

Listening to FM and AM Broadcasts

Basic Tuner Operations

To	Press		
	On the System	On the remote	
Select FM or AM			Press repeatedly to select "FM" or "AM." • The selected frequency appear on the main display.
Select a frequency			Press and hold for more than 2 seconds. The System starts searching for stations and stops when a station of sufficient signal strength is tuned in. • If an FM program is broadcast in stereo, the ST (stereo) indicator lights on the display (only when the reception is good). • Press during searching to stop. • Press repeatedly to change the frequency step by step.
Tune in to a preset station	—		Press to select a preset number for the station you store. • For presetting stations, see below.
Change the FM reception mode (When an FM stereo broadcast is hard to receive or noisy)	—		Press to improve reception. The MONO indicator lights on the display. Reception will improve through the stereo effect is lost. To restore the stereo effect, press again.

Presetting Stations

You can preset 30 FM and 15 AM stations manually.

- Tune in to a station you want to preset.**
 - You can also store the monaural reception mode for FM preset stations if selected.
- SET** Press to activate the preset number entry mode.
 - Finish the following steps while the indication on the display is flashing.
- UP** or **DOWN** Press to select a preset number for the station you store.
- SET** Press to store the station.



NOTE
When you unplug the AC power cord or if a power failure occurs, the preset stations will be erased in a few hours.

Receiving FM Stations with Radio Data System

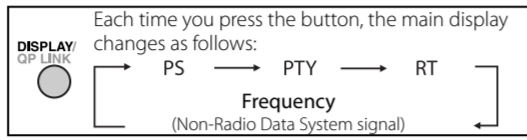
Radio Data System allows FM stations to send an additional signal along with their regular program signals. With the System, you can receive the following types of Radio Data System signals.

- PS (Program Service):** Shows commonly known station names.
- PTY (Program Type):** Shows types of broadcast programs.
- RT (Radio Text):** Shows text messages the station sends.
- Enhanced Other Networks:** Provides the information about the types of the programs broadcast by the Radio Data System stations of the different networks.

NOTE

If you want to know more about Radio Data System, visit <<http://www.rds.org.uk>>.

Changing the Radio Data System Information



NOTES

- If the System takes time to show the Radio Data System information—PS, PTY, RT signals, "PS," "PTY," or "RT" will appear while searching.
- If no Radio Data System signals are sent by a station, "NO PS," "NO PTY," or "NO RT" appears on the main display.

Searching for Programs by PTY Codes (PTY Search)

You can locate a particular kind of program from the preset stations (see the left column) by specifying the PTY codes.

- PTY SEARCH** Press to enter the PTY code setting mode.
"PTY" and "SELECT" appear alternately on the main display.
- UP** or **DOWN** Select a PTY code.
- PTY SEARCH** The System searches 30 preset FM stations, stops when it finds the one you have selected, and tunes in to that station.

NOTES

- To stop searching any time during search, press PTY SEARCH.
- To continue searching after it stops on an unwanted station, press PTY SEARCH while the indications on the display are flashing.
- If no program is found, "NOTFOUND" appears on the main display.

Learning More about This System

Basic and Common Operations (see page 3)

- Pressing one of the source buttons also turns on the System and starts playing back.

Playing Back a Disc/USB Mass Storage Class Device (see page 4)

