, operating system and the firmware version of your mobile phone, Bluetooth features may not work with this unit.
- Be sure to turn on the Bluetooth function of the device to make the following operations.
- Signal conditions vary depending on the surroundings.

#### **Bluetooth** — Connection

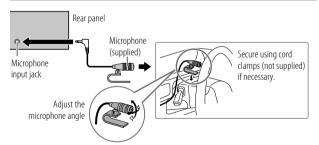
### **Supported Bluetooth profiles**

- Hands-Free Profile (HFP)
- Advanced Audio Distribution Profile (A2DP)
- Audio/Video Remote Control Profile (AVRCP)
- Serial Port Profile (SPP)
- Phonebook Access Profile (PBAP)

### **Supported Bluetooth codecs**

- Sub Band Codec (SBC)
- Advanced Audio Coding (AAC)

## Connect the microphone



#### Pair and connect a Bluetooth device for the first time

- 1 Press  $\bigcirc$  SRC to turn on the unit.
- 2 Search and select the name of your receiver ("PP-BT-RADIO") on the Bluetooth device.

"PAIRING"  $\rightarrow$  "PASS XXXXXX"  $\rightarrow$  "Device name"  $\rightarrow$  "PRESS"  $\rightarrow$  "VOLUME KNOB" appears on the display.

- For some Bluetooth devices, you may need to enter the Personal Identification Number (PIN) code immediately after searching.
- **3** Press the volume knob to start pairing.
  "PAIRING OK" appears when pairing is completed.

Once pairing is completed, Bluetooth connection is established automatically.

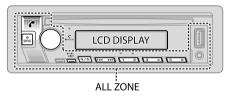
- "BT1" and/or "BT2" indicator on the display window lights up.
- This unit supports Secure Simple Pairing (SSP).
- Up to five devices can be registered (paired) in total.
- Once the pairing is completed, the Bluetooth device will remain registered in the unit even if you reset the unit. To delete the paired device, see [DEVICE DELETE] on page 16.
- A maximum of two Bluetooth phones and one Bluetooth audio device can be connected at any time. To connect or disconnect the registered device, see [PHONE SELECT] or [AUDIO SELECT] in [BT MODE]. (Page 16)
   However, while in BT AUDIO source, you can connect to five Bluetooth audio devices and switch between these five devices. (Page 17)
- Some Bluetooth devices may not automatically connect to the unit after pairing. Connect the device to the unit manually.
- Refer to the instruction manual of the Bluetooth device for more information.

## **Auto Pairing**

When you connect iPhone/iPod touch to the USB input terminal, pairing request (via Bluetooth) is automatically activated if [AUTO PAIRING] is set to [ON]. (Page 16)

Press the volume knob to pair once you have confirmed the device name.

## Bluetooth — Mobile phone



### Receive a call

When there is an incoming call:

 The unit answers the call automatically if [AUTO ANSWER] is set to a selected time. (Page 14)

## During a call:

• If you turn off the unit or detach the faceplate, Bluetooth is disconnected.

The following operations may differ or be unavailable depending on the connected phone.

On the faceplate
•
Press 🗸 or the volume knob or one of the number buttons (1 to 6).
Press <b>Q</b> / <b>≤</b> .
Press <b>Q</b> / <b>≤</b> .
Press C.
Press <b>Q</b> / <b>≤</b> .
Press <b>Q</b> / <b>≤</b> .
Press C.
Turn the volume knob during a call.
Press 6 ▶ ■ during a call.

<sup>\*1</sup> This adjustment will not affect the volume of the other sources.

 $<sup>^{*}2\,</sup>$  Operations may vary according to the connected Bluetooth device.

## Improve the voice quality

While talking on the phone...

- 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 Q/⇒ to exit.

To return to the previous setting item, press  $\mathbb{Q}/\mathbf{\Delta}$ .

Default: [XX]

[MIC GAIN]	$[-10]$ to $[+10]$ ( $\underline{[-4]}$ ): The sensitivity of the microphone increases as the number increases.
[NR LEVEL]	[LEVEL $-5$ ] to [LEVEL $+5$ ] ([LEVEL $0$ ]): Adjust the noise reduction level until the least noise is being heard during a phone conversation.
[ECHO CANCEL]	[LEVEL –5] to [LEVEL +5] ([LEVEL 0]): Adjust the echo cancellation delay time until the least echo is being heard during a phone conversation.

Call quality may depend on mobile phone.

## Make the setting for answering a call

- 1 Press ? to enter Bluetooth mode.
- 2 Turn the volume knob to select [SETTINGS], then press the knob.
- Turn the volume knob to select [AUTO ANSWER], then press the knob.
- 4 Turn the volume knob to select the time (in seconds) for the unit to answer the call automatically, then press the knob. [01] to [30], or select [0FF] to cancels. (Default: [0FF])
- 5 Press and hold Q / ⇒ to exit.

To return to the previous setting item, press  $\mathbb{Q}/\mathbf{m}$ .

#### Make a call

You can make a call from the call history, phonebook, or dialing the number. Call by voice is also possible if your mobile phone has the feature.

1 Press C to enter Bluetooth mode.

"(First device name)" appears.

• If two Bluetooth phones are connected, press ? again to switch to the other phone.

"(Second device name)" appears.

- 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 or follow the instructions stated on the selected item.
- 4 Press and hold Q / ⇒ to exit.

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

#### [CALL HISTORY]

(Applicable only if the phone supports PBAP.)

1 Press the volume knob to select a name or a phone number.

- "I" indicates call received, "O" indicates call made, "M" indicates call missed.
- Press DISP to change the display category (NUMBER or NAME).
- "NO DATA" appears if there is no recorded call history or call number.
- 2 Press the volume knob to call.

