

Automotive Infotainment TAS700 BRA (C-Plat & B-Plat)

OWNER MANUAL

HARMAN INTERNATIONAL INC.

Audio System

This manual describes operation for the product:

Brand Name: **HARMAN**

Model Name: **TAS700 BRA**

Variants: **C-PLAT / B-PLAT**

This device is intended to be installed in a passenger vehicle and powered by the vehicle's main battery. The device is an original equipment manufacturer (OEM) application and is installed by the OEM during vehicle assembly. Device is not available by normal means in the consumer market. Power harness is supplied by the vehicle manufacturer. This device is a centralized control console integrating USB, radio tuner receiver, GPS receiver and navigation system, Bluetooth radio for connecting to mobile phones with Bluetooth capability and WLAN functionality for connecting with an access point for the purposes of downloading software/firmware updates to the device itself. The USB connector on the device is intended to be used for software/firmware updates to the device but also for communicating with and powering consumer-grade USB devices, such as mobile phones, etc. The device does integrate a 10" display with a resolution of 1280x720.

The device has a connection to one external antenna for RF. This Antenna is defined and designed by OEM. Device supports the following broadcast technologies:

- AM - North America/Brazil/South America (530 KHz-1710KHz)
Channel spacing: 10 kHz
Number of channels: 119
- FM - (76 MHz-108 MHz)
Channel spacing: 100 kHz
Number of channels: 321

Audio System

Technical Specification

	MIN	NOMINAL	MAX
Rated Voltage	-	12 VDC	-
Operational Voltage	8.5 VDC	12 VDCC	16 VDC
Temperate Range	-30 °C	-	65 °C
Consumption Current	0.5 A	4 A	12 A
Weight C-CAR B-CAR	2044.7g 2078.4g		
Dimensions HxWxL C-CAR B-CAR	H*W*L : 165.96 * 279.15 * 166.1 H*W*L : 155 * 274.9 * 163		

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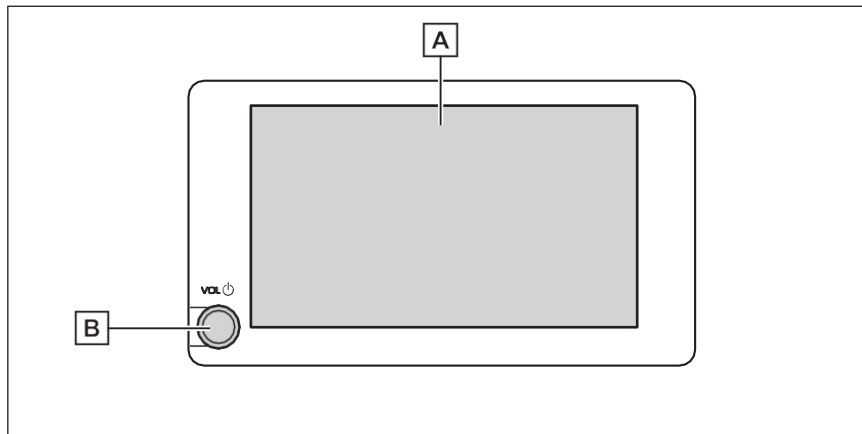
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Audio System

Display and control



- A** Display
Operate the touch screen by directly touching it.
- B** [VOL ] knob
Turn the audio on/off and adjust the volume.

Audio System

INFORMATION

- The LCD screen may appear washed out or dark depending on the surrounding environment or angle it is viewed.
- The screen may be difficult to see if sunlight or other external light hits the screen.
- The screen may appear dark or hard to see if you wear polarized sunglasses.

WARNING

For safety, the driver should operate the display as little as possible while driving and should stop the vehicle to operate the display. Operating the display while driving is dangerous such as mistakenly turning the steering wheel or other unforeseen accidents. Additionally, look at the display only as necessary and as briefly as possible when driving the vehicle.

NOTICE

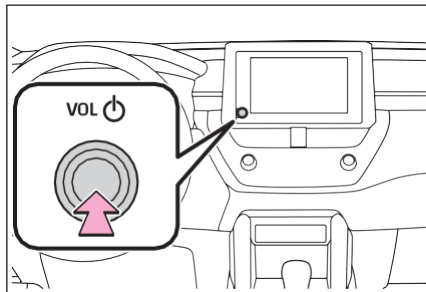
Do not use the display for long periods of time with the engine <hybrid system> turned off. Doing so may deplete the 12-volt battery.

