

OWNERS MANUAL CONTENTS

IMPORTANT: Not all specifications and features in this manual are applicable nor described for this vehicle.

Operating Instructions

WARNING

Points to Observe for Safe Usage	7
WARNING	7
CAUTION	8
NOTICE	9

Getting Started

Location of Controls	10
Operating the Steering Wheel Controls	10
Turning Power On or Off	11
Adjusting the Volume	11
Lowering Volume Quickly	11
Turning off the screen/button illumination (Display OFF)	11
Touch Screen Operation	11
Switching Sources	12
Selecting an Item in a List	12
About the HOME Screen	12
About the Indicator Display	13

Setup

Setup Operation	14
-----------------------	----

Device Setup

Displaying Device List	14
Pairing the Bluetooth® Device	15
Connecting the Device Registered in the Device List	15
Disconnecting the Connected Device	15
Deleting a Bluetooth® Device from the list	15
Wi-Fi Setup	16
Setting the Wi-Fi Mode	16
Connecting to Wi-Fi Access Point	16
Changing the Wi-Fi password of the unit	17
Bluetooth® Setup	18
Setting the Bluetooth®	18
Setting the Auto Connection	18
Setting the PIN Code	18
Displaying Device Information	18

Function Setup

Apple CarPlay Setup	18
Adjusting the Media Level	18
Adjusting the Phone Calls Volume	19
Adjusting the Ringtones and Alerts Level	19
Adjusting the Notifications and Guidance Level	19
Adjusting the Voice Recognition Level	19
Adjusting the Microphone Level	19
Android Auto Setup	19
Adjusting the Media Level	19
Adjusting the Phone Calls Volume	19
Adjusting the Ringtones and Alerts Level	19
Adjusting the Notifications and Guidance Level	20
Adjusting the Voice Recognition Level	20
Adjusting the Microphone Level	20
Radio Setup	20
Adjusting the Radio Volume	20
Adjusting the Interrupt Volume	20
Setting the TA/Traffic Interrupt	20
Setting the News Interrupt	20
Setting the PTY31/Alarm Interrupt	20
Setting the PTY Seek Item	20
Setting the RDS Regional Mode	21
PI SEEK Setting	21
Turning AF (Alternative Frequencies) On or Off	21
Setting the DAB Antenna ON/OFF	21
USB Setup	21
Adjusting the USB Volume	21
Video Setup	21
iPod Setup	22
Adjusting the iPod Volume	22
AUX (Auxiliary) Setup	22
Adjusting the AUX Volume	22
Setting the Auxiliary (AUX) Name	22
Video Setup	22
HDMI Setup	23
Adjusting the HDMI Volume	23
Setting the HDMI Name	23
Video Setup	23
Phone Setup	23
Adjusting the Ringtone Volume	23

Adjusting the Phone Calls Volume	24
Adjusting the Microphone Level	24
Setting the Phonebook Transfer	24
Setting the Phonebook Name Order	24
Setting the Phonebook Calendar	24
Bluetooth® Audio Setup	24
Adjusting the Bluetooth® Audio Volume	24
CAN I/F BOX Setting	24
Camera Setup	24
Setting the Reverse Camera (Camera 1)	24
Reverse Camera Signal Input Setting	25
Camera 2 Setup	25
Camera Guide Setup	25
Video Setup	25
Setting the Mute while Reversing	25
TIDAL Setup	26
Confirm Login User Name	26
Setting the Streaming Quality	26
Adjusting the TIDAL Volume	26
Logging out of TIDAL	26
Navigation Setup	26

System Setup

Adjusting the Key Sound	27
Setting the Microphone Effect	27
Language Setup	27
Adjusting the Clock	28
Setting the Time Format	28
Setting the Time Zone	28
Setting the Daylight Savings Time	28
Setting the Home Screen Type	28
Screen/Lighting Setup	28
Setting the Brightness of the Backlighting (Dimmer)	28
Adjusting the Dimmer of Button Lighting at Night	28
Adjusting the Minimum Level of Backlight	28
Switching the Display Colour	28
Editing HOME screen	29
Setting Security Code	29
Setting the password	29
Clearing the password	29
Vehicle Type Setup	29
Steering wheel Setting	29
Audio Leveling	29

Installation Setup	30
General Information	30
Displaying the Product Information	30
Updating Firmware Version	30
Dedicated Tuning According to Your Car (Car by Car Update)	30
Displaying Software Licence	30
Initialising the Sound Settings	30
Initialising the System	30

Sound Setup

Setting the Media Xpander (MX)	31
Equaliser Settings	31
Adjusting the Parametric Equaliser Curve (Advanced EQ/Basic EQ)	31
Equaliser Presets (Preset EQ)	32
Fader/Balance/Rear Speaker/Subwoofer Settings	33
Setting the Fader/Balance	33
Rear Speaker Setting	33
Turning Subwoofer ON/OFF	33
Time Correction Settings	33
Crossover Settings (X-OVER)	34
Setting the "bass engine"	34
Adjusting Bass Level/Treble Level	35
Setting the Subwoofer	35
Adjusting the Subwoofer Level	35
Setting the Subwoofer Phase	35
Setting the Navigation	35
Defeat Setting	35
About the Crossover	35
About Time Correction	36

Apple CarPlay (Optional)

Access to Apple CarPlay	37
Using Voice Recognition function	37

Android Auto (Optional)

What is Android Auto	38
Activate Android Auto	38
Using Voice Recognition function	38

Radio/RDS

Radio Basic Operation

Listening to the Radio	39
Presetting Stations Manually	39
Presetting Stations Automatically.....	40
Tuning to Preset Station	40

RDS Operation

Turning AF (Alternative Frequencies) On or Off	40
Interruption Function	40
Receiving Traffic Announcement	41
Displaying Radio Text	41

DAB/DAB+

Listening to DAB/DAB+.....	42
Presetting Service	42
Tuning to Preset Service	42
Service Component/PTY Search Function	42
Service Search Function	42
PTY Search Function	42
Interruption Function	43
Receiving Traffic Announcement	43
Displaying DAB Text	43
Displaying the Slide Show by Enlarging	43
About DAB/DAB+	43

USB Flash drive (Optional)

USB Audio

Playback.....	44
Repeat Play.....	44
Shuffle Play.....	45
Searching for a Desired Song.....	45

USB Video

Playback.....	46
Fast-forwarding/Fast-reversing	46
Repeat Play.....	46
Shuffle Play.....	47
Searching for a Desired file	47
Switching Display Modes	47
Switching the Audio Tracks	47

iPod mode on iPhone (Optional)

Playback.....	48
Searching for a Music File.....	49
Repeat Play.....	49

Shuffle Play	49
--------------------	----

HDMI Device (Optional)

HDMI Operation.....	50
Switching the HDMI Input	50
Switching Display Modes.....	50

Bluetooth® Operation

Setup Before Using	51
About Bluetooth®	51
About the Hands-free Phone	51
Before Using Bluetooth®	51

Hands-free Phone Control

Answering a Call	52
Hanging up the Telephone.....	52
Calling.....	52
Making a phone call using the Phone Menu	52
Phone Operation Screen	53
Adjusting the Speech Volume	53
Changing the Voice Output.....	53
Muting the Microphone	53
DTMF (Touch-Tone) Function	53
Phone Book Function	53
Searching in the Phone Book	53
Synchronising the Phone Book.....	54
Deleting the Phone Book Entries	54

Bluetooth® Audio

Playback.....	55
Repeat Play	55
Shuffle Play	56
Searching for a Desired file.....	56
Connecting a Bluetooth® Device.....	56
Disconnecting the Bluetooth® Connection	56
Switching the Connecting Bluetooth® Device	56

TIDAL Operation (Optional)

Logging in to TIDAL.....	57
Playback.....	58
Adding to the Preset List	58
Recalling from the Preset List	58
Repeat Play	58
Shuffle Play	58
Search	59
Search from My Collection.....	59
Displaying the Playlist	59

Adding to Favourite Category.....	60
Adding to Playlists	60
Search for Content Related to the Track Being Played.....	60
Search for Content Related to the Artist Being Played.....	61

Auxiliary Device (Optional)

Operating Auxiliary Devices (Optional)	62
Switching Display Modes	62

Camera Operation

Rear Camera Operation.....	63
Displaying the rear view video while the car is in reverse	63
Displaying the Camera Image from the HOME screen	63
Guide Display ON/OFF Setting	63
Adjusting the Caution Display Location	63
Hitch Guide Display ON/OFF Setting	63
About the Rear Camera Guide.....	64
Switching the Image Pattern for the Rear Camera	65

Cleaning your display

How to clean your display	66
---------------------------------	----

Information

Product Software Update.....	66
About the Supported Formats	66
About MP3/WMA/AAC/FLAC/WAV/APE	66
In Case of Difficulty.....	68
If this Message Appears	69
Specifications.....	70

Connections

System Example	72
----------------------	----

Operating Instructions

PRECAUTIONS

IMPORTANT INFORMATION, PLEASE READ CAREFULLY BEFORE USING THIS PRODUCT.

This product is intended to safely provide turn-by-turn instructions to get you to a desired destination. Please read the following precautions to ensure that you use connected smartphone navigation apps correctly.

- *This product is not a substitute for your personal judgement. Any route suggestions made by this navigation system should never supersede any local traffic regulations or your personal judgement and/or knowledge of safe driving practises. Do not follow route suggestions if the navigation application instructs you to perform an unsafe or illegal manoeuvre, places you in an unsafe situation, or routes you into an area which you consider unsafe.*
- *Glance at the screen only when necessary and safe to do so. If prolonged viewing of the screen is necessary, stop in a safe, legal manner and location.*
- *Do not input destinations, change settings, or access any functions requiring a prolonged view of the monitor while you are driving. Stop in a safe, legal manner and location before attempting to input desired location into the navigation app.*
- *When using navigation apps to find/route to an emergency service, please contact the facility to validate and verify availability, prior to driving to it. Not all locations of emergency service providers such as police and fire stations, hospitals, and clinics are contained in the database. Please use your own judgement and your ability to ask for directions in these situations.*
- *There may be situations where the navigation app may display the vehicle's location erroneously. Use your own driving judgement in this situation, taking into account current driving conditions. Please be aware that in this situation, the navigation app should correct the vehicle's position automatically; however, there may be times where you may have to correct the position yourself. If this is the case, stop in a safe and legal manner and location before attempting operation.*
- *Make certain that the volume level of the unit is set to a level which still allows you to hear outside traffic and emergency vehicles. Driving while unable to hear outside sounds could cause an accident.*

WARNING

Points to Observe for Safe Usage

- Read this manual carefully before using this system components. They contain instructions on how to use this product in a safe and effective manner. Mazda cannot be responsible for problems resulting from failure to observe the instructions in this manual.
- This manual uses various pictorial displays to show you how to use this product safely and to alert you to potential dangers resulting from improper operation. Following are the meanings of these pictorial displays. It is important to fully understand the meanings of these pictorial displays in order to use this manual and the system properly.
- This product may be used with software applications. Please follow all usage instructions and warnings when using this product at all times. Do not use this product or any software application in a manner which will hinder safe operation of your vehicle.

WARNING

- Operation of the system while driving is dangerous. Users should stop vehicle before operating the software.
- Road conditions and regulations take precedence over information contained on the map display: observe actual traffic restrictions and circumstances while driving.
- This software is designed for use exclusively in the unit. It cannot and may not be used in conjunction with other hardware.

WARNING

This symbol means important instructions. Failure to heed them can result in serious injury or death.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.

Failure to do so may result in fire or electric shock.

DO NOT WATCH VIDEO WHILE DRIVING.

Watching the video may distract the driver from looking ahead of the vehicle and cause an accident.

DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.

Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

KEEP THE VOLUME AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISES WHILE DRIVING.

Excessive volume levels that obscure sounds such as emergency vehicle sirens or road warning signals (train crossings, etc.) can be dangerous and may result in an accident. LISTENING AT LOUD VOLUME LEVELS IN A CAR MAY ALSO CAUSE HEARING DAMAGE.

MINIMISE DISPLAY VIEWING WHILE DRIVING.

Viewing the display may distract the driver from looking ahead of the vehicle and cause an accident.

**CAUTION**

This symbol means important instructions. Failure to heed them can result in injury or material property damage.

HAULT USE IMMEDIATELY IF A PROBLEM APPEARS.

Failure to do so may cause personal injury or damage to the product. Return it to your authorised Mazda dealer.

**CAUTION**

No responsibility is taken for lost data, etc., even if data, etc., is lost while using this product.

On Handling USB Flash drive

- This unit can control a memory storage device that supports the USB Mass Storage Class (MSC) protocol. Playable audio file formats are MP3, WMA, AAC, FLAC, WAV and APE.
- USB Flash drive function is not guaranteed. Use a USB flash drive according to the terms of agreement. Read the USB flash drive Owner's Manual thoroughly.
- Avoid usage or storage in the following locations: Anywhere in the car exposed to direct sunlight or high temperatures. Anywhere the possibility of high humidity or corrosive substances are present.
- Connect the USB flash drive in a location where driver operation will not be hindered.
- USB Flash drive may not function correctly at high or low temperature.
- Use only certified USB flash drive. Note that even certified USB flash drive, may not function correctly depending on its type or state.
- Depending on the settings of the USB flash drive type, memory state or encoding software, the unit may not play back or display properly.
- USB Flash drive may take time to start playback. If there is a particular file other than audio in the USB flash drive, it may take considerable time before the file is played back or searched.
- The unit can play back "mp3","wma","m4a","flac","fla","wav", and "ape" file extensions.
- Do not add the above extensions to a file other than audio data. This non-audio data will not be recognized. The resulting playback may contain noise that can damage speakers and/or amplifiers.
- It is recommended to back up important data on a personal computer.
- Do not remove the USB device while playback is in progress. Change SOURCE to something other than USB, then remove the USB device to prevent possible damage to its memory.

- Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.
 - Apple, iPhone, iPod, Lightning and Siri are trademarks of Apple Inc., registered in the U.S. and other countries. Apple CarPlay is a trademark of Apple Inc.
 - Use of the Made for Apple and Works with Apple badges means that an accessory has been designed to connect specifically to the Apple product(s) identified in the Made for Apple badge and to work specifically with the technology identified in the Works with Apple badge, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.
Please note that the use of this accessory with an Apple product may affect wireless performance.
 - Use of the Apple CarPlay logo means that a vehicle user interface meets Apple performance standards. Apple is not responsible for the operation of this vehicle or its compliance with safety and regulatory standards. Please note that the use of this product with iPhone may affect wireless performance.
 - Google, Android, Google Play and Android Auto are trademarks of Google LLC.
To use Android Auto on your car display, you'll need an Android phone running Android 6.0 or higher, an active data plan, and the Android Auto app.
 - The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.
 - The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth® SIG, Inc. and any use of such marks by ALPS ALPINE Co., LTD. is under Licence. Other trademarks and trade names are those of their respective owners.
 - The Wi-Fi CERTIFIED™ Logo is a registered trademark of Wi-Fi Alliance®.
 - LDAC and LDAC logo are trademarks of Sony Corporation.
 - The product with this logo is conformed to High-Resolution Audio standard defined by Japan Audio Society. This logo is used under Licence from Japan Audio Society.
 - MQA and the Sound Wave Device are registered trademarks of MQA Limited © 2016.
- Made for iPhone SE (2nd generation), iPhone 11 Pro Max, iPhone 11 Pro, iPhone 11, iPhone XS Max, iPhone XS, iPhone XR, iPhone X, iPhone 8 Plus, iPhone 8, iPhone 7 Plus, iPhone 7, iPhone SE, iPhone 6s Plus, iPhone 6s.

NOTICE

Product Cleaning

Use a soft dry cloth for periodic cleaning of the product. For more severe stains, please dampen the cloth with water only. Anything else has the chance of dissolving the paint or damaging the plastic.

Temperature

Be sure the temperature inside the vehicle is between +45°C (+113°F) and 0°C (+32°F) before turning your unit on.

Maintenance

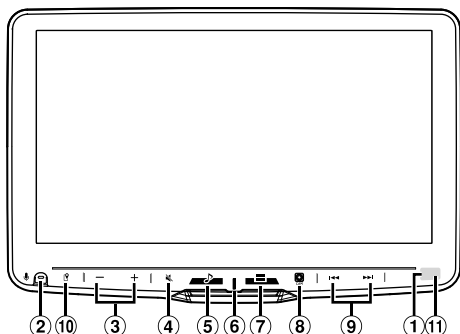
If you have problems, do not attempt to repair the unit yourself. Return it to your Mazda Dealer or the nearest Mazda Service Station for servicing.

Protecting the USB connector

- Only a compatible smartphone or USB flash drive can be connected to the USB connector on this unit. Correct performance using other USB products cannot be guaranteed.
- If the USB connector is used, be sure to use only the connector cable supplied with smartphone to the unit. A USB hub is not supported.
- Depending on the connected USB flash drive, the unit may not function or some functions may not be performed.
- The audio file formats that can be played on the unit are MP3/WMA/AAC/FLAC/WAV/APE.
- Artist/song name, etc., can be displayed. Certain, special characters may not be correctly displayed.

Getting Started

Location of Controls



- ① **Dimmer Sensor**
Senses the brightness of the car interior.
- ② **voice button**
Activate Siri function or voice recognition mode while Apple CarPlay or Android Auto is connected.
- ③ **— / + (DOWN/UP) button**
Adjusts the volume.
- ④ **(MUTE) button**
Activates/deactivates MUTE mode.
Press and hold this button for at least 2 seconds to turn off the screen/button illumination.
- ⑤ **🎵 (Audio) button**
Displays the Audio playback screen.
Audio sources can be switched while the Audio playback screen is displayed.
 - When displaying a screen different from the audio source (such as the map screen for Apple CarPlay or Android Auto), the audio source is switched without changing the screen display.
- ⑥ **Power indicator**
- ⑦ **🏠 (HOME) button**
Displays the HOME screen.
The Sound Setup screen is displayed while the HOME screen is displayed.
Press and hold this button for at least 2 seconds to turn the power off.
- ⑧ **📷 (CAM) button**
Displays the image of the Reversing Camera.
Press for 1 second or more to return to the previous screen.