### (Applicable only if the phone supports PBAP.) [PHONE BOOK] 1 Turn the volume knob quickly to enter alphabet search mode (if the phonebook contains many contacts). The first menu (ABCDEFGHIJK) appears. To go to the other menu (LMNOPORSTUV or WXYZ1★), press 2 ∧ / 1V. To select the desired first letter, turn the volume knob or press I / ▶▶I. then press the knob. Select "1" to search with numbers and select "X" to search with symbols. 2 Turn the volume knob to select a name, then press the knob. **3** Turn the volume knob to select a phone number, then press the knob to call. For using phonebook with this unit, make sure to allow access to or transfer from your smartphone. Depending on the connected phone, the process may be different. · Contacts are categorized as: HM (home), OF (office), MO (mobile), OT (other), GE (general) This unit can display only non-accent letters. (Accent letters such as "Ú" are shown as "U".) **INUMBER DIAL!** 1 Turn the volume knob to select a number (0 to 9) or character ( $\star$ , #, +). 2 Press I ✓ ✓ / ► ► I to move the entry position. Repeat step 1 and step 2 until you finish entering the phone number. 3 Press the volume knob to call. Speak the name of the contact you want to call or the voice command to [VOICE] control the phone functions. (See also the following "Make a call using voice recognition".) [LOW]/[MID]/[FULL]: Shows the strength of the battery.\*

[NO SIGNAL]/[LOW]/[MID]/[MAX]: Shows the strength of the current received signal.\*

## Make a call using voice recognition

- 1 Press and hold to activate the voice recognition of the connected phone.
- 2 Speak the name of the contact you want to call or the voice command to control the phone functions.
- Supported Voice Recognition features vary for each phone. Refer to the instruction manual of the connected phone for details.

### Store a contact in memory

You can store up to 6 contacts into the number buttons (1 to 6).

- 1 Press C to enter Bluetooth mode.
- 2 Turn the volume knob to select [CALL HISTORY], [PHONE BOOK] or [NUMBER DIAL], then press the knob.
- 3 Turn the volume knob to select a contact or enter a phone number. If a contact is selected, press the volume knob to show the phone number.
- **4** Press and hold one of the number buttons (1 to 6). "STORED" appears when the contact is stored.

To erase a contact from the preset memory, select [NUMBER DIAL] in step 2, store a blank number in step 3 and proceed to step 4.

## Make a call to a registered number

- 1 Press C to enter Bluetooth mode.
- **2** Press one of the number buttons (1 to 6).
- 3 Press the volume knob to call.

"NO MEMORY" appears if there is no contact stored.

<sup>\*</sup> Functionality depends on the type of the phone used.

## **Bluetooth mode 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 or follow the instructions stated on the selected item.
- 4 Press and hold Q/⇒ to exit.

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

Default: [XX]

	Delault. [M]
[BT MODE]	
[PHONE SELECT]	Selects the phone or audio device to connect or disconnect. "*X" appears in front of the device name when connected.
[AUDIO SELECT]	<ul> <li>"&gt;" appears in front of the current playback audio device.</li> <li>You can connect a maximum of two Bluetooth phones and one Bluetooth audio device at a time.</li> </ul>
[DEVICE DELETE]	1 Turn the volume knob to select a device to delete, then press the knob. 2 Turn the volume knob to select [YES] or [NO], then press the knob.
[PIN CODE EDIT] (0000)	Changes the PIN code (up to 6 digits).  1 Turn the volume knob to select a number.  2 Press I◄◄ / ▶► I to move the entry position.  Repeat step 1 and step 2 until you finish entering the PIN code.  3 Press the volume knob to confirm.
[RECONNECT]	[ON]: The unit is automatically reconnect when the last connected Bluetooth device is within the connectable range.; [OFF]: Cancels.
[AUTO PAIRING]	[ON]: The unit is automatically paired with the supported Bluetooth device (iPhone/iPod touch) when it is connected through USB input terminal. Depending on the operating system of the connected device, this function may not work.; [OFF]: Cancels.

[INITIALIZE]	<b>[YES]</b> : Initializes all the Bluetooth settings (including stored pairing, phonebook, and etc.).; <b>[NO]</b> : Cancels.
--------------	--

#### Bluetooth test mode

You can check the connectivity of the supported profile between the Bluetooth device and the unit.

- Make sure there is no Bluetooth device paired.
- 1 Press and hold ...
  - "PLEASE PAIR YOUR PHONE PIN 0000" appears on the display.
- 2 Search and select the name of your receiver ("PP-BT-RADIO") on the Bluetooth device.
- **3** Operate the Bluetooth device to confirm pairing. "TESTING" flashes on the display.

### The connectivity result (OK or NG) appears after the test.

PAIRING: Pairing status

HF CNT: Hands-Free Profile (HFP) compatibility

AUD CNT: Advanced Audio Distribution Profile (A2DP) compatibility

PB DL: Phonebook Access profile (PBAP) compatibility

To cancel test mode, press and hold  $\ensuremath{\mathfrak{O}}$  SRC to turn off the unit.

#### Bluetooth — Audio

- Operations and display indications may differ according to their availability on the connected device.
- Depending on the connected device, some features may not work with your device.



While in BT AUDIO source, you can connect to five Bluetooth audio devices and switch between these five devices.

## Listen to the audio player via Bluetooth

- 1 Press O SRC repeatedly to select BT AUDIO.
  - Pressing 🗓 enters BT AUDIO directly.
- 2 Operate the audio player via Bluetooth to start playback.

То	On the faceplate
Play back/pause	Press 6 ► II.
Select group or folder	Press 2∧/1∨.
Reverse skip/Forward skip	Press I◀◀ / ▶►I.
Reverse/Fast-forward	Press and hold I◀◀ / ▶▶I.
Repeat play	Press 4 <b> →</b> repeatedly.
	[ALL REPEAT], [FILE REPEAT], [GROUP REPEAT], [REPEAT OFF]

То	On the faceplate
Random play	Press and hold 3 ≠ to select [ALL RANDOM] or [GROUP RANDOM].
	• Press 3 ➤ to select [RANDOM OFF].
Select a file from a folder/list	Refer to "Select a file to play" on page 9.
Switch between connected Bluetooth audio devices	Press 5. (Pressing the "Play" key on the connected device itself also causes switching of sound output from the device.)

