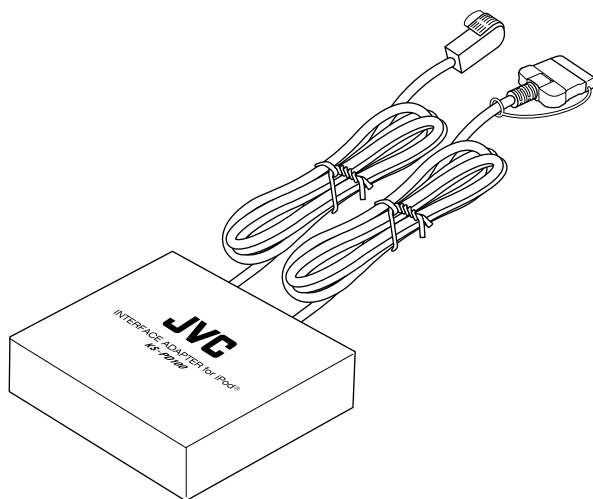




**INTERFACE ADAPTER for iPod®**

**KS-PD100**



Thank you for purchasing a JVC product.

Please read this manual carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

- iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.
- For installation and connections, refer to the separate manual.

### **INFORMATION (For U.S.A.)**

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.

## **Warnings and precautions**

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JVC bears no responsibility for any loss of data in the iPod while using this product.

### **Warnings**

- **USE WITH DC 12 V NEGATIVE GROUND VEHICLES.**  
If your vehicle does not have this system, a voltage inverter is required, which can be purchased at a JVC car audio (IN-CAR ENTERTAINMENT) dealer.
- This adapter has been designed for exclusive use with JVC's car receivers and the iPod. Do not use this adapter with any other car receiver or player.

### **Precautions for safety**

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Do not perform complicated operations while driving; otherwise, it may result in an accident.

### **Precautions for handling the iPod**

- Do not leave the iPod in a vehicle for a long time, as it may be damaged by direct sunlight, high temperature, humidity, etc.
- Do not place the iPod on an uneven surface or in a place subject to vibration; otherwise, it may fall over, obstructing safe driving.

# Getting started

## General information

- This adapter supports only JVC's car receivers which meet the following conditions:
  - An **MP3-compatible CD changer control** is equipped
  - **CD Text, MP3 folder/file names, or ID3 Tag** is displayed
- By using this adapter, you can operate the iPod with your receiver as follows:
  - Playing tracks stored in the iPod
  - Selecting and playing tracks from “Playlists/Artists/Albums/Songs/Genres/Composers”
  - Changing playback modes
- If your receiver shows “CD-CH (CD-Changer)” when the iPod is selected as the source:
  - You cannot activate both Repeat and Random (Shuffle) at the same time.
  - When connecting the iPod to this adapter while both “Repeat” and “Shuffle” are activated, only the “Repeat” setting takes effect.
- While the iPod is connected to this adapter, all the buttons on the iPod do not function. Perform all operations using the receiver.
- The text information of the tracks, categories, etc. is displayed on the receiver when operating the iPod through this adapter.
  - Text may not be displayed correctly depending on the characters, the condition of communication between the iPod and the receiver, etc.
  - The whole text may not be displayed if it is too long even if the receiver can scroll text information. The maximum number of characters displayed is different according to the receiver (up to a maximum of 40 characters).

## Checking the type of your iPod

You can control the following types of iPods through this adapter.

- The iPod shuffle is not controllable.

Controllable iPod	Software Version
iPod with dock connector (3rd Generation)	iPod software version 2.3
iPod with Click Wheel (4th Generation)	iPod software version 3.1
iPod mini	iPod mini software version 1.4
iPod photo (5th Generation)	iPod photo software version 1.2
iPod nano*	iPod nano software version 1.0

You can check the software version of your iPod from “About” in the “Setting” menu on your iPod. If your iPod software version is older than those mentioned above, update your iPod.