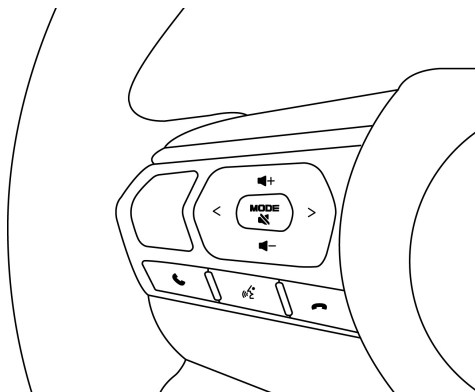
- ⑨ **⏮️/⏭️ button**
Press to seek up/down a station in radio mode or up/down a track, etc., in other audio/visual sources.
- ⑩ **📍 (MAP) button**
Displays the map screen for Apple CarPlay / Android Auto when Apple CarPlay or Android Auto is connected.
- ⑪ **Remote Sensor**
Point a remote control transmitter towards the remote sensor within a range of 2 meters. (Wireless IR Remote Sold Separately)

About the button descriptions used in this Owner's Manual

The buttons found on the face of the unit are expressed in bold (e.g. 🏠 (**HOME**)). The buttons found on the touch-screen display are shown in bold within brackets, [] (e.g. [OK]).

Operating the Steering Wheel Controls

Various functions of the head unit can be operated via the steering wheel buttons. The steering wheel buttons are located on the left side of the steering wheel as illustrated below.



- 🔊** Short Press to raise audio volume in single step increments.
Long Press to continuously raise audio volume.
- 🔊** Short Press to lower audio volume in single step increments.
Long Press to continuously lower audio volume.
- >** Short Press to seek forward the next audio track or radio station. **Long Press to scrub forward through existing track.**
- <** Short Press the button to seek the previous audio track or radio station. **Long Press to scrub backward through existing track.**
- MODE** Short Press the button to trigger next available audio source, **Long Press to mute audio volume.**
- 📞** Short Press to answer incoming phone call or go to phone menu.
- 📞** Short Press to decline incoming phone call or to disconnect existing call.
- 🗣️** Short Press to activate voice assistant within Apple CarPlay or Android Auto (optional)

Turning Power On or Off

When the ignition key is turned to ACC or ON, the opening screen will be automatically displayed.

1 Turn the ignition key to the ACC or ON position.

The unit turns on.

- When using the system for the first time, the HOME screen is displayed.
- When turned on, the unit displays the last screen that was displayed before the ignition key was turned off. For example, if the unit is in radio mode when ignition is turned off, it will remain in radio mode when ignition is turned back on.

2 To turn the unit to off, turn the ignition key to the OFF position.

- The unit is a precision device. Careful handling of the unit should provide you with years of trouble-free operation.
- Some of this unit's functions cannot be performed while the vehicle is in motion. Be sure to stop your vehicle in a safe location and apply the parking brake before attempting these operations.

Adjusting the Volume

Adjust the volume by touching – / +.

Volume decreases/increases continuously by touching and holding – / +.

Volume: 0 to 35

Lowering Volume Quickly

Audio Mute function instantly lowers the volume level to 0.

1 Press the (MUTE) button to activate MUTE mode.

The audio level will be 0 and the mute indicator will flash.

2 Press the (MUTE) button again to bring the audio back to previous volume level.

Turning off the screen/button illumination (Display OFF)

You can turn off the screen and button illumination without changing the audio output.

1 Press and hold the (MUTE) button for at least 2 seconds.

The screen/button illumination is turned off.

2 To cancel Display OFF mode, press and hold the (MUTE) button for at least 2 seconds or touch the screen.

- When there is an interrupt such as an incoming hands-free call, Display OFF is canceled.

Touch Screen Operation

You can operate the unit by using the touch panel display.

- Be sure to touch the onscreen button lightly with the pad of your finger to avoid scratching the display.

Touch operation

Touch a button or list item on the screen lightly.



- If you touch a button and there is no reaction, lift your finger.
- Onscreen buttons that cannot be operated are dimmed.

Swipe operation (Enhanced Text Mode only)

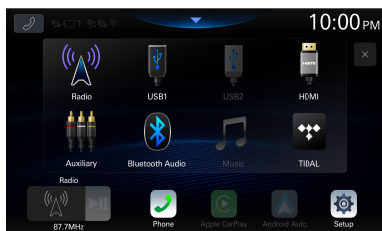
Move your finger lightly with a swipe.



Switching Sources

1 Press the (HOME) button.

The HOME screen is displayed.



2 Touch your desired source icon.

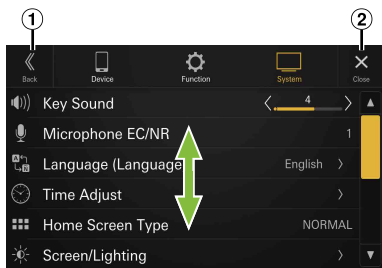
- You can change the audio source icon location on the screen. For details, see “Editing HOME screen” (page 29).

Selecting an Item in a List

To scroll through a list, perform the following operations.

Touch the screen and slide your finger up and down.

The screen will scroll along with your finger movement.



① Returns to the previous screen.

② Closes the window.

- After touching the screen, move your finger away from the screen before dragging and that item will be selected.

About the HOME Screen

In the HOME screen, select the audio source to perform various settings and operations of the function.

- The HOME screen can be switched between Normal mode and Enhanced Text mode. For details, see “Setting the Home Screen Type” (page 28).

Press the (HOME) button.

The HOME screen is displayed.


■ Normal mode screen example



■ Enhanced Text mode screen example



① Touch to display the Sound Setup screen.

- The Sound Setup screen can also be displayed by pressing the  (HOME) button while the HOME screen is displayed.

② Touch to change the page.

- Pages can also be changed by swiping the HOME screen horizontally with your finger.

③ Audio source select area

Touch your desired source icon to change the audio source.

- The order of source icons can be changed. For details, see “Editing HOME screen” (page 29).

④ HOME screen navigation

⑤ Thumbnail window for the current source

Source name, artwork and title information are displayed. Touch the artwork to display the source screen. Touch [▶||] to play/pause a track or video.

About the Indicator Display

The Indicator Bar at the top of the screen displays various types of information, like the current time.



① Phone shortcut button

The Device List screen is displayed when a Phone, CarPlay or Android Auto device is not connected. The hands-free phone screen (Recent Call, Phone Book, Keypad) is displayed when the hands-free phone is connected. The screen of the previous logout is displayed. The Apple CarPlay screen is displayed while Apple CarPlay is connected. The Android Auto screen is displayed while Android Auto is connected.

② Lights up when connecting the hands-free phone ① via Bluetooth®. (Does not display when connection is set to OFF.)

③ Indicates the battery level of the connected hands-free phone ①.

No Battery	Level 1	Level 2	Level 3	Level 4	Level 5

• This may not be displayed for the hands-free phone ②.

④ Indicates the Bluetooth® signal strength level of the connected hands-free phone ①. Displayed when Bluetooth® setting is ON.

0	1	2	3	4	5

• This may not be displayed for the hands-free phone ②.

⑤ Lights up when connecting the audio device via Bluetooth®. (Does not display when connection is set to OFF.)

⑥ Lights up when connecting the hands-free phone ② via Bluetooth®. (Does not display when connection is set to OFF.)

⑦ Indicates a Wi-Fi signal strength level when connected to a Wi-Fi access point with a valid internet connection.

0	1	2	3	4

⑧ Lights up when connecting a separately sold ALPINE KNOB (RUE-BK01A) via Bluetooth®. You can use RUE-BK01A to adjust the volume level of this unit and switch the camera on or off. For details, refer to the Owner's Manual of RUE-BK01A.

⑨ Indicates the current time.

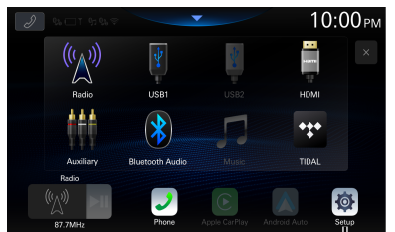
Touch to turn ON/OFF the clock display. You can switch between the 12 hour display and 24 hour display options (page 28).

Setup

Setup Operation

1 Press the (HOME) button.

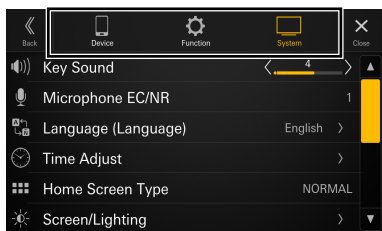
The HOME screen is displayed.



[Setup] button

2 Touch [Setup].

The Settings menu screen is displayed.



3 Touch the required setting category on the upper part of the Settings menu screen, and then touch the setting item.

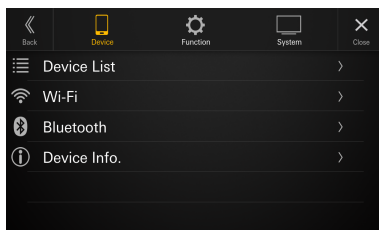
Setting categories:

- Device: See "Device Setup" (page 14)
- Function: See "Function Setup" (page 18)
- System: See "System Setup" (page 27)

Device Setup

[Device] is selected on the Settings menu screen.

■ Device Setup Menu screen



Setting items:

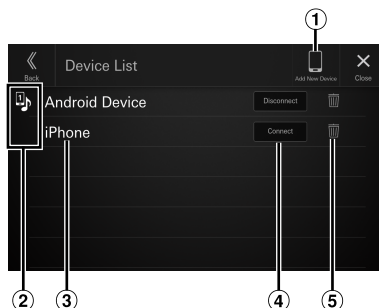
- Device List (page 14)
- Wi-Fi (page 16)
- Bluetooth® (page 18)
- Device Info. (page 18)

Displaying Device List

[Device List] is selected on the Device Setup menu screen.

The list of devices registered or connected to this unit is displayed. 10 devices compatible with Bluetooth® and Wi-Fi, and 1 device compatible with Apple CarPlay or Android Auto connected via USB, can be displayed.








■ Device List screen example



① Add New Device

Search for Bluetooth® compatible devices. For details, see "Pairing the Bluetooth® Device" (page 15).

② Function icon

-  : Hands Free1
-  : Hands Free2
-  : Bluetooth® Audio
-  : Hands Free1 + Bluetooth®
-  : Hands Free2 + Bluetooth®
-  : Audio : Apple CarPlay
-  : Android Auto

- ③ Device Name or Device Address
- ④ Connect or disconnect the selected device. For details, see "Connecting the Device Registered in the Device List", "Disconnecting the Connected Device" (page 15).
- ⑤ Delete the selected device information. For details, see "Deleting a Bluetooth® Device from the list" (page 15).

Pairing the Bluetooth® Device

Search for Bluetooth® compatible

devices. **Setting item:**

Add New Device

1 Touch [Add New Device].

A search for devices to connect wirelessly to the unit starts.

The Search List is displayed, and the list of searched devices is displayed.

2 Touch a device to connect in the list.

3 When a code is displayed on the device, check that the code is the same as the one on the screen of the unit, and touch [Yes].

When the device connection is complete, a message appears and the device returns to normal mode.

Connecting the Device Registered in the Device List

Select one of 10 paired Bluetooth® or Wi-Fi compatible devices that you previously registered.

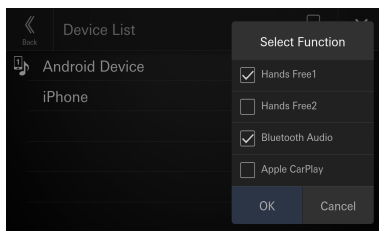
- If you want to use Apple CarPlay or Android Auto with a wireless connection, set the "Wi-Fi Mode" setting to [Phone Link Mode]. For details, see "Setting the Wi-Fi Mode" (page 16). Also, set the Wi-Fi function of your iPhone or Android smartphone to "On".

1 Touch [Connect] of the device you want to connect from the Paired Device list.

The Function Select screen is displayed.

2 Select the function of the connecting device on the Select Function screen, and touch [OK].

A check mark is displayed for the selected function.



Hands Free1: The device is used as the first hands-free phone or Android Auto.

Hands Free2: The device is used as the second hands-free phone or Android Auto.

Bluetooth® Audio: The device is used as an Bluetooth® Audio device.

Apple CarPlay*: The device is used as Apple CarPlay.

Android Auto*: The device is used as Android Auto.

* If you want to use Apple CarPlay or Android Auto mode without displaying [Apple CarPlay] or [Android Auto] on the Select Function screen, select [Hands Free1] or [Hands Free2] to connect your device.

- For example, when the device is used as a hands-free phone and Bluetooth® Audio, select [Hands Free1] and [Bluetooth® Audio].

When the device connection is complete, a message appears and the device returns to normal mode.

Disconnecting the Connected Device

Touch [Disconnect] of the device you want to disconnect from the Paired Device list.

The device is disconnected.

Deleting a Bluetooth® Device from the list

You can delete the information of a previously connected Bluetooth® compatible device.

1 Touch [] (Delete) of the Bluetooth® compatible device to delete from the Paired Device list.

2 Touch [Yes].

- Touching [No] will cancel the setting.

Wi-Fi Setup

[Wi-Fi] is selected on the Device Setup menu screen.

Setting the Wi-Fi Mode

Set the Wi-Fi mode according to the environment in which Wi-Fi is used.

Setting item:

Wi-Fi Mode

Setting contents:

OFF (Initial setting) / Internet Mode / Phone Link Mode

OFF: Wi-Fi is Off.

Internet Mode: Select this item when connecting to a Wi-Fi access point with an internet connection to update software or use TIDAL.

When the Internet Mode is selected, the Wi-Fi Management setting is enabled. For details, see “Connecting to Wi-Fi Access Point” (page 17).

Phone Link Mode: Select this item to use Apple CarPlay or Android Auto with a wireless connection.

When the Phone Link Mode is selected, the PSK for Phone Link setting is enabled. For details, see “Changing the Wi-Fi password of the unit” (page 17).

- *Wireless Apple CarPlay and Android Auto are not available when the Internet Mode is selected. If you want to use a device that works with an internet connection (such as TIDAL) and Apple CarPlay/Android Auto at the same time, connect your iPhone or smartphone via USB.*

Connecting to Wi-Fi Access Point

To update the software of this product or use TIDAL, it is necessary to connect to a Wi-Fi access point with a valid internet connection.

- Available only when “Wi-Fi Mode” setting is [Internet Mode] (page 16).

* Data rates may apply. Please check with your carrier for details.

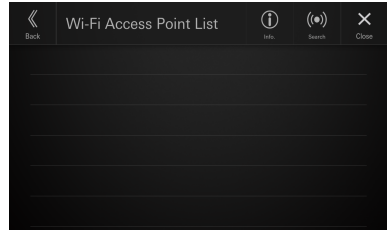
Setting item:

Wi-Fi Management

1 Touch to select [Wi-Fi Management].

The Wi-Fi Access Point List screen is displayed.

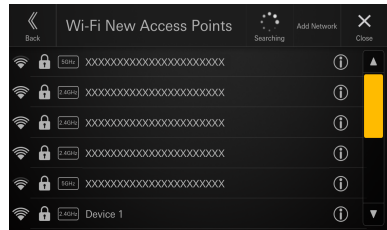
2 Touch to select [Search].



Search for the Wi-Fi access point. Once the search is finished, the Wi-Fi New Access Points List screen is displayed.

- The connected access points are not displayed on the search screen.

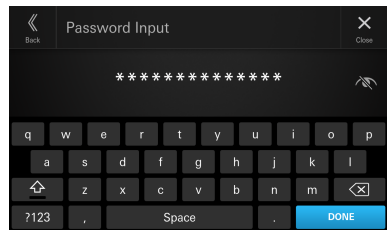
3 Touch to select the access point in the list to connect.



The password input screen is displayed.

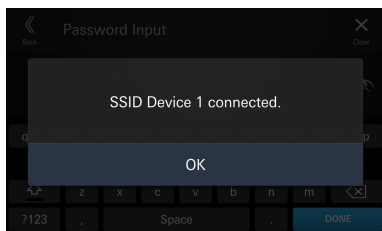
- When you touch [Add Network] on the Wi-Fi New Access Points screen, you can connect to a new access point by manually entering the SSID, security and password for the access point. 1 to 32 characters can be input for the SSID, and 8 to 64 characters for the password. If [None] is entered for security, password input is not required.

4 Enter a password, then touch to select [DONE].

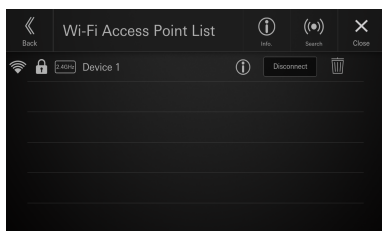


- Touch [X] to delete an entered number.

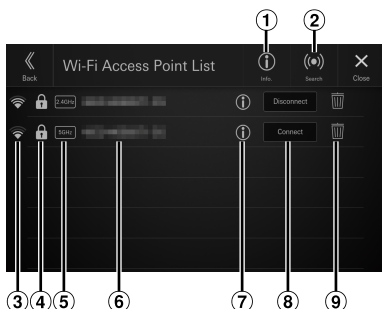
5 Touch to select [OK].



When the access point connection is complete, the Wi-Fi Access Point List screen is displayed.



■ Wi-Fi Access Point List screen example



- ① Info.
Touch to display the MAC address and IP address of this unit.
- ② Search
Search for Wi-Fi access points. For details, see "Connecting to Wi-Fi Access Point" (page 16).
- ③ Signal strength of the access point
- ④ Security prompt (None/WEP/WPA/WPA2/WPA3) of the access point
- ⑤ Band display of the access point
- ⑥ SSID of the access point
- ⑦ Display detailed information on the access point

- ⑧ Connect or disconnect the selected Wi-Fi access point. For details, see "Connecting an Access Point registered in the Wi-Fi Access Point List"; "Disconnecting the Connected Access Point" (page 17).
- ⑨ Delete the selected Wi-Fi access point. For details, see "Deleting the Access Point from the list" (page 17).

Connecting an Access Point registered in the Wi-Fi Access Point List

Select a Wi-Fi access point from a registered list.

Touch [Connect] of the access point you want to connect from the Wi-Fi Access Point List.

Wi-Fi connection will start.

Disconnecting the Connected Access Point

Touch [Disconnect] of the access point you want to disconnect from the Wi-Fi Access Point List.

The access point is disconnected.

Deleting the Access Point from the list

You can delete the information of a previously connected access point.

1 Touch [] (Delete) of the access point to delete from the Wi-Fi Access Point List.

2 Touch [OK].

- Touching [Cancel] will cancel the setting.