Audio System

Restarting the system

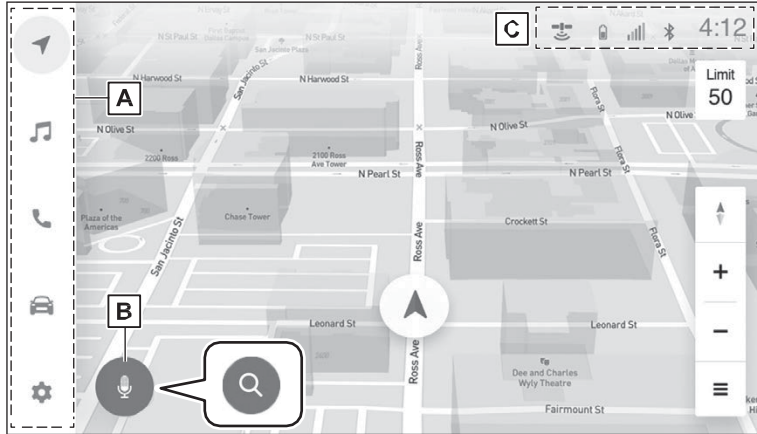
When the system response is extremely slow, you can restart the system.

- Press and hold the [VOL ] knob for at least 3 seconds.



Audio System

Multimedia screen overview



A Main menu
Changes the function to be displayed on the screen when an icon is touched.

B Voice search button
Displays the voice control screen enabling verbal operation of the navigation, audio and various other functions. The button will change depending on the situation.

Audio System



: While driving



: When stopped



Status icons

The clock and icons with information about communication statuses are displayed at the top of the screen.

Main menu

The function to be displayed on the screen can be changed by touching an icon.



: Apple CarPlay®

Displays the Apple CarPlay screen.



: Android Auto™

Displays the Android Auto screen.



: Navigation

Displays the map screen. The navigation system can be operated to search for a destination or perform other navigation system-related tasks.



: Audio

Displays the audio control screen. The desired source can be selected to play audio.



Audio System



: Phone

Displays the phone screen. A cellular phone connected via Blue- tooth® can be used to make hands-free phone calls.



: Vehicle information*¹

Displays the vehicle information screen.



: Settings

Displays the settings screen. Multimedia system and vehicle equipment related settings can be changed.



INFORMATION

The Apple CarPlay/Android Auto icons are displayed when a supported device connects to the system and the applicable function is enabled.

Audio System

Audio system

Listening to the radio

Switch to your preferred frequency or service and listen to the radio.

INFORMATION

- The radio automatically blends to an HD Radio™ signal in AM or FM where available. The radio automatically changes to stereo reception when a stereo broadcast is received.
- Radio mode has a mix preset function, which can store up to 20 stations from any of the AM/FM and SiriusXM bands.
- If you navigate to another radio station while playing radio, the play-back screen is minimized. Touching the minimized playback screen restores the playback screen to its original size.

1. Touch [] on the main menu.

2. Touch [Sources].

3. Touch [Radio].

4. Select the station selection method or service as necessary.

[Favorites] : Select a broadcasting station from those registered as favorites.

[Tune] : Select the broadcasting station by entering a frequency with the numeric keypad.

[FM Radio] : Switches to FM mode. The FM station list, the 3 most recently listened stations, and the receivable FM broadcasting stations are displayed.

Audio System

[AM Radio] : Switches to AM mode. The AM station list, the 3 most recently listened stations, and the receivable AM broadcasting stations are displayed.

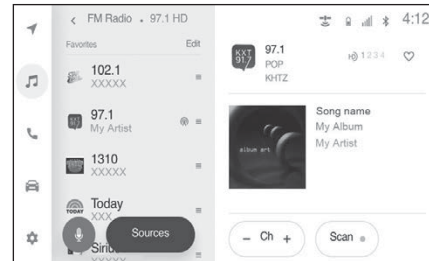
[SiriusXM]^{*1} : Switches to SiriusXM Radio mode.

Displays **[For you]** and contents/Super Categories/**[All channels]/ [Listening History]**.

5. **Select the broadcasting station from the station list or genre.**
6. **Operate the radio that is being received as necessary.**
 - Operating AM/FM/HD radio from the screen

[Ch] : [**−**]/[**+**] to search for the receivable broadcasting stations.

Touch and hold to jump to the next frequency with available radio signal. When released, the broadcasting station closest to that position with the best reception sensitivity is selected automatically. **[Scan]** :



- AM/FM : SEEK UP and output the audio of the detected station for 10 sec. This is repeated.
- HD : SEEK UP and output the audio of the HD station that includes the detected SPS for 10 sec. This is repeated.

[H 1 2 3] : Displayed when Multicast CH is supported in FM mode. Touch to display the SPS channel list. The mode can be changed to the displayed SPS channel list.

Audio System



[] : Registers the currently received broadcasting station in favorites. When registered, touch to cancel.

Preset buttons of submenu : Receives the registered broadcasting station.

● Operating SiriusXM Radio from the screen*¹

[Ch] : []/[] to search for the receivable channels.

Touch and hold to jump to the next frequency with available radio signal. When released, the current channel is received.



[]/[] : Fast rewind or fast forward the radio cache.



Touch and hold to jump to the start or end of the buffer. [] : Pause the radio cache.