- For details about updating your iPod, check on the Apple web site <<http://www.apple.com>>.

\* When you connect the iPod nano to this adapter, make sure to disconnect the headphones; otherwise, no sound is played.

## ■ Setting your receiver

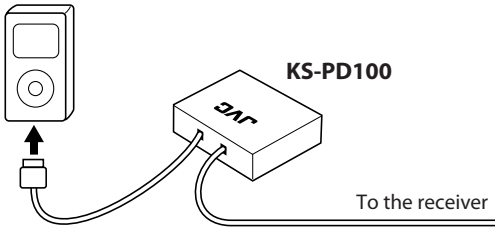
Before using the iPod through this adapter, make sure to select CD changer as the external input setting.

- For details, see the PSM setting section in the instructions supplied with your receiver.

## ■ Connecting the iPod to the adapter

Connect the iPod connection cable to the dock connector on the iPod.

- Insert the connection cable until you hear a clicking sound.



The power supply to the iPod is linked to the receiver.

- **Make sure to turn off the power on the receiver or turn off the vehicle's ignition switch before connecting or disconnecting the iPod.**
- While the iPod is connected to this adapter, its battery is charged when the receiver is turned on.

## ■ Starting playback

Turn on the power of the receiver and select the source for CD changer or iPod\*.

The iPod starts playback from where it has been previously paused.

\* For receivers which do not show iPod as a source, select CD changer for the source.  
For details, see the instructions supplied with your receiver.

## ■ Checking the type of your receiver

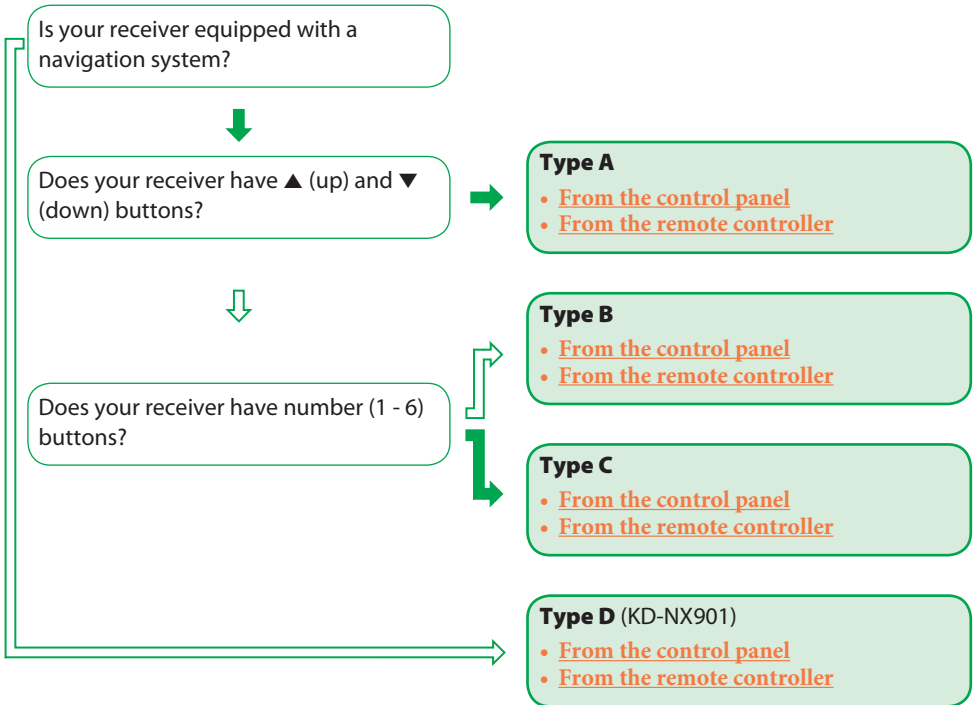
Operating procedures on the control panel and from the remote controller are different according to the type of the receiver.

Check the type of your receiver by referring to the chart below.

