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3

AUDIO

BASIC OPERATION

SOME BASICS

This section describes some of the basic features of the audio/visual system. Some information may not pertain to your system.

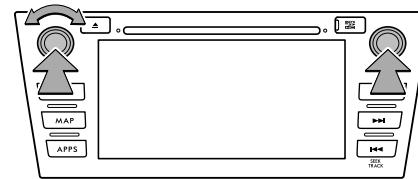
Your audio/visual system works when the ignition switch is turned to the “ACC” or “ON” position.



CAUTION

- To prevent the battery from being discharged, do not leave the audio/visual system on longer than necessary when the engine is not running.

TURNING THE SYSTEM ON AND OFF



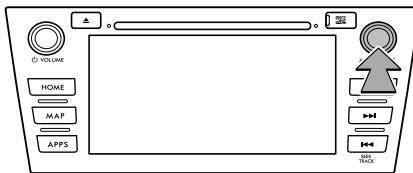
“POWER/VOLUME” knob: Press to turn the audio/visual system on and off. The system turns on in the last mode used. Turn this knob to adjust the volume. Note that the voice guidance volume can be adjusted during guidance.

“AUDIO/TUNE” knob: Press to display screen buttons for the audio/visual system.

- A function that enables automatic return to the split screen from the audio/visual screen can be selected. (→P.190)

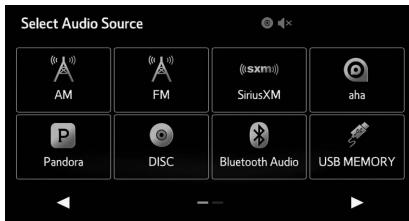
SELECTING AN AUDIO SOURCE

1. Press the “AUDIO/TUNE” knob.



- The screen can also be displayed by selecting **HOME** followed by **AUDIO** (AUDIO).
- If the audio control screen appears, select **Source** (Source) on the audio screen or press the “AUDIO/TUNE” knob again.

2. Select the desired source.



NOTE

- When there are two pages, select **▶** or **◀** to change the page.

REORDERING THE AUDIO SOURCE

3

AUDIO

1. Display the “Select Audio Source (Select Audio Source)” screen. (→P.55)
2. Select **Reorder** (Reorder).



3. Select the desired audio source then **◀◀** or **▶▶** to reorder.



4. Select **OK** (OK).

SOUND SETTINGS

The following sound quality can be adjusted, however, the adjustments that can be made will differ depending on the connected amplifier.

TONE:

How good an audio program sounds is largely determined by the mix of the treble, mid and bass levels. In fact, different kinds of music and vocal programs usually sound better with different mixes of treble, mid and bass.

BALANCE:

A good balance of the left and right stereo channels and of the front and rear sound levels is also important.

Keep in mind that when listening to a stereo recording or broadcast, changing the right/left balance will increase the volume of 1 group of sounds while decreasing the volume of another.

EQUALIZER:

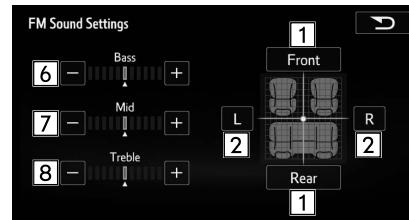
Equalizer curves set beforehand to match sound quality can be selected, and curves can be set to your favorite music by adjusting them individually over low to high bands.

1. Select **Sound** (Sound) on the audio control screen.
2. Select the desired screen button.

► Type A



► Type B



No.	Function
1	Select to adjust the sound balance between the front and rear speakers.
2	Select to adjust the sound balance between the left and right speakers.
3	Select to adjust the sound quality. (→P.57)

No.	Function
4	Select to reset the adjusted sound quality.
5	Select to change to sound quality appropriate for the music (POP, ROCK, JAZZ) type.
6	Select - or + to adjust lowpitched tones.
7	Select - or + to adjust midpitched tones.
8	Select - or + to adjust highpitched tones.
3.	Select EQ .

ADJUSTING THE SOUND QUALITY (type A model only)

You can adjust the sound quality from the low band to the high band.

■ADJUSTING THE SOUND QUALITY

1. On the sound settings screen, select **Adjust** (Adjust) in “EQ Settings (EQ Settings)”.
2. Select the sound band that you want to adjust.



3. Select **▲** or **▼**.
 - You can also adjust to the desired level by touching the screen.
 - To reset the sound quality, select **FLAT** (FLAT).

■ SAVING THE SOUND QUALITY

You can save the adjusted sound quality settings.

1. Adjust the sound quality.
2. Select **EQ1** (EQ1) or **EQ2** (EQ2) for 2 seconds or more.
 - Values cannot be saved for **FLAT** (FLAT).

■ USING A PRESET SOUND QUALITY

1. Select **EQ1** (EQ1) or **EQ2** (EQ2) to activate the corresponding preset sound quality.
 - To reset the sound quality, select **FLAT** (FLAT).
 - This function can also be used at the “EQ Settings (EQ Settings)”.

■ RESETTING THE EQ CURVE

You can return the adjusted value for the currently stored equalizer to its initial value.

1. Select and hold **FLAT** (FLAT) for 2 seconds or more.
 - The adjusted values for the stored **EQ1** (EQ1) and **EQ2** (EQ2) are returned to their initial values.

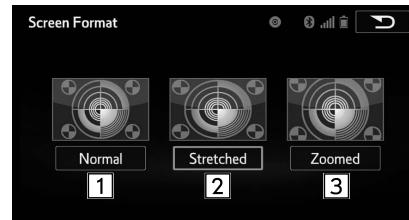
AUDIO SCREEN ADJUSTMENT

The screen size can be selected for each type of media.

► USB video/SD video*

*: With navigation function

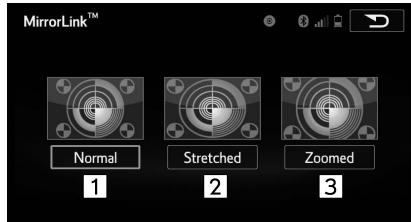
1. Select  on the audio control screen.
2. Select **Screen Format** (Screen Format).
3. Select the desired item to be adjusted.



No.	Function
[1]	Select to display a screen with either side in black.
[2]	Select to enlarge the image horizontally to full screen.
[3]	Select to enlarge the image by the same ratio horizontally and vertically.

► MirrorLink™

1. Select **Screen Format** (Screen Format) on the application list screen.
2. Select the desired item to be adjusted.



No.	Function
1	Select to display a screen surrounded by black on all four sides.
2	Select to enlarge the image horizontally and vertically to full screen.
3	Select to enlarge the image horizontally or vertically.

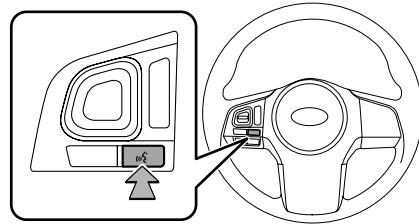
NOTE

- The brightness, contrast, tone and color of the audio screen can be changed. (→P.50)

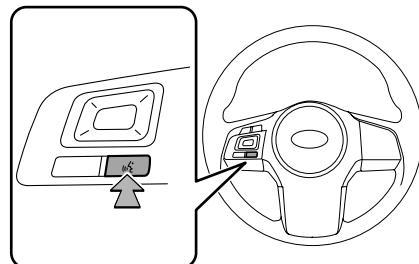
VOICE RECOGNITION SYSTEM

1. Press this switch to operate the voice recognition system.

► Type A



► Type B



- The voice recognition system and its list of commands can be operated. (→P.251)

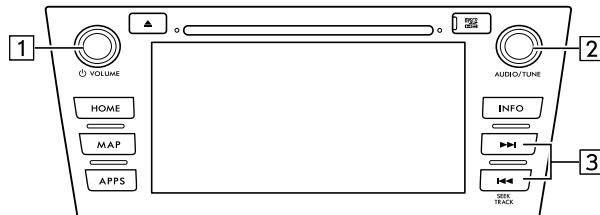
RADIO OPERATION

AM/FM RADIO

OVERVIEW

Select **AM** (AM) or **FM** (FM) on the “Select Audio Source (Select Audio Source)” screen. (→P.55)

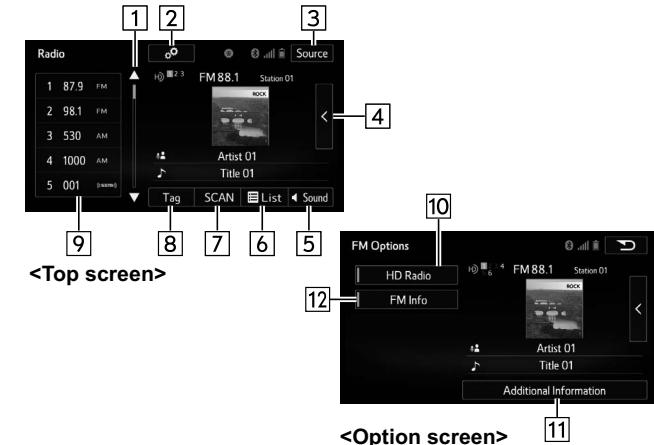
▶ Control panel



No.	Function
1	Turn to adjust volume. Press to turn the audio system on/off.
2	Turn to step up/down frequencies. Press to select an audio mode.

No.	Function
3	Select to seek for a station/channel. Select and hold for continuous seek.

▶ Control screen



No.	Function
1	Select to scroll the list of preset buttons.
2	Select to display the option screen.