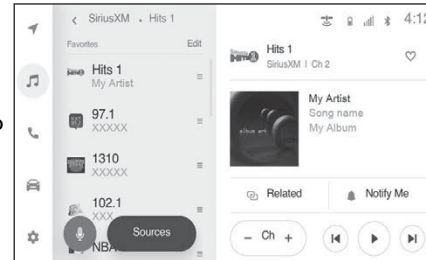
*¹ : This function is not available in some countries or areas.



[] : Play the radio cache.

[**Related**] : Displays content related to the received channel.

[**Notify me**] : Select an artist or song, or both an artist and song, to receive a notification when the corresponding broadcast starts.



Audio System

(When receiving a regular channel) Select a sports team to receive a notification when the corresponding broadcast starts. (When receiving a sport channel)

[] : Registers the currently received channel in favorites. When registered, touch to cancel.

Preset buttons of submenu : Receives the registered channel.

- Operating with the steering switches

[]/[] switches

- AM/FM/HD radio

Switch the frequencies or broadcasting stations registered in the preset buttons in order.

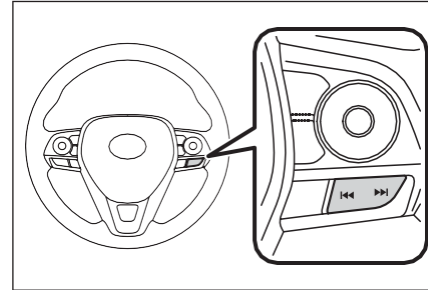
Press and hold to switch frequencies. When released, the broadcasting

station closest to that position with the best reception sensitivity is selected automatically.

- SiriusXM Radio

Switch the channels registered in the preset buttons in order.

Press and hold to switch channels. When released, the channel closest to that position with the best reception sensitivity is selected automatically.



Audio System

Troubleshooting guide

Experience	Cause	Action
Mismatch of time alignment- a user may hear a short period of programming replayed or an echo, stutter or skip.	The radio stations analog and digital volume is not properly aligned or the station is in ballgame mode.	None, radio broadcast issue. A user can contact the radio station.
Sound fades, blending in and out.	Radio is shifting between analog and digital audio.	Reception issue, may clear up as the vehicle continues to be driven. Turning the indicator of the [HD Radio AM] and [HD Radio FM] button off can force radio in an analog audio.
Audio mute condition when an HD2/HD3 multicast channel had been	The radio does not have access to digital signals at the moment.	This is normal behavior, wait until the digital signal returns. If out of the coverage area, seek a new station.

Audio System

playing.		
Audio mute delay when selecting an HD2/HD3 multicast channel preset.	The digital multicast content is not available until HD Radio™ broadcast can be decoded and make the audio available. This takes up to 7 seconds.	This is normal behavior, wait for the audio to become available.
Text information does not match the present song audio.	Data service issue by the radio broadcaster.	Broadcaster should be notified. Complete the form: https://hdradio.com/stations/feedback/ .
No text information shown for the present selected frequency.	Data service issue by the radio broadcaster.	Broadcaster should be notified. Complete the form: https://hdradio.com/stations/feedback/ .

Audio System

When problems occur with the SiriusXM Radio tuner, a message will appear on the screen. Referring to the table below to identify the problem, take the suggested corrective action.

Message	Explanation
"SAT Antenna Error"	The SiriusXM Radio antenna is not connected. Check whether the SiriusXM Radio antenna cable is attached securely. Contact your Toyota certified dealer for assistance.
	A short circuit occurs in the antenna or the surrounding antenna cable. Contact your Toyota certified dealer for assistance.
"No Satellite Signal"	The SiriusXM Radio signal is too weak at the current location. Wait until your vehicle reaches a location with a stronger signal.
"Channel not available"	The channel you selected is not broadcasting any programming. Select another channel.
"SAT Hardware Error"	This indicates a problem in the SiriusXM Radio module. Contact your Toyota certified dealer for assistance.

Audio System

"Something went wrong"	Please try another channel.
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USB Flash drive operation

Precautions for playback of USB flash drive

Pay special attention to the following information about playing a USB flash drive.

Refer to ["Information about media that can be used"](#) for the USB memory devices that can be used by the multimedia system.

Audio System

INFORMATION

- When a USB hub is used to connect multiple devices, devices other than the first device to be recognized cannot be used.
- Removing a USB flash drive or disconnecting a connected device during playback may cause noise to be output.
- When a USB flash drive is connected and the source is switched from another source to the USB flash drive, the first file on the drive is played. If the same USB flash drive (without its contents changed) is inserted again, playback will be started from the previously played song.
- Reading a file in an unsupported format may affect operations.

WARNING

For safety reasons, the driver should not operate the USB flash drive while driving.

Audio System

- Do not leave a USB flash drive inside the vehicle. The inside of the vehicle can become hot, which could cause the USB flash drive to malfunction.
- Do not push down on or subject the connected USB flash drive to unnecessary pressure. The USB flash drive or port may be damaged.
- Keep the port free of foreign matter. The USB flash drive or port may be damaged.