- If you are not sure about the type of your receiver, see the JVC web site <<http://www.jvc-exad.com>> or consult your JVC car audio (IN-CAR ENTERTAINMENT) dealer.

**Click the corresponding link (“From the control panel!” or “From the remote controller!”), so you can jump to the pages of operating procedures for your receiver.**

- If your answer is “yes,” follow →.
- If your answer is “no,” follow ↩.



# Operations from the control panel—For Type A

## How the buttons on the control panel work as the iPod's controls

- **MODE**: functions after **MODE** is pressed. To restore the original function, press **MODE** again.

### During playback

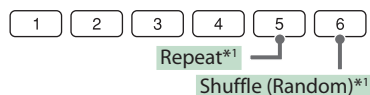
Functions the same as the iPod operation

**MENU** (Enters the "Music" menu)



Functions the same as the iPod operation

**Play/Pause**



### When selecting a track from the "Music" menu

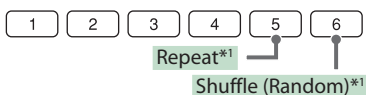
**Click Wheel** (Selects the next items)

**MENU** (Moves back to the previous layer)



**Click Wheel** (Selects the previous items)

**Select** (Confirms the selection)



## Basic operation

To select a track:

- Press **▶▶▶** to go to the next tracks.
- Press **◀◀◀** to go to the beginning of the current track and the previous tracks.

To fast-forward or reverse a track:

- Press and hold **▶▶▶** to fast-forward.
- Press and hold **◀◀◀** to reverse.

To pause or resume playback: After pressing **MODE**, press **◀◀◀**.

Each time you press **◀◀◀** after pressing **MODE**, the playback pauses and resumes alternately.

## Selecting a track from the "Music" menu

1 After pressing **MODE**, press **▶▶▶** to enter the "Music" menu.\*2

2 Press **MODE**.

3 Press **▶▶▶** or **◀◀◀** to select an item.

4 After pressing **MODE**, press **◀◀◀** to confirm the selection.

When the selected item has a next layer, you will enter the layer. To move back to the previous layer, press **▶▶▶** after pressing **MODE**.

5 Repeat steps 2 to 4 until the desired track is confirmed.

- You can also skip 10 items at a time by pressing and holding **▶▶▶** or **◀◀◀**.

## Selecting playback modes\*3

**Repeat play\*4**: After pressing **MODE**, press **5** repeatedly to select a desired repeat mode.\*1

- **Track**: Functions the same as "Repeat One" of the iPod.
- **Disc**: Functions the same as "Repeat All" of the iPod.

To cancel, select **Off**.

**Random play\*4**: After pressing **MODE**, press **6** repeatedly to select a desired random mode.\*1

- **All or MAG**: Functions the same as "Shuffle Songs" of the iPod.
- **Folder**: Functions the same as "Shuffle Albums" of the iPod.\*5

To cancel, select **Off**.

\*1 For some receivers, the number buttons for selecting playback modes are different. Refer to the instructions supplied with the receiver.

\*2 The menu selecting mode will be canceled;  
– If no operations are done for about 5 seconds.  
– When you confirm the selection of a track.

\*3 For the receivers which show "CD-CH (CD-Changer)" when the iPod is selected as the source, you can use only one of the playback modes at the same time.

\*4 While any playback mode is selected, the corresponding indicator lights up on the display of the receiver.

\*5 This function works when you select "All" in "Albums" of the "Music" menu.

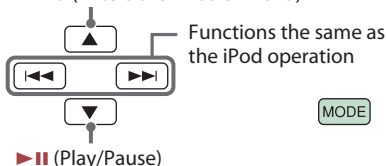
# Operations from the control panel—For Type B

## How the buttons on the control panel work as the iPod's controls

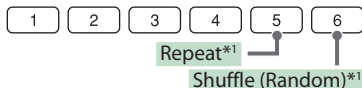
- **MODE**: functions after **MODE** is pressed. To restore the original function, press **MODE** again.