Changing the Wi-Fi password of the unit

You can randomly change the Wi-Fi password (PSK) of the unit.

- Available only when "Wi-Fi Mode" setting is [Phone Link Mode] (page 16).

Setting item:

PSK for Phone Link

Touch [] of "PSK for Phone Link".

The Wi-Fi password (PSK) is changed.

- This password is generated on this product. You cannot create a new password.



Bluetooth® Setup

[**Bluetooth®**] is selected on the Device Setup menu screen.

Setting the Bluetooth®

Set to [**On**] when connecting the unit to the Bluetooth® compatible device.



Setting item:
Bluetooth®

Touch [] (**Off**) or [] (**On**) of “**Bluetooth®**”.

Setting the Auto Connection

You can connect the last connected device automatically.

Setting item:
Auto Connection

Touch [] (**Off**) or [] (**On**) of “**Auto Connection**”.

Setting the PIN Code

You can set the PIN code for connecting with a Bluetooth® compatible device.

Setting item:
Bluetooth® PIN Code


1 **Touch [Bluetooth® PIN Code].**

A numeric keypad screen is displayed.

2 **Touch [Delete All].**

The displayed PIN code is cleared, then you can enter the new PIN code.

3 **Enter a 4-digit passcode, and then touch [OK].**

- The initial number is 0000.
- Touch [] to delete an entered number.
- Touch [**Delete All**] to delete all entered numbers.

Displaying Device Information

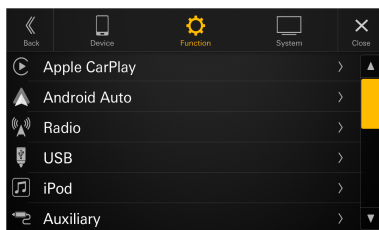
You can display the Bluetooth® or Wi-Fi device name and device address of this unit.

Setting item:
Device Info.

Function Setup

[**Function**] is selected on the Settings menu screen.

■ Function Setup Menu screen



Setting items*:

Apple CarPlay (page 18)	HDMI (page 23)
Android Auto (page 19)	Phone (page 23)
Radio (page 20)	Bluetooth® Audio (page 24)
USB (page 21)	Camera (page 24)
iPod (page 22)	TIDAL (page 26)
Auxiliary (page 22)	

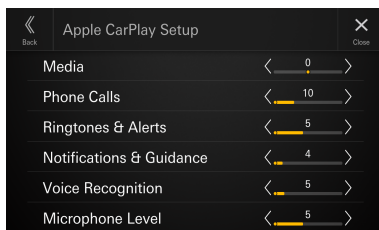
* Dash Cam is displayed in the setting item, but this unit does not support it.

* Navigation is displayed in the setting item, but this unit does not support it.

* CAN I/F BOX is displayed in the setting item, but this unit does not support it.

Apple CarPlay Setup

[**Apple CarPlay**] is selected on the Function Setup Menu screen.



Adjusting the Media Level

Setting item:
Media

Setting level:
-14 to +14 (Initial setting: 0)

Touch [] or [] of “**Media**” to set the media volume level for CarPlay playback.

Adjusting the Phone Calls Volume

Setting item:

Phone Calls

Setting level:

1 to 35 (Initial setting: 5)

Touch [<] or [>] of “Phone Calls” to set the calls volume level.

Adjusting the Ringtones and Alerts Level

Setting item:

Ringtones & Alerts

Setting level:

1 to 11 (Initial setting: 5)

Touch [<] or [>] of “Ringtones & Alerts” to set the volume level for Ringtones and Alerts.

Adjusting the Notifications and Guidance Level

Setting item:

Notifications & Guidance

Setting level:

1 to 35 (Initial setting: 10)

Touch [<] or [>] of “Notifications & Guidance” to set the volume level for Notifications and Guidance.

Adjusting the Voice Recognition Level

Setting item:

Voice Recognition

Setting level:

1 to 35 (Initial setting: 10)

Touch [<] or [>] of “Voice Recognition” to set the volume level for voice recognition.

Adjusting the Microphone Level

Setting item:

Microphone Level

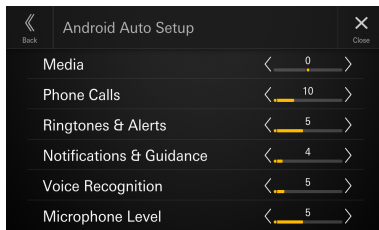
Setting level:

1 to 11 (Initial setting: 8)

Touch [<] or [>] of “Microphone Level” to set the microphone volume level.

Android Auto Setup

[Android Auto] is selected on the Function Setup Menu screen.



Adjusting the Media Level

Setting item:

Media

Setting level:

-14 to +14 (Initial setting: 0)

Touch [<] or [>] of “Media” to set the media volume level for Android Auto playback.

Adjusting the Phone Calls Volume

Setting item:

Phone Calls

Setting level:

1 to 35 (Initial setting: 5)

Touch [<] or [>] of “Phone Calls” to set the calls volume level.

Adjusting the Ringtones and Alerts Level

Setting item:

Ringtones & Alerts

Setting level:

1 to 11 (Initial setting: 5)

Touch [<] or [>] of “Ringtones & Alerts” to set the volume level for Ringtones and Alerts.

Adjusting the Notifications and Guidance Level

Setting item:

Notifications & Guidance

Setting level:

1 to 35 (Initial setting: 10)

Touch [<] or [>] of “Notifications & Guidance” to set the volume level for Notifications and Guidance.

Adjusting the Voice Recognition Level

Setting item:

Voice Recognition

Setting level:

1 to 35 (Initial setting: 10)

Touch [<] or [>] of “Voice Recognition” to set the volume level for voice recognition.

Adjusting the Microphone Level

Setting item:

Microphone Level

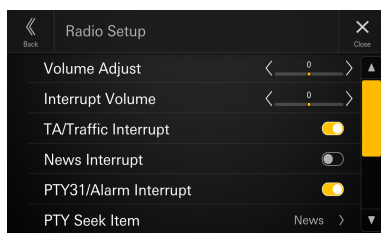
Setting level:

1 to 11 (Initial setting: 5)

Touch [<] or [>] of “Microphone Level” to set the microphone volume level.

Radio Setup

[Radio] is selected on the Function Setup Menu screen.



Adjusting the Radio Volume

Setting item:

Volume Adjust

Setting level:

-14 to +14 (Initial setting: 0)

Touch [<] or [>] of “Volume Adjust” to set the radio volume level.

Adjusting the Interrupt Volume

Setting item:

Interrupt Volume

Setting level:

-14 to +14 (Initial setting: 0)

Touch [<] or [>] of “Interrupt Volume” to set the volume level for interruption broadcast.

Setting the TA/Traffic Interrupt

Set TA (Traffic Announcement) and Traffic Information interruption on or off.

Setting item:

TA/Traffic Interrupt



Touch [] (Off) or [] (On) of “TA/Traffic Interrupt”.

Setting the News Interrupt

Set News interruption on or off.

Setting item:

News Interrupt

Touch [] (Off) or [] (On) of “News Interrupt”.

Setting the PTY31/Alarm Interrupt

Set Emergency Broadcast (PTY31 and Alarm) interruption on or off.

Setting item:

PTY31/Alarm Interrupt

Touch [] (Off) or [] (On) of “PTY31/Alarm Interrupt”.

Setting the PTY Seek Item

Set the programme item received by PTY Seek.

Setting item:

PTY Seek Item

Setting contents:



News (Initial setting) / Current Affairs / Information / Sport / Education / Drama / Culture / Science / Varied / Pop Music / Rock Music / Easy Listening / Light classical / Serious Classical / Other Music / Weather / Finance/Business / Children's / Social Affairs / Religion / Phone In / Travel / Leisure / Jazz Music / Country Music / National Music / Oldies Music / Folk Music / Documentary

Setting the RDS Regional Mode

When Off is selected, the unit automatically keeps receiving the local RDS station.

Setting item:

RDS Regional Mode

Touch [] (Off) or [] (On) of “RDS Regional Mode”.

PI SEEK Setting

Setting item:

RDS PI Seek



Touch [] (Off) or [] (On) of “RDS PI Seek”.

Turning AF (Alternative Frequencies) On or Off

The RDS (Radio Data System) is a radio information system using the 57 kHz subcarrier of regular FM broadcasts. The RDS allows you to receive a variety of information such as traffic information, station names, and to automatically re-tune to a stronger transmitter that is broadcasting the same programme.

Setting item:

RDS Alternative Frequency

Touch [] (Off) or [] (On) of “RDS Alternative Frequency”.



Setting the DAB Antenna ON/OFF

To improve signal quality and performance, the vehicles DAB Antenna is provided power and set to (On) by default.

Note: Turning off DAB Antenna Power will result in a significant loss in DAB Performance. In the event of a software reset of the unit please set DAB Antenna Power to (On)

Setting item:

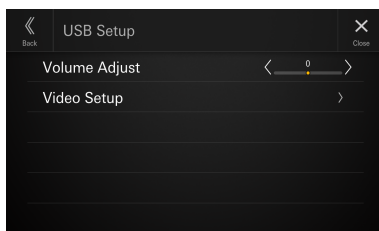
DAB Antenna Power

Touch [] (Off) or [] (On) of “DAB Antenna Power”.

USB Setup

[USB] is selected on the Function Setup Menu screen.

- The value set here applies to USB1 and USB2.



Adjusting the USB Volume

Setting item:

Volume Adjust

Setting level:

-14 to +14 (Initial setting: 0)

Touch [<] or [>] of “Volume Adjust” to set the volume level for USB Audio/USB Video playback.

Video Setup

Setting item:

Video Setup

Touch [<] or [>] of “Brightness, Colour, Contrast” to set the picture quality.

- Available only when the current source is USB Video.

Adjusting Brightness

Setting item:

Brightness

Setting contents:

-15 to +15 (Initial setting: 0)

Adjusting Colour of Picture

Setting item:

Colour

Setting contents:

0 to 2 (Initial setting: 0)

Adjusting Image Contrast

Setting item:

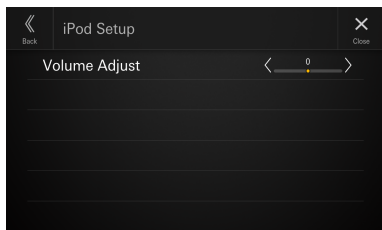
Contrast

Setting contents:

-15 to +15 (Initial setting: 0)

iPod Setup

[iPod] is selected on the Function Setup Menu screen.



Adjusting the iPod Volume

Setting item:

Volume Adjust

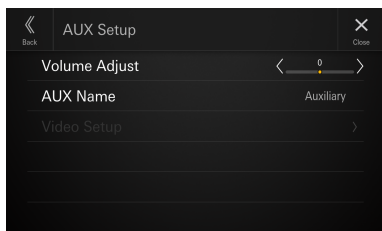
Setting level:

-14 to +14 (Initial setting: 0)

Touch [<] or [>] of “Volume Adjust” to set the volume level for iPod playback.

AUX (Auxiliary) Setup

[Auxiliary] is selected on the Function Setup Menu screen.



Adjusting the AUX Volume

Setting item:

Volume Adjust

Setting level:

-14 to +14 (Initial setting: 0)

Touch [<] or [>] of “Volume Adjust” to set the volume level for AUX playback.

Setting the Auxiliary (AUX) Name

Set the display name of an external device. This name is displayed as a source name on the HOME screen or Audio screen.

Setting item:

AUX Name

Setting contents:

Off / Auxiliary (Initial setting) / Digital TV

- Not available when the current source is Auxiliary (or Digital TV).

Video Setup

Setting item:

Video Setup

Touch [<] or [>] of “Brightness, Colour, Contrast” to set the picture quality.

- Available only when the current source is Auxiliary (or Digital TV).

Adjusting Brightness

Setting item:

Brightness

Setting contents:

-15 to +15 (Initial setting: 0)

Adjusting Colour of Picture

Setting item:

Colour

Setting contents:

0 to 2 (Initial setting: 0)

Adjusting Image Contrast

Setting item:

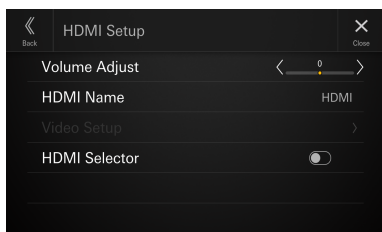
Contrast

Setting contents:

-15 to +15 (Initial setting: 0)

HDMI Setup

[HDMI] is selected on the Function Setup Menu screen.



Adjusting the HDMI Volume

Setting item:

Volume Adjust

Setting level:

-14 to +14 (Initial setting: 0)

Touch [<] or [>] of “Volume Adjust” to set the volume level for HDMI playback.

Setting the HDMI Name

You can set the name of an external device connected via HDMI.

Setting item:

HDMI Name

Setting contents:

Off / HDMI (Initial setting) / Digital TV

- Not available when the current source is HDMI (or Digital TV).

Video Setup

Setting item:

Video Setup

Touch [<] or [>] of “Brightness, Colour, Contrast” to set the picture quality.

- Available only when the current source is HDMI (or Digital TV).

Adjusting Brightness

Setting item:

Brightness

Setting contents:

-15 to +15 (Initial setting: 0)

Adjusting Colour of Picture

Setting item:

Colour

Setting contents:

0 to 2 (Initial setting: 0)

Adjusting Image Contrast

Setting item:

Contrast

Setting contents:

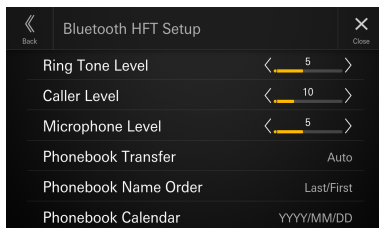
-15 to +15 (Initial setting: 0)

Setting the HDMI Selector

HDMI Selector function is not applicable.

Phone Setup

[Phone] is selected on the Function Setup Menu screen.



Adjusting the Ringtone Volume

Setting item:

Ring Tone Level

Setting level:

1 to 11 (Initial setting: 5)

Touch [<] or [>] of “Ring Tone Level” to set the Ringtones volume level.

- Not available when Apple CarPlay or Android Auto is connected.

Adjusting the Phone Calls Volume

Setting item:

Caller Level

Setting level:

1 to 35 (Initial setting: 5)

Touch [<] or [>] of “Caller Level” to set the calls volume level.

- Not available when Apple CarPlay or Android Auto is connected.

Adjusting the Microphone Level

Setting item:

Microphone Level

Setting level:

1 to 11 (Initial setting: 5)

Touch [<] or [>] of “Microphone Level” to set the microphone volume level.

- Not available when Apple CarPlay or Android Auto is connected.

Setting the Phonebook Transfer

Set whether to transfer the phonebook automatically.

Setting item:

Phonebook Transfer

Setting contents:

Auto (Initial setting) / Manual

Setting the Phonebook Name Order

Set the order of the last name and first name displayed in the phonebook.

Setting item:

Phonebook Name Order

Setting contents:

Last/First / First/Last (Initial setting)

Setting the Phonebook Calendar

Set the date format displayed in the phonebook.

Setting item:

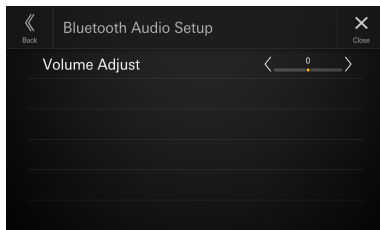
Phonebook Calendar

Setting contents:

YYYY/MM/DD (Initial setting) / MM/DD/YYYY / DD/MM/YYYY

Bluetooth® Audio Setup

[Bluetooth® Audio] is selected on the Function Setup Menu screen.



Adjusting the Bluetooth® Audio Volume

Setting item:

Volume Adjust

Setting level:

-14 to +14 (Initial setting: 0)

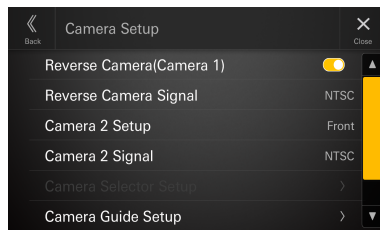
Touch [<] or [>] of “Volume Adjust” to set the volume level for Bluetooth® Audio playback.

CAN I/F BOX Setting

[CAN-I/F] function is not applicable.

Camera Setup

[Camera] is selected on the Function Setup Menu screen.



Setting the Reverse Camera (Camera 1)

Set to [On] by Default.

Setting item:

Reverse Camera (Camera 1)

Touch [] (Off) or [] (On) of “Reverse Camera (Camera 1)”.

- “Reverse Camera (Camera 1)” is not available when the Camera Setup screen is displayed using [Setup] of the Camera screen.

Reverse Camera Signal Input Setting

When “Reverse Camera (Camera 1)” setting is [On], the video input signal type can be chosen.

Setting item:

Reverse Camera Signal

Setting contents:

NTSC / PAL

- It is not recommended to change Camera Signal type, result may be damage to Reverse Camera.

Camera 2 Setup

Camera 2 function is not applicable.

Camera Guide Setup

You can adjust the camera guide position.

Setting item:

Camera Guide Setup

1 Touch [Camera Guide Setup] on the Camera Setup menu screen.

The camera guide adjustment screen is displayed.

2 Touch [Camera], and then touch a camera, [Rear], [Front] or [Side], to adjust.

- The guide line of the Other Camera cannot be adjusted.

■ Rear Camera screen example



- Default Guide Settings are already set. Adjustment is not recommended.

Video Setup

Setting item:

Video Setup

Touch [<] or [>] of “Brightness, Colour, Contrast” to set the picture quality

Adjusting Brightness

Setting item:

Brightness

Setting contents:

-15 to +15 (Initial setting: 0)

Adjusting Colour of Picture

Setting item:

Colour

Setting contents:

0 to 2 (Initial setting: 0)

Adjusting Image Contrast

Setting item:

Contrast

Setting contents:



-15 to +15 (Initial setting: 0)

Setting the Mute while Reversing

The audio volume can be muted when the shift gear lever is set to the reverse (R) position.

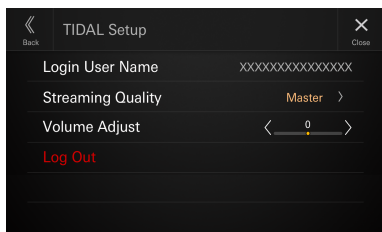
Setting item:

Mute while Reversing

Touch [] (Off) or [] (On) of “Mute while Reversing”.