### Listen to iPod/iPhone via Bluetooth

You can listen to the songs on the iPod/iPhone via Bluetooth on this unit.

### Press USRC repeatedly to select iPod BT.

- You can operate the iPod/iPhone in the same way as iPod/iPhone via USB input terminal. (Page 7)
- If you plug in an iPod/iPhone to the USB input terminal while listening to iPod BT source, the source automatically changes to iPod USB source. Press **O**SRC to select iPod BT source if the device is still connected via Bluetooth.

## **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 Q/ → to exit.

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

Default: [XX]

[AUDIO CONTRO	[AUDIO CONTROL]		
[SUB-W LEVEL]	[LEVEL -50] to [LEVEL +10] ([LEVEL 0]): Adjusts the subwoofer output level.		
[EASY EQ]	Adjusts your own sound settings.  • The settings are stored to [USER] in [PRESET EQ].  • The settings made may affect the current settings of [MAN [SW]: [LEVEL –50] to [LEVEL +10] (Default: [BASS]: [LEVEL –9] to [LEVEL +9] [MID]: [LEVEL –9] to [LEVEL +9] [TRE]: [LEVEL –9] to [LEVEL +9]	IUAL EQ]. [LEVEL 0] [LEVEL 0] [LEVEL 0] [LEVEL 0])	

[MANUAL EQ]	Adjusts your own sound settings for each source.  • The settings are stored to [USER] in [PRESET EQ].  • The settings made may affect the current settings of [EASY EQ].		
[62.5HZ]	[LEVEL]	[LEVEL -9] to [LEVEL +9] ([LEVEL 0]): Adjusts the level to memorize for each source. (Before making an adjustment, select the source you want to adjust.)	
_	[BASS EXTEND]	[ON]: Turns on the extended bass. ; [OFF]: Cancels.	
[100HZ]/[160HZ]/ [250HZ]/[400HZ]/ [630HZ]/[1KHZ]/ [1.6KHZ]/[2.5KHZ]/ [4KHZ]/[6.3KHZ]/ [10KHZ]/[16KHZ]	[LEVEL -9] to [LEVEL +9] ([LEVEL 0]): Adjusts the level to memorize for each source. (Before making an adjustment, select the source you want to adjust.)		
[Q FACTOR]	[1.35]/[1.50]/[2.00]: Adjusts the quality factor.		
[PRESET EQ]	[USER]: Selects a	[K]/[POPS]/[EASY]/[TOP40]/[JAZZ]/[POWERFUL]/ preset equalizer suitable to the music genre. use the settings made in [EASY EQ] or	
[BASS BOOST]	[LV1] to [LV5]: Se	elects your preferred bass boost level. ; [OFF]: Cancels.	
[LOUDNESS]		cts your preferred low or high frequencies boost to lanced sound at low volume. ; [OFF]: Cancels.	
[SUBWOOFER SET]	[ON]: Turns on the subwoofer output.; [OFF]: Cancels.		
[FADER]	[R15] to [F15] ([0]): Adjusts the front and rear speaker output balance.		
[BALANCE]	[L15] to [R15] ( <u>[</u> 0	<u>]</u> ): Adjusts the left and right speaker output balance.	
[VOLUME OFFSET]	comparing to the	]]): Presets the initial volume level of each source by FM volume level. It, select the source you want to adjust.)	

## **Audio Settings**

SOUND EFFECT]			
[SOUND RECNSTR] (Sound reconstruction)	(Not applicable for RADIO source and AUX source.)  [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.		
[SPACE ENHANCE]	(Not applicable for RADIO source.) [SML]/[MED]/[LRG]: Virtually enhances the sound space.; [0FF]: Cancels.		
[SND REALIZER]	[LV1]/[LV2]/[LV3]: Virtually makes the sound more realistic.; [DFF]: Cancels.  [LOW]/[MID]/[HI]: Virtually adjusts the sound position heard from the speakers; [DFF]: Cancels.		
[STAGE EQ]			
[DRIVE EQ]	[ON]: Boosts the frequency to reduce the noise heard from outside the car or running noise of the tyres.; [OFF]: Cancels.		
SPEAKER SIZE]	The frequency of the selected	and slope settings are automatically set for the crossover speaker.	
[FRONT]	[SIZE]	[3.5"]/[4"]/[4.75"]/[5"]/[6.5"]/[6.75"]/[7"]/[4×6], [5×7]/[6×8]/[6×9]/[7×10]: Selects according to the connected speaker size for optimum performance.	
-	[TWEETER]	[SMALL]/[MIDDLE]/[LARGE]: Selects according to the size range of the connected tweeter for optimum performance. ; [NONE]: Not connected.	
[REAR]	$[6 \times 9]/[7 \times 10]$	1.75"]/[5"]/[6.5"]/[6.75"]/[7"]/[4×6]/[5×7]/[6×8]/ 1]: Selects according to the connected speaker size for ormance. ; [NONE]: Not connected.	
[SUBWOOFER] [6.5"]/[8"]/[12"]/[12"]/[15" OVER]: Selects according to connected speaker size for optimum performance. ; [NONE connected.			