Playback of MP3/WMA/AAC/WAV/FLAC/ALAC/Ogg Vorbis When a USB flash drive storing MP3/WMA/AAC/WAV/FLAC/ALAC/Ogg Vorbis files is connected, first all the files on the USB

flash drive are checked.

It is recommended that no files other than MP3/WMA/AAC/WAV/FLAC/ALAC/Ogg Vorbis files and no unnecessary folders are written onto the USB flash drive. This ensures that the USB flash drive check finishes quickly.



INFORMATION

Many types of encoder software, such as freeware, are available in the market for MP3/WMA/AAC/WAV/FLAC/ALAC/Ogg Vorbis. Depending on the encoder condition or file format, audio quality deterioration or noise at playback start may occur, or playback may not be possible.

Audio System

NOTICE

Do not add an incorrect extension to a file. Adding an extension to a file that does not match the file contents may result in files being incorrectly recognized and played. This will output a loud noise that may damage the speakers.

Incorrect examples:

- Adding the ".mp3" extension to a file that is not MP3
- Adding the ".wma" extension to a file that is not WMA

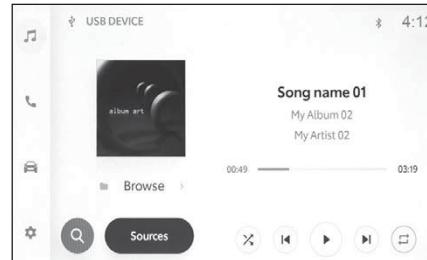
Playing music files on a USB flash drive

Play music files on a USB flash drive connected to the USB port to enjoy music. When a USB flash drive is connected, a switch with the device's name is displayed on the source selection screen. This may not be displayed for some devices.

Connect the USB flash drive.

1. Touch [] on the main menu.
2. Touch [Sources].
3. Touch the device name or [USB].
4. Operate the USB flash drive that is playing as necessary.
5. Operating from the screen

[] : Performs random playback.



Audio System

Each time this is touched, the mode switches between random playback for all files or tracks, random playback canceled, and random playback of the currently playing folder or album.

[] : Plays the currently playing file or track from the beginning. When at the start of the file or track, the previous file or track will play from the beginning.

Touch and hold to fast rewind. Release to start playback from that position.

[] : Pauses playback.

[] : Plays.

[] : Switches the files or tracks.

Touch and hold to fast forward. Release to start playback from that position.

[] : Performs repeat playback.

Each time this is touched, the mode switches in order from repeat the currently playing file or track, repeat playback of the currently playing folder or album, and repeat playback of all files or tracks.

[Browse] : Displays the playback mode in the submenu.

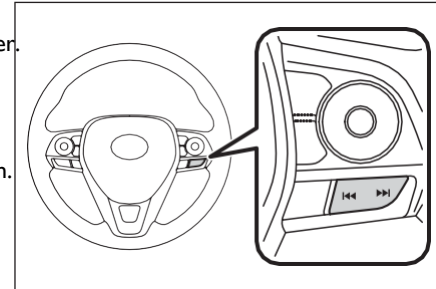
Tracks can be selected from a list sorted by artist, album, folder, song, genre, or composer.

Operating with the steering switches

[]/[] switches

Switch the files or tracks.

Press and hold to fast rewind or fast forward. Release to start playback from that position.



iPod/iPhone operation

Precautions for playback of iPod/iPhone

Pay special attention to the following information about playing iPod/ iPhone.

Refer to “iPhone/iPod” for the iPod/iPhone that can be used by the multimedia system.



INFORMATION

- When a USB hub is used to connect multiple devices, devices other than the first device to be recognized cannot be used.
- Disconnecting a port or disconnecting a connected device while in iPod/iPhone mode may cause noise to be output.
- When switching from a different source to an iPod/iPhone while the iPod/iPhone is connected, playback will be started from the previously played track.*¹

WARNING

For safety reasons, the driver should not operate the iPod/iPhone while driving.

Audio System

- Do not leave the iPod/iPhone inside the vehicle. The inside of the vehicle can become hot, which could cause the iPod/iPhone to malfunction.
- Do not push down on or subject the connected iPod/iPhone to unnecessary pressure. The iPod/iPhone, or the port, may be damaged.
- Keep the port free of foreign matter. The iPod/iPhone or the port may be damaged.

Playing iPod/iPhone

Play back music files on an iPod or iPhone connected to the USB port. When an iPod or iPhone is connected, a switch with the device's name is displayed on the source selection screen. This may not be displayed for some devices.

INFORMATION

Audio System

- Depending on the generation and model of iPod or iPhone that is connected, the cover art image may look grainy or display of the list scroll may be slow.
- Some operations may not be available or they may operate differently, depending on the generation and model of iPod/iPhone that is connected.