### During playback

**MENU** (Enters the "Music" menu)

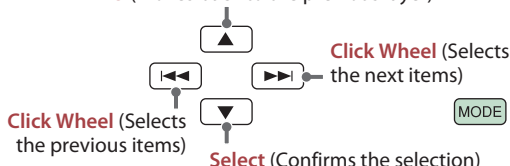


▶|| (Play/Pause)



### When selecting a track from the "Music" menu

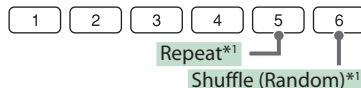
**MENU** (Moves back to the previous layer)



Click Wheel (Selects the previous items)

Click Wheel (Selects the next items)

Select (Confirms the selection)



## Basic operation

### To select a track:

- Press ▶▶| to go to the next tracks.
- Press |◀◀ to go to the beginning of the current track and the previous tracks.

### To fast-forward or reverse a track:

- Press and hold ▶▶| to fast-forward.
- Press and hold |◀◀ to reverse.

### To pause or resume playback: Press ▼.

Each time you press the button, the playback pauses and resumes alternately.

## Selecting a track from the "Music" menu

**1** Press ▲ to enter the "Music" menu.\*2

**2** Press ▶▶| or |◀◀ to select an item, then press ▼ to confirm the selection.

When the selected item has a next layer, you will enter the layer. Repeat the procedure until the desired track is confirmed.

- You can also skip 10 items at a time by pressing and holding ▶▶| or |◀◀.
- To move back to the previous layer, press ▲.

## Selecting playback modes\*3

**Repeat play**\*4: After pressing **MODE**, press **5** repeatedly to select a desired repeat mode.\*1

- **Track**: Functions the same as "Repeat One" of the iPod.
- **Disc**: Functions the same as "Repeat All" of the iPod.

To cancel, select **Off**.

**Random play**\*4: After pressing **MODE**, press **6** repeatedly to select a desired random mode.\*1

- **All or MAG**: Functions the same as "Shuffle Songs" of the iPod.
- **Folder**: Functions the same as "Shuffle Albums" of the iPod.\*5

To cancel, select **Off**.

\*1 For some receivers, the number buttons for selecting playback modes are different. Refer to the instructions supplied with the receiver.

\*2 The menu selecting mode will be canceled;  
– If no operations are done for about 5 seconds.  
– When you confirm the selection of a track.


\*3 For the receivers which show "CD-CH (CD-Changer)" when the iPod is selected as the source, you can use only one of the playback modes at the same time.

\*4 While any playback mode is selected, the corresponding indicator lights up on the display of the receiver.

\*5 This function works when you select "All" in "Albums" of the "Music" menu.

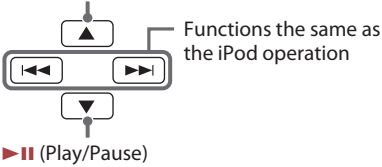
# Operations from the control panel—For Type C

## How the buttons on the control panel work as the iPod's controls

-  : functions when you press and hold the button.

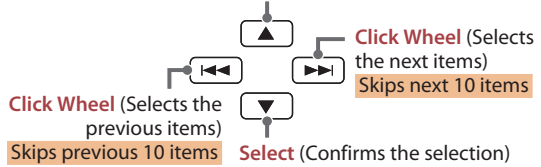
### During playback

**MENU** (Enters the "Music" menu)



### When selecting a track from the "Music" menu

**MENU** (Moves back to the previous layer)



## Basic operation

### To select a track:

- Press ▶▶ to go to the next tracks.
- Press ◀◀ to go to the beginning of the current track and the previous tracks.

### To fast-forward or reverse a track:

- Press and hold ▶▶ to fast-forward.
- Press and hold ◀◀ to reverse.

### To pause or resume playback: Press ▼.

Each time you press the button, the playback pauses and resumes alternately.