TIDAL Setup

[TIDAL] is selected on the Function Setup Menu screen.



Confirm Login User Name

Setting item:

Login User Name

- *Login User Name is blank if you are not logged in to TIDAL.*

Setting the Streaming Quality

You can set the desired sound quality. Data traffic can be reduced by lowering the sound quality.

Setting item:

Streaming Quality

Setting contents:

Normal / High / HiFi / Master (Initial setting)

- | | |
|---------|---|
| Normal: | This setting can reduce data usage and is an effective option when the communication speed is slow. |
| High: | This setting offers the best balance between data usage and sound quality. |
| HiFi: | This setting delivers sound quality equivalent to that of CDs. |
| Master: | This setting reproduces mastering studio sound and delivers it as the artist intended. |

1 Touch to select [Streaming Quality].

The Streaming Quality screen is displayed.

2 Select the sound quality on the Streaming Quality screen, and touch [OK].

- *Streaming Quality is blank if you are not logged in to TIDAL.*

Adjusting the TIDAL Volume

Setting item:

Volume Adjust

Setting level:

-14 to +14 (Initial setting: 0)

Touch [<] or [>] of “Volume Adjust” to set the volume level for TIDAL playback.

Logging out of TIDAL

Setting item:

Log Out

1 Touch [Log Out].

The confirmation screen is displayed.

2 After the confirmation message appears, touch [OK].

- *After logging out, the TIDAL Setup menu screen reappears, the logout setting item is invalid and grayed out.*

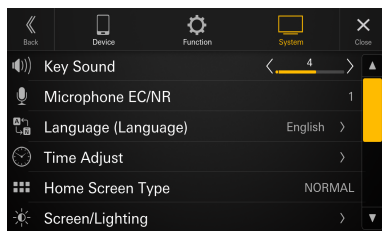
Navigation Setup

[Navigation] function is not applicable.

System Setup

[System] is selected on the Settings menu screen.

■ System Setup Menu screen



Setting Items:

- Key Sound (page 27)
- Microphone EC/NR (page 27)
- Language (Language) (page 27)
- Time Adjust (page 28)
- Home Screen Type (page 28)
- Screen/Lighting (page 28)
- Screen Colour (page 28)
- Source Priority Setup (page 29)
- Security Code (page 29)
- Vehicle Types for Phone Link (page 29)
- Installation Status (page 30)
- About (page 30)

Adjusting the Key Sound

[Key Sound] is selected on the System Setup Menu screen. You can change the volume of the sound heard when a button is touched.

Setting item:

Key Sound

Setting contents:

0 to 7 (Initial setting: 4)

Setting the Microphone Effect

[Microphone EC/NR] is selected on the System Setup Menu screen.

Set this item when using a hands-free call or calling on Apple CarPlay/Android Auto.

You can adjust the level of the Microphone Effect according to the space inside the vehicle.

Setting item:

Microphone EC/NR

Setting contents:

1 / 2 (Initial setting) / 3

- 1: Small space inside the vehicle
- 2: Middle space inside the vehicle
- 3: Large space inside the vehicle

- This setting does not apply to Voice Recognition function.

Language Setup

[Language (Language)] is selected on the System Setup Menu screen.

The Setup menu, feedback information, etc. for this unit can be changed to appear in the selected language.

Setting item:

Language*1 (Language*2)

Setting contents:

English (Initial setting) / Deutsch / Français / Español / Português / Italiano / Nederlands / Suomi / Norsk / Svenska / Dansk / русский язык / Slovenčina / Polski / Český / Magyar / Ελληνικά / עברית / Türkçe / 中文 / العربية / 日本語 / Bahasa Indonesia

- The currently selected language is displayed.

*1 Display in the currently selected language.

*2 Always display in English.

Adjusting the Clock

[**Time Adjust**] is selected on the System Setup Menu screen.

Setting item:
Time Adjust

Setting the Time Format

The time format of the clock display can be set to the 12-hour or 24-hour display according to your preference.

Setting item:
Time Format
Setting contents:
12h / 24h (Initial setting)

Setting the Time Zone

The time zone can be set according to your region.

Setting item:
Time Zone
Initial setting:
UTC

Setting the Daylight Savings Time

To set the daylight saving time (Summer Time mode), set "Daylight Savings Time" to [**On**].

Setting item:
Daylight Savings Time

Touch [] (Off) or [] (On) of "Daylight Savings Time".

Setting the Home Screen Type

[**Home Screen Type**] is selected on the System Setup Menu screen.

The Home screen can be changed to the Enhanced Text mode. For details, see "About the HOME Screen" (page 12).

Setting item:
Home Screen Type
Setting contents:
NORMAL (Initial setting) / Enhanced Text

Screen/Lighting Setup

[**Screen/Lighting**] is selected on the System Setup Menu screen.

Setting the Brightness of the Backlighting (Dimmer)

Backlighting is provided by LEDs light built into the liquid crystal panel. The illumination control adjusts the brightness of the backlighting based on the car ambient lighting for easier viewing.

Setting item:	Setting contents:
Dimmer	Auto (Initial setting) / On / Off
Auto:	Changes the brightness of the display and button lighting according to the brightness of the car interior.
On:	The brightness set with [Key Illumination Level] (page 28) and [Screen Dimmer Level] (page 28) is applied regardless of the brightness of the car interior.
Off:	Keeps the display and button lighting bright, regardless of the brightness of the car interior.

Adjusting the Dimmer of Button Lighting at Night

You can adjust the brightness of the button lighting at night with the dimmer.

Setting item:
Key Illumination Level
Setting level:
-2 to +2 (Initial setting: 0)

- *This setting is only available when "Dimmer" is set to [**On**] or [**Auto**].*

Adjusting the Minimum Level of Backlight

You can adjust the brightness of the backlight. This function could be used, for instance, to change the screen brightness while traveling at night.

Setting item:
Screen Dimmer Level
Setting contents:
-15 to +15 (Initial setting: 0)

- *This setting is only available when "Dimmer" is set to [**On**] or [**Auto**].*

Switching the Display Colour

[**Screen Colour**] is selected on the System Setup Menu screen.

You can choose from 8 different display colours.

Setting item:
Screen Colour
Setting contents:
Sporty White (Initial setting) / Sporty Red / Sporty Green / Sporty Blue / Simple White / Simple Light Blue / Simple Amber / Simple Blue

Editing HOME screen

[Source Priority Setup] is selected on the System Setup Menu screen.

In the Widgets editing screen, you can change the audio source order.

Setting item:

Source Priority Setup

Touch [▼] [▲] of the source name to change the order.

Setting Security Code

[Security Code] is selected on the System Setup Menu screen.

You can set the system to be unusable without entering a password.

When you turn this setting to "On" and set a password, password input is required when the system is connected to a battery and turned on for the first time.

Setting item:

Security Code

Setting contents:

Off (Initial setting) / On

Setting the password

1 Touch [] (Off) of "Security Code".

2 After the confirmation message appears, touch [OK].

The password setting screen is displayed.

3 Enter a password, then touch [OK].


- Enter the 6-digit number.
- Input numbers are displayed as "*".
- Touch [✕] to delete an entered number.
- Touch [Delete All] to delete all entered numbers.

4 Enter the same password again, then touch [OK].

The password is set and the system returns to the System Setup Menu screen, then the Security Code is set to [On].

- If you forget a registered password, you can not use this unit. In this case, service will be required.

Clearing the password

1 Touch [] (On) of "Security Code".

The password setting screen is displayed.

2 Enter the password you have set, then touch [OK].

The password is cleared and the system returns to the System Setup Menu screen, then the Security Code is set to [Off].

- Input numbers are displayed as "*".

Vehicle Type Setup

[Vehicle Types for Phone Link] is selected on the System Setup Menu screen.

Apple CarPlay and Android Auto require information about the vehicle to use all functions in the best possible way.

Setting item:

Vehicle Types for Phone Link

Steering wheel Setting

Set this item when Apple CarPlay is used/Android smartphone which installed Android Auto App is connected.

This setting influences Apple CarPlay/Android Auto mode.

Setting item:

Steering wheel

Setting contents:

Left (Initial setting) / Right

Audio Leveling

[Advanced Dynamic] is selected on the System Setup Menu screen.

This function raises (On) or lowers (Off) the audio output level up to 14dB.

Setting item:

Advanced Dynamic

Touch [] (Off) or [] (On) of "Advanced Dynamic".

- Sound is output from the Speaker Output and PRE OUT connectors regardless of this setting.
- This setting applies to the Speaker Output and PRE OUT's Front, Rear and Subwoofer.
- This setting does not apply to the volume level for the Hands-free Phone

Installation Setup

[**Installation Status**] is selected on the System Setup Menu screen.

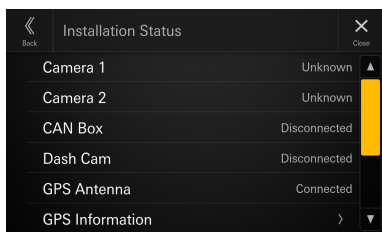
Vehicle Setup enables you to check the installation status of Camera 1, Camera 2, CAN Box, Dash Cam*, GPS Antenna, GPS Information, Park, Vehicle Speed, Reverse, Battery Voltage.

* Dash Cam is displayed in the Installation Setup, but this unit does not support it.

Setting item:

Installation Status

The Installation check screen is displayed.



- Depending on your vehicle, some installation status may not be checked via this function.

General Information

[**About**] is selected on the System Setup Menu screen.

By using [**About**], the Serial Number and Model name can be checked, the Firmware Version can be updated, and various settings can be initialized.

Displaying the Product Information

You can view the version information of this product. Make note of this information and refer to it whenever you contact Mazda Tech Support or Dealer.

Setting contents:

Serial Number / Model Name

Updating Firmware Version

Please contact your local Mazda dealer to receive software updates for your vehicle.

Dedicated Tuning According to your Car (Car by Car Update)

Car by Car Update function is not applicable.

Displaying Software Licence

Setting item:

Open-Source Software Licence

Initialising the Sound Settings

You can restore the EQ Setting*/X-OVER*/Time Correction*/Media Xpander (MX)/bass engine/Subwoofer to factory settings.

Setting item:

Default Sound Settings

1 Touch [Set] of "Default Sound Settings".

2 After the confirmation message appears, touch [OK].

The system starts initialisation.

* The setting values that are stored in Preset 1 to Preset 3 cannot be initialised.

Initialising the System

You can initialise all data, to restore the factory settings. Remove the USB flash drive, etc. from the system before operation.

Setting item:

Clear All Settings

1 Touch [Reset] of "Clear All Settings".

2 After the confirmation message appears, touch [OK].

The confirmation screen appears.

3 Touch [OK].

The system starts initialisation.

- Do not turn on/off the power, change the ignition key position, until system restart is completed.

Sound Setup

You can set up items related to the sound quality.

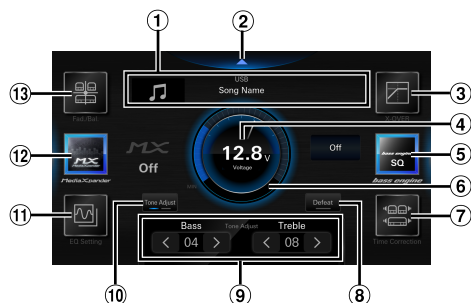
Touch the upper central area [▼] of the Home screen.

The Sound Setup screen is displayed.



- The Sound Setup screen can also be displayed by touching [] (HOME) while displaying the Home screen.

■ Sound Setup Menu screen



- ① Current source information display.
- ② Touch this to change to the Home screen.
- ③ X-OVER (page 35)
- ④ Voltage display.
- ⑤ Bass engine (page 34)
- ⑥ Volume level indicator
- ⑦ Time Correction (page 36)
- ⑧ Defeat (page 35)
- ⑨ Tone Adjust (Bass/Treble) (page 35),
Sub Woofer Level (page 35), or Navigation
(Navi volume/Background Audio) (page 35)
- ⑩ Switch between Tone Adjust, Sub Woofer Level
or Navigation mode.
- ⑪ EQ Setting (page 31)
- ⑫ Media Xpander (page 31)
- ⑬ Fader/Balance/Rear Speaker/Subwoofer (page 33)

Setting the Media Xpander (MX)

[Media Xpander] is selected on the Sound Setup Menu screen.

Media Xpander (MX) makes vocals or instruments sound distinct regardless of the music source. Music sources other than the radio (AM) will be able to reproduce the music clearer even in cars with a lot of road noise.

Setting item:

Media Xpander

Setting contents:

OFF (Initial setting) / MX 1 / MX 2 / MX 3

1 Touch [Media Xpander].

The Media Xpander setting screen is displayed.

2 Touch [Media Xpander] to switch the level.

OFF → MX 1 → MX 2 → MX 3 → OFF

- The Media Xpander setting screen is returned to the Sound Setup Menu screen if no operation has been performed for more than 3 seconds.
- MP3/WMA/AAC/FLAC/WAV/APE can have its own MX setting.
- When the Defeat setting is [On], you cannot perform the set up.
- Not available when "bass engine" is set.
- The MX setting can be performed only when a source is currently selected.

Equaliser Settings

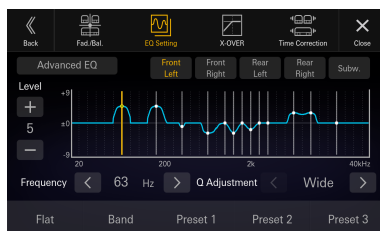
[EQ Setting] is selected on the Sound Setup Menu screen. EQ Setting has 3 modes, "Advanced EQ", "Basic EQ" and "Preset EQ".

- When the Defeat setting is [On], you cannot perform the set up.
- Not available when "bass engine" is set.

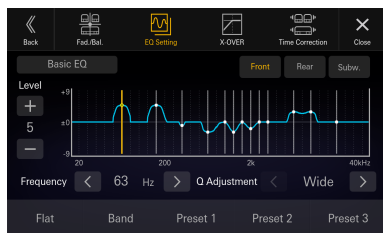
Adjusting the Parametric Equaliser Curve (Advanced EQ/Basic EQ)

You can modify the Equaliser settings to create a response curve more appealing to your personal taste. This unit has "Advanced EQ" which can set 4 types of speakers, and "Basic EQ" which can set 2 types of speakers.

■ Advanced EQ



■ Basic EQ



1 Touch [EQ Setting].

2 Touch [Advanced EQ] or [Basic EQ] to select Equaliser mode.

3 Select a speaker to adjust.

Advanced EQ: Front Left / Front Right / Rear Left / Rear Right / Subw.

Basic EQ: Front / Rear / Subw.

4 Touch [Band] to select the band to be adjusted.

Band1 → Band2 → ... → Band12 → Band13 → Band1

• You can select a band directly by touching the screen.

5 Touch [<] or [>] of "Frequency" to adjust the frequency of the selected band.

Adjustable frequency bands:

20 Hz to 40 kHz (in 1/3 octave steps)

Band1:	20 Hz~100 Hz (63 Hz)
Band2:	63 Hz~315 Hz (125 Hz)
Band3:	100 Hz~500 Hz (200 Hz)
Band4:	160 Hz~800 Hz (315 Hz)
Band5:	250 Hz~1.25 kHz (500 Hz)
Band6:	315 Hz~1.6 kHz (630 Hz)
Band7:	500 Hz~2.5 kHz (1 kHz)
Band8:	1 kHz~5 kHz (2 kHz)
Band9:	1.6 kHz~8 kHz (3.15 kHz)
Band10:	2.5 kHz~12.5 kHz (5 kHz)
Band11:	4 kHz~20 kHz (8 kHz)
Band12:	6.3 kHz~31.5 kHz (12.5 kHz)
Band13:	10 kHz~40 kHz (20 kHz)

6 Touch [-] or [+] of "Level" to adjust the level of selected band.

Setting contents:

-9 to +9 (Initial setting: 0)

7 Touch [<] or [>] of "Q Adjustment" to select the bandwidth.

Setting contents:

Wide (Initial setting) / Medium / Narrow

8 Repeat steps 3 to 7, and adjust all speakers.

9 To store the adjusted setting value, touch and hold [Preset 1], [Preset 2], or [Preset 3] for at least 2 seconds.

- Band2 and Band11 are the same as the Bass and Treble controls. For details on setting Bass and Treble, see "Adjusting Bass Level/Treble Level" (page 35).
- Settings exceeding the frequency of adjacent bands are not available.
- While adjusting the Parametric EQ, you should consider the frequency response of the connected speakers.
- When the Parametric EQ is adjusted, the Preset EQ is overridden.
- When Preset EQ is set, the linked Parametric EQ settings are also changed. We recommend storing Parametric EQ settings in a Preset in advance.
- Touch [Flat] to initialise all values.

Calling the Parametric EQ adjusted value

Calling the pre-set Parametric EQ adjusted value.

Touch [Preset 1], [Preset 2], or [Preset 3] on the Parametric EQ screen.

The setting stored in the Preset will be recalled.

Equaliser Presets (Preset EQ)

10 typical Equaliser settings are preset at the factory for a variety of musical source material.



Setting item:

Preset EQ

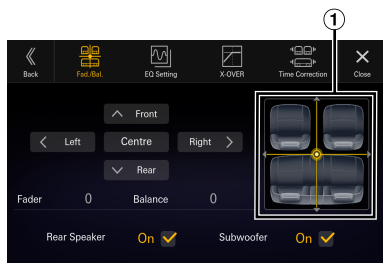
Setting contents:

FLAT / POP / ROCK / NEWS / JAZZ / ELECTRONIC / HIP HOP / EASY LISTENING / COUNTRY / CLASSICAL

- EQ Presets has no initial setting, there is no typical Equaliser will be selected in the initial status.
- Only one type can be set to On.
- When Preset EQ is set, the linked Parametric EQ settings are also changed. We recommend storing Parametric EQ settings in a Preset in advance.

Fader/Balance/Rear Speaker/ Subwoofer Settings

[Fad./Bal.] is selected on the Sound Setup Menu screen.



① Fader/Balance Image area

Setting the Fader/Balance

Touch the desired point within the image area, or touch [^] (Front), [v] (Rear), [<] (Left) or [>] (Right).

Fader:

F15 to R15

Balance:

L15 to R15

- To reset to the initial setting (Balance: 0, Fader: 0), touch [Centre].

Rear Speaker Setting

You can set the rear speaker output to "Off."