Connect an iPod or iPhone.

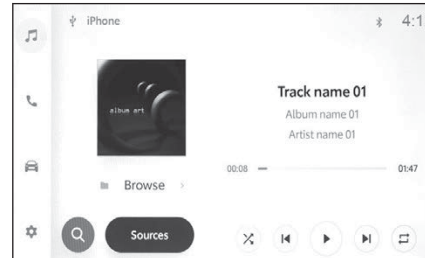
1. Touch [] on the main menu.
2. Touch [Sources].
3. Touch the device name or [USB].

Operate the iPod or iPhone that is playing as necessary.

Perform operations from the screen

[] : Performs shuffle play- back.
Each touch switches the shuffle setting.*1

[] : Plays the currently playing track from the beginning.
When at the start of the track, the previous track will play from the beginning.
Touch and hold to fast rewind. Release to start playback from that position.



Audio System



[] : Pauses playback.



[] : Plays.



[] : Switches the tracks.

Touch and hold to fast forward. Release to start playback from that position.



[] : Performs repeat playback.

Each touch switches the repeat setting.*|

[Browse] : Displays the playback mode in the submenu.

Tracks can be selected from a list sorted by artist, album, song, playlist, genre, composer, Podcast, Audiobook, or Radio.

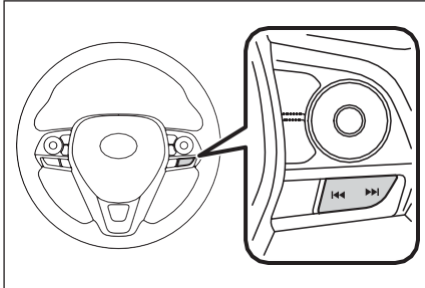
[Shuffle play] is displayed when playing a track selected from the list. Touch this to return to the playback screen and perform shuffle playback.

Operating with the steering switches

[◀◀] / [▶▶] switches

Switch the tracks.

Press and hold to fast rewind or fast forward. Release to start playback from that position.



Apple CarPlay operation

Precautions for playback of Apple CarPlay

Pay special attention to the following information about playing Apple CarPlay.
This function is not available in some countries or areas.

INFORMATION

- This function cannot be used while Android Auto is connected.
- Disconnecting a connected device while Apple CarPlay is connected via USB may cause noise to be output.
- When a different source is switched to Apple CarPlay while an iPhone is connected, playback will be started from the previously played track.

WARNING

For safety reasons, the driver should not operate the iPhone while driving.

Audio System

- Do not leave the iPhone inside the vehicle. The inside of the vehicle can become hot, which could cause the iPhone to malfunction.
- Do not push down on or subject the connected iPhone to unnecessary pressure. The iPhone or port may be damaged.
- Keep the port free of foreign matter. The iPhone or port may be damaged.

Playing Apple CarPlay

Play music files on an iPhone connected to the USB port or a wirelessly connected iPhone. When Apple CarPlay is connected, a switch with the device's name is displayed on the source selection screen. This may not be displayed for some devices.



INFORMATION

- Some operations may not be available or they may operate differently, depending on the generation and model of iPhone that is connected.
- In cases such as the track not playing normally or audio skipping, update iOS to the latest version. Updating may resolve the issues.

Audio System

Connect Apple CarPlay.

1. Touch [🎵] on the main menu.
2. Touch [Sources].
3. Touch [Apple CarPlay] (device name).

Operate the Apple CarPlay that is playing as necessary.
Perform operations from the screen

[⏮] : Performs shuffle playback.
Each touch switches the shuffle setting.*|

[⏮] : Plays the currently playing track from the beginning.
When at the start of the track, the previous track will play from the beginning.
Touch and hold to fast rewind. Release to start playback from that position.

[⏮] : Pauses playback.

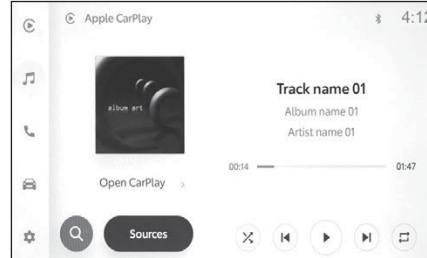
[▶] : Plays.

[⏮] : Switches the tracks.

Touch and hold to fast forward. Release to start playback from that position.

[⏮] : Performs repeat playback.
Each touch switches the repeat setting.*|

[Open CarPlay] : Displays the Apple CarPlay screen.



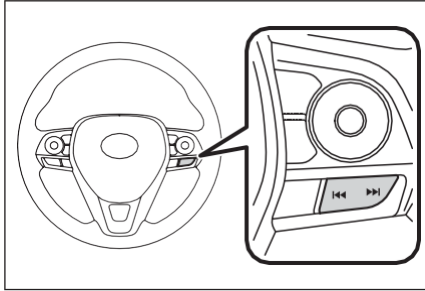
Audio System

Operating with the steering switches

[]/[] switches

Switch the tracks.