## Selecting a track from the "Music" menu

### 1 Press ▲ to enter the "Music" menu.\*1

### 2 Press ▶▶ or ◀◀ to select an item, then press ▼ to confirm the selection.

When the selected item has a next layer, you will enter the layer. Repeat the procedure until the desired track is confirmed.

- You can also skip 10 items at a time by pressing and holding ▶▶ or ◀◀.
- To move back to the previous layer, press ▲.

## Selecting playback modes\*2

- Refer to the operation of playback modes section of the instructions supplied with the receiver.

### Repeat play\*3: Select one of the followings:

- **Track:** Functions the same as "Repeat One" of the iPod.
- **Disc:** Functions the same as "Repeat All" of the iPod.

To cancel, select **Off**.

### Random play\*3: Select one of the followings:

- **All or MAG:** Functions the same as "Shuffle Songs" of the iPod.
- **Folder:** Functions the same as "Shuffle Albums" of the iPod.\*4

To cancel, select **Off**.

\*1 The menu selecting mode will be canceled;

- If no operations are done for about 5 seconds.
- When you confirm the selection of a track.

\*2 For the receivers which show "CD-CH (CD-Changer)" when the iPod is selected as the source, you can use only one of the playback modes at the same time.

\*3 While any playback mode is selected, the corresponding indicator lights up on the display of the receiver.

\*4 This function works when you select "All" in "Albums" of the "Music" menu.



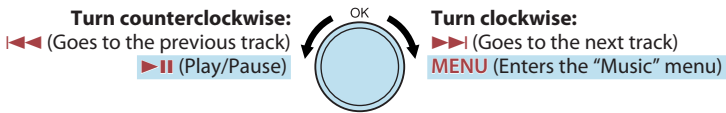
# Operations from the control panel

## —For Type D (KD-NX901)

### How the buttons on the control panel work as the iPod's controls

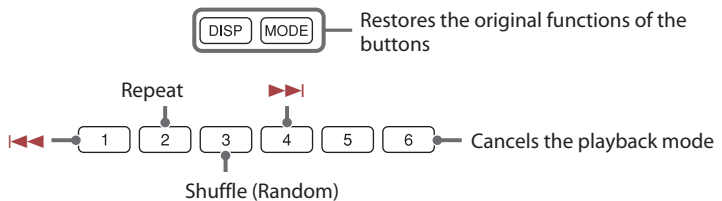
- : functions after **OK** is pressed. To restore the original function, press **OK** again.
- : functions when you press and hold the button.

**During playback** (See also page 11.)





Pressing **MODE** changes the function of the buttons as follows. Press the button before pressing the target button. Pressing **MODE** or **DISP** again restores the original function.\*

**During playback (after pressing MODE)** (See also page 11.)

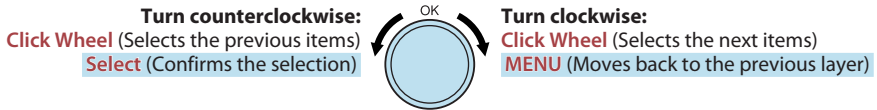


\* The buttons also restore the original functions if no operations are done for about 15 seconds.

## How the buttons on the control panel work as the iPod's controls

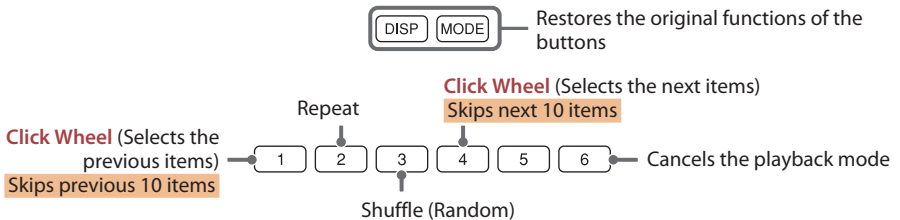
-  : functions after **OK** is pressed. To restore the original function, press **OK** again.
-  : functions when you press and hold the button.