Setting item:

Rear Speaker

Setting contents:

On (Initial setting) / Off

Turning Subwoofer ON/OFF

If an optional subwoofer is connected to the unit, make the following setting.

Setting item:

Subwoofer

Setting contents:

On / Off (Initial setting)

Time Correction Settings

[Time Correction] is selected on the Sound Setup Menu screen.

Before performing the following procedures, see "About Time Correction" (page 38).



Correction mode

Setting item:

Time Correction

1 Touch the **Correction mode** button, and then select [ms], [cm] or [inch].

2 Touch [-] or [+] for each speaker to adjust the time or distance.

0.00 msec to 20.00 msec (0.02 msec/step)

0.0 cm to 680.0 cm (0.68 cm/step)

0.0 inch to 268.0 inch (0.268 inch/step)

All speaker setting values are adjustable in the range of 20.0 ms, 680.0 cm or 268.0 inch.

3 To store the adjusted setting value, touch and hold [Preset 1], [Preset 2], or [Preset 3] for at least 2 seconds.

- Touch [Flat] to set all values to 0.0.
- If the Rear Speaker setting is [Off], the Rear Speaker setting cannot be edited (page 33).
- If the Subwoofer setting is [Off], the Subwoofer setting cannot be edited (page 33).

Calling the Time Correction Value

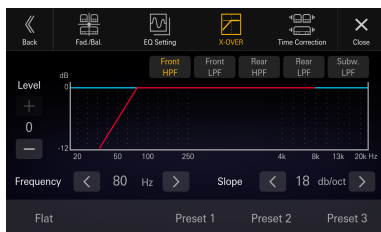
Calling the pre-set time correction value.

Touch [Preset 1], [Preset 2], or [Preset 3] on the time correction screen.

The setting stored in the Preset will be recalled.

Crossover Settings (X-OVER)

Before performing the following procedures, see “About the Crossover” (page 37).



Setting item:
X-OVER

1 Touch [X-OVER].

The X-OVER setting screen is displayed.

2 Touch [Front HPF], [Front LPF], [Rear HPF], [Rear LPF] or [Subw. LPF] to select a channel to adjust.

3 Touch [<] or [>] of “Frequency,” and then select the cut-off frequency.

Setting contents:

Front HPF:	20 / 25 / 31.5 / 40 / 50 / 63 / 80 (Initial setting) / 100 / 125 / 160 / 200 / 250 Hz
Front LPF:	4k / 5k / 6.3k / 8k (Initial setting) / 10k / 12.5k / 16k / 20k Hz
Rear HPF:	20 / 25 / 31.5 / 40 / 50 / 63 / 80 (Initial setting) / 100 / 125 / 160 / 200 / 250 Hz
Rear LPF:	4k / 5k / 6.3k / 8k (Initial setting) / 10k / 12.5k / 16k / 20k Hz
Subw.LPF:	20 / 25 / 31.5 / 40 / 50 / 63 / 80 (Initial setting) / 100 / 125 / 160 / 200 / 250 Hz

4 Touch [<] or [>] of “Slope,” and then adjust the HPF or LPF slope.

Setting contents:

0 (Initial setting) / 6 / 12 / 18 / 24 dB/oct.

5 Touch [-] or [+] of “Level,” and then adjust the HPF or LPF level.

Setting contents:

-12 to 0 dB (Initial setting: 0)

6 Repeat steps 2 to 5 to make adjustment to the other channels.

7 To store the adjusted setting value, touch and hold [Preset 1], [Preset 2], or [Preset 3] for at least 2 seconds.

- Touch [Flat] to initialise all values.
- If the Rear Speaker setting is [Off], the Rear Speaker setting cannot be edited (page 33).
- If the Subwoofer setting is [Off], the Subwoofer setting cannot be edited (page 33).
- While adjusting the X-OVER you should consider the frequency response of the connected speakers.

Calling the X-OVER adjusted value

Calling the pre-set X-OVER adjusted value.

Touch [Preset 1], [Preset 2], or [Preset 3].

The setting stored in the Preset will be recalled.

Setting the "bass engine"

You can set your favourite "bass engine" Type.

Setting contents:

Type:	Off (Initial setting) / Standard / midbass / Rich / Lowbass / Punch
Level:	0 to 6

1 Touch [bass engine].

The "bass engine" setting screen is displayed.

2 Touch [bass engine] to switch the type.

Off → Standard → midbass → Rich → Lowbass → Punch → Off

3 Touch [-] or [+] of “BASS ENGINE Level,” and then adjust the level.

- When the Defeat setting is [On], you cannot perform the bass engine function.
- The “bass engine” setting screen is returned to the Sound Setup Menu screen if no operation has been performed for more than 3 seconds.

Adjusting Bass Level/Treble Level

Setting item:

Bass, Treble

Setting contents:

Bass: -18 to 18 (Initial setting: 00)

Treble: -18 to 18 (Initial setting: 00)

1 Touch [Subw.] or [Navi] until the “Tone Adjust” setting screen is displayed.

The “Tone Adjust” setting screen is displayed.

2 Touch [<] or [>] of the “Bass” or “Treble,” to adjust the level.

- The Bass level and Treble level are reflected in the settings of Band2 and Band11 in EQ Setting. Depending on settings of Band2 and Band11 in EQ Setting, the adjustable Bass level and Treble level are changed.
- Not available when “bass engine” is set.

Setting the Subwoofer

Touch [Tone Adjust] or [Navi] until the “Subwoofer Level” setting screen is displayed.

The “Subwoofer Level” setting screen is displayed.



- This setting is only available when “Subwoofer” is set to [On] (page 34).

Adjusting the Subwoofer Level

You can set the Subwoofer level when a Subwoofer is connected.

Setting item:

Subwoofer Level

Setting contents:

0 to 15 (Initial setting: 0)

Slide the lever left or right to adjust the level.

Setting the Subwoofer Phase

The subwoofer output phase is toggled Subwoofer Normal (0°) or Subwoofer Reverse (180°).

Setting item:

Phase

Setting contents:

0° (Initial setting) / 180°

Touch [Phase] to switch the subwoofer output phase.

Setting the Navigation

Navigation function is not applicable.

Defeat Setting

If Defeat is [On], Media Xpander, EQ Setting and “bass engine” functions are turned Off. This disables any settings made for these functions.

Setting item:

Defeat

Touch [Defeat].

The indicator lights up when Defeat is set to On.

About the Crossover

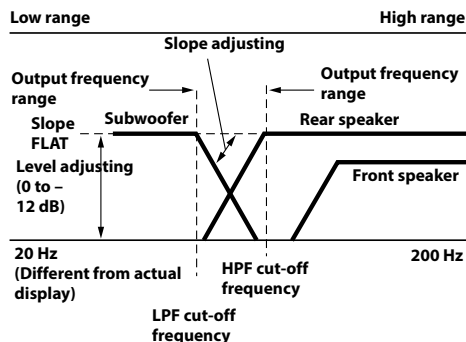
Crossover (X-Over):

This unit is equipped with an active crossover. The crossover limits the frequencies delivered to the outputs. Each channel is controlled independently. Thus, each speaker pair can be driven by the frequencies for which they have been optimally designed.

The crossover adjusts the HPF (high pass filter) or LPF (low pass filter) of each band, and also the slope (how fast the filter rolls off the highs or lows).

Adjustments should be made according to the reproduction characteristics of the speakers. Depending on the speakers, a passive network may not be necessary. If you are unsure about this point, please consult an authorized Alpine dealer.

	Cut-off frequency (1/3 octave steps)		Slope		Level
	HPF	LPF	HPF	LPF	
Subwoofer (LPF)	----	20 Hz - 250 Hz	----	0, 6, 12, 18, 24 dB/oct.	-12 to 0 dB
Rear speaker (HPF)	20 Hz - 250 Hz	----	0, 6, 12, 18, 24 dB/oct.	----	-12 to 0 dB
Front speaker (HPF)	20 Hz - 250 Hz	----	0, 6, 12, 18, 24 dB/oct.	----	-12 to 0 dB



- **HPF (high pass filter):** Cuts the lower frequencies and allows the higher frequencies to pass.
- **LPF (low pass filter):** Cuts the higher frequencies and allows the lower frequencies to pass.
- **Slope:** The level change (in dB) for a frequency change of one octave.
- The higher the slope value, the steeper the slope becomes.
- Adjust the slope to FLAT to bypass the HP or LP filters.
- Do not use a tweeter without the HPF on or set to a low frequency, as it may cause damage to the speaker due to the low frequency content.
- Adjustment should be made according to the recommended crossover frequency of the connected speakers. Determine the recommended crossover frequency of the speakers. Adjusting to a frequency range outside that recommended may cause damage to the speakers.

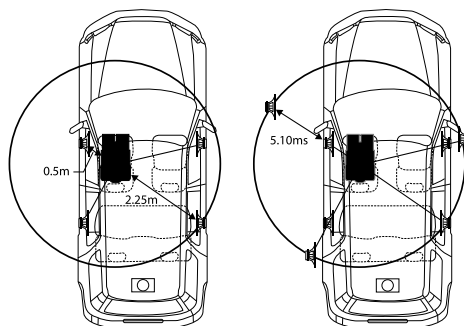
Mazda are not responsible for damage or malfunction of speakers caused by using the crossover outside the recommended value.

About Time Correction

The distance between the listener and the speakers in a car vary widely due to the complex speaker placement. This difference in the distances from the speakers to the listener creates a shift in the sounds image and frequency characteristics. This is caused by the time delay between the sound reaching the listener's right versus the left ear. To correct this, this unit is able to delay the audio signal to the speakers closest to the listener. This effectively creates a perception of increased distance for those speakers. The listener can be placed at an equal distance between the left and right speakers for optimum staging. The adjustment will be made for each speaker in 0.02 ms steps.

Example 1. Listening Position: Front Left Seat

Adjust the time correction level of the front left speaker to a high value and the rear right to zero or a low value.



The sound is not balanced because the distance between the listening position and the various speakers is different. The difference in distance between the front left speaker and the rear right speaker is 1.75 m (68-7/8").

Here we calculate the time correction value for the front left speaker in the diagram on the above.

Conditions:

Farthest Speaker – listening position : 2.25 m (88-9/16")
 Front left speaker – listening position : 0.5 m (19-11/16")
 Calculation: $L = 2.25 \text{ m} - 0.5 \text{ m} = 1.75 \text{ m (68-7/8")}$
 Time correction = $1.75 \div 343 \times 1,000 = 5.10 \text{ (ms)}$

* Speed of sound: 343 m/s (765 mph) at 20°C

In other words, giving the front left speaker a time correction value of 5.1 ms makes it seem as if its distance from the listener is the same as the distance to the farthest speaker.

Time correction eliminates the differences in the time required for the sound to reach the listening position. The time of the front left speaker is corrected by 5.1 ms so that its sound reaches the listening position at the same time as the sound of other speakers.

Example 2. Listening Position: All Seats

Adjust the time correction level of each speaker to almost the same level.

- 1 Sit in the listening position (driver's seat, etc.) and measure the distance (in meters) between your head and the various speakers.**
- 2 Calculate the difference between the distance correction value to the farthest speaker and the other speakers.**

$L = (\text{distance to farthest speaker}) - (\text{distance to other speakers})$

These values are the time correction values for the different speakers. Setting these values to make each sound reach the listening position at the same time as the sound of other speakers.

Apple CarPlay (Optional)

Apple CarPlay is a smarter, safer way to use your iPhone in the car. Apple CarPlay takes the things you want to do with your iPhone while driving and puts them right on the unit. You can get directions, make calls, send and receive messages, and listen to music, all in a way that allows you to stay focused on the road.

Access to Apple CarPlay

To use Apple Carplay, set the Siri setting of your iPhone to ON.

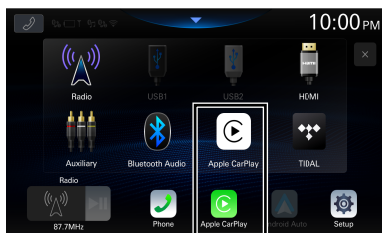
Before using this function, plug in your iPhone using a Lightning-USB cable (supplied with iPhone) to the unit, or make a wireless connection. For wireless connection, see "Pairing the Bluetooth® Device"(page 15) and "Setting the Wi-Fi Mode (page 16) .

1 Press the (HOME) button.

The HOME screen is displayed.

2 Touch [Apple CarPlay].

The Apple CarPlay screen is displayed.



[Apple CarPlay] button

- When another iPhone is connected by USB while using CarPlay with the wireless connection, a message appears. Touch [Yes] to switch the iPhone.
- When the Android Auto compatible smartphone is connected by USB while in Apple CarPlay mode, a message appears. Only charging is available on the Android Auto compatible smartphone. When switching to Android Auto, switch from the Device List. See "Connecting the Device Registered in the Device List" (page 15).
- The App must be Apple CarPlay compatible in order to appear in the Apple CarPlay screen.
- Some functions may not be available while driving.
- The only iPhone models that can be used with this unit is iPhone 6s or later compatible with Apple CarPlay function.

Using Voice Recognition function

You can use the Siri function of your iPhone. To use this function, set the Siri setting of your iPhone to ON.

- When using Apple CarPlay, the operation screen may differ from the screen design in the Owner's Manual.

1 Press the button.

The Voice Recognition mode screen is displayed.

2 Speak into the microphone supplied with this unit.

3 To finish the Voice Control mode, press the button.

- Depending on the iPhone, the Siri function may finish automatically.
- For adjusting the volume, see "Adjusting the Voice Recognition Level" (page 19).

Android Auto (Optional)

What is Android Auto

Android Auto brings your favourite smartphone apps into one place, making it easier for drivers to access their favourite navigation, media, and communication apps on the road while minimizing the distractions. Talk to Google on Android Auto™ and get things done with your voice so you can keep your eyes on the road and hands on the wheel. Easily send messages, get directions, control media and more. Just short-press or long-press the voice control button on your steering wheel.

Activate Android Auto

Download the Android Auto App from the Google Play store before continuing.
Before using this function, plug in your smartphone using a USB cable to the unit, or make a wireless connection. For wireless connection, see “Pairing the Bluetooth® Device” (page 15) and “Setting the Wi-Fi Mode” (page 16).

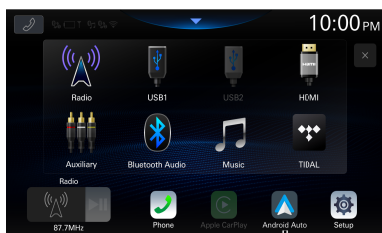
- The connected smartphone with Android Auto will disconnect other phone's Bluetooth® connection and pair to the unit.

1 Press the (HOME) button.

The HOME screen is displayed.

2 Touch [Android Auto].

The Android Auto screen is displayed.



[Android Auto] button

- When another smartphone is connected by USB while using Android Auto with the wireless connection, a message appears. Touch [Yes] to switch the smartphone.
- When the iPhone is connected by USB while in Android Auto mode, a message appears.
Only charging is available on the iPhone. When switching to Apple CarPlay, switch from the Device List. See “Connecting the Device Registered in the Device List” (page 15).
- You can make a call, use voice recognition function and Android Auto's compatible navigation app, etc.
- Only Google approved apps with necessary driver-safety measures in place can be used.

Using Voice Recognition function

You can use the Voice Recognition function of the Android Auto.

1 Press the button.

The Voice Recognition mode screen is displayed.

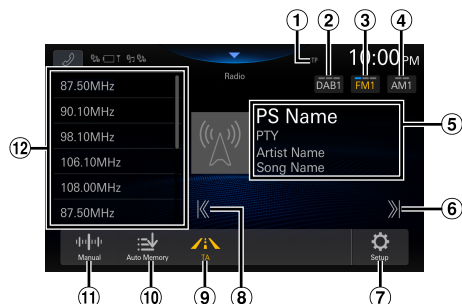
2 Speak into the microphone supplied with this unit.

3 To finish the Voice Control mode, press the button.

- Depending on the smartphone, the Voice Recognition function may finish automatically.
- For adjusting the volume, see “Adjusting the Voice Recognition Level”(page 20).

Radio/RDS

■ RDS (FM1/FM2/FM3) main screen example



- ① TP/EON indicator
- ② Switch the DAB band.
- ③ Switch the FM band.
- ④ Switch the AM band.
- ⑤ Information display
 - For details on switching the display of the Radio text, see "Displaying Radio Text" (page 41).
- ⑥ Increases frequency
Touch and hold to change the frequency continuously.
- ⑦ Displays the Radio Setup Menu screen (page 20).
- ⑧ Decreases frequency
Touch and hold to change the frequency continuously.
- ⑨ Traffic Information mode On/Off
- ⑩ Memorizes stations automatically
- ⑪ Switches a Seek mode.
- ⑫ Preset List
Displays the preset stations with a short touch.
Touch for at least 2 seconds to memorize the current station as a preset station.

Radio Basic Operation

Listening to the Radio

1 Press the (HOME) button and select radio mode.

The display shows the radio mode screen.

2 Touch [FM○] or [AM○] to select a band.

Each touch changes the bands as follows:

FM1 → FM2 → FM3 → FM1

AM1 → AM2 → AM1

- For [DAB○], see "DAB/DAB+" (page 42).

3 Touch repeatedly to select the tuning mode.

The radio frequency up or down button changes depending on the tuning mode.

Seek mode:	Both strong and weak stations will be tuned in.
Manual mode:	The frequency is manually tuned in steps.
PTY mode: (RDS FM Radio Mode only)	A station of the same programme type selected for the PTY Seek Item setting tuned in.
Preset mode:	You can directly switch preset stations.

4 Touch to change the radio frequency up or down respectively.

In Manual mode, touch and hold to change the frequency continuously.

- The buttons provide the same functions above.

Presetting Stations Manually

1 Tune in a desired radio station you wish to store in the preset memory by manual or automatic seek tuning.

2 Touch and hold the preset button you want to store for at least 2 seconds.

The selected station is stored.

3 Repeat the procedure to store up to 11 other stations onto the same band.

To use this procedure for other bands, simply select the desired band and repeat the procedure.

A total of 60 stations can be stored in the preset memory
(12 stations for each band; FM1, FM2, FM3, AM1 or AM2).

- If a preset memory has already been set in the preset button, it will be cleared and the new station will be memorized.

Presetting Stations Automatically

The tuner can automatically seek and store 12 strong stations in the selected band in ascending order of frequency.

Select the desired band then touch and hold [Auto Memory].