No.	Function
3	Select to display the audio source selection screen.
4	Select to display the cache radio operation buttons. (→P.67)
5	Select to display the sound setting screen. (→P.56)
6	Select to display a list of receivable stations/channels.
7	Select to scan for receivable stations/channels.
8	HD Radio reception only: Select to store information of the audio currently being broadcast on the radio. (→P.66)
9	Select to tune to a preset station/channel.
10	Select to turn HD Radio mode on/off. When the HD Radio indicator is off, the station list shows only analog broadcasts.
11	Select to display the additional text information.
12	Analog FM only: Select to display RBDS text messages.

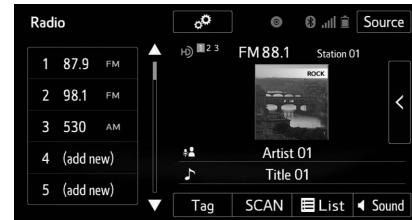
NOTE

- The radio automatically changes to stereo reception when a stereo broadcast is received.
- The radio automatically blends to an HD Radio signal in AM or FM where available.

PRESETTING A STATION

Radio mode has a mix preset function, which can store up to 36 stations from any of the AM, FM or SiriusXM Satellite Radio bands.

1. Tune in the desired station.
2. Select **(add new)** ((add new)).



- To change the preset station to a different one, select and hold the preset station.
- 3. Select **Yes** (Yes) on the confirmation screen.
- 4. Select **OK** (OK) after setting the new preset station.

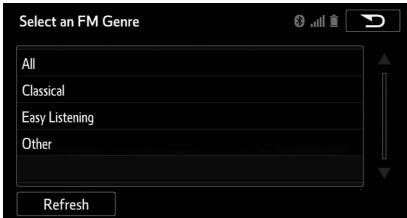
NOTE

- The number of preset radio stations displayed on the screen can be changed. (→P.100)

SELECTING A STATION FROM THE LIST

A station list can be displayed.

1. Select **List**.
2. FM radio only: Select the desired program genre.



3. Select the desired station and then select **OK** (OK).

RADIO BROADCAST DATA SYSTEM

This audio system is equipped with Radio Broadcast Data Systems (RBDS). RBDS mode allows text messages to be received from radio stations that utilize RBDS transmitters.

When RBDS is on, the radio can

- only select stations of a particular program type,
- display messages from radio stations,
- search for a stronger signal station.

RBDS features are available only when listening to an FM station that broadcasts RBDS information and the **FM Info** (FM Info) indicator is on.

SELECTING A DESIRED GENRE

1. Select **List**.
2. FM radio only: Select a desired genre of station and select a desired station.
 - The genre list is in the following order:
 - Classical
 - Country
 - Easy Listening
 - Information
 - Jazz
 - News
 - Oldies
 - Other
 - Pop Music
 - Religion
 - Rock
 - R&B
 - Sports
 - Talk
 - Traffic (Not available when HD Radio indicator is off.)
 - Alert (Emergency Alert)

REFRESHING THE STATION LIST

1. Select **Refresh** (Refresh) on the station list screen and the following screen will be displayed.



- **Cancel Refresh** (Cancel Refresh): Select to cancel the refresh.
- **Source** (Source): Select to change to another audio source while refreshing.

NOTE

- The audio system sound is muted during refresh operation.
- In some situations, it may take some time to update the station list.

TRAFFIC ANNOUNCEMENT (FM RADIO)

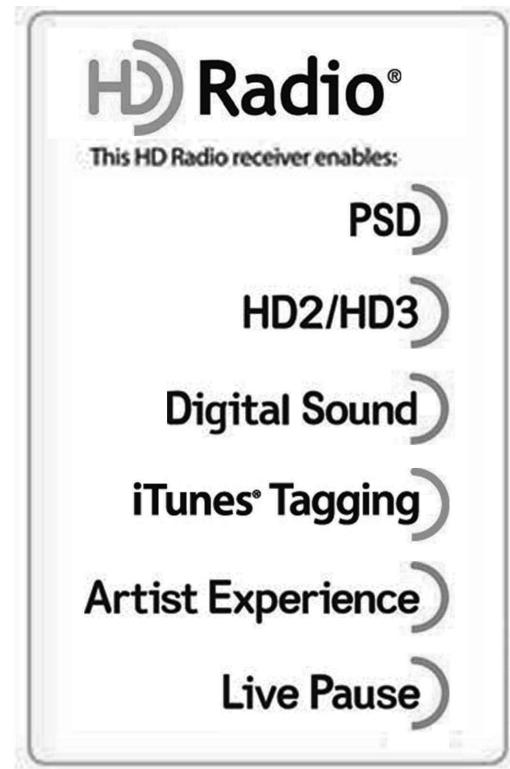
A station that regularly broadcasts traffic information is automatically located.

1. Select **List**.
2. Select **Traffic** (Traffic).
3. Select the desired traffic program station.

NOTE

- If a traffic program station is found, the name of the traffic program station will be displayed for a while.

AVAILABLE HD Radio™ TECHNOLOGY



HD Radio Technology manufactured under license from iBiquity Digital Corporation. U.S. and Foreign Patents. HD Radio™ and the HD, HD Radio, and “Arc” logos are proprietary trademarks of iBiquity Digital Corp.

HD Radio™ Technology is the digital evolution of analog AM/FM radio. Your radio product has a special receiver which allows it to receive digital broadcasts (where available) in addition to the analog broadcasts it already receives. Digital broadcasts have better sound quality than analog broadcasts as digital broadcasts provide free, crystal clear audio with no static or distortion. For more information, and a guide to available radio stations and programming, refer to www.hdradio.com.

MULTICAST

On the FM radio frequency most digital stations have “multiple” or supplemental programs on one FM station.

1. Select the **(HD)**.



- Each time the **(HD)** is selected, the channel is changed.
- Turning the “**AUDIO/TUNE**” knob can also select the desired multicast channel.

Digital Sound

- Digital, CD-quality sound. HD Radio Technology enables local radio stations to broadcast a clean digital signal. AM sounds like today's FM and FM sounds like a CD.

HD2/HD3

- FM stations can provide additional digital-only audio programming on HD2/HD3 Channels.

PRESERVING A MUSIC INFORMATION

Tag information in the music broadcasting is preserved in the system and transmits to an iPod.

- Select **Tag** (Tag) to bookmark the music information.



- Connect an iPod. (→P.41)

- Turn on the power of the iPod if it is not turned on.
- Once an iPod is connected, the music tag moves from the radio into the iPod.
- When the iPod is connected to iTunes, the “tagged” information of the songs which were tagged while listening to the radio can be viewed. Then a user may decide to purchase the song or CD/Album which had been listened to on their radio.
- Up to 50 items of tag information can be stored.

NOTE

- The tag information can not be preserved while scanning or caching the radio station.
- If tagging the music information fails, “Saving the HD Radio tag was unsuccessful. (Saving the HD Radio tag was unsuccessful.)” will be displayed on the screen. If this occurs, tag the information again.
- HD Radio™ stations can be preset.
- An orange **HD**) will be displayed on the screen when in digital. The **HD**) will first appear in a gray color indicating the station is indeed (an analog and) a digital station. Once the digital signal is acquired, the logo will change to a bright orange color.
- The song title and artist name will appear on the screen when available by the radio station. The radio station can send album pictures when available.
- As a user works through the analog radio stations, (where applicable) the radio receiver will automatically tune from an analog signal to a digital signal within 5 seconds.



- Program Service Data: Presents song name, artist, station IDs, and other relevant data streams.

Artist Experience

- Visual information related to content being played on your HD Radio receiver, such as Album Art, historical photographs, still art from live broadcasts, among other related content.

iTunes® Tagging

- iTunes® Tagging provides you the opportunity to discover a wide range of content and the means to “tag” that content for later review and purchase from the iTunes® Store. Also refer to the Apple Automotive specifications for implementing iTunes® Tagging.

3

AUDIO

CACHING RADIO PROGRAMS

A radio program can be cached and played back in a time-shifted manner.

AUTOMATIC PLAYBACK OF THE CACHE

If the radio broadcast is interrupted by another audio output, such as an incoming phone call, the system will automatically cache the interrupted portion and perform time-shift playback when the interruption ends. To manually operate the cache operation: (→P.68)

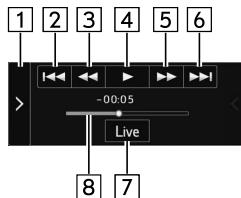
NOTE

- The system can store up to 20 minutes. Cached data will be erased when the radio mode or station is changed or when the audio system is turned off.
- If noise or silence occurs during the caching process, cache-writing will continue, with the noise or silence recorded as is. In this case, the cached broadcast will contain the noise or silence when played back.

PLAYING BACK THE CACHE MANUALLY

The broadcast cached in the program cache can be played back manually.

1. Display the cache radio operation buttons. (→P.60)
2. Select the desired cache radio operation button.



No.	Function
1	Hides the cache operation buttons.
2	Skips backward 2 minutes.
3	Fast rewinds continuously.
4	Plays or pauses the radio broadcast.
5	Fast forwards continuously.
6	Skips forward 2 minutes.

No.	Function
7	Returns to the live radio broadcast.
8	Shows the current playback location relative to the cached broadcast recording time with a bar scale.

Live Pause

- Allows HD Radio receivers to store content (songs/programs and data) in a buffer. Playback shall start at any point in the buffer and shall continue until the end of the buffer or until the user has selected to stop playback. Live Pause has the ability to store both analog and digital content in the buffer.

