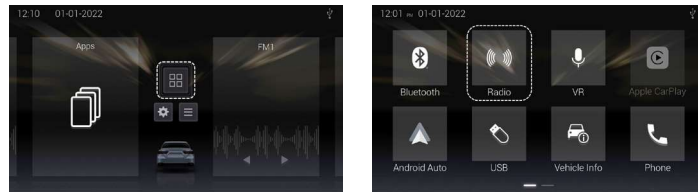
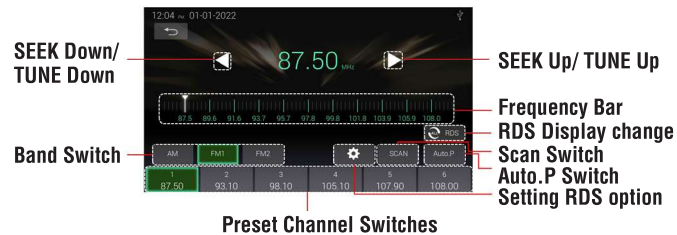


# Radio

Enter the radio screen by touching the Radio button on the home screen or menu screen (➔ Page 7).



## ● Radio Operation Screen



### Note

- The RDS display change button may not appear on radio screen depending on country.

- Select the band on the radio screen to switch the radio band as follows (default is FM1).

**AM** Switch to AM band

**FM1** Switch to FM1 band

**FM2** Switch to FM2 band

- The RDS option can be set by pressing the button below.

Switch to setting RDS

- The content shown on the RDS display can be changed or switched by pressing the button below.

Switch to Setting RDS Display change

## 1 Selecting a Station

Tune to the desired station using one of the following methods.



### ● Preset Tuning

Touch one of the preset channel switches to select it. The switch is highlighted and the station frequency is displayed on the screen.

### ● Manual Tuning

- (1) Touch the frequency scale or drag frequency bar to find the radio station you want to listen to.
- (2) Press to manually tune up or down.

### ● Seek Tuning

The radio will begin seeking the nearest frequency for a station and will stop when a station is found.

Press and hold to fast seek up or down.

### ● SCAN

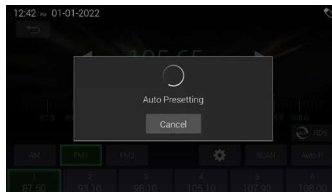
Touch the **SCAN** switch to search for radio stations and play each station for 5 seconds each. Touch the **SCAN** switch while the desired station is playing to stop the scan and remain on the station.



### Notes

- 6 stations with strong signals are stored in memory.
- To undo auto preset operations and clear the preset memory, touch **Auto.P** during or after you operate auto preset.
- During auto preset operations, "Auto Presetting" will be displayed on the screen.
- If all signals are weak and no stations have been preset, settings reverts to the previously set stations.

## 2 Presetting Stations



To automatically store stations in memory, touch and hold the **Auto.P** switch until you hear a beep.

- Once the operation is completed, stations are stored in the preset switches. (Auto Preset)
- The preset switches enable you to quickly select a desired station.

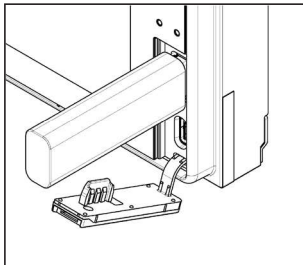
## 3 Manual Preset



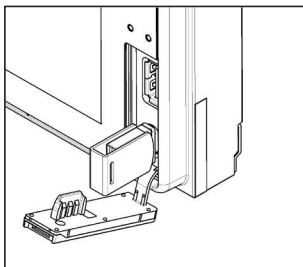
- (1) Tune to the desired station.
  - (2) Touch and hold one of the channel selector switches (1-6) until a beep is heard. This sets the preset frequency to the screen switch. The station's frequency is displayed on the screen switch.
- To change the preset station, follow the same procedure.

# USB Memory Devices

## ● Connecting a USB Memory Device



Open the cover and connect a USB memory device.



### Notes

- Refer to “Controls Layout” (⇒ Page 2) for details on how to connect devices.
- Cannot be connected via a USB hub or portable HDD.
- Refer to “Media and Data Compatible with the Audio System” for details on supported file formats (⇒ Page 102).
- Music and video files that are not described in the “Media and Data Compatible with the Audio System” (⇒ Page 102) cannot be played.