The tuner automatically seeks and stores 12 strong stations into the preset list in ascending order of frequency. When automatic storing has completed, the station stored in the preset 1 is selected.

- If no stations are stored, the tuner will return to the original station you were listening to before the automatic storing procedure began.
- You can cancel this process by touching [Auto Memory] while the tuner is automatically seeking stations. Canceling will return the tuner preset to the previous setting.

Tuning to Preset Station

After selecting the desired band, touch the desired preset button.

The preset station is received.

RDS Operation

Turning AF (Alternative Frequencies) On or Off

The RDS (Radio Data System) is a radio information system using the 57 kHz subcarrier of regular FM broadcasts. The RDS allows you to receive a variety of information such as traffic information, station names, and to automatically re-tune to a stronger transmitter that is broadcasting the same programme.

- Set RDS Alternative Frequency to [On] in "Turning AF (Alternative Frequencies) On or Off" (page 21).
- RDS mode is not displayed for the AM band.
- When the AF ON mode is selected, the unit automatically tunes to a strong signal station in the AF list.
- Use the AF OFF mode when automatic re-tuning is not required.

Tips

- The RDS digital data includes the following:

PI	Programme Identification
PS	Programme Service Name
AF	List of Alternative Frequencies
TP	Traffic Programme
TA	Traffic Announcement
PTY	Programme Type
EON	Enhanced Other Networks
- Refer to page 21 about "PI SEEK Setting," "Setting the RDS Regional Mode," and "Setting the PTY31/Alarm Interrupt."

Interruption Function

Interruption Function is enabled, when the following broadcast is received, the unit switches to the Radio source screen automatically, and will receive broadcasts.

- Alarm (Emergency Broadcast)*1, 4
- TA(Traffic Announcement)*2, 5
- News Announcement*3, 4

- *1 Set PTY31/Alarm Interrupt to [On] in "Setting the PTY31/Alarm Interrupt" (page 20).
- *2 Set TA/Traffic Interrupt to [On] in "Setting the TA/Traffic Interrupt" (page 20).
- *3 Set News Interrupt to [On] in "Setting the News Interrupt" (page 20).
- *4 Not interrupted during the DAB broadcast reception.
- *5 The Interruption Function for Traffic Announcements works with DAB broadcasts. Therefore, even if the current source is RDS, a Traffic Announcement by DAB broadcast may interrupt.
- "RDS Alarm"/"RDS T.Info"/"RDS News" is displayed in the Band display section during each respective broadcast reception.
- To cancel the Interruption function, touch [Cancel].

- Touch **[Disable]** when interrupted, to disable the Interruption function. The setting for the interruption type becomes **[Off]**. For example, the Interruption function becomes disabled and the News Interrupt setting is set to **[Off]** by touching **[Disable]** when "News" is interrupting.
- If no signal is received for more than 60 seconds, interrupt function exits.
- When the interruption broadcast is over, the unit returns to the previous screen.
- Does not interrupt during Hands-free phone talk. During camera image display, only the sound may be interrupted.
- The volume level for the interruption broadcast can be set. For details, see "Adjusting the Radio Volume" (page 20).

Receiving Traffic Announcement

Touch [TA].

The "TA" indicator lights up and the unit switches to standby mode for the traffic announcement. When the traffic announcement is received, the "TP" indicator lights up and the unit switches to the radio source screen to receive it.

- The "TP" indicator lights up during standby mode off in a condition other than radio source to indicate that the unit is receiving the traffic announcement.

Displaying Radio Text

Text messages from a radio station can be displayed.

- 1 Tune in a radio station that transmits text messages.**
- 2 Touch the information display in the FM radio mode repeatedly to switch to the desired display.**

Tag Info. Mode → Radio Text Mode → Tag Info. Mode

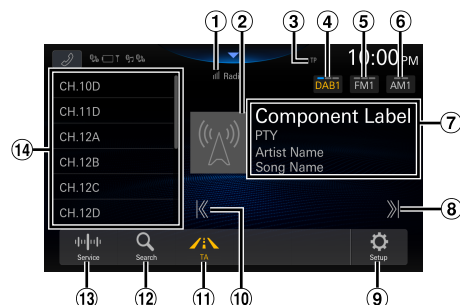
Tag Info. Mode:

PS Name or Frequency/PTY Name/Artist Name/Song Name

Radio Text Mode:

Frequency/Radio Text

DAB/DAB+



- 1 Signal Strength indicator**
- 2 Slide Show**
Displays the program information, artist photos, and advertisements that are synchronised with the Service component currently being received. They may not be displayed, depending on the Service component currently being received.
- 3 TP indicator**
- 4 Switch the DAB band.**
- 5 Switch the FM band.**
- 6 Switch the AM band.**
- 7 Information display**
 - For details on switching the display, see "Displaying DAB Text" (page 43).
- 8 Increases frequency**
Touch and hold to change the frequency continuously.
- 9 Displays the Radio Setup Menu screen (page 20).**
- 10 Decreases frequency**
Touch and hold to change the frequency continuously.
- 11 Traffic Information mode On/Off**
- 12 Displays the search screen**
- 13 Switches a Seek mode.**
- 14 Preset List**
Displays the preset stations with a short touch.
Touch for at least 2 seconds to memorize the current station as a preset station.

Listening to DAB/DAB+/DMB

1 Press the (HOME) button and select Radio mode.

The display shows the Radio mode screen.

2 Touch [DAB] to select a band.

Each touch changes the bands as follows:

DAB1 → DAB2 → DAB3 → DAB1

- For [FM] or [AM], see "Radio/RDS" (page 39).

3 Touch [] repeatedly to select the tuning mode.

Each time you touch, the Seek mode is switched.

Service → PTY → Preset → Service

- This button displays the currently selected mode.



Service (Service Up/Down) mode: Service Components in the All Service list will be switched.

PTY mode: A Service (Primary Component) of the programme type currently being received is tuned in.

Preset (Preset UP/DN) mode: The Preset station will be tuned in directly.

4 Touch [], [] to change the Service, PTY or Preset up or down respectively.

Touch and hold to change the Service, PTY or Preset continuously.

- The  ,  buttons provide the same functions above.

Presetting Service

1 Select the service and PTY, and then tune in a desired service you wish to store in the preset memory.

2 Touch and hold the Preset number you want to store for at least 2 seconds.

The selected station is stored.

3 Repeat the procedure to store up to 11 other stations onto the same band.

To use this procedure for other bands, simply select the desired band and repeat the procedure.

- A total of 36 services can be stored in the preset memory. (12 stations for each band; DAB1, DAB2 or DAB3).
- If a preset memory has already been set in the preset button, it will be cleared and the new station will be memorized.

Tuning to Preset Service

You can tune in the preset stations in memory on either band using its preset number.

Touch any one of the preset buttons that has a service stored to it.

The preset service is received.

Service Component/PTY Search Function

You can select your favourite Service Component from the All Service list or PTY Search list.

Service Search Function

1 Touch [] (Search).

2 Touch [] (All).

All the currently available Service Component (Primary/Secondary) lists are displayed.

3 Touch the desired Service Component.

The Selected service component is received.

- A Secondary Service list that was derived from the Primary Services is displayed in the Service Component list.
- The TP indicator is displayed in the Service Component (Primary) list currently being received.
- The PTY is displayed in the Service Component (Primary) list currently being received.

PTY Search Function

1 Touch [] (Search).

2 Touch [] (PTY).

3 Touch the desired programme type.

The Service Component list that corresponds with the selected programme type is displayed.

4 Touch the desired Service Component.

The selected Service Component is received.

Interruption Function

If Interruption Function is enabled, when the following broadcast is received, the unit switches to the DAB source screen automatically, and will receive broadcasts.

- Alarm (Emergency Broadcast)*1, 4
- TA(Traffic Announcement)*2, 5
- News Announcement*3, 4

*1 Set PTY31/Alarm Interrupt to **[On]** in “Setting the PTY31/Alarm Interrupt” (page 20).

*2 Set TA/Traffic Interrupt to **[On]** in “Setting the TA/Traffic Interrupt” (page 20).

*3 Set News Interrupt to **[On]** in “Setting the News Interrupt” (page 20).

*4 Not interrupted during the RDS broadcast reception.

*5 The Interruption Function for Traffic Announcements works with RDS broadcasts. Therefore, even if the current source is DAB, a Traffic Announcement by RDS broadcast may interrupt.

- If no signal is received for more than 60 seconds, interrupt function exits.
- To cancel the Interruption function, touch **[Cancel]**.
- Touch **[Disable]** when interrupted, to disable the Interruption function. The setting for the interruption type becomes **[Off]**.
For example, the Interruption function becomes disabled and the News Interrupt setting is set to **[Off]** by touching **[Disable]** when “News” is interrupting.
- When the interruption broadcast is over, the unit returns to the previous screen.

Receiving Traffic Announcement

Touch (TA).

The “TA” indicator lights up and the unit switches to standby mode for the traffic announcement.

When the traffic announcement is received, the “TP” indicator lights up and the unit switches to the DAB source screen to receive it.

- The “TP” indicator lights up during standby mode off in a condition other than the DAB source to indicate that the unit is receiving the traffic announcement.
- This setting works interlocked with the traffic announcement (Emergency Broadcast) of RDS.

Displaying DAB Text

Text messages from a DAB station can be displayed.

1 Tune in a DAB station that transmits text messages.

2 Touch the information display in the DAB mode repeatedly to switch to the desired display.

Tag Info. Mode → Dynamic Label Mode → Tag Info. Mode

Tag Info. Mode:

Service Component Label (Service ID)/PTY Name/Artist Name/Song Name

Dynamic Label Mode:

Service Component Label (Service ID)/Dynamic Label (Displays the information related to the current receiving station)

Displaying the Slide Show by Enlarging

The area for the Slide Show in the DAB mode screen can be enlarged.

1 Touch the Slide Show area.

The slide image is enlarged.

2 Touch to return to the DAB mode screen.

About DAB/DAB+

What is DAB?

DAB (Digital Audio Broadcasting) is the third generation broadcasting technology following the traditional analogue technologies such as FM. The advantages of DAB include being more robust with regard to noise, interference, instability, etc., during radio signal transmission. Also, it can provide stereo CD-quality sound and digital information, and it can resist multipath interference guaranteeing high-quality reception for fixed, portable and mobile devices.

What is DAB+?

WorldDAB, the organisation in charge of the DAB standards, announced DAB+, a major upgrade to the DAB standard in 2006, when the HE-AAC v2 audio codec (also known as eAAC+) was adopted. The new standard, which is called DAB+, has also adopted the MPEG Surround audio format and stronger error correction coding in the form of Reed-Solomon coding. DAB+ has been standardised as ETSI TS 102 563.

USB Flash drive (Optional)

You can play back music files (MP3/WMA/AAC/FLAC/WAV/APE), video files (MP4/MOV/FLV/MKV) stored in a USB flash drive on the internal player of this system.

WARNING

It is dangerous for the driver to watch video while driving the vehicle. The driver may be distracted from looking ahead and an accident could occur.

USB Audio

■ USB Audio mode screen



- ① Information display
- ② USB1/USB2 indicator
- ③ Switches to USB Video mode
- ④ Finds the beginning of next chapter/Fast-forwards when touched for at least 1 second
- ⑤ Current track number/Total track number
- ⑥ Next song information display
- ⑦ Hi-Res icon display
 - Not displayed if the following conditions are not satisfied.
 - Extension: .flac/.wav
 - Sampling frequency: 96 kHz or more
 - Quantization bit rate: 24 bit or more
- ⑧ Displays the USB Setup Menu screen (page 21)
- ⑨ Time Bar (Elapsed time/Total time for playing)
- ⑩ Displays the search screen
- ⑪ Shuffle mode
- ⑫ Repeat mode
- ⑬ Pause and Play
- ⑭ Artwork Display

- ⑮ Finds the beginning of the current file/Finds a previous file within 3 seconds after playback starts/Fast-reverses when touched for at least 1 second

Playback

1 Press the (HOME) button and select USB mode.

The display shows the USB mode screen.


- When in USB Video mode, touch [Video] to switch to USB Audio mode.

2 Touch [] or [] to select the desired track (file).

Returning to the beginning of the current (or previous) track (file):

Touch [].


Fast reverse :


Touch and hold [].

Advancing to the beginning of the next track (file) :


Touch [].

Fast forward :

Touch and hold [].

- The  buttons provide the same functions above.
- Touch or slide the Time Bar to fast-forward or fast-reverse.


3 To pause playback, touch [].


Touching [] again will resume playback.


- If there is tag information, artist name/album name/track name is displayed.
- ID3 tag/WMA tag
If an MP3/WMA/AAC/FLAC/WAV/APE file contains ID3 tag/WMA tag information, the ID3 tag/WMA tag information is displayed. (e.g., song name, artist name, and album name)

Repeat Play

Touch [, [] or [] to select Repeat Play mode.

All  : All files are repeatedly played back.

File  : Only the file currently playing is repeatedly played back.

Folder  : Only files in a folder are repeatedly played back. Only available when a file is played back by searching a Folder.

Shuffle Play

Touch [🔀] to select Shuffle Play mode.

- On 🔀:
- Songs in the selected category (artist, album, etc.) are played back in random order. Songs in the category are played back only once until all songs are played back.
- Off 🔀:
- Shuffle mode is Off.

Searching for a Desired Song

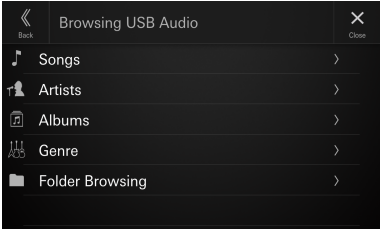
This unit can make various searches using the search function as shown below.
Using the Song/Artist/Album/Genre/Folder search mode's individual hierarchy, you can narrow down your search as shown in the table below.

<Music Search Menu>

Hierarchy 1	Hierarchy 2	Hierarchy 3	Hierarchy 4
Songs	—	—	—
Artists	Albums	Songs	—
Albums	Songs	—	—
Genres	Artists	Albums	Songs
Folder	File	—	—

For example: Searching by Artist name

The following example explains how an Artists search is performed.



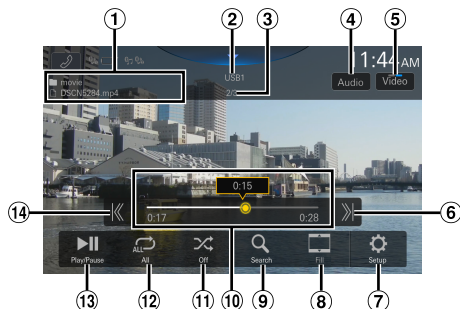
- 1 Touch [🔍] (Search) during playback.
- 2 Touch [Artists].
The Artists search screen is displayed.
- 3 Touch the desired artist's name.
- 4 Touch the desired album's name.
All songs of the selected album are displayed.
- 5 Touch the desired song's name.
The selected song is played back.

USB Video

The video formats (USB Flash drive) supported by the unit are as follows.

- Supported Container: MP4/MOV/FLV/MKV
- Supported Video Coding: MPEG-4/H.263/H.264 (MPEG-4 /AVC)/MPEG-1/MPEG-2
- Supported Audio Coding: MP3/WMA/AAC/WAV/FLAC/APE

■ USB Video mode screen



- 1 Folder Name/File Name
- 2 USB1/USB2 indicator
- 3 Current file number/Total file number
- 4 Changes the Audio Tracks (Only during MKV file playback)
- 5 Switches to USB Audio mode
- 6 Finds the beginning of next file/Fast-forwards when touched for at least 1 second
- 7 Displays the USB Setup Menu screen (page 21)
- 8 Switching Display Modes
- 9 Displays the search screen
- 10 Time Bar (Elapsed time/Total time for playing)
- 11 Shuffle mode
- 12 Repeat mode
- 13 Pause and Play
- 14 Finds the beginning of the current file/Finds a previous file within one second after playback starts/Fast-reverses when touched for at least 1 second

Playback

1 Press the (HOME) button and select USB mode.

The display shows the USB mode screen.

- When in USB Audio mode, touch [Music] to switch to USB Video mode.

2 During the USB Video playback, touch the screen to display the operation screen.

The USB Video operation screen is displayed for about 5 seconds.

3 Touch [] or [] to select the desired track (file).

Returning to the beginning of the current (or previous) track (file):

Touch [].

Advancing to the beginning of the next track (file) :

Touch [].

- The , buttons provide the same functions above.

4 To pause playback, touch [].

Touching [] again will resume playback.

- For your safety, video is not displayed and only audio can be heard while driving.

Fast-forwarding/Fast-reversing

1 During playback, touch and hold [] (Fast-reverse) or touch and hold [] (Fast-forward).

- Touch and hold for more than 1 second to forward/reverse at 2x speed. Keep touching to switch the speed to 3x, 8x, 16x and 32x.

2 Release [] or [] to return to normal playback.

- The , buttons provide the same functions above.
- Touch or slide the Time Bar to fast-forward or fast-reverse.

Repeat Play

Touch [], [] or [] to select Repeat Play mode.


All : All files are repeatedly played back.


File : Only the file currently playing is repeatedly played back.

Folder : Only files in a folder are repeatedly played back.


Shuffle Play

Touch [] to select Shuffle Play mode.

On  : Files in the selected folder are played back in random order. Files in the category are played back only once until all files are played back.

Off  : Shuffle mode is Off.

Searching for a Desired file

1 Touch [] (Search).

2 Touch your desired Folder name or File name.

- When you select a Folder name, repeat the same procedure to select another Folder name or File name.

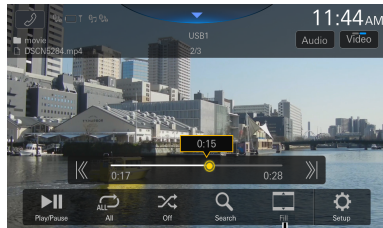
Switching Display Modes

You can switch the Display Mode while playing a Video File.

Touch the Display Mode button.

Each time you touch, the Display Mode is switched.

Fit → Fill → Fit



Display Mode button

- The Display Mode button displays the currently selected mode.
- You cannot operate them while driving.

Fit: The mode displays a picture to fit its size vertically and horizontally with the monitor size.

Fill: Cut the top and bottom of the image and stretch it over the entire screen.

Switching the Audio Tracks

When the image has multiple sound tracks, the sound track can be switched during playback or pausing.

Touch [Audio].

The sound switches in order each time it is touched. The format of the sound is displayed on the screen.