### When selecting a track from the “Music” menu (See also page 11.)



Pressing **MODE** changes the function of the buttons as follows. Press the button before pressing the target button. Pressing **MODE** or **DISP** again restores the original function.\*

### When selecting a track from the “Music” menu (after pressing **MODE**) (See also page 11.)



\* The buttons also restore the original functions if no operations are done for about 15 seconds.

## Basic operation

### To select a track:

- Turn the control dial clockwise to go to the next tracks.
- Turn the control dial counterclockwise to go to the beginning of the current track and the previous tracks.

### To fast-forward or reverse a track:

- After pressing **MODE**, press and hold **4** to fast-forward.
- After pressing **MODE**, press and hold **1** to reverse.

### To pause or resume playback:

After pressing **OK**, turn the control dial counterclockwise to select pause or resume.

### To scroll the display information:

Press and hold **DISP**.

### To change the display information:

Press **DISP**.

## Selecting a track from the "Music" menu

**1** After pressing **OK**, turn the control dial clockwise to enter the "Music" menu.\*<sup>1</sup>

**2** Press **OK**.

**3** Turn the control dial to select an item.

**4** After pressing **OK**, turn the control dial counterclockwise to confirm the selection.

When the selected item has a next layer, you will enter the layer. To move back to the previous layer, press **OK**, then turn the control dial clockwise.

**5** Repeat steps **2** to **4** until the desired track is confirmed.

- You can also skip 10 items at a time. After pressing **MODE**, press **4** to skip next 10 items or **1** to skip previous 10 items.

## Selecting playback modes\*<sup>2</sup>

**Repeat play\*<sup>3</sup>**: After pressing **MODE**, press **2** repeatedly to select a desired repeat mode.

- **Track**: Functions same as "Repeat One" of the iPod.
- **Disc**: Functions same as "Repeat All" of the iPod.

To cancel, press **MODE**, then press **6**.

**Random play\*<sup>3</sup>**: After pressing **MODE**, press **3** repeatedly to select a desired random mode.

- **All or MAG**: Functions the same as "Shuffle Songs" of the iPod.
- **Folder**: Functions the same as "Shuffle Albums" of the iPod.\*<sup>4</sup>

To cancel, press **MODE**, then press **6**.

\*<sup>1</sup> The menu selecting mode will be canceled;

- If no operations are done for about 5 seconds.
- When you confirm the selection of a track.

\*<sup>2</sup> For the receivers which show "CD-CH (CD-Changer)" when the iPod is selected as the source, you can use only one of the playback modes at the same time.

\*<sup>3</sup> While any playback mode is selected, the corresponding indicator lights up on the display of the receiver.

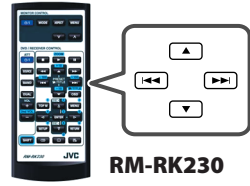
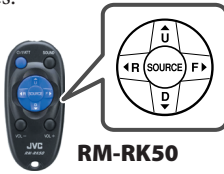
\*<sup>4</sup> This function works when you select "All" in "Albums" of the "Music" menu.

# Operations from the remote controller

- From the remote controller, playback mode selection is not available. Perform the operation on the control panel to select a playback mode.

You can control the iPod using the remote controller supplied with your receiver.

Examples:

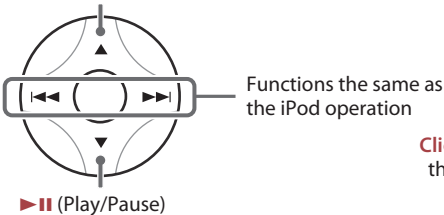


## How the buttons on the remote controller work as the iPod's controls

- The illustrations of RM-RK300 are used as examples.