## USB Memory Device Operation Screen

### ● USB Music Screen

Labels for USB Music Screen:

- Track Number
- Artwork
- Play/Pause Switch
- List Switch
- Mode Change Switch
- Track Down/Up Switch
- Select USB Device
- Title of Current Source
- Folder Name, Track Name, Artist Name
- Playing Time/Time Bar
- Shuffle Switch
- Repeat Switch

### ● USB Video Screen

Labels for USB Video Screen:

- Folder Name, Track Name, Artist Name, Track Number
- Play/Pause Switch
- List Switch
- Mode Change Switch
- Wide Mode Switch
- Track Down/Up Switch
- Switch to Choose USB Page
- Playing Time/Time Bar
- Random Switch
- Repeat Switch

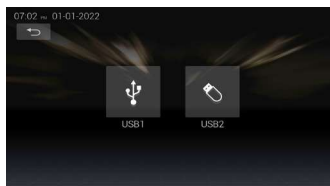
## 1 Playing Media from a USB Memory Device



- (1) Touch **Menu** on the home screen (➔ Page 7).
  - The audio system turns on in the mode you last used.



- (2) Touch **USB** on the menu screen.



- (3) Choose USB 1 or USB 2 (whichever you are currently using).



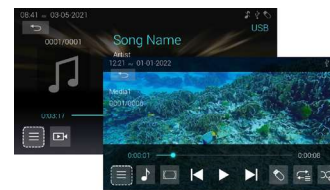
- (4) Touch **Menu** on the USB-Music operation screen to change to the USB-Video operation screen.

Touch **Video** on the USB-Video operation screen to change to the USB-Music operation screen.

## 2 Playing Media from a USB Memory Device

Any folder can be selected from a USB memory device.

### ● Selecting on the Folder/File List Screen



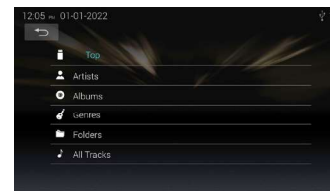
- (1) Touch **Menu** on the USB-Music operation screen or the USB-Video operation screen.

USB-Music Function

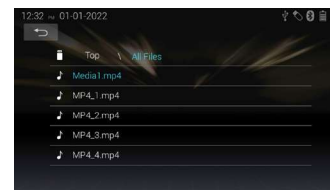
- The category list screen is displayed.

USB-Video Function

- The folder list screen is displayed.



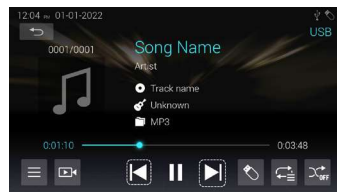
- (2) Select a file to play from the list.
  - USB-Music Function
    - Touch the desired category.
      1. All Tracks – Displays all files stored in the USB memory device.
      2. Genres – Displays files sorted by genre.
      3. Artists – Displays files sorted by artist name.
      4. Album – Displays files sorted by album name.
      5. Folders – Displays folders.



USB-Video Function

- Touch the desired folder list.

### ● Selecting With the Touch Switches

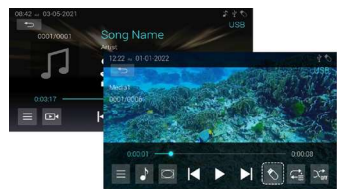


Touch the switches.

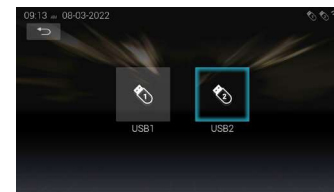
- Touch the switch to go to the next file.
- Touch the switch to go to the start of file.
- Touch the switch to go to the previous file if the playback time of the current file is less than 1 second.



### ● Switching the USB Memory Device



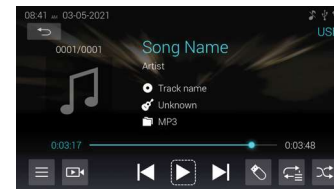
- (1) Touch on the USB icon screen to go to the page where you can change the USB memory device.



- (2) Choose USB 1 or USB 2 (whichever you are currently using).

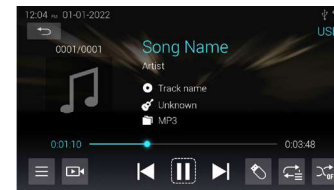
## 3 Pause and Playback

### ● Playback



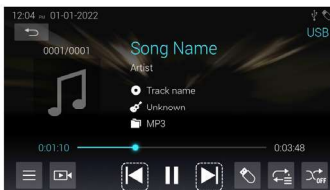
- Touch on the USB memory device operation screen (⇒ Page 15).
- The screen displays while playing.