- If more than one audio is not recorded in the video, the [Audio] button will not be displayed.

iPod mode on iPhone (Optional)

A separately sold Lightning to USB cable, etc., is required.

- This unit does not support video playback from an iPhone which connected to this unit via the USB Connector.
- Internet or telephone function, etc., of the iPhone is not controllable from the unit, but these functions can be controlled using the iPhone itself.
- When an iPhone is connected, Apple CarPlay mode is turned on. To use you iPhone with iPod mode, turn "off" the CarPlay setting on the iPhone.

■ iPod main screen example



- ① Information display*
- ② Finds the beginning of next chapter/Fast-forwards when touched for at least 1 second
- ③ Current song no./Total song no.
- ④ Next song information display
- ⑤ Displays the iPod Setup Menu screen (page 22)
- ⑥ Time Bar (Elapsed time/Total time for playing)
- ⑦ Displays the search screen
- ⑧ Shuffle mode
- ⑨ Repeat mode
- ⑩ Pause and Play
- ⑪ Artwork display
- ⑫ Finds the beginning of the current file/Finds a previous file within 3 seconds after playback starts/Fast-reverses when touched for at least 1 second

* Podcast mode.

Playback

1 Press the (HOME) button and select iPod mode.

The display shows the iPod mode screen.

2 Touch [] or [] or to select the desired track (file).

Returning to the beginning of the current (or previous) track (file):

Touch [].

Fast reverse the current track :

Touch and hold [].

Advancing to the beginning of the next track (file) :

Touch [].

Fast forward the current track :

Touch and hold [].

- The [] and [] buttons provide the same functions above.
- Touch or slide the Time Bar to fast-forward or fast-reverse.

3 To pause playback, touch [].

- If a song is playing on the iPhone before it is connected to the unit, it will continue playing when it is connected.
- Audiobooks may have several chapters. The chapter can be changed by touching [] or [].
- If the artist, album or song name, created in iTunes, has too many characters, songs may not be played back when connected to the unit. Therefore, a maximum of 64 characters is recommended. The maximum number of characters for the unit is 64.
- Some characters may not be correctly displayed.

Searching for a Music File

An iPhone can contain thousands of songs. For this reason, this unit can make various searches using the search function as shown below.

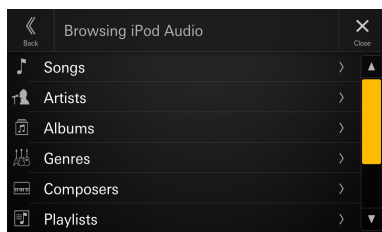
Using the Playlists/Artists/Albums/Podcasts/Audiobooks/Genres/Composers/Songs/Radio search mode's individual hierarchy, you can narrow down your search as shown in the table below.

<Music Search Menu>

Hierarchy 1	Hierarchy 2	Hierarchy 3	Hierarchy 4
Playlists	Songs	—	—
Artists	Albums	Songs	—
Albums	Songs	—	—
Songs	—	—	—
Genres	Artists	Albums	Songs
Composers	Albums	Songs	—
Podcasts	Episodes	—	—
Audiobooks	—	—	—
Radio	—	—	—

For example: Searching by Artist name

The following example explains how an Artists search is performed.



1 Touch [Q] (Search) during playback.

2 Touch [Artists].

The Artists search screen is displayed.

3 Touch the desired artist's name.

4 Touch the desired album's name.




All songs of the selected album are displayed.

5 Touch the desired song's name.

The selected song is played back.




Repeat Play

Touch [↺] to select Repeat Play mode.

- All Tracks : All songs are repeatedly played back.
- Single Track : Only the song currently playing is repeatedly played back.
- Off : Repeat mode is Off.

Shuffle Play

Touch [↻] to select Shuffle Play mode.

- Album : The songs on each album are played back in proper order. Upon completing of all the songs on the album, the next album is selected randomly. This continues until all albums have been played.
- Songs : Randomly plays back songs within a selected category (playlist, album, etc.). The songs within the category are played just once until all songs have been played.
- Off : Shuffle mode is Off.

HDMI Device (Optional)

Devices supporting HDMI can connect and play back through this unit (for example, iPhone or other Smartphones).

- The HDMI/MHL connecting cable differs depending on the connected device corresponding to HDMI. Prepare optional HDMI/MHL connecting cable sets suitable for your device.



WARNING

It is dangerous for the driver to watch video while driving the vehicle. The driver may be distracted from looking ahead and an accident could occur.

HDMI Operation

■ iPhone, Smartphone, etc.

The output of your electronic device will be mirrored on this unit through the HDMI connector. Control from this unit is not possible.

- In HDMI player mode, the screen of the device displays the content of electronic equipment by mirror image.
- The electronic device must possess an HDMI output interface.
- Not all devices with an HDMI output interface can be recognised by this unit.
- Use only an Authorised HDMI connection cable.

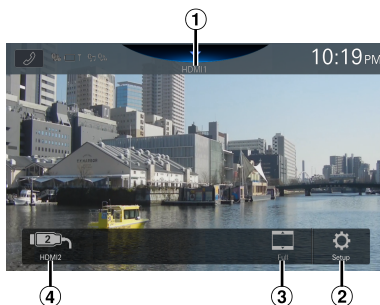
1 Press the (HOME) button to select HDMI.

The display shows the HDMI mode screen.

2 During the HDMI playback, touch and hold the screen to display the operation screen.

The HDMI operation screen is displayed for about 5 seconds.

- For your safety, video is not displayed and only audio can be heard while driving.



- ① Source Title
 - The name which is given as the source name in "Setting the HDMI Name" (page 23) is displayed.
- ② Displays the HDMI Setup Menu screen (page 23)
- ③ Switching Display Modes
- ④ HDMI1/HDMI2 switch
 - This switch appears when the HDMI Selector setting is [On]. See "Setting the HDMI Selector" (page 23). The switch name of HDMI1 becomes the same as the source title.

Switching the HDMI Input

When the optional HDMI Selector is connected, up to 2 HDMI devices can be connected. The HDMI devices can be switched during HDMI playback.

- Make sure to set the HDMI Selector setting to [On]. See "Setting the HDMI Selector" (page 23).
- The displayed name of HDMI1 varies according to the HDMI Name setting. See "Setting the HDMI Name" (page 23).

Touch [HDMI1 (or Digital TV)] or [HDMI2].

The current HDMI mode can be checked in the Source Title located in the upper part of the HDMI operation screen.

Switching Display Modes

You can switch the Display Mode while playing a Video File.

Touch the Display Mode button.

Each time you touch, the Display Mode is switched.

Full → NORMAL → WIDE → Full

- The Display Mode button displays the currently selected mode.
- You cannot operate them while driving.

WIDE: Cut the top and bottom of the image and stretch it over the entire screen.

Full: The mode displays a picture to fit its size vertically and horizontally with the monitor size.

NORMAL: Select when viewing 4:3 images. A black band appears on both sides of the screen.

Bluetooth® Operation

Setup Before Using

About Bluetooth

Bluetooth is a wireless technology allowing communication between a mobile device or personal computer over short distances. This enables a hands-free call or data transmission between Bluetooth® compatible devices. Bluetooth® transmission is available in the unlicensed 2.4 GHz spectrum if the distance between devices is within 10 meters. For details, refer to the Bluetooth® website (<http://www.Bluetooth®.com/>).

- Depending on the Bluetooth® version, a Bluetooth® compatible device may not be able to communicate with this unit.
- Proper function of this unit with all Bluetooth® compatible devices is not guaranteed. For handling of the Bluetooth® compatible device, consult your Mazda Dealer.
- Depending on the surroundings, Bluetooth® wireless connection may be unstable.
- When you place a call, or perform setup operations, be sure to stop your car in a safe place.
- Depending on the connected Bluetooth® compatible device(s), the function may differ. Also refer to the Owner's Manual of the connected device(s).

About the Hands-free Phone

Hands-free calls are possible when using a HFP (Hands-Free Profile) compatible mobile phone with this unit.

- Avoid performing a hands-free call in heavy traffic or on narrow or winding streets.
- Close the windows while calling to reduce background noise.
- If both calling parties are using hands-free devices, or the call is made in a noisy location, difficulty hearing the other person's voice is normal.
- Depending on telephone line conditions or certain mobile devices used, voices may sound unnatural.
- When using a microphone, speak as directly as you can into the microphone to obtain the best sound quality.
- Certain mobile phone features are dependent on the capabilities and settings of your service provider's network. Additionally, certain features may not be activated by your service provider, and/or the provider's network settings may limit the feature's functionality.

Always contact your service provider about feature availability and functionality.

All features, functionality, and other product specifications, as well as the information contained in the Owner's Manual are based upon the latest available information and are believed to be accurate at the time of printing.

- Mazda reserves the right to change or modify any information or specifications without notice or obligation.
- Notice that when you connect an iPhone 6s or later/Android smartphone with installed Android Auto App, the operation screen may differ from this section.

Before Using Bluetooth®

Before using the hands-free phone/audio function, the following settings need to be made.

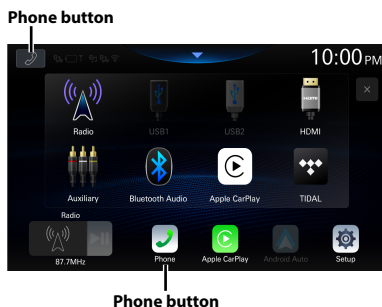
1 Set "Bluetooth®" to [On] (page 18).

2 Register a Bluetooth® device in this unit (page 15).

- You can search for this unit using a Bluetooth® compatible device, and then connect that Bluetooth® compatible device to this unit. The device name of this unit is "iLX-507A", "iLX-F509A" or "iLX-F511A" and the initial number of the passcode is "0000." Also refer to the Owner's Manual of the connected device(s).

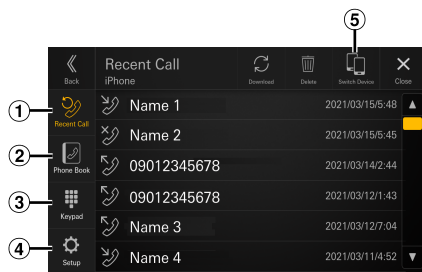
Hands-free Phone Control

Touch [] (Phone) in the HOME screen or Source mode screen to display the Phone menu screen.



- The Device List screen is displayed when a Hands-free Phone, Apple CarPlay or Android Auto device is not connected.

■ Phone menu screen example



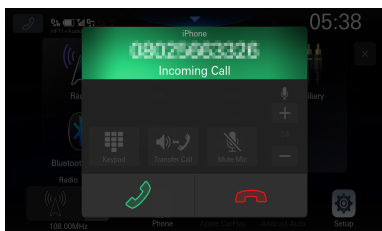
① Recent Call


You can display up to 90 items, such as phone numbers of the most recent incoming calls, missed calls and outgoing calls, and contact names that are registered in the Phone Book. When 90 items exist in the list, the oldest item is deleted when a further item is to be added.

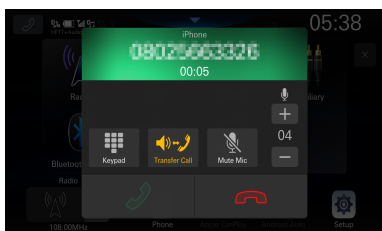
- ② Phone Book
You can make a phone call from the Phone Book.
- ③ Keypad screen
Use to type a phone number.
- ④ Setup
Displays the Phone Setup Menu screen (page 23).
- ⑤ Switch Device
You can switch between Hands Free 1 and Hands Free 2.





Answering a Call

- 1 An incoming call triggers the ringtone and an incoming call display.



- 2 Touch [].
The call starts.



- During a call, the audio for the current mode on the unit is muted. After calling, playback will resume.
- When the caller's name is transmitted to the system, if the caller's name is stored in the phone book, the name is displayed. If the name is not stored, the number is displayed.
- Touch [] (Decline) to reject an incoming call.
- By touching [], you can mute the microphone. To cancel MUTE mode, touch []. For details, see "Phone Operation Screen" (page 53).
- When 2 Bluetooth® compatible devices are connected, one is in a call and the other receives an incoming call, the screen indicates the incoming call. To answer the second call, hang up the first call, and then touch [] on the screen of this unit. Or you can answer the call directly with your Bluetooth® compatible device.

Hanging up the Telephone

Touch [] (End Call).

The call finishes.

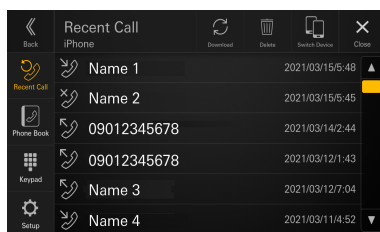
Calling

Making a phone call using the Phone Menu

Making a phone call from the Recent Events list

- 1 Touch [Recent Call] on the Phone menu.

The Recent Call screen is displayed.



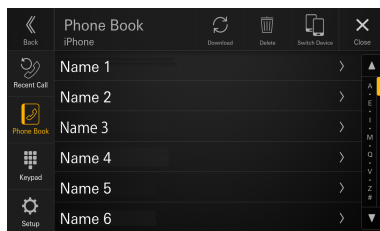
- 2 Touch the name of the contact you want to call.

The phone call is started.

Calling from the Phone Book

- 1 Touch [Phone Book] on the Phone menu.

The Phone Book screen appears.



- 2 Touch the name of the contact you want to call.

The Detail info screen is displayed.

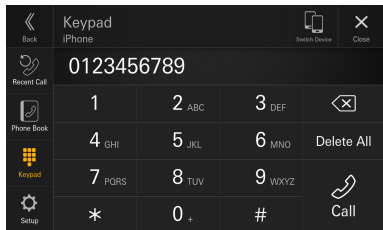
- 3 Touch the phone number.

The phone call is started.

Entering a Phone Number to Make a Call

1 Touch [Keypad] on the Phone menu.

The number input screen (Keypad) appears.



Touch [X] to delete an entered number.

Touch [Delete All] to delete all entered numbers.

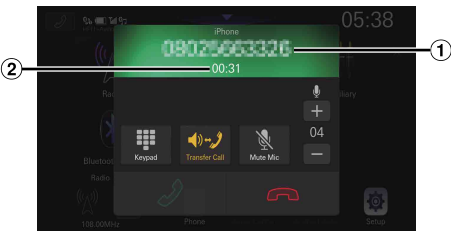
2 Enter the phone number you wish to call.

- You can enter up to 40 digits.

3 Touch [Call].

The phone call is started.

Phone Operation Screen



① Name or phone number

- If it is registered with a Group, the Group Name is also displayed. Although, depending on the connected mobile phone, it may not be displayed.

② Conversation time

Adjusting the Speech Volume

You can adjust Microphone Level.

Touch [–] or [+] of “🔊”.

You can adjust the volume in 11 levels.

- Microphone Level can also be adjusted in the Phone Setup screen. “Adjusting the Microphone Level” (page 24).

Changing the Voice Output

The voice output for calls is switchable between car speakers and the mobile phone speaker.

Touch [🔊🚗] or [🔊📞].

- Depending on the mobile phone, this operation may not be possible.

Muting the Microphone

Touch [🔇].

- To cancel MUTE mode, touch [🔊].

DTMF (Touch-Tone) Function

Transmits a DTMF (Touch-Tone) signals during a call.

1 Touch [Keypad].

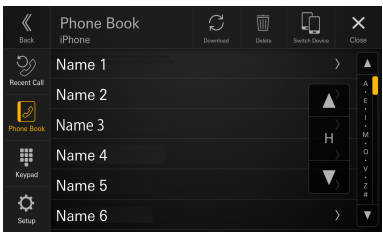
The number input screen (Keypad) appears.

2 Input number.

- You can transmit a Touch-Tone signal during a call.
- You cannot hear the DTMF (Touch-Tone) signal.

Phone Book Function

■ Phone Book screen example



Searching in the Phone Book

The unit is provided with an alphabet search function for effective searching. When you use this function in the search mode, you can quickly search a name, etc. of the contact which you want to call.

1 Touch the initial search bar on the Phone Book screen and slide your finger up and down to align the bar with the target letter.

2 Touch the name of the contact you want to call.

The Detail info screen is displayed.

3 Touch the phone number.

The phone call is started.

- *If there are no names in the list beginning with that letter, the next letter of the alphabet is searched. For example: If there are no names beginning with "R," the search list begins with "S."*

Synchronising the Phone Book


You can synchronise the system's phone book with the mobile phone's phone book.

Touch [] (Download) on the Phone Book screen.

Synchronisation of the phone books starts.

- *You can store up to 2,000 registered name in the phone book.*
- *You can store up to 5 phone numbers by one person's name.*

Deleting the Phone Book Entries

1 Touch [] (Delete) on the Phone Book screen.

The confirmation screen is displayed.

2 Touch [OK].

All entries of the phone book are deleted.

Bluetooth® Audio

If a Bluetooth® compatible mobile phone, portable player, etc. is connected by wireless, you can play back a song (operation is controllable from the unit).

- Operation may vary, depending on the Bluetooth® compatible device.

■ Bluetooth® Audio main screen example



- 1 Information display
- 2 Finds the beginning of next chapter/Fast-forwards when touched for at least 1 second
- 3 Current track number/Total track number
- 4 Displays the audio codec information (SBC/AAC/LDAC)
- 5 Displays the BT Audio Setup Menu screen (page 24).
- 6 Displays the Device Setup Menu screen (page 14).
- 7 Elapsed time/Total time for playing
- 8 Displays the search screen
- 9 Shuffle mode
- 10 Repeat mode
- 11 Pause and Play
- 12 Finds the beginning of the current file/Finds a previous file within 3 seconds after playback starts/Fast-reverses when touched for at least 1 second

- The displayed onscreen buttons may differ depending on the AVRCP version.
- To play back audio, a mobile phone or a portable player conforming to A2DP (Advanced Audio Distribution Profile) or AVRCP (Audio/Video Remote Control Profile) is required. Not all functions work with all devices.
- During a call, sound on the Bluetooth® audio source is paused. **Compatible AVRCP versions: 1.6**
- Available functions may differ depending on the AVRCP version.

Playback

1 Press the (HOME) button and select Bluetooth® Audio mode.

The display shows the Bluetooth® Audio mode

When the Bluetooth® is set to [Off], the Bluetooth® audio source icon will not be displayed. See "Setting the Bluetooth®" (page 18).

2 Touch [] or [] to select the desired track (file).

Returning to the beginning of the current file:
Touch [].