X ' OVER]		
[TWEETER]	[FRQ]	[1KHZ]/[1.6KHZ]/[2.5KHZ]/[4KHZ]/[5KHZ]/ [6.3KHZ]/[8KHZ]/[10KHZ]/[12.5KHZ]: Adjusts the crossover frequency for the tweeter speaker.
-	[GAIN LEFT]	[—8] to [0]: Adjusts the output volume of the left tweeter.
-	[GAIN RIGHT]	[—8] to [0]: Adjusts the output volume of the right tweeter.
[FRONT HPF]	[F-HPF FRQ]	[30HZ]/[40HZ]/[50HZ]/[60HZ]/[70HZ]/[80HZ]/ [90HZ]/[100HZ]/[120HZ]/[150HZ]/[180HZ]/ [220HZ]/[250HZ]: Adjusts the crossover frequency for the selected speakers (high pass filter).; [THROUGH]: All signals are sent to the selected speakers.
-	[F-HPF SLOPE]	[-6DB]/[-12DB]/[-18DB]/[-24DB]: Adjusts the crossover slope. (Selectable only if a setting other than [THROUGH] is selected for [F - HPF FRQ].)
-	[F-HPF GAIN]	[—8] to [0]: Adjusts the output volume of the selected speaker.
[REAR HPF]	[R-HPF FRQ]	
-	[R-HPF SLOPE]	Configure the settings for the rear speakers similarly to the front speakers.
	[R-HPF GAIN]	to the none speakers.
[SUBWOOFER LPF]	[SW LPF FRQ]	[30HZ]/[40HZ]/[50HZ]/[60HZ]/[70HZ]/[80HZ]/ [90HZ]/[100HZ]/[120HZ]/[150HZ]/[180HZ]/ [220HZ]/[250HZ]: Adjusts the crossover frequency for the subwoofer (low pass filter). ; [THROUGH]: All signals are sent to the subwoofer.

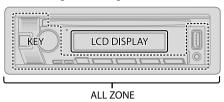
## **Audio Settings**

	[SW LPF SLOPE]	[-6DB]/[-12DB]/[-18DB]/[-24DB]: Adjusts the crossover slope. (Selectable only if a setting other than [THROUGH] is selected for [SW LPF FRQ].)
	[SW LPF PHASE]	[REVERSE] (180°)/[NORMAL] (0°): Selects the phase of the subwoofer output to be in line with the speaker output for optimum performance.
	[SW LPF GAIN]	[—8] to [0]: Adjusts the output volume of the subwoofer.
[DTA SETTINGS]	F	he following "Digital Time Alignment settings".
[CAR SETTINGS]	- For settings, see ti	

- The following item is selectable only if [SWITCH PREOUT] is set to [SUB-W] (page 5):
  - [SUB-W LEVEL]
  - [SUBWOOFER SET]
  - [SW LEVEL] of [EASY EO]
  - [SUBWOOFER] of [SPEAKER SIZE]
  - [SUBWOOFER LPF] of [X 'OVER]
- [SUBWOOFER] of [DISTANCE] and [GAIN] in [DTA SETTINGS]
- The following item is selectable only if [SUBWOOFER SET] is set to [ON] (page 18):
  - [SUB-W LEVEL]
  - [SW LEVEL] of [EASY EQ]
- [SUBWOOFER] of [SPEAKER SIZE]
- [SUBWOOFER LPF] of [X 'OVER]
- [SUBWOOFER] of [DISTANCE] and [GAIN] in [DTA SETTINGS]
- The following item is selectable only if a setting other than [NONE] is selected for [TWEETER], [REAR] and [SUBWOOFER] of [SPEAKER SIZE]:
- [TWEETER], [REAR HPF], [SUBWOOFER LPF] of [X 'OVER]

## **Display Settings**

Zone identification for brightness setting



### Set the dimmer

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

 Once you press and hold this button, [DIMMER] setting (page 21) will be overwritten.

## Change the display settings

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select an item (page 21), then press the knob.
- **3** Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.
- 4 Press and hold Q/→ to exit.

To return to the previous setting item, press  $\mathbb{Q}/\mathbf{\Delta}$ .

## **Display Settings**

[DISPLAY]	
[DIMMER]	Dims the illumination.  [ON]: Dimmer is turned on.  [OFF]: Dimmer is turned off.  [DIMMER TIME]: Set the time to turn on dimmer and to turn off dimmer.  1 Turn the volume knob to adjust the [ON] time, then press the knob.  2 Turn the volume knob to adjust the [OFF] time, then press the knob.  Default: [ON]: [6:00PM]; [0FF]: [6:00AM]
[BRIGHTNESS]	Sets the brightness for day and night separately.  1 [DAY]/[NIGHT]: Select day or night.  2 Select a zone. (See the illustration on page 20.)  3 [LVL00] to [LVL31]: Set the brightness level.
[TEXT SCROLL]	[ONCE]: Scrolls the display information once.; [AUTO]: Repeats scrolling at 5-second intervals.; [OFF]: Cancels.
[CLOCK]	
[CLOCK DISPLAY]	[ON]: The clock time is shown on the display even when the unit is turned off.; [OFF]: Cancels.

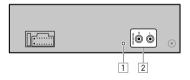
## Installation/Connection

## Removing the unit

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



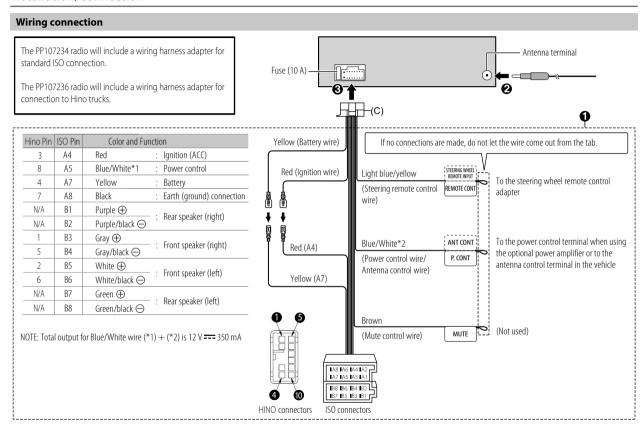
## **Connect external components**



### No Part

- 1 Microphone input jack (Page 12)
- 2 Output terminals REAR/SW: Rear/subwoofer output
  - When connecting an external amplifier to the output terminals of this unit, securely
    connect the amplifier ground wire to the car chassis to prevent damage to the unit.