### ● Pause



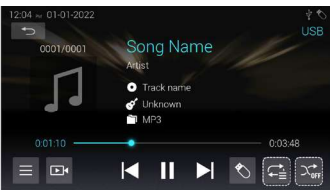
- Touch on the USB memory device operation screen (⇒ Page 15).
- The screen displays while paused.
  - Touch for playback.

#### 4 Fast-Forwarding and Rewinding



- Touch the switches.
- Hold the switch to fast-forward.
  - Hold the switch to rewind.

#### 5 Shuffle and Repeat



- Touch the [Shuffle] or [Repeat] switches on USB-Music operation screen or USB-Video operation screen.
- The [Shuffle] and [Repeat] switches change as shown in the table on the right.



#### Notes

- **Repeat Operation :**  
[Repeat List] → [Repeat 1 File] → (back to) [Repeat List].
- **Random Operation :**  
[Random OFF] → [Random ON] → (back to) [Random OFF].

Switch	Name	Function
	Shuffle OFF	Disables random playback and plays normally.
	Shuffle ON	Plays back files in random order within the selected repeat play range.
	Repeat 1 File	Repeats the current file only.
	Repeat List	Repeats all the files in the current list.

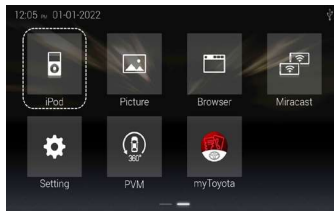
#### 6 Wide Mode Switching

Switch	Name	Function
	Full (default)	Stretches the video evenly across the entire screen.
	Normal	Displays video in its original aspect ratio, fitting to width or height.
	Zoom	Stretches the video in its original aspect ratio until the video fills the entire screen. Some parts of the picture may be cropped.

# iPod Operation

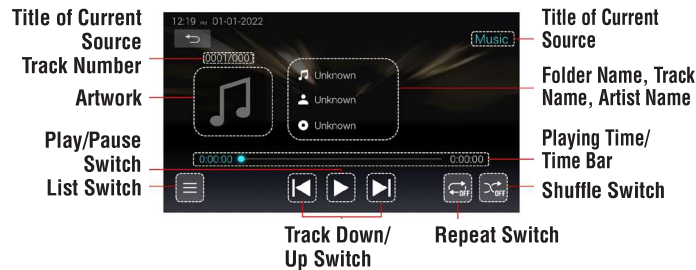


(1) Touch **Menu** on the home screen (➔ Page 7).



(2) Touch **iPod** on the media screen.

## ● iPod Operation Screen



## Notes

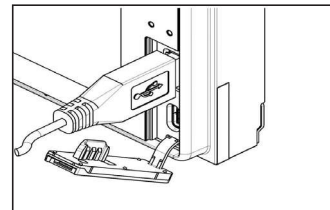
- This system has a function for charging iPods.
- When the battery level of an iPod is very low, the iPod may not operate. If so, charge the iPod before use.
- Depending on the iPod that is connected to the system, certain functions may not be available. If a function is unavailable due to a malfunction, disconnecting the iPod and reconnecting it may resolve the problem.
- Only one iPod can be used at a time. Two devices cannot be used simultaneously.



## Caution

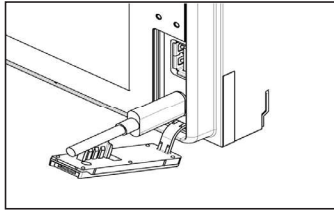
- Do not connect an iPod or operate the device controls while driving.
- Do not leave the iPod in the car. In particular, high temperatures inside the vehicle may damage the iPod.
- Do not push down on or apply unnecessary pressure to the iPod while it is connected as this may damage the iPod or its terminal.
- Do not insert foreign objects into the USB port as this may damage the iPod or its terminal.

## 1 Connecting an iPod



Connect a standard iPod cable to the USB terminal.

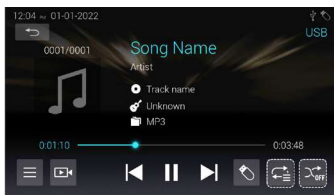
- Turn on the power of the iPod if it is not turned on.
- Use a cable appropriate for your device to connect.



Connect a standard iPod cable to the USB type C terminal.

- Turn on the power of the iPod if it is not turned on.
- Use a cable appropriate for your device to connect.