Press and hold to fast rewind or fast forward. Release to start playback from that position.



Android Auto operation

Precautions for playback of Android Auto

Pay special attention to the following information about playing Android Auto.

This function is not available in some countries or areas.



INFORMATION

Audio System

- This function cannot be used while Apple CarPlay is connected.
- Disconnecting a connected device while Android Auto is connected via USB may cause noise to be output.
- When a different source is switched to Android Auto while an Android device is connected, playback will be started from the previously played track.

WARNING

For safety reasons, the driver should not operate the Android device while driving.

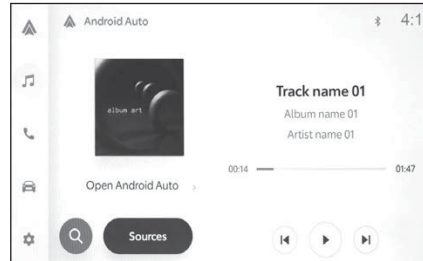
- Do not leave the Android device inside the vehicle. The inside of the vehicle can become hot, which could cause the Android device to malfunction.
- Do not push down on or subject the connected Android device to unnecessary pressure. The Android device or port may be damaged.
- Keep the port free of foreign matter. The Android device or port may be damaged.

Audio System

Play music files on an Android device connected to the USB port or a wirelessly connected Android device. When an Android device is connected, a switch with the device's name is displayed on the source selection screen. This may not be displayed for some devices. Connect Android Auto.

1. Touch [🎵] on the main menu.
2. Touch [Sources].
3. Touch [Android Auto] (device name).

Operate the Android Auto that is playing as necessary.



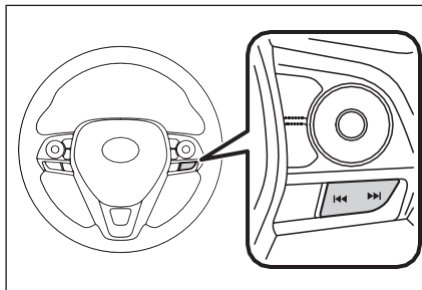
Operating from the screen

- [⏮] : Plays the currently playing track from the beginning. When at the start of the track, the previous track will play from the beginning.
- [⏸] : Pauses playback.
- [▶] : Plays.
- [⏭] : Switches the tracks.
- [Open Android Auto] : Displays the Android Auto screen.

Audio System

Operating with the steering switches

[]/[] switches
Switch the tracks.



Bluetooth audio operation

Precautions for Bluetooth® audio playback

Pay special attention to the following information when using Bluetooth® audio playback.

INFORMATION

Audio System

- Registration of the cellular phone or other Bluetooth® portable audio player (hereafter referred to as portable device) in the multimedia system is required before use.
- Please be aware that some functions may be limited depending on the model of portable device.
- Using simultaneously with a wireless device could negatively affect communication for each.

WARNING

- For safety reasons, the driver should not operate the portable device while driving.
- The vehicle antenna for Bluetooth® communication is built into the multimedia system.

People using electrical medical devices other than implantable cardiac pacemakers, implantable cardiac resynchronization therapy-pacemakers, or implantable cardioverter defibrillators should consult with their physician and the device manufacturer to determine whether electrical waves could adversely affect devices before use.

Audio System

- Do not leave the portable device inside the vehicle. The inside of the vehicle can become hot, which could cause the portable device to malfunction.
- Do not use a portable device near the multimedia system. Bringing it too close could cause sound or connection quality to deteriorate.

Playing Bluetooth audio

By connecting a portable device, the portable device can be used without operating it directly.

The following information may not be displayed depending on the connected portable device.

Folder title

Song name

Album name

Artist name

Playback time

Total time

Random

Repeat

Playback/pause

Track up/down

The following issues may occur depending on the connected device.

Operation cannot be performed from the multimedia system.

Audio System

Operation or volume is different.

The display of data such as song information or time may differ between the multimedia system and the portable device.

The connection may disconnect when playback stops.

When playing for a long time, the sound may skip.

The volume while connected may differ depending on the portable device.

A portable device can be connected to the multimedia system.

1. Touch [] on the main menu.
2. Touch [Sources].
3. Touch the device name or [Bluetooth].

Operate the Bluetooth® audio that is playing as necessary.

Operating from the screen

[] : Performs random playback.

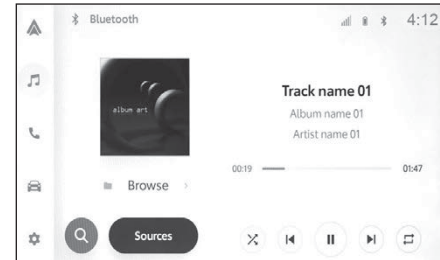
Each touch switches the random setting.*1

[] : Plays the currently playing track from the beginning. When at the start of the track, the previous track will play from the beginning.