SiriusXM® Satellite Radio

OVERVIEW

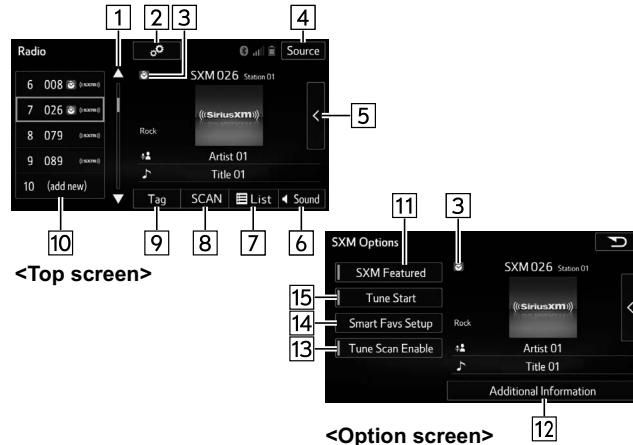
Select **SiriusXM** (SiriusXM) on the “Select Audio Source (Select Audio Source)” screen. (→P.55)

► Control panel



No.	Function
1	Turn to adjust volume. Press to turn the audio system on/off.
2	Turn to step up/down channels. Press to select an audio mode.
3	Select to seek for a channel. Select and hold for continuous seek.

► Control screen



No.	Information/Function
1	Select to scroll the list of preset buttons.
2	Select to display the option screen.
3	Displayed when playing cached programs.
4	Select to display the audio source selection screen.
5	Select to display the cache radio operation buttons. (→P.74)

No.	Information/Function
6	Select to display the sound setting screen. (→P.56)
7	Select to display a list of categories. (→P.76)
8	Select to search subscribed channels by category. By turning TuneScan Enable ON with channels registered in Smart Favorites, Tune Scan (Tune Scan) is displayed. (→P.76)
9	Select to receive tag information. (→P.77)
10	Select to tune to a preset channel. is displayed for channels registered in Smart Favorites.
11	Select to turn the SXM Featured on/off. (→P.76)
12	Select to show information such as channel name, song title, and artist name.
13	Select to turn the TuneScan on/off. (→P.76)
14	Select to display the "Edit Favorites (Edit Favorites)" screen. (→P.75)
15	Select to turn the TuneStart on/off. (→P.75)

NOTE

- A clear line of sight is required from the satellite to the SiriusXM® Satellite Radio antenna. Obstacles such as trees, tall buildings, and tunnels can block the SiriusXM signal, causing the SiriusXM radio reception to cut in and out.
- If the ignition switch is turned "OFF" and then set to the "ACC" or "ON" position when listening to an XL channel, broadcasting from the XL channel will not begin. If so, the SXM001 channel will be broadcast.
- XL channels may include frequent explicit language or mature programming.

HOW TO SUBSCRIBE TO SiriusXM® Satellite Radio

To listen to a satellite radio broadcast in the vehicle, a subscription to the SiriusXM® Satellite Radio service is necessary.

A SiriusXM® Satellite Radio is a tuner designed exclusively to receive broadcasts provided under a separate subscription. SiriusXM U.S. satellite and data services are available only in the 48 contiguous USA and DC. SiriusXM satellite service is also available in Canada; see www.siriusxm.ca.

HOW TO SUBSCRIBE

It is necessary to enter into a separate service agreement with SiriusXM® Satellite Radio Services in order to receive satellite broadcast programming in the vehicle. Additional activation and service subscription fees apply that are not included in the purchase price of the vehicle and digital satellite tuner.

- For complete information on subscription rates and terms, or to subscribe to SiriusXM® Satellite Radio:

► **U.S.A.**

Refer to www.siriusxm.com or call
1-877-447-0011.

► **Canada**

Refer to www.siriusxm.ca or call
1-877-209-0079.

! WARNING

- SiriusXM® Satellite Radio Services — Legal Disclaimers and Warnings

- Fees and Taxes — Subscription fee, taxes, one time activation fee, and other fees may apply. Subscription fee is consumer only. All fees and programming subject to change.

Subscriptions subject to Customer Agreement available at www.siriusxm.com. (U.S.A.) or www.siriusxm.ca (Canada) SiriusXM U.S. satellite and data services are available only in the 48 contiguous USA and DC. SiriusXM® Satellite Radio Service is also available in Canada; see www.siriusxm.ca.

Explicit Language Notice — Channels with frequent explicit language are indicated with an "XL" preceding the channel name. Channel blocking is available for SiriusXM® Satellite Radio receivers by notifying SiriusXM at;

U.S.A. Customers:

Visit www.siriusxm.com or calling
1-877-447-0011

Canadian Customers:

Visit www.siriusxm.ca or calling
1-877-209-0079



CAUTION

- It is prohibited to copy, decompile, disassemble, reverse engineer, hack, manipulate, or otherwise make available any technology or software incorporated in receivers compatible with the SiriusXM® Satellite Radio Services or that support the SiriusXM website, the Online Service or any of its content. Furthermore, the AMBE® voice compression software included in this product is protected by intellectual property rights including patent rights, copyrights, and trade secrets of Digital Voice Systems, Inc.
- Note: this applies to SiriusXM® Satellite Radio receivers only and not SiriusXM Ready devices.

NOTE

● SiriusXM® Satellite Radio Services--Descriptions

- Only SiriusXM® Satellite Radio brings you more of what you love, all in one place. Get over 175 channels, including commercial-free music, plus the best sports, news, talk, comedy and entertainment. Welcome to the world of satellite radio. More information about SiriusXM® Satellite Radio is available online at www.siriusxm.com (U.S.A.) or www.siriusxm.ca (Canada).

NOTE

● SiriusXM® Satellite Radio Services — Subscription Instructions

- For SiriusXM Services requiring a subscription (such as SiriusXM® Satellite Radio Services, and some Infotainment & data services), the following paragraph shall be included.

Required SiriusXM® Satellite Radio Services and some Infotainment & data services monthly subscriptions sold separately after trial period. Subscription fee is consumer only. All fees and programming subject to change. Subscriptions are subject to the Customer Agreement available at www.siriusxm.com. SiriusXM U.S. satellite and data services are available only in the 48 contiguous USA and DC. SiriusXM satellite service is also available in Canada; see www.siriusxm.ca. © 2013 SiriusXM Radio Inc. Sirius, XM and all related marks and logos are trademarks of SiriusXM Radio Inc. All other marks, channel names and logos are the property of their respective owners.

For more information, program schedules, and to subscribe or extend subscription after complimentary trial period; more information is available at:

USA Customers:

Visit www.siriusxm.com or call

1-877-447-0011

NOTE

- SiriusXM® Satellite Radio Service is solely responsible for the quality, availability and content of the satellite radio services provided, which are subject to the terms and conditions of the SiriusXM Satellite Radio customer service agreement.
- Customers should have their radio ID ready; the radio ID can be found by tuning to “Ch 000” on the radio. For details, see “DISPLAYING THE RADIO ID” below.
- All fees and programming are the responsibility of SiriusXM® Satellite Radio Services and are subject to change.

DISPLAYING THE RADIO ID

Each SiriusXM tuner is identified with a unique radio ID. The radio ID is required when activating SiriusXM Satellite Services or when reporting a problem.

- If “Ch 000” is selected using the “**AUDIO/TUNE**” knob, the ID code, which is 8 alphanumeric characters, will be displayed. If another channel is selected, the ID code will no longer be displayed. The channel (000) alternates between displaying the radio ID and the specific radio code.

PRESETTING A CHANNEL

1. Tune in the desired channel.
2. Select **(add new)** ((add new)).



- To change the preset channel to a different one, select and hold the preset channel.
- 3. Select **Yes** (Yes) on the confirmation screen.
- 4. Select **OK** (OK) after setting the new preset channel.

CACHING RADIO PROGRAMS

A radio program can be cached and played back in a time-shifted manner.

The program that is currently being listened to, and channel programs registered as Smart Favorites can be cached.

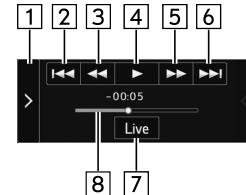
NOTE

- If noise or silence occurs during the caching process, cache-writing will continue, with the noise or silence recorded as is. In this case, the cached broadcast will contain the noise or silence when played back. If reception is poor or radio waves are disrupted, the caching process will not be performed properly, and several seconds of silence will be recorded.
- It may not be possible to cache depending on the broadcasting channel and program (advertising or billboard, etc.) being broadcasted.

PLAYING BACK THE CACHE

The broadcast cached in the program cache can be played back.

1. Display the cache radio operation buttons. (→P.69)
2. Select the desired cache radio operation button.



No.	Function
1	Hides the cache radio operation buttons.
2	Select to access the desired program. Skips back through program.
3	Fast rewinds continuously. The fast rewind speed increased the longer the button is held down.
4	Plays or pauses the radio broadcast.

No.	Function
5	Fast forwards continuously. The fast forward speed increased the longer the button is held down.
6	Select to access the desired program. Skips forward through program.
7	Returns to the live radio broadcast.
8	Shows the current playback location relative to the cached broadcast recording time with a bar scale.

NOTE

- The time displayed on the bar scale may differ from the actual time.

REGISTERING A SMART FAVORITE CHANNEL

The TuneStart and TuneScan functions can be used by registering preset channels as Smart Favorites. Up to 5 channels can be registered in Smart Favorites.

1. Select **Smart Favs Setup** (Smart Favs Setup) on the option screen.
2. Select check boxes for preset channels to be registered, and then select **OK** (OK).