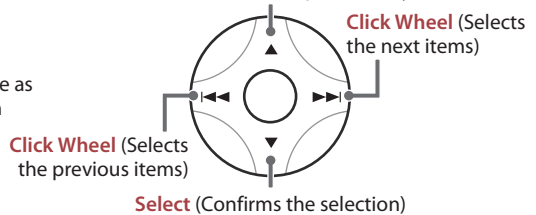
### During playback

**MENU** (Enters the "Music" menu)



### When selecting a track from the "Music" menu

**MENU** (Moves back to the previous layer)



## Basic operation

To select a track:

- Press ►►| (or ►) to go to the next tracks.
- Press |◄◄ (or ◄) to go to the beginning of the current track and the previous tracks.

To fast-forward or reverse a track:

- Press and hold ►►| (or ►) to fast-forward.
- Press and hold |◄◄ (or ◄) to reverse.

To pause or resume playback: Press ▼.

Each time you press the button, the playback pauses and resumes alternately.

## Selecting a track from the "Music" menu

1 Press ▲ to enter the "Music" menu.

- Now the buttons on remote controller work as the menu selecting buttons.\*

2 Press ►►|/|◄◄ (or ►/◄) to select an item, then press ▼ to confirm the selection.

When the selected item has a next layer, you will enter the layer. Repeat the procedure until the desired track is confirmed.

- You can skip 10 items at a time by pressing and holding ►►|/|◄◄ (or ►/◄).
- To move back to the previous layer, press ▲.

\* The menu selecting mode will be canceled;

- If no operations are done for about 5 seconds.
- When you confirm the selection of a track.

## Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

Symptoms	Causes	Remedies
<ul style="list-style-type: none"><li>The iPod is not turned on.</li></ul>	Connections are incorrect.	Check the connecting cable and its connection.
<ul style="list-style-type: none"><li>Buttons do not work as intended.</li></ul>	The functions of the buttons have been changed.	Press MODE (or OK) before performing the operation.
<ul style="list-style-type: none"><li>The sound is distorted.</li></ul>	The equalizer is activated on both the receiver and the iPod.	Deactivate the equalizer either on the receiver or the iPod.
<ul style="list-style-type: none"><li>Playback stops.</li></ul>	The headphones are disconnected during playback.	Restart the playback operation using control panel.
<ul style="list-style-type: none"><li>No sound is played when connecting the iPod nano.</li></ul>	The headphones are connected to the iPod nano.	Disconnect the headphones from the iPod nano.
<ul style="list-style-type: none"><li>“NO MAG (Magazine),” “NO IPOD,” or “Disconnect” appears on the display of the receiver.</li></ul>	Connections are incorrect.	Check the connecting cable and its connection.
<ul style="list-style-type: none"><li>“NO FILES” appears on the display of the receiver.</li></ul>	No tracks are stored in the iPod.	Import tracks to the iPod.
<ul style="list-style-type: none"><li>“RESET 1 (R1)” – “RESET 7 (R7)” appears on the display of the receiver.</li></ul>	Communication failure occurs between this adapter and the iPod/the receiver.	Disconnect the adapter from both the receiver and the iPod. Then, connect it again.
<ul style="list-style-type: none"><li>“RESET 8 (R8)” appears on the display of the receiver.</li></ul>	Communication failure occurs between this adapter and the receiver.	Check the connection between this adapter and the receiver.
<ul style="list-style-type: none"><li>The iPod’s controls do not work after disconnecting from this adapter.</li></ul>	Communication failure occurs between this adapter and the iPod.	Reset the iPod.

# Specifications

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## ■ GENERAL

Power Requirement:

Operating Voltage: DC 14.4 V (11 V to 16 V allowance)

Grounding System: Negative ground

Current consumption: 18 mA (200 mA while charging the iPod)

Allowable Operating Temperature: 0°C to +40°C (32°F to 104°F)

Dimensions (W × H × D): 87 mm × 25 mm × 68 mm (3-7/16" × 1" × 2-11/16")

Mass (approx.): 320 g (0.71 lbs) (excluding accessories)

*Design and specifications are subject to change without notice.*

**JVC**



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