## 2 Playing an iPod



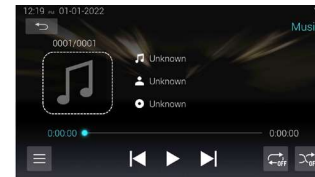
Switch	Name	Function
	Play	Touch to resume playback of music.
	Pause	Touch to pause the music.
	Next track/fast-forward	<ul style="list-style-type: none"> <li>– Touch to go to the next track.</li> <li>– Hold to fast-forward.</li> <li>– Playback resumes when the switch is released.</li> </ul>

Switch	Name	Function
	Back track/Rewind	<ul style="list-style-type: none"> <li>– Touch the switch to go to the start of the track.</li> <li>– Touch the switch to go to the previous song if playback time of the current song is less than 1 second.</li> <li>– Hold to rewind.</li> <li>– Playback resumes when the switch is released.</li> </ul>
	Repeat	Touch to repeat.
	Shuffle	Touch to shuffle.

### ● Selecting Music

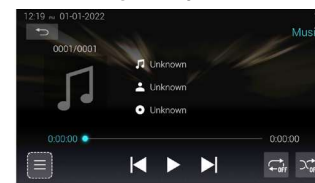
Touch the or switches to select the desired music.

### ● iPod Artwork



iPod artwork may be displayed on the screen depending on the iPod model and data stored on the iPod.

### ● Selecting a Play Mode or Category



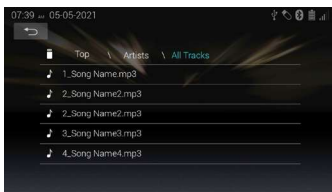
- (1) Touch on the iPod basic operation screen.





(2) The list within the selected play mode such as following

- Playlists – Displays files in playlists on the iPod.
- Artists – Displays files sorted by artist name.
- Albums – Displays files sorted by album name.
- Genres – Displays files sorted by genre.
- Songs – Displays files categorized as songs.
- Composers – Displays files sorted by composer.
- Audiobooks – Displays audiobook files.
- Podcasts – Displays podcast files.
- Apple Music Radio – Displays online radio.



(3) Select the desired song from the list.

- When a list is selected, the lists within the selected list are displayed. Continue selecting until a song list is displayed.
- Playback starts when a song is selected from the list.




## ● **Playing Repeat and Shuffle**

You can playback tracks using the repeat and shuffle playback modes.

### <Repeat Mode>

Automatically repeats playback of the current track.



- The repeat mode changes as follows each time the screen switch is touched.

Status	Meaning
	Disables repeat playback.
	Repeats all audio files in the current list.
	Repeats the current file only.

### <Shuffle Mode>

Automatically shuffles all of the tracks on the iPod.

- The shuffle mode changes as follows each time the screen switch is touched.

Status	Meaning
	Disables random playback and plays the files in order.
	Plays back all files in the current list in random order.



### Notes

- **Repeat Operation :**  
[Repeat Off] → [Repeat All] → [Repeat 1 File] (back to) [Repeat Off].
- **Random Operation :**  
[Random OFF] → [Random ON] → (back to) [Random OFF].
- When a large number of songs are stored in an iPod, shuffle selection may take time.

## 3 iPod Compatible Models

Supported iPod models are shown below. This unit supports only the following iPod models. Older models can not be supported.

### Made for

- |                     |                  |
|---------------------|------------------|
| ● iPhone 13 pro Max | ● iPhone XS Max  |
| ● iPhone 13         | ● iPhone XS      |
| ● iPhone 13 Mini    | ● iPhone XR      |
| ● iPhone 12 pro Max | ● iPhone X       |
| ● iPhone 12         | ● iPhone 8 Plus  |
| ● iPhone 12 Mini    | ● iPhone 8       |
| ● iPhone 11 Pro Max | ● iPhone 7 Plus  |
| ● iPhone 11 Pro     | ● iPhone 7       |
| ● iPhone 11         | ● iPhone 6s Plus |
|                     | ● iPhone 6s      |
|                     | ● iPhone 6 Plus  |
|                     | ● iPhone 6       |



### Notes

- Please note that models listed to the left may not be usable with this unit due to individual differences such as the specific model or software version.
  - See the Apple website for details on how to update iPod software.
  - 5th generation and earlier iPods are not compatible with this unit.
  - iPad, iPod mini, iPod shuffle and iPod photo are not compatible with this unit.
  - This unit cannot playback video from an iPod.
  - This function depends on compatibility of the smartphone device, OS and version. The performance may differ and is not guaranteed.
  - See the latest compatibility information on the website:  
[http://microsite.panasonic.co.th/smartphone/2022model/compatible\\_models.html](http://microsite.panasonic.co.th/smartphone/2022model/compatible_models.html)
  - For some iPod models, performance may be abnormal or unstable during operation. In this case, disconnect the iPod, then check its condition. If performance does not improve or is slow, reset your iPod.
  - When the unit is on, the iPod is charged through the unit.
  - Text may not be displayed correctly.
- \* Operation has been checked with software available as of the end of June 2022. We do not guarantee operation with our future products or upgraded software.