TuneStart™ FUNCTION

TuneStart begins playing the current program from the beginning when tuning to a channel registered in Smart Favorites, allowing you to enjoy the complete program.

TuneStart is applicable to channels registered in Smart Favorites. (→P.75)

It is necessary to turn on TuneStart at the option screen to use this function. (→P.69)

NOTE

- Live radio is broadcast immediately after switching from another mode to SiriusXM mode even if the TuneStart setting is turned ON. The TuneStart function starts if switching to a channel registered in Smart Favorites within SiriusXM mode.
- The TuneStart function is not applicable to programs for which even a little has been listened to from the start.

TuneScan™ FUNCTION

TuneScan is a function used to listen to the first 10 seconds of all recorded programs one after another.

TuneScan is applicable to channels registered in Smart Favorites, and programs that are currently being listened to. (→P.75)

It is necessary to turn on TuneScan at the option screen to use this function. (→P.69)

1. Select **Tune Scan** (Tune Scan).

- Select **Tune Scan** (Tune Scan) again when the desired program is reached to continue playing that program.

NOTE

- The TuneScan function is not applicable to the following program.

- Program that has been listened to for 30 seconds or longer
- If the start of the program has not been cached
- If the cached program is shorter than 45 seconds (However, this excludes programs that are currently being broadcast.)

And in addition to the above conditions, the TuneScan function may not work depending on the channel or program.

SEARCHING BY FEATURED FAVORITES

Featured Favorites are a collection of channels that are created by the SiriusXM programming team that are updated several times throughout the year.

The desired Featured Favorite channel can be selected from the list screen. (→P.76)

It is necessary to turn on SXM Featured at the option screen to listen to a Featured Favorite channel. (→P.69)

SELECTING A CHANNEL FROM THE LIST

1. Select **List**.

- If the program of the Featured Favorites bank is updated when SXM Featured is on, **NEW** is displayed. It will then disappear when selected.

2. Select the desired program genre.

- Received Featured Favorite channels appear at the very bottom of the list.

3. Select the desired channel and then select **OK** (OK).

- If the Featured Favorites list is selected, Bank Information is displayed if **More Info** (More Info) is selected.

PRESERVING A MUSIC INFORMATION

Tag information in the music broadcasting is preserved in the system and transmits to an iPod.

1. Select **Tag** (Tag) to bookmark the music information.



2. Connect an iPod. (→P.41)

- Turn on the power of the iPod if it is not turned on.
- Once an iPod is connected, the music tag moves from the radio into the iPod.
- When the iPod is connected to iTunes, the “tagged” information of the songs which were tagged while listening to the radio can be viewed. Then a user may decide to purchase the song or CD/Album which had been listened to on their radio.
- Up to 50 items of tag information can be stored.

NOTE

- The tag information can not be preserved while scanning or caching the radio program.
- The song title and artist name will appear on the screen when available by the radio program. The radio program can send album pictures when available.
- As a user works through the analog radio channels, (where applicable) the radio receiver will automatically tune from an analog signal to a digital signal within 5 seconds.

MEDIA OPERATION

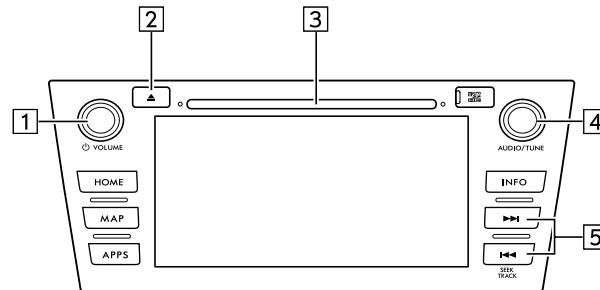
CD

OVERVIEW

The CD operation screen can be reached by the following methods:

- Insert a disc. (→P.40)
- Select **DISC** (DISC) on the “Select Audio Source (Select Audio Source)” screen. (→P.55)

►Control panel

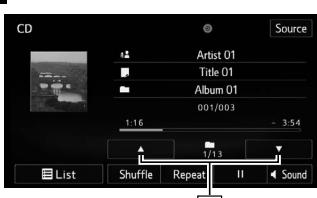


No.	Function
1	Turn to adjust volume. Press to turn the audio system on/off.
2	Press to eject a disc.
3	Disc slot
4	Turn to select a track/file. Press to select an audio mode.
5	Select to select a track/file. Select and hold to fast forward/rewind.

▶ Control screen



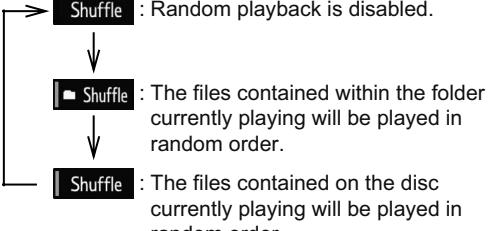
<Audio CD>



<MP3/WMA/AAC disc>

No.	Function
1	Displays cover art. Select to display a track/file list.
2	Select to display the audio source selection screen.
3	Select to display the sound setting screen. (→P.56)
4	Select to play/pause.
5	Shows progress.

No.	Function
6	<p>▶ Audio CD Select to enable/disable repeat playback of the track currently playing.</p> <p>▶ MP3/WMA/AAC disc The repeat method changes as shown below each time the repeat button is selected.</p> <p>→ Repeat : Repeat playback is disabled. ↓ Repeat : The file currently playing will be repeated. ↓ Repeat : The files contained within the folder currently playing will be repeated.</p>

No.	Function
7	<p>► Audio CD Select to enable/disable random playback for the tracks currently playing on the CD.</p> <p>► MP3/WMA/AAC disc The random playback method changes as shown below each time the shuffle button is selected.</p>  <p>→ Shuffle : Random playback is disabled.</p> <p>↓</p> <p>Folder Shuffle : The files contained within the folder currently playing will be played in random order.</p> <p>↓</p> <p>Disc Shuffle : The files contained on the disc currently playing will be played in random order.</p>
8	<p>► Audio CD Select to display a track list.</p> <p>► MP3/WMA/AAC disc Select to display a folder/file list. To return to the top screen, select Now Playing (Now Playing) on the list screen.</p>
9	Select to choose a folder.

NOTE

- If a disc contains CD-DA files and MP3/WMA/AAC files, only the CD-DA files can be played back.
- If a CD-TEXT disc is inserted, the title of the disc and track will be displayed. Up to 32 characters can be displayed.
- If the disc contains no CD-TEXT, only the track number would be displayed on the screen.

USB MEMORY

Audio files, video files and image files on the USB memory can be played back/viewed. Image files can be viewed at the same time that audio files are being played back.

While driving, video/slideshow will not be displayed. Only sound will be output.

OVERVIEW

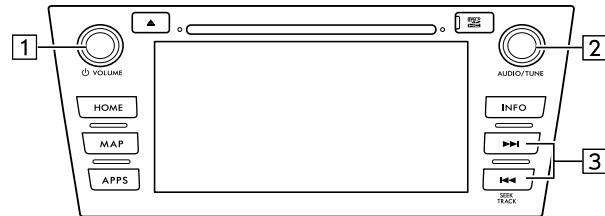
The USB Audio/Video playback screen can be reached by the following methods:

- Connect a USB memory. (→P.41)
- Select **USB (DEVICE NAME)** (USB (DEVICE NAME)) on the “Select Audio Source (Select Audio Source)” screen. (→P.55)

The USB photo playback screen can be reached by the following method:

- Select **USB (DEVICE NAME) Photo** (USB (DEVICE NAME) Photo) on the “INFO (INFO)” screen. (→P.24)

►Control panel

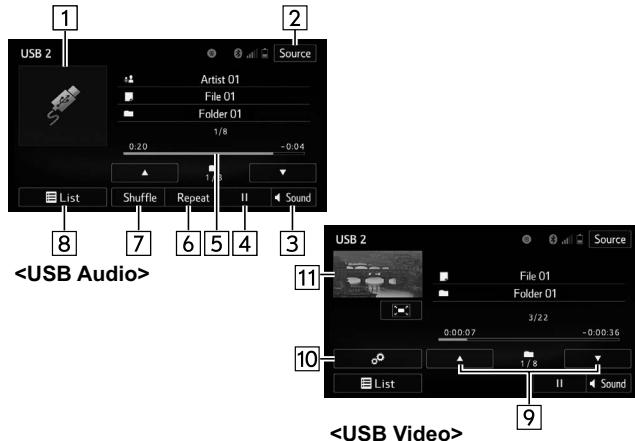


3

AUDIO

No.	Function
1	Turn to adjust volume. Press to turn the audio system on/off.
2	Turn to select a file/track. Press to select an audio mode.
3	Select to select a file/track. Select and hold to fast forward/rewind.

►Control screen (Audio/Video)

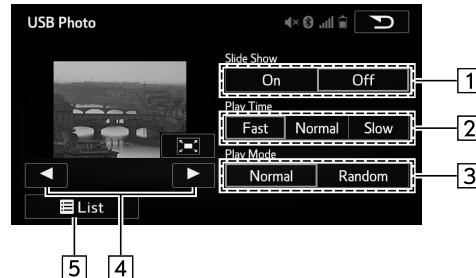


No.	Function
1	Displays cover art. Select to display file/track list.
2	Select to display the audio source selection screen.
3	Select to display the sound setting screen. (→P.56)
4	Select to play/pause.
5	Shows progress.