Touch and hold to fast rewind. Release to start playback from that position.

[] : Pauses playback.

[] : Plays.



Audio System

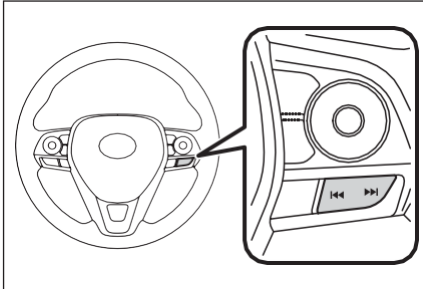
[] : Switches the tracks.
Touch and hold to fast forward. Release to start playback from that position.

[] : Performs repeat playback.
Each touch switches the repeat setting.*1

[Browse] : Displays the playback mode in the submenu. Tracks can be selected from a list.

Operating with the steering switches

[]/[] switches
Switch the tracks.
Press and hold to fast rewind or fast forward. Release to start playback from that position.



Audio System

Integrated Streaming

Playing Integrated Streaming

The Integrated Streaming can be listened via audio system. In order to use this function, the customer needs to download and install the Toyota app to mobile device first. Your music account must be linked in Toyota app.

Go to <https://www.toyota.com> for more information.

This function is not available in some countries or areas.

INFORMATION

- The available functions may vary depending on the music app.
- If you navigate to another Integrated Streaming screen while playing music, the playback screen is minimized. Selecting the minimized play- back screen restores the playback screen to its original size.
- The screen layout may vary depending on the music app.

1. Touch [] on the main menu.

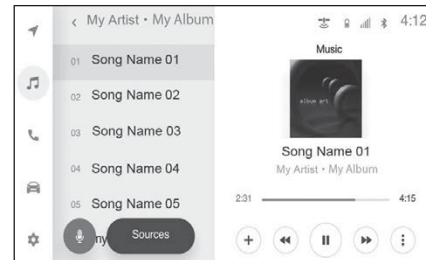
2. Touch [Sources].

Select the desired streaming music service name to display the playback screen.

As necessary, operate the following while playing music.

Screen operation

[] : Stores the current playing song to library.



Audio System

- []/[] : Switches the track.
Touch and hold to fast rewind/fast forward. Release to start playback from that position.
- [] : Stops the current playing music. [] : Pauses playback.
- [] : Plays.
- [] : Displays the menu. The selectable contents as follow:
- [] : Creates a station that play songs similar to current playing song.
- [] : Performs random playback. Tracks or albums can be automatically and randomly selected.
- [] : Performs repeat playback. Each time this is touched, the mode switches in order of playlist, single track, and off.
- [Love]/[Dislike] : Helps to personalize recommended content in music app's homepage to better match your preferences.
- Song name on submenu list : The current playing song can be changed by touching folder name or song name.

Appendix

Information about media and data

Information about media that can be used

The specifications of the media and other devices that can be used are as follows.

Formats and specifications of USB flash drives

Audio System

The formats and standards of the USB flash drives that can be used, and the restrictions for use, are as follows.

USB communication format	USB 2.0 HS (480MBPS)
File format	FAT 16/32
Communication class	Mass storage class
Maximum number of folders	3000 (including root)
Maximum number of folder levels	8
Maximum number of files	9999 (maximum of 255 files per folder)
Memory capacity	Up to 32 GB
Maximum size of one file	2GB

Files other than the formats above may not be played correctly, or information such as the file or folder name may not display correctly. Please understand in advance that this device may not be able to play your USB flash drive.

Depending on the computer used to save files on a USB flash drive, hidden files may be saved in addition to the playback files.

Deletion of such hidden files is recommended. They may have a negative effect during playback and prevent files from being switched correctly.

The specifications of the music data that can be used are as follows.

MP3

Audio System

Supported standard	MP3 (MPEG I LAYER 3, MPEG2 LSF LAYER 3)
Supported sampling frequency (kHz)	MPEG I LAYER 3:32, 44.1, 48 MPEG2 LSF LAYER 3:16, 22.05, 24
Supported bit rate (kbps)(1)	MPEG I LAYER 3:32~320 MPEG2 LSF LAYER 3:8~160
Supported channel mode	Stereo, joint stereo, dual channel, monaural
ID3 tag	ID3 Ver. 1.0, 1.1, 2.2, 2.3 (number of characters as specified by each version)

VBR (Variable Bit Rate) is supported.

WMA

Supported standard	WMA Ver. 7, 8, 9 (9.1, 9.2)
Supported sampling frequency (kHz)	32, 44.1, 48

Audio System

Supported bit rate (kbps) ⁽¹⁾⁽²⁾	Ver. 7, 8: CBR (Constant Bit Rate) 48 to 192 Ver. 9 (9.1/9.2): CBR 48 to 320
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VBR (Variable Bit Rate) is supported.