## Installation/Connection



## References

#### More information

#### General

• This unit can only play the following CDs:



#### Playable files

· Playable audio file:

For disc: MP3 (.mp3), WMA (.wma), AAC (.aac)

For USB mass storage class device:

MP3 (.mp3), WMA (.wma), AAC (.aac), AAC (.m4a), 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.

The AAC (.m4a) file in a CD encoded by iTunes cannot be played on this unit.

### **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 1.5 A.

#### About iPod/iPhone

- Made for
- iPod touch (6th generation)
- iPhone 5S, 6, 6 Plus, 6S, 6S Plus, SE, 7, 7 Plus, 8, 8 Plus, X, XS, XS MAX, XR (iOS 12.1 or later)
- 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 "✓" is displayed on iPod.
- Depending on the version of the operating system of the iPod/iPhone, some functions may not operate on this unit.

#### About Spotify

unavailable.

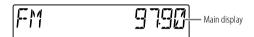
- Spotify application supports:
- iPhone 5S, 6, 6 Plus, 6S, 6S Plus, SE, 7, 7 Plus, 8, 8 Plus, X, XS, XS MAX, XR (iOS 12.1 or later)
- iPod touch (6th generation)
- Android OS 4.0.3 or above
   Spotify is a third party service, therefore the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired or some or all of the services may become
- Some functions of Spotify cannot be operated from this unit.
- For issues using the application, please contact Spotify at <www.spotify.com>.

## 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 → Clock → back to the beginning
RADIO	Source name/Clock → Frequency → Clock → back to the beginning
	For FM Radio Broadcast Data System only: Source name/Clock → Station name/Program type → Radio text → Radio text+ → Radio text+ song title/Radio text+ artist → Frequency → Clock → back to the beginning
CD or USB	For CD-DA: Source name/Clock → Disc title/Artist → Track title/Artist → Playing time → Clock → back to the beginning
	For MP3/WMA/AAC/WAV/FLAC files: Source name/Clock → Song title/Artist → Album title/Artist → Folder name → File name → Playing time → Clock → back to the beginning
iPod USB/iPod BT	When [MODE OFF] is selected (page 8):  Source name/Clock → Song title/Artist → Album title/Artist → Playing time  → Clock → back to the beginning
SPOTIFY/ SPOTIFY BT	Source name/Clock $\rightarrow$ Context title $\rightarrow$ Song title $\rightarrow$ Artist $\rightarrow$ Album title $\rightarrow$ Playing time $\rightarrow$ Clock $\rightarrow$ back to the beginning
BT AUDIO	Source name/Clock → Song title/Artist → Album title/Artist → Playing time → Clock → back to the beginning
AUX	Source name/Clock → Clock → back to the beginning

## Troubleshooting

Sym	ıptom	Remedy
	Sound cannot be heard.	<ul><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)
General	Sound cannot be heard.     The unit does not turn on.     Information shown on the display is incorrect.	Clean the connectors.
	The unit does not work at all.	Reset the unit. (Page 4)
	Correct characters are not displayed.	This unit can only display uppercase letters, numbers, and a limited number of symbols.  Depending on the display language you have selected (page 6), some characters may not be displayed correctly.
Radio	Radio reception is poor.     Static noise while listening to the radio.	Connect the antenna firmly.
/iPod	Disc cannot be ejected.	Press and hold <b>\( \Delta\)</b> 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).
CD/USB/iPod	Noise is generated.	Skip to another track or change the disc.
9	"PLEASE EJECT" appears.	Reset the unit (page 4). If this does not solve the problem, consult your nearest service center.

Cum	Symptom Remedy		
		•	
	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.	Do not use too many hierarchical levels and folders. Reload the disc or reattach the device (USB/iPod/iPhone).	
	"UNSUPPORTED DEVICE" appears.	Check whether the connected USB device is compatible with this unit and ensure the file systems are in supported formats. (Page 23)     Reattach the USB device.	
рс	"UNRESPONSIVE DEVICE" appears.	Make sure the USB device is not malfunction and reattach the USB device.	
CD/USB/iPod	"USB HUB IS NOT SUPPORTED" appears.	This unit cannot support a USB device connected via a USB hub.	
(0)	The source does not change to "USB" when you connect a USB device while listening to another source. "USB ERROR" appears.	The USB port is drawing more power than the design limit. Turn the power off and unplug the USB device. Then, turn on the power and reattach the USB device. If this does not solve the problem, turn the power off and on (or reset the unit) before replacing with another USB device.	
	The iPod/iPhone does not turn on or does not work.	<ul> <li>Check the connection between this unit and iPod/iPhone.</li> <li>Disconnect and reset the iPod/iPhone using hard reset.</li> </ul>	
	"LOADING" appears when you enter search mode by pressing <b>Q</b> / <b>=</b> .	This unit is still preparing the iPod/iPhone music list. It may take some time to load, try again later.	
	"NO DISC"	Insert a playable disc into the loading slot.	
	"TOC ERROR"	Make sure the disc is clean and inserted properly.	

## Troubleshooting

Symptom		Remedy
	"NA FILE"	Make sure the media (disc/USB) contain supported audio files. (Page 23)
	"COPY PRO"	A copy-protected file is played (disc/USB).
Pod	"NO DEVICE"	Connect a device (USB/iPod/iPhone), and change the source to USB or iPod USB again.
CD/USB/iPod	"NO MUSIC"	Connect a device (USB/iPod/iPhone) that contains playable audio files.
	"iPod ERROR"	Reconnect the iPod.     Reset the iPod.
	"MEMORY FULL"	You have reached the maximum storage limit of your iPod/iPhone.
	"DISCONNECTED"	USB is disconnected from the head unit. Please make sure the device is connected properly through USB.
Spotify	"CONNECTING"	Connected via USB input terminal: The device is connecting to the head unit. Please wait.  Connected via Bluetooth: The Bluetooth is disconnected. Please check Bluetooth connection and make sure both the device and unit are paired and connected.
	"CHECK APP"	The Spotify application is not connected properly or user is not login. End the Spotify application and restart. Then, log in to your Spotify account.