No.	Function
6	<p>The repeat method changes as shown below each time the repeat button is selected.</p> <p>→ Repeat : Repeat playback is disabled.</p> <p>↓</p> <p>Repeat : The file/track currently playing will be repeated.</p> <p>↓</p> <p>Repeat : The files/tracks contained within the folder/album currently playing will be repeated.</p>
7	<p>The random playback method changes as shown below each time the shuffle button is selected.</p> <p>→ Shuffle : Random playback is disabled.</p> <p>↓</p> <p>Shuffle : The files/tracks contained within the folder/album currently playing will be played in random order.</p> <p>↓</p> <p>Shuffle : The files/tracks contained on the USB memory currently playing will be played in random order.</p>

No.	Function
8	<p>Select to display the play mode selection screen.</p> <ul style="list-style-type: none"> “Artists (Artists)”/“Albums (Albums)”/“Songs (Songs)”/“Genres (Genres)”/“Composers (Composers)”/“Folder (Folder)”/“Videos (Videos)” are on the play mode selection screen. <p>Switching between USB audio and USB video is possible on the play mode selection screen. To return to the top screen, select Now Playing (Now Playing) on the list screen.</p>
9	Select to choose the folder.
10	<p>Select to display the options screen.</p> <p>The following can be done on the options screen.</p> <ul style="list-style-type: none"> Select to change the screen size. (→P.58) Select to display the audio settings screen. (→P.99)
11	<p>Displays video image.</p> <p>Select to display full screen video.</p> <ul style="list-style-type: none"> Selecting  will also change to full screen.

► Control screen (Photo)



3
AUDIO

No.	Function
1	<p>Select to set slideshow.</p> <ul style="list-style-type: none"> The slideshow displays the images contained within the currently selected folder.
2	Select to set play time of slideshow.
3	Select to set random playback.
4	The files can be switched.
5	Select to display the USB photo folder list selection screen.

⚠ WARNING

- Do not operate the player's controls or connect the USB memory while driving.

⚠ CAUTION

- Do not leave your portable player in the car. In particular, high temperatures inside the vehicle may damage the portable player.
- Do not push down on or apply unnecessary pressure to the portable player while it is connected as this may damage the portable player or its terminal.
- Do not insert foreign objects into the port as this may damage the portable player or its terminal.

NOTE

- Ensure to engage the parking brake when watching video content. If not, only a blue screen will be displayed. Audio, however, can be heard normally.
- Audio files and image files can be played back at the same time. However, the slideshow interval may be longer than when an audio file is not being played back.
- If tag information exists, the file names will be changed to track names.
- The compatible photo file extensions are JPG and JPEG.

iPod

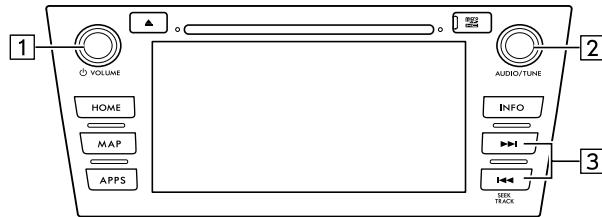
When an iPod is connected, you can play iPod music files. On this unit, you can perform operations such as selecting a file from a list or changing to the random playback mode.

OVERVIEW

The iPod operation screen can be reached by the following methods:

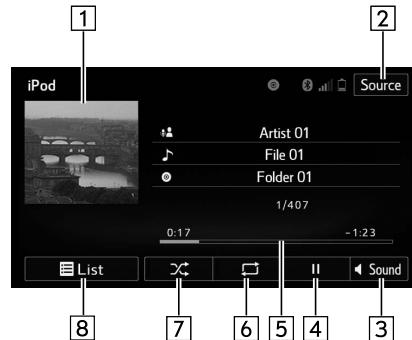
- Connect an iPod. (→P.41)
- Select **iPod (DEVICE NAME)** (iPod (DEVICE NAME)) on the “Select Audio Source (Select Audio Source)” screen. (→P.55)

▶ Control panel



No.	Function
1	Turn to adjust volume. Press to turn the audio system on/off.
2	Turn to select a track. Press to select an audio mode.
3	Select to select a track. Select and hold to fast forward/rewind.

▶ Control screen



No.	Function
1	Displays cover art. Select to display a track list.
2	Select to display the audio source selection screen.
3	Select to display the sound setting screen. (→P.56)
4	Select to play/pause.
5	Shows progress.

No.	Function
6	Select to set repeat playback. The random playback method changes as shown below each time the random button is selected. []: The tracks contained within the list currently playing will be played in random order. []: The albums contained within the list currently playing will be played in random order. []: Random playback is disabled.
7	Select to display the play mode selection screen. • “Artists (Artists)”/“Albums (Albums)”/“Songs (Songs)”/“Playlists (Playlists)”/“Genres (Genres)”/“Composers (Composers)”/“Audiobooks (Audiobooks)”/“Podcasts (Podcasts)”/“Videos (Videos)” are on the play mode selection screen. To return to the top screen, select Now Playing (Now Playing) on the list screen.
8	

⚠ WARNING

- Do not operate the player's controls or connect the iPod while driving.

⚠ CAUTION

- Do not leave your portable player in the car. In particular, high temperatures inside the vehicle may damage the portable player.
- Do not push down on or apply unnecessary pressure to the portable player while it is connected as this may damage the portable player or its terminal.
- Do not insert foreign objects into the port as this may damage the portable player or its terminal.

NOTE

- When an iPod is connected using a genuine iPod cable, the iPod starts charging its battery.
- If playing iPod music, perform operation at the system. Certain functions may not be available if played directly from the iPod. Furthermore, depending on the connected iPod, certain functions may not be available.
- Depending on the iPod and the songs in the iPod, iPod cover art may be displayed. This function can be changed to on/off. (→P.99) It may take time to display iPod cover art, and the iPod may not be operated while the cover art display is in process.
- When an iPod is connected and the audio source is changed to iPod mode, the iPod will resume playing from the same point it was last used.
- Tracks selected by operating a connected iPod may not be recognized or displayed properly.

SD CARD (WITH NAVIGATION FUNCTION)

Audio files, video files and image files on the SD card can be played back/viewed. Image files can be viewed at the same time that audio files are being played back.

While driving, video/slideshow will not be displayed. Only sound will be output.

NOTE

- Do not store audio, video, or image files on the map SD card. It will not be possible to use the navigation function if an SD card other than the map SD card is inserted in the SD card slot.
- Audio, video, or image files stored on the map SD card cannot be played.

OVERVIEW

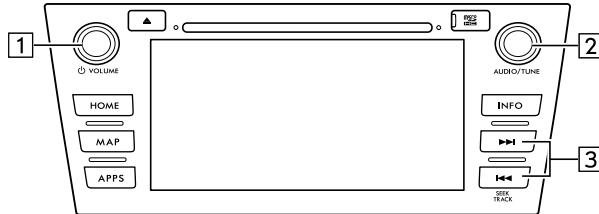
The SD Audio/Video playback screen can be reached by the following methods:

- Insert an SD card. (→P.42)
- Select **microSD** (microSD) on the “Select Audio Source (Select Audio Source)” screen. (→P.55)

The SD Photo playback screen can be reached by the following method:

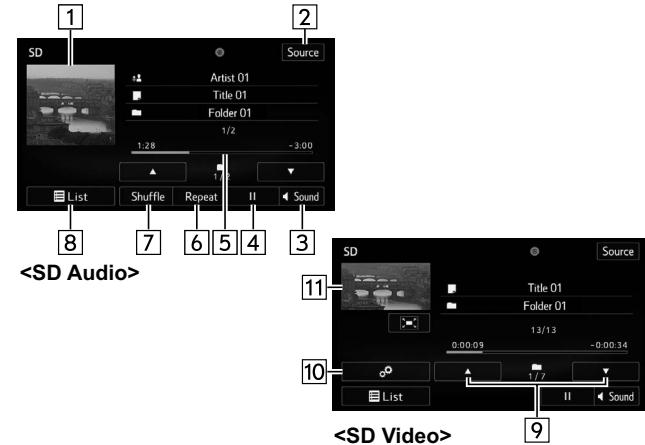
- Select **microSD Photo** (microSD Photo) on the “INFO (INFO)” screen. (→P.24)

►Control panel

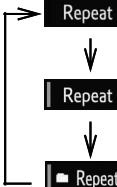
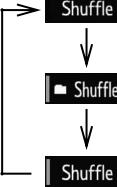


No.	Function
1	Turn to adjust volume. Press to turn the audio system on/off.
2	Turn to select a file/track. Press to select an audio mode.
3	Select to select a file/track. Select and hold to fast forward/rewind.

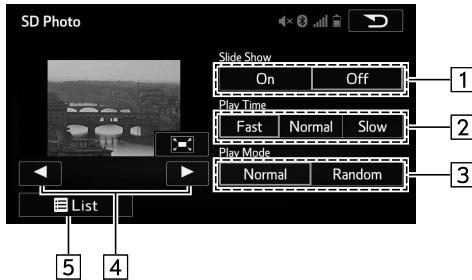
►Control screen (Audio/Video)



No.	Function
1	Displays cover art. Select to display file/track list.
2	Select to display the audio source selection screen.
3	Select to display the sound setting screen. (→P.56)
4	Select to play/pause.
5	Shows progress.