Multi-channel audio sources are converted to 2ch.

AAC

Supported standard ⁽¹⁾	MPEG4 AAC-LC	9 Appendix
Supported sampling frequency (kHz)	11.025, 12, 16, 22.05, 24, 32, 44.1, 48	
Supported bit rate (kbps) ⁽²⁾	8 to 320	
Supported channel mode ⁽³⁾	1ch (1/0), 2ch (2/0)	

ADIF is not supported.

VBR (Variable Bit Rate) is supported.

Dual channel is not supported.

WAV(LPCM)

Supported sampling frequency (kHz) ⁽¹⁾	8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, 192
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Audio System

Supported number of quantization bits (bit) ⁽²⁾	16/24
Supported channel mode	1ch (1/0), 2ch (2/0)

Audio sources higher than 96 kHz/24 bit are down-converted to 96 kHz/24 bit.

Multi-channel audio sources are converted to 2ch.

FLAC

Supported sampling frequency (kHz) ⁽¹⁾	8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96, 176.4, 192
Supported number of quantization bits (bit) ⁽²⁾	16/24

Audio sources higher than 96 kHz/24 bit are down-converted to 96 kHz/24 bit.

Multi-channel audio sources are converted to 2ch.

ALAC

Supported sampling frequency (kHz) ⁽¹⁾	8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 64, 88.2, 96
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Audio System

Supported number of quantization bits (bit) ⁽²⁾	16/24
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Audio sources higher than 96 kHz/24 bit are down-converted to 96 kHz/24 bit.

Multi-channel audio sources are converted to 2ch.

Ogg Vorbis

Supported sampling frequency (kHz) ⁽¹⁾	8, 11.025, 16, 22.05, 32, 44.1, 48
Supported bit rate (kbps) ⁽²⁾	32 to 500

Audio sources higher than 96 kHz/24 bit are down-converted to 96 kHz/24 bit.

VBR (Variable Bit Rate) is supported.

File names

The only files that can be recognized as MP3/WMA/AAC/ WAV(LPCM)/FLAC/ALAC/Ogg Vorbis and played are those with the extension. ".mp3"/".wma"/".m4a"/".3gp"/".aac"/".wav"/".flac"/".fla"/".ogg"/".ogx"/".oga". Save

MP3/WMA/AAC/WAV(LPCM)/FLAC/ALAC/Ogg Vorbis files with a ".mp3"/".wma"/".m4a"/".3gp"/".aac"/".wav"/".flac"/".fla"/".ogg"/".ogx"/".oga".

About ID3 tags, WMA tags, AAC tags, tags, and Vorbis comments

MP3 files have ancillary character information called ID3 tags that can store song artist names, title names, album names, and more.

WMA files have ancillary character information called WMA tags that can store song artist names, title names, album names, and more.

AAC files have ancillary character information called AAC tags that can store song artist names, title names, album names, and more.

WAV (LPCM) files have ancillary character information called tags that can store song artist names, title names, album names, and more.

FLAC files have ancillary character information called tags that can store song artist names, title names, album names, and more.

Audio System

ALAC files have ancillary character information called tags that can store song artist names, title names, album names, and more.

Ogg Vorbis files have ancillary text information called Vorbis comment that allows saving of the song artist names, title names, album names, and more.

High resolution sound sources

This device supports high-resolution sound sources. The definition of high-resolution is based on the standards of groups such as the CTA (Consumer Technology Association).

Supported formats and playable media are as follows.

Supported formats

WAV, FLAC, ALAC, Ogg Vorbis

Playable media

USB flash drive

Bluetooth

The Bluetooth® specifications and profiles that can be used are as follows.

Item	Bluetooth® audio
Supported Bluetooth® specifications	Bluetooth® Core Specification Ver.5.0 or later

Audio System

Supported pro- files	A2DP (Advanced Audio Distribution Profile) profile for transmitting music data: Ver. 1.3.2 or later AVRCP (Audio/Video Remote Control Profile) profile for controlling (playing, stopping, etc.) portable audio from a multimedia system: Ver. 1.6.2 or later
Item	Bluetooth® audio
Supported co- decs	LDAC/AAC/SBC

This is not a guarantee that all Bluetooth® devices can connect to the multimedia system.

- Certification



Audio System

Certification

For vehicles sold in the U.S.A

FCC ID: 2AHPN-BE2874

FCC

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) The device must accept any interference received, including interference that may cause undesired operation.

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

EMC

Class B

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.*

Audio System

RF exposure safety

This device complies with the FCC RF exposure limits and has been evaluated in compliance with portable/mobile exposure conditions. The equipment must be installed and operated and was evaluated with minimum distance of 20 cm of the human body. This distance or greater is maintained by vehicle design and ensures compliance by normal use of the vehicle.

For vehicles sold in Brazil

"Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados"

"Para maiores informações, consulte o site da ANATEL – www.anatel.gov.br"