Symptom		Remedy	
Bluetooth®	No Bluetooth device is detected.	<ul><li>Search from the Bluetooth device again.</li><li>Reset the unit. (Page 4)</li></ul>	
	Bluetooth pairing cannot be made.	Make sure you have entered the same PIN code to both the unit and Bluetooth device.     Delete pairing information from both the unit and the Bluetooth device, then perform pairing again. (Page 12)	
	Echo or noise is heard during a phone conversation.	<ul> <li>Adjust the microphone unit's position. (Page 12)</li> <li>Check the [ECHO CANCEL] setting. (Page 14)</li> </ul>	
	Phone sound quality is poor.	Reduce the distance between the unit and the Bluetooth device. Move the car to a place where you can get a better signar reception.	
	Voice calling method is not successful.	Use voice calling method in a more quiet environment. Reduce the distance from the microphone when you speak the name. Make sure the same voice as the registered voice tag is used.	
	Sound is being interrupted or skipped during playback of a Bluetooth audio player.	Reduce the distance between the unit and the Bluetooth audio player.  Turn off, then turn on the unit and try to connect again. Other Bluetooth devices might be trying to connect to th unit.	
	The connected Bluetooth audio player cannot be controlled.	Check whether the connected Bluetooth audio player supports Audio/Video Remote Control Profile (AVRCP). (Refer to the instructions of your audio player.) Disconnect and connect the Bluetooth player again.	

## Troubleshooting

Symptom		Remedy
Bluetooth®	"NOT SUPPORT"	The connected phone does not support Voice Recognition feature or phonebook transfer.
	"NO ENTRY"	There is no registered device connected/found via Bluetooth.
	"ERROR"	Try the operation again. If "ERROR" appears again, check if the device supports the function you have tried.
	"NO INFO"/"NO DATA"	Bluetooth device cannot get the contact information.
	"HF ERROR XX"/ "BT ERROR"	Reset the unit and try the operation again. If this does not solve the problem, consult your nearest service center.
	"SWITCHING NG"	The connected phones might not support phone switching feature.
	The Bluetooth connection between the Bluetooth device and the unit is unstable.	Delete the unused registered Bluetooth device from the unit. (Page 17)

## **Specifications**

Tuner	FM	Frequency Range	87.9 MHz — 107.9 MHz (200 kHz step)
		Usable Sensitivity $(S/N = 30 \text{ dB})$	8.2 dBf (0.71 $\mu$ V/75 $\Omega$ )
		Quieting Sensitivity (DIN S/N = 46 dB)	17.2 dBf (2.0 μV/75 Ω)
		Frequency Response (±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 step)
		Usable Sensitivity (S/N = $20 \text{ dB}$ )	29 dBμ (28.2 μV)
	Laser D	iode	GaAlAs
	Digital Filter (D/A)		8 times over sampling
	Spindle Speed		500 rpm — 200 rpm (CLV)
	Wow & Flutter		Below measurable limit
	Frequency Response (±1 dB)		20 Hz — 20 kHz
CD player	Total Harmonic Distortion (1 kHz)		0.02 %
	Signal-to-Noise Ratio (1 kHz)		99 dB
	Dynamic Range		92 dB
	Channel Separation		90 dB
	MP3 De	ecode	Compliant with MPEG-1/2 Audio Layer-3
	WMA Decode		Compliant with Windows Media Audio
	AAC Decode		AAC-LC ".aac" files



## Specifications

USB	USB Standard	USB 1.1, USB 2.0 (High speed)
	File System	FAT12/16/32
	Maximum Supply Current	DC 5 V <del></del> 1.5 A
	MP3 Decode	Compliant with MPEG-1/2 Audio Layer-3
	WMA Decode	Compliant with Windows Media Audio
	AAC Decode	AAC-LC ".aac", ".m4a" files
	WAV Decode	Linear-PCM
	FLAC Decode	FLAC file (Up to 96 kHz/24 bit)
Auxiliary	Frequency Response (±3 dB)	20 Hz — 20 kHz
	Input Maximum Voltage	1 000 mV
	Input Impedance	30 kΩ
Bluetooth	Version	Bluetooth 4.2
	Frequency Range	2.402 GHz — 2.480 GHz
	RF Output Power (E.I.R.P.)	+4 dBm (MAX), Power Class 2
	Maximum Communication Range	Line of sight approx. 10 m (32.8 ft)
	Profile	HFP 1.7.1 (Hands-Free Profile) A2DP (Advanced Audio Distribution Profile) AVRCP 1.6.1 (Audio/Video Remote Control Profile) PBAP (Phonebook Access Profile) SPP (Serial Port Profile)

Maximum Output Power Full Bandwidth Power (at less than 1 % THD)	50 W × 4 22 W × 4
Speaker Impedance	4Ω8Ω
Tone Action	Band 1: 62.5 Hz ±9 dB Band 2: 100 Hz ±9 dB Band 3: 160 Hz ±9 dB Band 4: 250 Hz ±9 dB Band 5: 400 Hz ±9 dB Band 6: 630 Hz ±9 dB Band 7: 1 kHz ±9 dB Band 7: 1 kHz ±9 dB Band 8: 1.6 kHz ±9 dB Band 9: 2.5 kHz ±9 dB Band 10: 4 kHz ±9 dB Band 11: 6.3 kHz ±9 dB Band 11: 6.3 kHz ±9 dB Band 11: 6.3 kHz ±9 dB Band 12: 10 kHz ±9 dB Band 13: 16 kHz ±9 dB
Preout Level/Load	2 500 mV/10 kΩ
Preout Impedance	≤ 600 Ω
Operating Voltage	12 V DC battery
Installation Size (W $\times$ H $\times$ D)	182 mm × 53 mm × 155.5 mm (7-3/16" × 2-1/16" × 6-1/8")
Net Weight (includes Trimplate, Mounting Sleeve)	1.2 kg (2.7 lbs)
	Full Bandwidth Power (at less than 1 % THD)  Speaker Impedance  Tone Action  Preout Level/Load  Preout Impedance  Operating Voltage  Installation Size (W×H×D)  Net Weight (includes Trimplate,