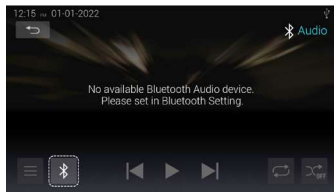
# Connecting a Bluetooth® Device

## Connecting a Bluetooth® Device

To use the Bluetooth® audio system, you need to register your portable audio player to the system. Once you have registered it, you can enjoy your music on the vehicle's audio system. Procedure is disabled while driving.

### ● When a Bluetooth® Device is not Registered

If you have not yet registered a Bluetooth® device, you must first register it according to the following procedure.



(1) Touch the Bluetooth® symbol.



(2) Touch [Add Device] to connect to a Bluetooth® device.  
● [Add Device] cannot be selected while driving. Please stop driving and ensure that the parking brake is on.

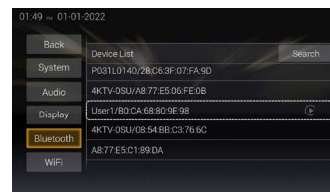


(3) Two registration methods are available:  
● Search for nearby Bluetooth® devices.  
● Pair from your Bluetooth® device.

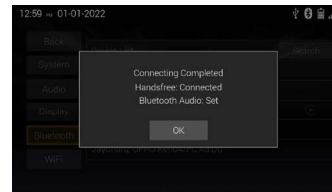
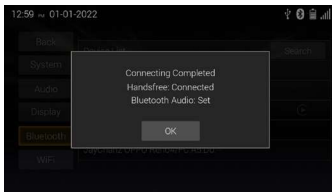
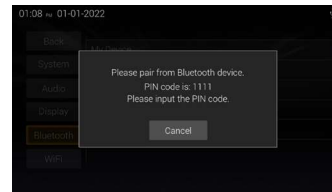
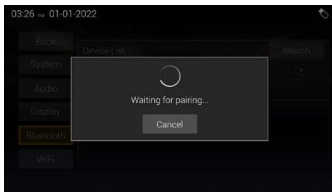
### ● Searching for Nearby Bluetooth® Devices.



(1) Activate Bluetooth® on your device.  
(2) Touch [Add Device].  
(3) Touch [Search Device]. The system searches for Bluetooth® devices waiting for connection and displays them in the list if a device is found.



(4) Touch the name of the Bluetooth® device you want to register. While connecting, "Waiting for pairing ..." is displayed.



(5) Touch **OK** to pair the the device. When "Connecting completed" is displayed, Touch **OK** .

### ● Pairing From Your Bluetooth® Device



- (1) Activate Bluetooth® on your device.
- (2) Touch [Add Device].
- (3) Use the Bluetooth® setting in the device to pair this product with the device.

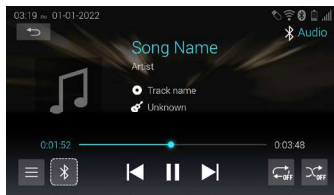


### Notes

- The system searches for available Bluetooth® devices near this product, displays them in a list, and registers them for connection.
- This function is only available when the Bluetooth® function is turned on.
- Up to 30 devices are listed in the order that the devices are found.
- If the device name cannot be obtained, only the MAC address is displayed.
- If the Bluetooth® device you want to connect this product with cannot be found, check if the device is on standby or if the device is visible on the Bluetooth® connection.
- Perform the procedure from step 1 again.
- If your device supports SSP (Secure Simple Pairing), a six-digit number appears on the display of this product. Touch **OK** on the screen of this product, and accept the pairing request on the device to pair with the device.
- If "Pairing failed" is displayed, try again from the beginning.
- If Bluetooth® and WiFi cannot auto re-connect. please re-connect manually. refer pairing Bluetooth® and WiFi connection.

### ● When a Bluetooth® Device is Registered

If you have registered some Bluetooth® devices, you can change the device connected or add a new device.