- This System cannot play "packet write" discs.
- For MP3/WMA playback...
 - In this manual, "file" and "track" are interchangeably used for MP3/WMA operations.
 - This System can show the Tag data (Version 1).
 - MP3/WMA discs are required a longer readout time than regular CDs. (It depends on the complexity of the group/file configuration.)
 - Some MP3/WMA files cannot be played back and will be skipped. This result from their recording processes and conditions.
 - When making MP3/WMA discs, use ISO 9660 Level 1 or Level 2 for the disc format.
 - This System can play back MP3/WMA files with the extension code <mp3> or <.wma> (regardless of the letter case—upper/lower).
 - It is recommended that you make each MP3/WMA file at a sampling rate of 44.1 kHz and at bit rate of 128 kbps. This System cannot play back files made at bit rate of less than 64 kbps.
 - Playback order of MP3/WMA tracks may be different from the one you have intended while recording. If a folder does not include MP3/WMA tracks, they are ignored.
- For the USB mass storage class device playback...
 - When connecting a USB mass storage class device, also refer to its manual.
 - Connect one USB mass storage class device to the System at a time. Do not use a USB hub.
 - This System is compatible with USB 2.0 Full Speed.
 - You can play back MP3/WMA files in a USB mass storage class device (maximum data transfer rate: 2 Mbps).
 - You cannot play back a file larger than 2 Gigabyte.
 - This System cannot recognize a USB mass storage class device whose rating is other than 5 V and does not exceed 500 mA.
 - This System may not play back some USB mass storage class devices and does not support DRM (Digital Rights Management).
- This System can recognize up to 511 tracks in a disc/USB mass storage class device. Also, the System can recognize up to 150 tracks per group and up to 99 groups in a disc/USB mass storage class device (for MP3/WMA).
 - Playable files which do not belong to any groups are handled as Group 1.

Listening to Digital Audio Player (see page 6)

- When the sound signal from the Digital Audio Player is too weak, QP Link may not function correctly. In this case, turn up the volume of the Digital Audio Player so that the System can detect the sound signal properly.
- Changing from "LINE" to another source while QP Link works will deactivate QP Link temporarily.
 - In this case, the following reactive QP Link:
 - Pressing and holding QP LINK on the remote control.
 - When no sound signal comes from the LINE IN jack for about 30 seconds after the System is turned off.
 - If you press **Q/L** button to turn the System off or if preset Timer turns the System off while QP Link works, the System deactivates QP Link temporarily. In such cases, the following reactive QP Link:
 - When no sound signal comes from the LINE IN jack for about 30 seconds after the System is turned off.
 - When you turn on the power again.
- Setting the Clock and Daily Timer (see page 6)**
 - You can set the clock and Daily Timer while the Save mode is turned on. While setting the clock or Daily Timer, the display is turning on.
 - The clock may gain or lose 1 to 2 minutes per month. If this happens, readjust the clock.
 - When you unplug the AC power cord or if a power failure occurs, the clock and the timer will be canceled. You need to set the clock first, then the timer again.

Timer Priority:

- If you set the Sleep Timer after Daily Timer starts playing the selected source, Daily Timer is canceled.

JVC bears no responsibility for any loss of data in USB mass storage class device while using this System.

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Troubleshooting

If you are having a problem with your System, check this list for a possible solution before calling for service.

General

Power does not come on.

- Power plug is not inserted securely. Plug in securely.
- Adjustments or settings are suddenly canceled before you finish.
 - There is a time limit. Repeat the procedure again.

Operations are disabled.

- The built-in microprocessor may malfunction due to external electrical interference. Unplug the AC power cord and then plug it back in.

Unable to operate the System from the remote control.

- The path between the remote control and the remote sensor on the System is blocked.
- The batteries are exhausted.

No sound is heard.

- Speaker connections are incorrect or loose.
- Headphones are connected.

The System does not work properly.

- Many functions of this System are implemented by microcomputers. If pressing any button does not result in the normal action, disconnect the AC power cord from the wall outlet, wait for a while, and connect the cord again.

Disc/USB Mass Storage Class Device Operations

The disc/USB mass storage class device does not play.

- The disc is placed upside down. Place the disc with the label side up.
- The disc is recorded with the "packet writing (UDF file system)". It cannot be played. Check the files you want to play back.
- The USB mass storage class device is not connected properly.

MP3/WMA groups and tracks are not played back as you expect.

- The playing order is determined when the groups and tracks were recorded. It depends on the writing application.

The disc/USB mass storage class device sound is discontinuous.

- The disc is scratched or dirty.
- MP3/WMA files have not been properly copied into the USB mass storage class device.

The USB mass storage class device sound stops.