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)



Los productos con el símbolo de un contenedor con ruedas tachado no podrán ser desechados como residuos domésticos. Los equipos eléctricos y electrónicos al final de la vida útil, deberán ser reciclados en instalaciones que puedan dar el tratamiento adecuado a estos productos y a sus subproductos residuales correspondientes. Póngase en contacto con su administración local para obtener información sobre el punto de recogida más cercano. Un tratamiento correcto del reciclaje y la eliminación de residuos ayuda a conservar los recursos y evita al mismo tiempo efectos periudiciales en la salud y el medio ambiente.

#### Informação sobre a eliminação de pilhas

Este produto não deve ser eliminado como lixo doméstico geral. Devolva a pilha usada ao revendedor ou entidade autorizada para que a mesma seja devolvida ao fabricante ou importador.

A reciclagem e a eliminação de lixo de maneira apropriada ajudarão a conservar os recursos naturais ao mesmo tempo que prevenirão os efeitos prejudicais à nossa saúde e ao meio ambiente.

#### FCC CAUTION

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
- Consult the dealer or an experienced radio/TV technician for help.

#### **Declaration of Conformity**

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

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

#### ISED CAUTION

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- This device may not cause interference.
- 2. This device must accept any interference, including interference that may cause undesired operation of the device.

#### ATTENTION ISED

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1. L'appareil ne doit pas produire de brouillage.
- L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Contains Bluetooth Module FCC ID: ZWY88112 IC ID: 12033A-88112

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

#### CAUTION

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the ISED radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

#### ATTENTION

Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles les radioélectriques (RF) de la FCC lignes directrices d'exposition et d'exposition eux fréquences radioélectriques (RF) CNR-102 de ISED. Cet équipement doit être installé et utilisé en qardant une distance de 20 cm ou plus entre le radiateur et le corps humain.

#### Para cumplimiento de la IFT:

"La operación de este equipo está sujeta a las siguientes dos condiciones:

- (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y
- (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada"

## SOFTWARE LICENSE AGREEMENT

The software embedded in the Product (hereinafter the "Licensed Software") provided by Licensor is copyrighted to or sublicensable by the Licensor, and this Agreement provides for the terms and conditions which Users shall follow in order to use the Licensed Software.

The User shall use the Licensed Software by agreeing with the terms of this Software License Agreement. This Agreement shall be deemed completed at the time the User (hereinafter the "User") initially used the Product in which the "Licensed Software" is embedded.

The Licensed Software may include the software which has been licensed to the Licensor directly or indirectly from any third party. In such case, some third parties require the Users to follow their conditions for use separately from this Software License Agreement. Such software shall not be subject to this Agreement, and the Users are urged to read the "Important Notice concerning the Software" to be provided separately below.

#### Article 1 General Provision

The Licensor shall grant to the User a non-exclusive and non-transferable (other than the exceptional case referred to in Article 3, Paragraph 1) licensed to use the Licensed Software within the country of the User. (the country where the User bought the Product (hereinafter the "Country")

#### Article 2 License

- The license granted under this Agreement shall be the right to use the Licensed Software in the Product.
- The User shall not duplicate, copy, modify, add, translate or otherwise alter, or lease the Licensed Software and any related documents, whether in whole or in part.
- The use of the Licensed Software shall be limited to personal purpose, and the Licensed Software shall not be distributed, licensed or sub-licensed whether it is for commercial purpose or not.
- 4. The User shall use the Licensed Software according to the directions described in the operation manual or help file, and is prohibited to use or duplicate any data in a manner violating the Copyright Law or any other laws and regulations by applying whole or a part of the Licensed Software.

#### Article 3 Conditions for Grant of License

- When the User transfers the Product, it may also transfer the license to use the Licensed Software
  embedded in the Product (including any related materials, updates and upgrades) on condition that
  no original, copies or related materials continue in the possession of the User, and that the User shall
  cause the transferee to comply with this Software License Agreement.
- The User shall not carry out reverse engineering, disassembling, decompiling or any other code analysis works in connection with the Licensed Software.

#### Article 4 Right pertaining to the Licensed Software

Any and all copyrights and other rights pertaining to the Licensed Software and related documents shall belong to the Licensor or the original holder of the right who granted to the Licensor the license or sublicense for the Licensed Software (hereinafter the "Original Rightholder"), and the User shall not be entitled to any right other than the license granted hereunder, in respect of the Licensed Software and any related documents.

#### Article 5 Indemnification of Licenson

- Neither the Licensor nor the Original Rightholder shall be liable for any damage incurred by the User
  or any third party due to the exercise of the license granted to the User under this Agreement, unless
  otherwise restricted by law.
- The Licensor will offer no guarantee for the merchantability, convertibility and consistency with certain objective of the Licensed Software.

#### Article 6 Liability to Third Party

If any dispute has arisen with any third party due to an infringement upon a copyright, patent or any other intellectual property right that was caused by the User's use of the Licensed Software, the User shall settle such dispute at its own cost and hold the Licensor and the Original Rightholder harmless from any inconvenience it may cause.

### Article 7 Confidentiality

The User shall keep the confidentiality of such portion of the Licensed Software, related documents thereof or any other information to be granted under this Agreement, as well as the conditions of this Agreement as has not yet entered the public domain, and shall not disclose or divulge the same to any third party without approval of the Licensor.