No.	Function	No.	Function								
6	<p>The repeat method changes as shown below each time the repeat button is selected.</p>  <ul style="list-style-type: none"> Repeat : Repeat playback is disabled. Repeat : The file/track currently playing will be repeated. Repeat : The files/tracks contained within the folder/album currently playing will be repeated. 	8	<p>Select to display the play mode selection screen.</p> <ul style="list-style-type: none"> “Artists (Artists)”/“Albums (Albums)”/“Songs (Songs)”/“Genres (Genres)”/“Composers (Composers)”/“Folder (Folder)”/“Videos (Videos)” are on the play mode selection screen. Switching between SD audio and SD video is possible on the play mode selection screen. To return to the top screen, select Now Playing (Now Playing) on the list screen. 								
7	<p>The random playback method changes as shown below each time the shuffle button is selected.</p>  <ul style="list-style-type: none"> Shuffle : Random playback is disabled. Shuffle : The files/tracks contained within the folder/album currently playing will be played in random order. Shuffle : The files/tracks contained on the SD card currently playing will be played in random order. 	9	Select to choose the folder.	10	Select to display the options screen.	The following can be done on the options screen.	<ul style="list-style-type: none"> Select to change the screen size. (→P.58) Select to display the audio settings screen. (→P.99) 	11	Displays video.	Select to display full screen video.	<ul style="list-style-type: none"> Selecting  will also change to full screen.

►Control screen (Photo)



No.	Function
1	Select to set slideshow. The slideshow displays the images contained within the currently selected folder.
2	Select to set play time of slideshow.
3	Select to set random playback.
4	The files can be switched.
5	Select to display the microSD photo folder list selection screen.

⚠ WARNING

- Do not operate the player's controls or insertion and pulling out the SD card while driving.

⚠ CAUTION

- Do not insert foreign objects into the SD card slot.

NOTE

- Ensure to engage the parking brake when watching video content. If not, only a blue screen will be displayed. Audio, however, can be heard normally.
- Audio files and image files can be played back at the same time. However, the slideshow interval may be longer than when an audio file is not being played back.
- If tag information exists, the file names will be changed to track names.
- The compatible photo file extensions are JPG and JPEG.

Bluetooth AUDIO

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

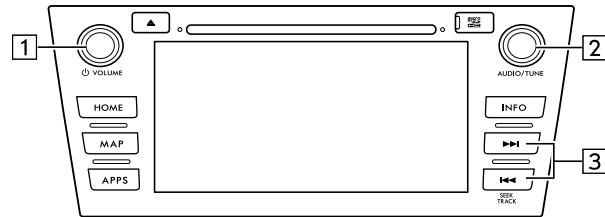
This audio system supports Bluetooth, a wireless data system capable of playing portable audio music without cables. If your device does not support Bluetooth, the Bluetooth audio system will not function.

OVERVIEW

Select **Bluetooth Audio** (Bluetooth Audio) on the “Select Audio Source (Select Audio Source)” screen. (→P.55)

Depending on the type of portable player connected, some functions may not be available and/or the screen may look differently than shown in this manual.

►Control panel

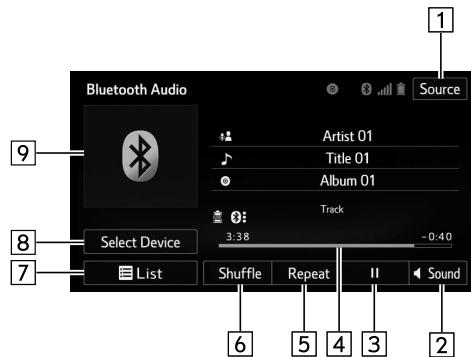


3

AUDIO

No.	Function
1	Turn to adjust volume. Press to turn the audio system on/off.
2	Turn to select a track. Press to select an audio mode.
3	Select to select a track. Select and hold to fast forward/rewind.

▶ Control screen



No.	Function
5	Select to enable/disable repeat playback of the track currently playing.
6	Select to enable/disable random playback for the tracks currently playing on the Bluetooth audio device.
7	Select to display the playlist screen. To return to the top screen, select Now Playing (Now Playing) on the list screen.
8	Select to display the portable device connection screen. (→P.184)
9	Displays cover art. Select to display a track list.

No.	Function
1	Select to display the audio source selection screen.
2	Select to display the sound settings screen. (→P.56)
3	Select to play/pause.
4	Shows progress.

⚠ WARNING

- Do not operate the player's controls or connect to the Bluetooth audio system while driving.
- Your audio unit is fitted with Bluetooth antennas. People with implantable cardiac pacemakers, cardiac resynchronization therapy-pacemakers or implantable cardioverter defibrillators should maintain a reasonable distance between themselves and the Bluetooth antennas. The radio waves may affect the operation of such devices.
- Before using Bluetooth devices, users of any electrical medical device other than implantable cardiac pacemakers, cardiac resynchronization therapy-pacemakers or implantable cardioverter defibrillators should consult the manufacturer of the device for information about its operation under the influence of radio waves. Radio waves could have unexpected effects on the operation of such medical devices.

⚠ CAUTION

- Do not leave your portable player in the vehicle. In particular, high temperatures inside the vehicle may damage the portable player.

NOTE

- Depending on the Bluetooth device that is connected to the system, the music may start playing when selecting  while it is paused. Conversely, the music may pause when selecting  while it is playing.
- In the following conditions, the system may not function:
 - The Bluetooth device is turned off.
 - The Bluetooth device is not connected.
 - The Bluetooth device has a low battery.
- It may take time to connect the phone when Bluetooth audio is being played.
- For operating the portable player, see the instruction manual that comes with it.
- If the Bluetooth device is disconnected due to poor reception from the Bluetooth network when the ignition switch is turned to the "ACC" or "ON" position, the system will automatically reconnect to the portable player.
- If the Bluetooth device is disconnected on purpose, such as it was turned off, this does not happen. Reconnect the portable player manually.
- Bluetooth device information is registered when the Bluetooth device is connected to the Bluetooth audio system. When selling or disposing of the vehicle, remove the Bluetooth audio information from the system. (→P.195)

CONNECTING A Bluetooth DEVICE

To use the Bluetooth audio system, it is necessary to register a Bluetooth device with the system.

▶ Registering an additional device

1. Select **Select Device** (Select Device) on the Bluetooth audio control screen.
2. For more information: →P.182

▶ Selecting a registered device

1. Select **Select Device** (Select Device) on the Bluetooth audio control screen.
2. For more information: →P.184

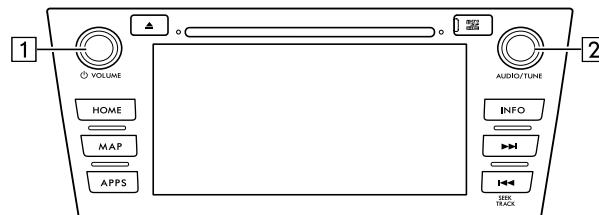
AUX

OVERVIEW

The AUX operation screen can be reached by the following methods:

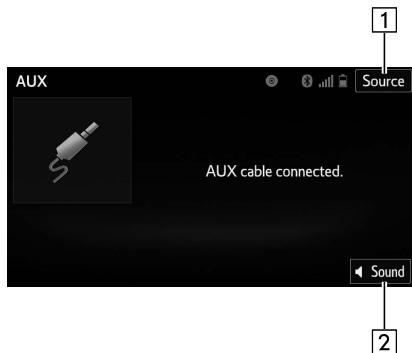
- Connect a portable audio device. (→P.41)
- Select **AUX** (AUX) on the “Select Audio Source (Select Audio Source)” screen. (→P.55)

▶ Control panel



No.	Function
1	Turn to adjust volume. Press to turn the audio system on/off.
2	Press to select an audio mode.

▶ Control screen



1

2

⚠ WARNING

- Do not operate the player's controls or connect the portable audio device while driving.

⚠ CAUTION

- Do not leave portable audio device in the vehicle. The temperature inside the vehicle may become high, resulting in damage to the player.
- Do not push down on or apply unnecessary pressure to the portable audio device while it is connected as this may damage the portable audio device or its terminal.
- Do not insert foreign objects into the port as this may damage the portable audio device or its terminal.

3

AUDIO

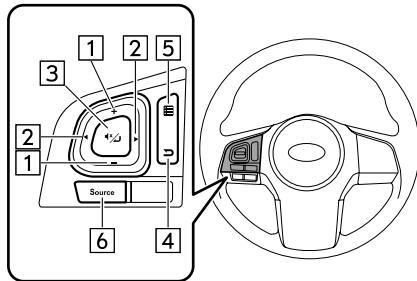
No.	Function
1	Select to display the audio source selection screen.
2	Select to display the sound setting screen. (→P.56)

AUDIO/VISUAL REMOTE CONTROLS

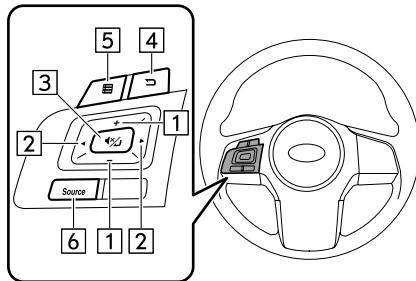
STEERING SWITCHES

Some parts of the audio/visual system can be adjusted using the switches on the steering wheel.

► Type A



► Type B



No.	Switch
1	“+/-” switch
2	“◀/▶” switch
3	Mute/enter switch
4	Back switch
5	List switch
6	“Source” switch

► “+/-” switch

Mode	Operation	Function
Volume	Press	Volume up/down
	Press and hold	Volume up/down continuously
List screen	Press	Cursor up/down

►“◀/▶” switch

Mode	Operation	Function
AM/FM Radio, SiriusXM®	Press	Preset channel up/down
	Press and hold	Seek up/down continuously
aha	Press	Content up/down
	Press and hold	Rewind the current content item for 15 seconds/ Fast forward the current content item for 30 seconds
Audio CD, MP3/ WMA/AAC disc, SD* ¹ ,USB, iPod, Bluetooth audio	Press	Select a track/file
	Press and hold	Fast forward/rewind
Pandora* ²	Press	Track up (“▶”only)
	Press and hold	Thumbs up/down
List screen	Press	Cursor left/right

*¹: With navigation function

*²: Pandora is available in the United States, Australia, and New Zealand.