- Noise and static electricity may stop the sound. In this case, disconnect and connect the USB mass storage class device again after turning off the System.

The disc tray does not open or close.

- The AC power cord is not plugged in.
- Disc ejection is prohibited (see page 4).

Radio Operations

Hard to listen to broadcasts because of noise.

- Antennas connections are incorrect or loose.
- The AM loop antenna is too close to the System.
- The FM antenna is not properly extended and positioned.
- Electrostatic discharge from your body may cause noise. If this happens, turn off and on the System again.

Timer Operations

Daily Timer does not work.

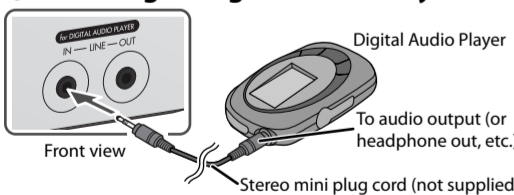
- The System has been turned on when the on-time comes. Timer starts working only when the System is turned off.

Listening to Digital Audio Player

IMPORTANT:
It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable program and in any literary, dramatic, musical, or artistic work embodied therein.



Listening to Digital Audio Player



- VOLUME** Turn the volume to minimum.
- LINE** Press repeatedly to select "LINE."
- Start playing the Digital Audio Player connected.
- Adjust the volume level to the level you want to listen to.

To Adjust the Audio Input Level

If the sound from the Digital Audio Player connected to the LINE IN jack is too loud or too quiet, you can change the audio input level through the LINE IN jack (without changing the volume level).

- Press and hold for more than 2 seconds while "LINE" is selected as the source.
You can select one of three levels as follows:
IN_LVL1 → **IN_LVL2** → **IN_LVL3**

To Play Back Digital Audio Player Easily

Quick Portable Link (QP Link) automatically switches the source to LINE as the Digital Audio Player connected to the LINE IN jack starts playback.

Press and hold for more than 2 seconds to activate QP Link.
The QPL indicator lights on the display.

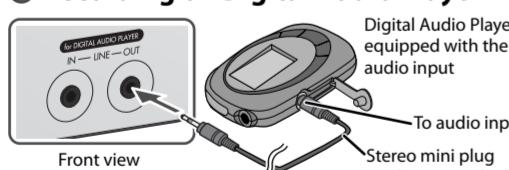
To cancel this function, press and hold for more than 2 seconds again.

When QP Link is activated, connecting a Digital Audio Player to the LINE IN jack and starting playback performs the following:
– While listening to another source...
Changes the source to "LINE" automatically.
– While the System is on standby...
Turns on the System and changes the source to "LINE" automatically (not applicable when the display is turned off).

NOTE

See "Learning More about This System" on page 7.

Recording on Digital Audio Player



- Start recording or standby recording on the Digital Audio Player.
- CD** or **USB** or **FM/AM** Start playing the disc or USB mass storage class device, or tune in to the station you want to recording.

NOTES

- Before recording on a Digital Audio Player, deactivate QP Link or do not connect the Digital Audio Player to the LINE IN jack; otherwise, "LINE" will be selected as the source and the recording will stop.
- Sound adjustments (see page 3) do not affect recording on the Digital Audio Player.

To Select the Audio Output Level

If the recorded sound on the Digital Audio Player connected to the LINE OUT jack is too loud or too quiet, you can change the audio output level through the LINE OUT jack (without changing the volume level).

- Press and hold to change the audio output level when the System is turned on.
You can select one of two levels alternately as follows:
OUT_LVL1 ↔ **OUT_LVL2**

Setting the Clock and Daily Timer

Setting the Clock

Without setting the built-in clock, you cannot use Daily Timer and Sleep Timer.

• "0:00" flashes on the main display until you set the clock.

- CLOCK/TIMER** Press to activate the clock setting mode.
- UP** or **DOWN** Adjust the hour, then the minute.

- To exit from the clock setting, press CLOCK/TIMER as required.
- To go back to the previous step, press CANCEL.