- (1) Touch the Bluetooth® symbol.
  - You can add up to 5 devices.
  - Only one device can be connected at a time.



- (2) The Paired Device List will show on the display and the Select Phone screen is shown.



- (3) Touch the name of the Bluetooth® device.



- (4) Touch the function you want to use to place a tick mark.

- Handsfree – Enables use of hands-free phoning via HFP (Hands-Free Profile).
- Bluetooth® Audio – Enables use of the Bluetooth® audio player A2DP (Advanced Audio Distribution Profile)/AVRCP (Audio/Video Remote Control Profile).



- (5) Slide the setting key for [Auto Phonebook Transfer] to the desired position (On/Off) and touch **OK**.

### ● Bluetooth® Settings Screen

To change Bluetooth® settings, see “Bluetooth® Settings” (➔ Page 69).

# Bluetooth® Audio Operation

## ● Bluetooth®

The Bluetooth® audio system enables users to enjoy music played on a portable player from the vehicle speakers via wireless communication.

This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your portable player does not support Bluetooth®, the Bluetooth® audio system will not function.



**Caution**

- Do not operate the player's controls or connect to the Bluetooth® audio system while driving.
- Do not leave your portable audio player in the car. In particular, high temperatures inside the vehicle may damage the portable audio player.
- Connecting to Bluetooth® is disabled while driving.



## Notes

- In the following conditions, the system may not function.
  - The portable audio player is turned off.
  - The portable audio player is not connected.
  - The portable audio player has a low battery.
- Depending on the portable audio player that is connected to the system, certain functions may not be available.
- It may take time when connecting with Bluetooth®.
- Some Bluetooth® devices (Below Bluetooth® 2.0) may not connect to this unit depending on the Bluetooth® version of the device.
- This unit may not work for some Bluetooth® devices.
- Connection conditions may vary depending on your environment.

- Portable audio players must correspond to the following specifications in order to be connected to the Bluetooth® audio system. However, please note that some functions may be limited depending on the type of portable audio player.

Bluetooth® Specifications  
(Recommended: Ver 5.0)

Profile

A2DP (Ver. 1.2 or higher) (Advanced Audio Distribution Profile)

This is a profile to transmit stereo audio or high quality sounds to headphones. AVRCP (Audio/Video Remote Control Profile) Ver 1.6 or higher (Recommended: Ver 1.6 or higher)

This is a profile for remote control of A/V equipment.



**Caution**

- The frequency bands in which the unit is used are also utilized by chemical/medical equipment and devices such as microwave ovens, in-premises wireless stations for identifying mobile equipment used in a plant production line (wireless stations requiring a license), specified low-power wireless stations (wireless stations not requiring a license), and amateur wireless stations (wireless stations requiring a license) (the aforementioned 3 types of wireless stations are hereinafter referred to as the "other wireless stations"). Before using the unit, be sure to verify that no "other wireless stations" are being used in the vicinity of the unit. In the event that the unit causes harmful interference to the "other wireless stations", move promptly to a position where this harmful interference is avoided.
- The unit is used at a frequency of 2.4 GHz.
- The FH-SS modulation technique is adopted.
- The interference distance is hypothesised to be not more than 10 m.
- The unit is able to be used across all frequency bands which ensures the bandwidth of mobile equipment identifiers can be avoided.
- This telecommunication equipment conforms to NTC technical requirements.

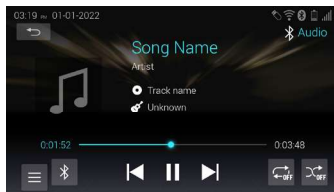
## 1 Switching to Bluetooth® Audio Mode



- (1) Touch **Menu** on the home screen (➔ Page 7).
  - The audio system turns on in the mode you last used.



- (2) Touch **Bluetooth** on the menu screen.



- (3) The BT audio screen (Bluetooth® audio basic operation screen) displays when Bluetooth® audio is connected.

## 2 Connecting a Bluetooth® Audio Player

To use the Bluetooth® audio system, you need to register your portable audio player to the system. Once you have registered it, you can enjoy your music on the vehicle's audio system. This procedure is disabled while driving.

### ● When a Bluetooth® Device is not Registered

If you have not yet registered a Bluetooth® device, you must first register it according to the following procedure (➔ Page 23).

### ● When a Bluetooth® Device is Registered

If you have registered some Bluetooth® devices, you can change the device connected or add a new device (➔ Page 25).