►Mute/enter switch

Mode	Operation	Function
Except list screen	Press	Mute/unmute
List screen	Press	Select cursor entry

►Back switch

Mode	Operation	Function
All	Press	Return to the previous screen when  is displayed on the screen.
	Press and hold	Return to the “HOME (HOME)” screen

►List switch

Mode	Operation	Function
Audio screen, Navigation* screen	Press	Show list screen

*: With navigation function

►“Source” switch

Mode	Operation	Function
All	Press	Change audio modes

NOTE

- In the aha, Pandora* and SUBARU STARLINK mode, some operation may be done on the screen depend on the selected APPS.

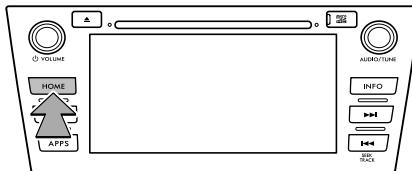
*: Pandora is available in the United States, Australia, and New Zealand.

SETUP

AUDIO SETTINGS

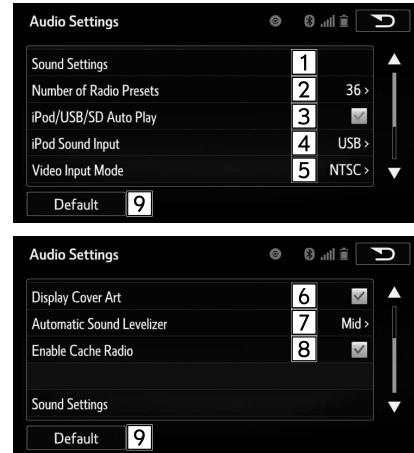
Detailed audio settings can be programmed.

1. Select **HOME**.



2. Select **SETTINGS** (SETTINGS).
3. Select **Audio** (Audio).
4. Select the items to be set.

AUDIO SETTINGS SCREEN



3
AUDIO

No.	Function	Page
1	Select to specify the sound settings.	56
2	Select to change the number of preset radio stations/channels displayed on the screen.	100

No.	Function	Page
3	Select to specify the iPod/SD*1/USB auto play settings on/off.	-
4	Select to specify the iPod sound signal input settings.	101
5	Unsupported.	-
6	Select to specify cover art settings on/off.	-
7*2	Select to specify automatic sound levelizer settings.	101
8	Select to enable cache radio.	-
9	Select to reset all setup items.	-

*1: With navigation function

*2: This setting can be made depending on the connected amplifier type.

DISPLAYING THE “Audio Settings (Audio Settings)” SCREEN IN A DIFFERENT WAY

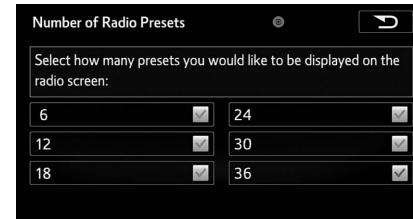
► USB video/SD video*

*: With navigation function

1. Select  on the audio control screen.
2. Select **Settings** (Settings).

SETTING THE NUMBER OF RADIO PRESETS

1. Display the “Audio Settings (Audio Settings)” screen. (→P.99)
2. Select **Number of Radio Presets** (Number of Radio Presets).
3. Select the button with the desired number to be displayed.



iPod SETTINGS

1. Display the “Audio Settings (Audio Settings)” screen.
(→P.99)
2. Select **iPod Sound Input** (iPod Sound Input).
3. Select a screen button for the desired setting.

AUTOMATIC SOUND LEVELIZER (ASL)

The system adjusts to the optimum volume and tone quality according to vehicle speed to compensate for increased vehicle noise.

1. Display the “Audio Settings (Audio Settings)” screen.
(→P.99)
2. Select **Automatic Sound Levelizer** (Automatic Sound Levelizer).
3. Select **High** (High), **Mid** (Mid), **Low** (Low), or **Off** (Off).

TIPS FOR OPERATING THE AUDIO/VISUAL SYSTEM

OPERATING INFORMATION

CAUTION

- To avoid damage to the audio/visual system:
 - Be careful not to spill beverages over the audio/visual system.
 - Do not put anything other than an appropriate disc into the disc slot.
 - Do not insert anything other than an SD card into the SD card slot.

NOTE

- The use of a cellular phone inside or near the vehicle may cause a noise from the speakers of the audio/visual system which you are listening to. However, this does not indicate a malfunction.

RADIO

Usually, a problem with radio reception does not mean there is a problem with the radio — it is just the normal result of conditions outside the vehicle.

For example, nearby buildings and terrain can interfere with FM reception. Power lines or phone wires can interfere with AM signals. And of course, radio signals have a limited range. The farther the vehicle is from a station, the weaker its signal will be. In addition, reception conditions change constantly as the vehicle moves.

Here, some common reception problems that probably do not indicate a problem with the radio are described.

FM

Fading and drifting stations: Generally, the effective range of FM is about 25 miles (40 km). Once outside this range, you may notice fading and drifting, which increase with the distance from the radio transmitter. They are often accompanied by distortion.

Multi-path: FM signals are reflective, making it possible for 2 signals to reach the vehicle's antenna at the same time. If this happens, the signals will cancel each other out, causing a momentary flutter or loss of reception.

Static and fluttering: These occur when signals are blocked by buildings, trees or other large objects. Increasing the bass level may reduce static and fluttering.

Station swapping: If the FM signal being listened to is interrupted or weakened, and there is another strong station nearby on the FM band, the radio may tune in the second station until the original signal can be picked up again.

AM

Fading: AM broadcasts are reflected by the upper atmosphere — especially at night. These reflected signals can interfere with those received directly from the radio station, causing the radio station to sound alternately strong and weak.

Station interference: When a reflected signal and a signal received directly from a radio station are very nearly the same frequency, they can interfere with each other, making it difficult to hear the broadcast.

Static: AM is easily affected by external sources of electrical noise, such as high tension power lines, lightening or electrical motors. This results in static.

SiriusXM®

- Cargo loaded on the roof luggage carrier, especially metal objects, may adversely affect the reception of SiriusXM® Satellite Radio.
- Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

CD PLAYER AND DISC

- Extremely high temperatures can keep the CD player from working. On hot days, use the air conditioning system to cool the inside of the vehicle before using the player.
- Bumpy roads or other vibrations may make the CD player skip.
- If moisture gets into the CD player, the discs may not be able to be played. Remove the discs from the player and wait until it dries.

WARNING

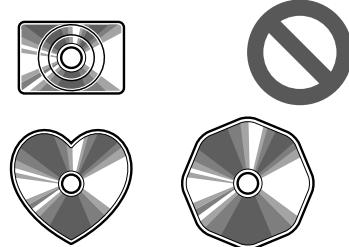
- CD players use an invisible laser beam which could cause hazardous radiation exposure if directed outside the unit. Be sure to operate the player correctly.

Audio CDs		
		

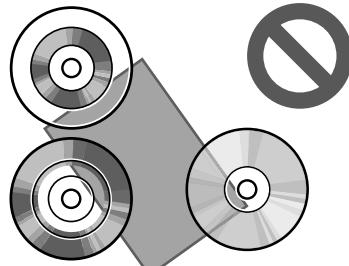
- Use only discs marked as shown above. The following products may not be playable on your player:

- SACD
- dts CD
- Copy-protected CD
- Video CD

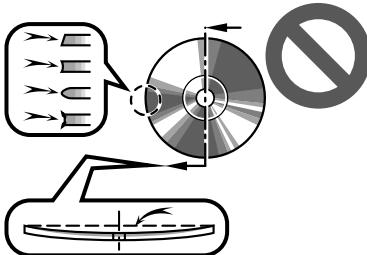
► Special shaped discs



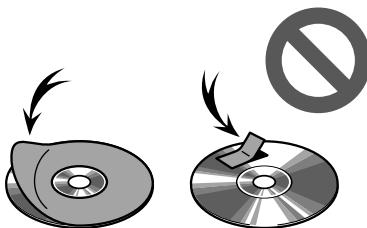
► Transparent/translucent discs



► Low quality discs

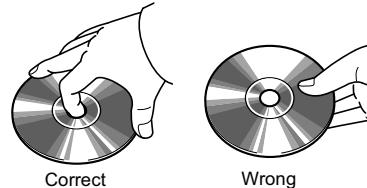


► Labeled discs



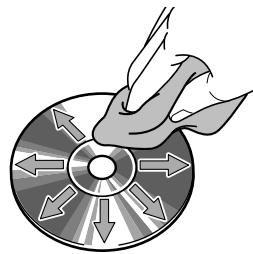
⚠ CAUTION

- Do not use special shaped, transparent/translucent, low quality or labeled discs such as those shown in the illustrations. The use of such discs may damage the player, or it may be impossible to eject the disc.
- This system is not designed for use of Dual Discs. Do not use Dual Discs because they may cause damage to the player.
- Do not use discs with a protection ring. The use of such discs may damage the player, or it may be impossible to eject the disc.
- Do not use printable discs. The use of such discs may damage the player, or it may be impossible to eject the disc.



- Handle discs carefully, especially when inserting them. Hold them on the edge and do not bend them. Avoid getting fingerprints on them, particularly on the shiny side.