Setting the Daily Timer

Using Daily Timer, you can wake up with your favorite music.
• You can store three Daily Timer settings; however, you can activate only one of Daily Timers.

- Press repeatedly to select one of the timer setting modes you want to set—DAILY 1 ON time, DAILY 2 ON time, or DAILY 3 ON time—as follows:
- UP** or **DOWN**
 - Adjust the hour then the minute for on-time.
 - Adjust the hour then the minute for off-time.
 - Select the playback source—"TUNER-FM," "TUNER-AM," "DISC," "LINE," or "USB."
 - For "FM/AM": Select a preset channel.
 - For "LINE": Make the connected device ready for playback.
 - Select the volume level.
 - You can select the volume level ("VOLUME 0" to "VOLUME 31" and "VOLUME -"). If you select "VOLUME -", the volume is set to the last level when the System is turned off.
- Q/L** Turn off the System (on standby).
 - When the on-time of the daily timer comes, the System sets the volume level gradually to the preset level after about 10 seconds.

- To exit from the timer setting, press CLOCK/TIMER as required.
- To correct a misentry during the process, press CANCEL. You can return to the previous step.

To Turn Off the Daily Timer

- CLOCK/TIMER** Press repeatedly to select "DAILY 1," "DAILY 2," or "DAILY 3."
- CANCEL**

To turn on the Daily Timer again, select one of the timer settings by pressing CLOCK/TIMER, then press SET.

Maintenance

To get the best performance of the System, keep your discs and mechanism clean.

Handling discs

- Remove the disc from its case by holding it at the edge while pressing the center hole lightly.
- Do not touch the shiny surface of the disc, or bend the disc.
- Put the disc back in its case after use.
- Be careful not to scratch the surface of the disc when placing it back in its case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.

To clean the disc:

- Wipe the disc with a soft cloth in a straight line from center to edge.

Cleaning the System

- Stains should be wiped off with a soft cloth. If the System is heavily stained, wipe it with a cloth soaked in water-diluted neutral detergent and wrung well, then wipe clean with a dry cloth.
- Since the System may deteriorate in quality, become damaged or get its paint peeled off, be careful about the following:
 - DO NOT wipe it hard.
 - DO NOT wipe it with thinner or benzene.
 - DO NOT apply any volatile substance such as insecticides to it.
 - DO NOT allow any rubber or plastic to remain in contact for a long time.

Specifications

Amplifier section

OUTPUT POWER:

40 W (20 W + 20 W) at 6 Ω (10% THD)

Speakers/Impedance: 6 Ω - 16 Ω

Audio input LINE IN: 500 mV/47 kΩ (at "LINE IN LVL1")
250 mV/47 kΩ (at "LINE IN LVL2")
125 mV/47 kΩ (at "LINE IN LVL3")

Audio output LINE OUT: 1.0 Vrms (47 kΩ) (at "LINE OUT LVL1")
2.0 Vrms (47 kΩ) (at "LINE OUT LVL2")
USB MEMORY

Digital input:

Tuner section

FM tuning range: 87.50 MHz - 108.00 MHz

AM (MW) tuning range: 522 kHz - 1 629 kHz

CD player section

Dynamic range: 88 dB

Signal-to-noise ratio: 85 dB

Wow and flutter: Immeasurable

USB storage

USB specification: Compatible with USB 2.0 Full Speed

Compatible device: Mass storage class

Compatible file system: FAT16, FAT32

Bus power supply: Max. 500 mA

Speakers

Speaker units: 10 cm cone x 1

Impedance: 6 Ω

Dimensions (approx.): 145 mm x 251 mm x 162 mm (W/H/D)

Mass (approx.): 1.6 kg each

General

Power requirements: AC 230 V ~, 50 Hz

Power supply to USB mass storage class device: 5 V/500 mA

Power consumption: 22 W (power on)

3.0 W (standby mode)

1.5 W or less (Save Mode)

Dimensions (W x H x D): 175 mm x 251 mm x 247 mm

Mass: 2.6 kg

Specifications and appearance are subject to change without prior notice.