#### Article 8 Termination

In case the User falls under any of the events described in the following items, the Licensor may immediately terminate this Agreement or claim that the User compensates for the damage incurred by the Licensor due to such event:

- (1) when the User violated any provision of this Agreement; or
- when a petition has been filed against the User for an attachment, provisional attachment, provisional disposition or any other compulsory execution.

#### Article 9 Destruction of the Licensed Software

If this Agreement is terminated pursuant to the provision of Article 8, the User shall destroy the Licensed Software, any related documents and copies thereof within two (2) weeks from such date of termination.

#### Article 10 Protection of Copyright

- The copyright and all the other intellectual property rights relating to the Licensed Software shall belong to the Licensor and the Original Rightholder, and in no event shall they be under the ownership of the User.
- The User shall, whenever it uses the Licensed Software, comply with any laws relating to the copyright and other intellectual property rights.

#### Article 11 Export Restriction

- It is prohibited to export the Licensed Software and any related documents outside the country
  of the User (including transmission thereof outside the country of the User via Internet of other
  communication tools).
- The User shall understand that the Licensed Software shall be subject to the export restrictions adopted by the country of User and any other countries.
- The User shall agree that the software will be subject to any and all applicable international and domestic laws (including the export control regulation of the country of User and any other countries, and any restrictions concerning the end-users, the use by end-users and importing countries to be provided by the country of User and any other countries, and any other governmental authorities).

#### Article 12 Miscellaneous

- In the event any part of this Agreement is invalidated by operation of law, the residual provisions shall continue in force.
- Matters not stipulated in this Agreement or any ambiguity or question raised in the construction of this Agreement shall be provided or settled upon good-faith consultation between the Licensor and the licer
- The Licensor and the User hereby agree that this Agreement is governed by the laws of Japan, and any dispute arising from, and relating to the rights and obligations under, this Agreement shall be submitted to the exclusive jurisdiction of the Tokyo District Court for its first instance.

## Important Notice concerning the Software

-jansson

Copyright (c) 2009-2012 Petri Lehtinen <petri@digip.org>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORTOR OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-cJSON

Copyright (c) 2009 Dave Gamble

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-CMP

The MIT License (MIT)

Copyright (c) 2014 Charles Gunyon

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

#### nanopb

Copyright (c) 2011 Petteri Aimonen < jpa at nanopb.mail.kapsi.fi>

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

- The origin of this software must not be misrepresented; you must not claim that you wrote
  the original software. If you use this software in a product, an acknowledgment in the product
  documentation would be appreciated but is not required.
- Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
- 3. This notice may not be removed or altered from any source distribution.

sha2

AUTHOR: Aaron D. Gifford - http://www.aarongifford.com/

Copyright (c) 2000-2001, Aaron D. Gifford All rights reserved.

You may obtain a copy of the license at https://opensource.org/licenses/BSD-3-Clause

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE

Posix

Copyright (c) 1990, 1993

The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- All advertising materials mentioning features or use of this software must display the following acknowledgement:
- This product includes software developed by the University of California, Berkeley and its contributors.
- Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.

Developed at SunPro, a Sun Microsystems, Inc. business.

Permission to use, copy, modify, and distribute this software is freely granted, provided that this notice is preserved.

Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All rights reserved.

License to copy and use this software is granted provided that it is identified as the "RSA Data Security, Inc. MD4 Message-Digest Algorithm" in all material mentioning or referencing this software or this function.

Copyright (c) 1995, 1996 Carnegie-Mellon University. All rights reserved.

Author: Chris G. Demetriou

Permission to use, copy, modify and distribute this software and its documentation is hereby granted, provided that both the copyright notice and this permission notice appear in all copies of the software, derivative works or modified versions, and any portions thereof, and that both notices appear in supporting documentation.

CARNEGIE MELLON ALLOWS FREE USE OF THIS SOFTWARE IN ITS "AS IS" CONDITION. CARNEGIE MELLON DISCLAIMS ANY LIABILITY OF ANY KIND FOR ANY DAMAGES WHATSOEVER RESULTING FROM THE USE OF THIS SOFTWARE.

Carnegie Mellon requests users of this software to return to

Software Distribution Coordinator or Software. Distribution@CS.CMU.EDU School of Computer Science Carnegie Mellon University Pittsburgh PA 15213-3890

any improvements or extensions that they make and grant Carnegie the rights to redistribute these changes.

License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Data Security, Inc. MD4 Message-Digest Algorithm" in all material mentioning or referencing the derived work.

RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

Copyright (c) 1993 Martin Birgmeier

All rights reserved.

You may redistribute unmodified or modified versions of this source code provided that the above copyright notice and this and the following conditions are retained.

This software is provided ``as is", and comes with no warranties of any kind. I shall in no event be liable for anything that happens to anyone/anything when using this software.

These notices must be retained in any copies of any part of this documentation and/or software.

T-Kernel 2.0

This product uses the source code of T-Kernel 2.0 under T-License 2.0 granted by T-Engine Forum (www.tron.org)

BSD-3-Clause

Copyright (c) 2000-2001, Aaron D. Gifford

All rights reserved.

You may obtain a copy of the license at

https://opensource.org/licenses/BSD-3-Clause

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

LFS Subsystem

Copyright The Regents of the University of California. All rights reserved.

You may obtain a copy of the license at

https://directory.fsf.org/wiki/License:BSD-4-Clause

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE

Accordo2 Player

Apache License

Licensed under the Apache License.

Version 2.0, January 2004(the "License");

You may obtain a copy of the license at

http://www.apache.org/licenses/LICENSE-2.0

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE

- Windows Media is a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
   This product is protected by certain intellectual property rights of Microsoft. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft.
- Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with an Apple product may affect wireless
- Apple, iPhone, iPod, iPod touch, and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries.
- IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.
- Android is a trademark of Google LLC.
- SPOTIFY and the Spotify logo are among the registered trademarks of Spotify AB.
- The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG. Inc. Other trademarks and trade names are those of their respective owners.

Made for **★iPhone** | **iPod** 