- Dirt, scratches, warping, pin holes or other disc damage could cause the player to skip or to repeat a section of a track. (To see a pin hole, hold the disc up to the light.)
- Remove discs from the players when not in use. Store them in their plastic cases away from moisture, heat and direct sunlight.



To clean a disc: Wipe it with a soft, lint-free cloth that has been dampened with water. Wipe in a straight line from the center to the edge of the disc (not in circles). Dry it with another soft, lint-free cloth. Do not use a conventional record cleaner or anti-static device.

CD-R/RW DISCS

- CD-R/CD-RW discs that have not been subject to the “finalizing process” (a process that allows discs to be played on a conventional CD player) cannot be played.
- It may not be possible to play CD-R/CD-RW discs recorded on a music CD recorder or a personal computer because of disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc. on the lens of the unit.
- It may not be possible to play discs recorded on a personal computer depending on the application settings and the environment. Record with the correct format. (For details, contact the appropriate application manufacturers of the applications.)
- CD-R/CD-RW discs may be damaged by direct exposure to sunlight, high temperatures or other storage conditions. The unit may be unable to play some damaged discs.
- If you insert a CD-RW disc into the player, playback will begin more slowly than with a conventional CD or CD-R disc.
- Recordings on CD-R/CD-RW cannot be played using the DDCD (Double Density CD) system.

USB MEMORY

- USB communication formats: USB 2.0 HS (480 Mbps) and FS (12 Mbps)
- File formats: FAT 16/32
- Correspondence class: Mass storage class

iPod

The following iPod®, iPod nano®, iPod classic®, iPod touch® and iPhone® devices can be used with this system.
Made for

- iPod touch (5th generation)
- iPod touch (4th generation)
- iPod touch (3rd generation)*
- iPod touch (2nd generation)*
- iPod touch (1st generation)*
- iPod classic
- iPod with video*

- iPod nano (7th generation)
- iPod nano (6th generation)
- iPod nano (5th generation)
- iPod nano (4th generation)
- iPod nano (3rd generation)
- iPod nano (2nd generation)*
- iPod nano (1st generation)*
- iPhone 5
- iPhone 4S
- iPhone 4*
- iPhone 3GS*
- iPhone 3G*
- iPhone*

*: The voice recognition system not supported

- Depending on differences between models or software versions etc., some models might be incompatible with this system.
- iPod video is not supported.
- For USA customers, please visit www.subaru.com for details. Outside of the USA customers, contact your local dealer to arrange a demonstration in order to confirm whether or not the phone can be paired with the vehicle.

SD CARD (WITH NAVIGATION FUNCTION)

SD cards that are marked as follows can be used.



- Audio files saved to the map SD card cannot be played.
- Multi Media Cards (MMC) cannot be used.
- Supported capacity: Maximum 32 GB
- Bumpy roads or other vibrations may make the SD player skip.

FILE INFORMATION**COMPATIBLE COMPRESSED FILES (Audio)**

Item	USB/SD*	DISC
Compatible file format	MP3/WMA/AAC	
Folders in the device	Maximum 3000	Maximum 192
Files in the device	Maximum 9999	Maximum 255
Files per folder	Maximum 255	—

*: With navigation function

CORRESPONDING SAMPLING FREQUENCY (Audio)

File type	Frequency (kHz)
MP3 files: MPEG 1 LAYER 3	32/44.1/48
MP3 files: MPEG 2 LSF LAYER 3	16/22.05/24
WMA files: Ver. 7, 8, 9 (9.1/9.2)	32/44.1/48
AAC files: MPEG4/AAC-LC	11.025/16/22.05/24/ 32/44.1/48

CORRESPONDING BIT RATES (Audio)

File type	Bit rate (kbps)
MP3 files: MPEG 1 LAYER 3	32 - 320
MP3 files: MPEG 2 LSF LAYER 3	8 - 160
WMA files: Ver. 7, 8	CBR 48 - 192
WMA files: Ver. 9 (9.1/9.2)	CBR 48 - 320
AAC files: MPEG4/AAC-LC	16 - 320

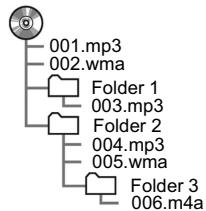
- The player is compatible with VBR (Variable Bit Rate).
- MP3 (MPEG Audio Layer 3), WMA (Windows Media Audio) and AAC (Advanced Audio Coding) are audio compression standards.
- This system can play MP3/WMA/AAC files on CD-R, CD-RW discs, USB memory, SD card*, and Bluetooth device.

*: With navigation function

- This system can play disc recordings compatible with ISO 9660 level 1 and level 2 and with the Romeo and Joliet file system.
- When naming an MP3/WMA/AAC file, add an appropriate file extension (.mp3/.wma/.m4a).
- This system plays back files with .mp3/.wma/.m4a file extensions as MP3/WMA/AAC files respectively. To prevent noise and playback errors, use the appropriate file extension.
- This system can play only the first session when using multi-session compatible CDs.
- MP3 files are compatible with the ID3 Tag Ver. 1.0, Ver. 1.1, Ver. 2.2 and Ver. 2.3 formats. This system cannot display disc title, track title and artist name in other formats.

- WMA/AAC files can contain a WMA/AAC tag that is used in the same way as an ID3 tag. WMA/AAC tags carry information such as track title and artist name.
- This system can play back AAC files encoded by iTunes.
- The sound quality of MP3/WMA files generally improves with higher bit rates. In order to achieve a reasonable level of sound quality, discs recorded with a bit rate of at least 128 kbps are recommended.
- The MP3/WMA player does not play back MP3/WMA files from discs recorded using packet write data transfer (UDF format). Discs should be recorded using "pre-mastering" software rather than packet-write software.
- M3u playlists are not compatible with the audio device.
- MP3i (MP3 interactive) and MP3PRO formats are not compatible with the audio device.
- When playing back files recorded as VBR (Variable Bit Rate) files, the play time will not be correctly displayed if the fast forward or rewind operations are used.
- It is not possible to check folders that do not include MP3/WMA/AAC files.

- MP3/WMA/AAC files in folders up to 8 levels deep can be played. However, the start of playback may be delayed when using discs containing numerous levels of folders. For this reason, we recommend creating discs with no more than 2 levels of folders.



- The play order of the compact disc with the structure shown above is as follows:

001.mp3 → 002.wma . . . → 006.m4a



- The order changes depending on the personal computer and MP3/WMA/AAC encoding software you use.

COMPATIBLE COMPRESSED FILES (Video)

▶ Video Codec

	File Type	Profile	Resolution (Pixels)
WMV9	WMV AVI	<ul style="list-style-type: none"> • Simple Profile • Main Profile • Advanced Profile 	128×96 160×120 176×144
	AVI MPEG4	<ul style="list-style-type: none"> • Simple Profile • Advanced Simple Profile 	320×240 352×240 352×288
	AVI MPEG4	<ul style="list-style-type: none"> • Baseline Profile • Main Profile • High Profile 	640×480 720×480 720×576

▶ Audio Codec

	File Type	Corresponding Sampling Frequency (kHz)	Corresponding Bit Rates (kbps)	Channel Mode
MP3	WMV AVI MPEG4	MPEG1 Layer3: 32/44.1/48 MPEG2 LSF Layer3: 16/22.05/24	MPEG1 Layer3: 32-320 MPEG2 LSF Layer3: 8-160	Stereo Joint Stereo Dual Channel Monaural
WMA Ver.7/8/9	WMV AVI	32/44.1/48	Ver. 7/8: 48-192 Ver. 9 (9.1/9.2): 48-320	Stereo
AAC	AVI MPEG4	11.025/16/22.05/24/32/44.1/48	16-320	Stereo Monaural

- The player is compatible with VBR (Variable Bit Rate).

TERMS

PACKET WRITE

- This is a general term that describes the process of writing data on-demand to CD-R, etc., in the same way that data is written to floppy or hard discs.

ID3 TAG

- This is a method of embedding track-related information in an MP3 file. This embedded information can include the track number, track title, the artist's name, the album title, the music genre, the year of production, comments, cover art and other data. The contents can be freely edited using software with ID3 tag editing functions. Although tags are restricted to a certain number of characters, the artist name, track title, and album title can be viewed when the track is played back.

WMA TAG

- WMA files can contain a WMA tag that is used in the same way as an ID3 tag. WMA tags carry information such as track title and artist name.

ISO 9660 FORMAT

- This is the international standard for the formatting of CD-ROM folders and files. For the ISO 9660 format, there are 2 levels of regulations.
 - Level 1: The file name is in 8.3 format (8 character file names, with a 3 character file extension. File names must be composed of one-byte capital letters and numbers. The “_” symbol may also be included.)
 - Level 2: The file name can have up to 31 characters (including the separation mark “.” and file extension). Each folder must contain fewer than 8 hierarchies.

m3u

- Playlists created using “WINAMP” software have a playlist file extension (.m3u).

MP3

- MP3 is an audio compression standard determined by a working group (MPEG) of the ISO (International Standard Organization). MP3 compresses audio data to about 1/10 the size of that on conventional discs.

WMA

- WMA (Windows Media Audio) is an audio compression format developed by Microsoft®. It compresses files into a size smaller than that of MP3 files. The decoding formats for WMA files are Ver. 7, 8 and 9.
- This product is protected by certain intellectual property rights of Microsoft Corporation and third parties. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft or an authorized Microsoft subsidiary and third parties.

AAC

- AAC is short for Advanced Audio Coding and refers to an audio compression technology standard used with MPEG2 and MPEG4.

MEMO