Fast backward the current file:
Touch and hold [].

Advance to the beginning of the next file:
Touch [].

Fast forward the current file:
Touch and hold [].

- The [], [] buttons provide the same functions above.

3 To pause playback, touch [].

Repeat Play




Touch [] repeatedly to select Repeat Play mode.

Single Track 	Only the track currently playing is repeatedly played back.
Group 	Only files in a group are repeatedly played back.
All Tracks 	Once all of the songs have finished playing, play back is repeated, starting with the first song.
Off 	Repeat mode is Off.

- Operations may differ depending on the connected Bluetooth® compatible device.


Shuffle Play

Touch [] to select **Shuffle Play mode**.

- Group  : A Group is selected randomly and songs in the Group are played back in order. After all songs are played in the Group, the next Group is selected randomly.
- All Tracks  : All songs in the Bluetooth® compatible devices are played back in random sequence. Any one song does not play back again until all songs have been played back.
- Off  : Shuffle mode is Off.

- Operations may differ depending on the connected Bluetooth® compatible device.

Searching for a Desired file

1 Touch [] (Search).


2 Touch your desired **Folder name** or **File name**.

- When you select a **Folder name**, repeat the same procedure to select another **Folder name** or **File name**.

Connecting a Bluetooth® Device

Registering a Bluetooth® device in the unit enables automatic connection.

If it does not connect automatically, run through the connection procedure again.

1 Touch [] (Phone Setting).


The Device List screen is displayed.

2 Touch [Connect].

Bluetooth® connection will start.

- For details, see “Displaying Device List” (page 14).

Disconnecting the Bluetooth® Connection

1 Touch [] (Phone Setting).

The Device List screen is displayed.


2 Touch [Disconnect].

The Bluetooth® connection is disconnected.

- For details, see “Disconnecting the Connected Device” (page 15).

Switching the connecting Bluetooth® Device

If multiple Bluetooth® devices are registered in this device, you can change the connection among the registered devices.

1 Touch [] (Phone Setting).

The Device List screen is displayed.

2 Select the function of the connecting device on the **Function Select** screen, and touch [OK].

The Function Select screen is displayed.

3 Select [Bluetooth® Audio] in the **Function Select** screen, then touch [OK].

A check mark is displayed for the selected function.

The connection will transfer to the selected device.

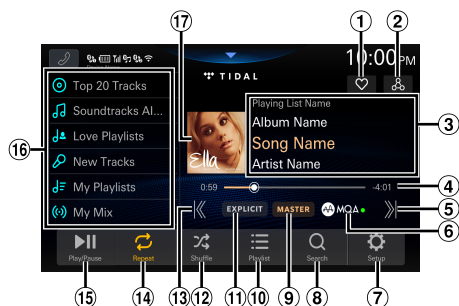
- For details, see “Connecting the Device Registered in the Device List” (page 15).

TIDAL Operation (Optional)

To use TIDAL, it is necessary to connect to a Wi-Fi access point with a valid internet connection. For details, see "Setting the Wi-Fi Mode" (page 16) and "Connecting to Wi-Fi Access Point" (page 16).
Log in to TIDAL before using this feature. For details, see "Logging in to TIDAL" (page 57).

- For details on TIDAL, see the TIDAL website (<https://tidal.com/>).
- This unit does not support video playback.
- In areas with poor internet connectivity, it may take some time before a screen is displayed or playback starts. If the connection speed is slow, set the "Streaming Quality" setting (page 26) to "Normal".

■ TIDAL main screen example



- ① Displays the Favourite Select screen (page 60)
- ② Displays the Related Searches screen (page 60)
- ③ Information display
Playlist Name/Album Name/Song Name*/Artist Name
- ④ Time Bar (Elapsed time/Total time for playing)*
- ⑤ Finds the beginning of next track
- ⑥ MQA (Master Quality Authenticated) indicator
Green light: MQA
Blue light: MQA Studio
- ⑦ Displays the TIDAL Setup Menu screen (page 26)
- ⑧ Displays the search screen
- ⑨ Sound quality display
Displays the sound quality of the song being played.
MASTER/HIFI/HIGH or NORMAL
- ⑩ Displays the browsing list screen (page 59)
- ⑪ EXPLICIT indicator
Lights up when the lyrics contain obscene and explicit expressions.
- ⑫ Shuffle mode

- ⑬ Finds the beginning of the current track/Finds a previous file within 3 seconds after playback starts
- ⑭ Repeat mode
- ⑮ Pause and Play
- ⑯ Preset list
Recalls an item added to the preset list.
Touch for at least 2 seconds to memorize the URL of the current playlist as a preset list.
- ⑰ Artwork display

- * The color of the Song Name and Time Bar changes depending on the sound quality.
 - TIDAL Gold: MASTER quality
 - TIDAL Cyan: HIFI quality
 - White: HIGH or NORMAL quality

About MQA (Master Quality Authenticated)

This unit includes MQA Core Decoder, which unfolds the MQA stream once to deliver better than CD-quality. The first unfold recovers all the direct music-related information. Output is 88.2 kHz or 96 kHz.

The [MQA+] indicator glows green or blue to indicate that the unit is decoding and playing an MQA stream, and denotes provenance to ensure that the sound is identical to that of the source material. It glows blue to indicate it is playing an MQA Studio stream, which has either been approved in the studio by the artist/producer or has been verified by the copyright owner.

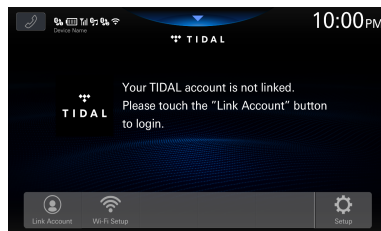
Logging in to TIDAL

When using TIDAL for the first time, if your device authentication has expired or if you are logged out, you will need to log in to TIDAL.

1 Press the [HOME] button and select TIDAL mode.

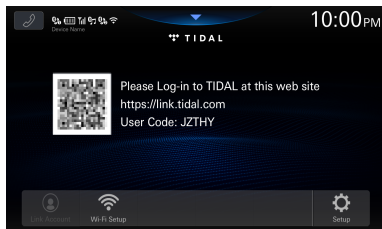
The TIDAL screen is displayed.

2 Touch [Link Account].



The login screen is displayed.


- 3 Scan the QR code with your iPhone or smartphone on the login screen and enter your user name and password on the login site.



If the login is successful, the TIDAL screen will be displayed.

- If you access the TIDAL login site directly, it is necessary to enter the user code.
- When you touch [Wi-Fi Setup], the Wi-Fi Access Point List screen is displayed. For details, see "Connecting to Wi-Fi Access Point" (page 16).

Playback

- 1 Press the  (HOME) button and select TIDAL mode.

The display shows the TIDAL mode screen.



- 2 Touch [⏮] or [⏭] or to select the desired track (file).

Returning to the beginning of the current (or previous) track:

Touch [⏮].

Advancing to the beginning of the next track:

Touch [⏭].

- The  and  buttons provide the same functions above.
- Touch or slide the Time Bar to fast-forward or fast-reverse. The message "Please wait" is displayed, then playback starts.

- 3 To pause playback, touch [⏸].

Adding to the Preset List

You can add the URL of the current playlist to items in the preset list (mix, albums, artists, playlists, etc.).

- 1 Touch and hold the item in the preset list for at least 2 seconds.

The item is added to the preset list.

Initial preset list items:

My Mix, New Playlist, Recommended Playlist, Exclusive Playlist, New Albums, Recommended Albums, Top20 Albums, New Tracks, Recommended Tracks, Top20 Tracks, Favourite Albums, Favourite Tracks

- If you save an item to a preset list in which it is already assigned, the item on the list is replaced with the newly assigned item.

Recalling from the Preset List

- 1 Touch the desired item in the preset list.

The item list screen is displayed.

- 2 Select the desired tile (Playlist, Album, etc.).

The track list screen is displayed.



- 3 Select the desired tile.

The selected track is played back.

- Touch [+Add Preset] to add the displayed content to the preset list. Touch the desired item on the Preset Select screen.



Repeat Play

Touch [] or [] to select Repeat Play mode.

Single Track 	Only the track currently playing is repeatedly played back.
All Tracks 	Once all of the tracks have finished playing, play back is repeated, starting with the first track.

Shuffle Play

Touch [] to select Shuffle Play mode.

On 	Tracks in the selected category (playlist, album, etc.) are played back in random order.
Off 	Shuffle mode is Off.

- If you touch [⏮] when the Shuffle mode is "On", a randomly selected track (or the beginning of the current track) is played back, so you may not be able to go back to the previous track.

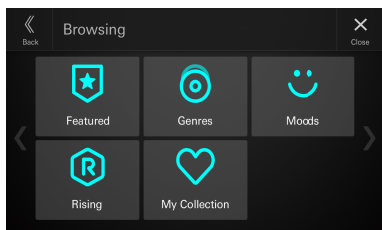
Search

You can search for a track, artist, etc. you want to listen to based on Featured, Genres, Moods, or Rising.

1 Touch [Q] (Search) during playback.

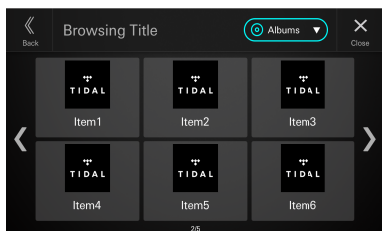
The Browsing screen is displayed.

2 Touch [Featured], [Genres], [Moods], or [Rising].



The search screen for the selected item is displayed.

3 Touch [Tracks], [Albums], [Playlists], or [Artists], and then select the desired tile.



The selected track is played back.

- Content with MASTER sound quality is indicated with "M" on the tile.
- Content with EXPLICIT expressions is indicated with "E" on the tile.
- Touch [+Add Preset] to add the searched content to the preset list. Touch the desired item on the Preset Select screen.

Search from My Collection

You can search for items added to My Collection. To add to My Collection, see "Adding to Favourite Category" and "Adding to Playlists" (page 60).

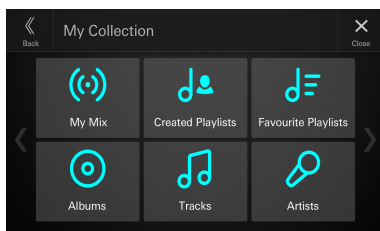
1 Touch [Q] (Search) during playback.

The Browsing screen is displayed.

2 Touch [My Collection].

The My Collection screen is displayed.

3 Touch [My Mix], [Created Playlists *1], [Favourite Playlists *2], [Albums], [Tracks] or [Artists].



The search screen for the selected item is displayed.

*1 Created Playlists are playlists you created in the TIDAL app on your PC or smartphone.

*2 Favourite Playlists are TIDAL original playlists or playlists created by any user.

4 Select the desired tile.

The selected track is played back.

- Content with MASTER sound quality is indicated with "M" on the tile.
- Content with EXPLICIT expressions is indicated with "E" on the tile.
- Touch [+Add Preset] to add the searched content to the preset list. Touch the desired item on the Preset Select screen.

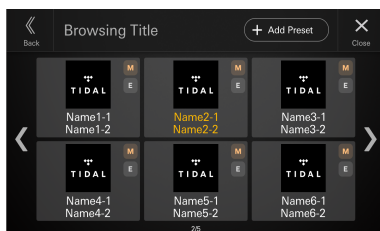
Displaying the Playlist

You can display the playlist being played.

1 Touch [≡] (Playlist) during playback.

The Playlist screen is displayed.

2 Select the desired tile.



The selected track is played back.

- Content with MASTER sound quality is indicated with "M" on the tile.
- Content with EXPLICIT expressions is indicated with "E" on the tile.
- The track title being played is displayed in orange.
- Touch [+Add Preset] to add the displayed playlist to the preset list. Touch the desired item on the Preset Select screen.

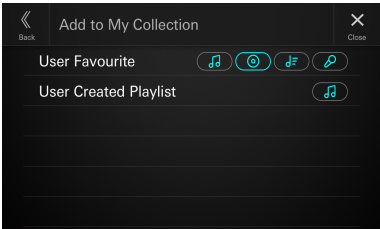
Adding to Favourite Category

You can add the track, album, playlist, or artist being played to My Collection.

1 Touch [♥] (Favourite Select) during playback.

The Favourite Select screen is displayed.

2 Touch [🎵] (Track), [📀] (Album), [📁] (Playlist) or [🎤] (Artist) of “User Favourite”.



The item being played is added to the corresponding item (“Tracks”, “Albums”, “Favourite Playlists”, “Artists”) in My Collection. If the item is added successfully, the selected button frame is highlighted.

- The added items can be recalled through the My Collection search. For details, see “Search from My Collection” (page 59).
- You cannot delete items added to My Collection.

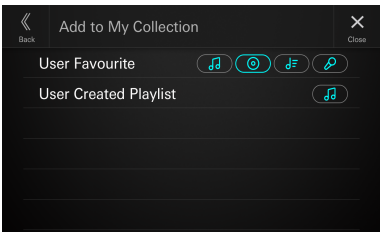
Adding to Playlists

You can add the track being played to the playlist.

1 Touch [♥] (Favourite Select) during playback.

The Favourite Select screen is displayed.

2 Touch [🎵] (Track) of “User Created Playlist”.



The track being played is added to “Created Playlists” in My Collection. If the track is added successfully, the selected button frame is highlighted.

- The added items can be recalled through the My Collection search. For details, see “Search from My Collection” (page 59).

- You cannot delete items added to My Collection.

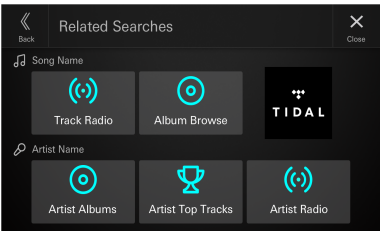
Search for Content Related to the Track Being Played

You can search for content (Track Radio, Album Browse) related to the track being played.

1 Touch [🔍] (Related search) during playback.

The Related Searches screen is displayed.

2 Touch [Track Radio] or [Album Browse].



The track list screen is displayed.

3 Select the desired tile.

The selected track is played back.

- Content with MASTER sound quality is indicated with “M” on the tile.
- Content with EXPLICIT expressions is indicated with “E” on the tile.
- Touch [+Add Preset] to add the searched content to the preset list. Touch the desired item on the Preset Select screen.

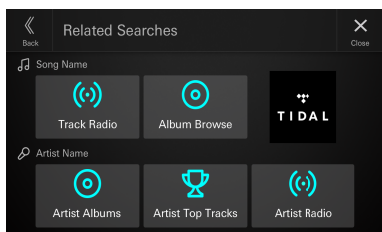
Search for Content Related to the Artist Being Played

You can search for content (Artist Albums, Artist Top Tracks, or Artist Radio) related to the artist being played.

1 Touch [] (Related search) during playback.

The Related Searches screen is displayed.

2 Touch [Artist Albums], [Artist Top Tracks] or [Artist Radio].



The list screen for the selected item is displayed.

3 Select the desired tile.

The selected track is played back.

- When you touch **[Artist Albums]**, the track list screen is displayed, select the desired tile.
- Content with MASTER sound quality is indicated with “M” on the tile.
- Content with EXPLICIT expressions is indicated with “E” on the tile.
- Touch [+Add Preset] to add the searched content to the preset list. Touch the desired item on the Preset Select screen.

Auxiliary Device (Optional)

WARNING

It is dangerous for the driver to watch video while driving the vehicle. The driver may be distracted from looking ahead and an accident could occur.

Operating Auxiliary Devices (Optional)

To operate devices connected to the AUX terminals of the unit, follow the procedure described below.

- Set up the “AUX (Auxiliary) Setup” (page 22).

1 Press the (HOME) button to select Auxiliary (AUX) mode.

The display shows the Auxiliary (AUX) mode screen.

2 During the Auxiliary (AUX) playback, touch and hold the screen to display the operation screen.

The Auxiliary (AUX) operation screen is displayed for about 5 seconds.

- For your safety, video is not displayed and only audio can be heard while driving.
- For details on the connected auxiliary device, refer to its owner's manual.



① Source Title

- The name which is given as the source name in “Setting the Auxiliary (AUX) Name” (page 22) is displayed.

② Displays the Auxiliary Setup Menu screen (page 22)

③ Switching Display Modes

Switching Display Modes

You can switch the Display Mode while playing a Video File.

Touch the Display Mode button.

Each time you touch, the Display Mode is switched.
Full → NORMAL → WIDE → Full

- The Display Mode button displays the currently selected mode.
- You cannot operate them while driving.

WIDE:	Cut the top and bottom of the image and stretch it over the entire screen.
Full:	The mode displays a picture to fit its size vertically and horizontally with the monitor size.
NORMAL:	Select when viewing 4:3 images. A black band appears on both sides of the screen.

Rear Camera Operation

Rear Camera Operation

Displaying the rear view video while the car is in reverse

1 Shift the gear lever to the reverse (R) position.

The rear view image is displayed while the car remains in reverse.

2 If you shift the gear lever to a position other than reverse (R), the monitor returns to the previous screen.

- *Never depend solely on the camera when backing up. Always turn and look and only use the camera for additional assistance.*
- *This function is effective when the reverse wire is properly connected.*

You can adjust the quality of the camera image.
Setting items: Brightness / Colour / Contrast
See "Video Setup" (page 24).

Displaying the Camera Image from the HOME screen

1 Press the (CAM) button.


The Camera view image is displayed.

2 Touch the screen when the image from the camera is displayed.

The operation screen is displayed on the screen.

3 Touch [Rear].

The Rear Camera view image is displayed.

- Touch [] to return to the previous screen.

The guide disappears, and then the [Guide] switch changes to [Guide].



3 Touch [Guide] to turn on the guide.

Adjusting the Caution Display Location

1 Touch the screen when the image from the camera is displayed.

The operation screen is displayed on the screen.

- After a 5-second time-out, the operation screen returns to the camera display screen.

2 Touch [Caution].

- *For each touch, the caution location moves to the top or bottom of the screen.*

Hitch Guide Display ON/OFF Setting

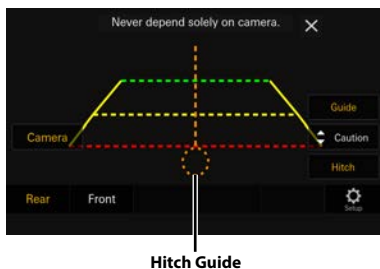
1 Touch the screen when the image from the camera is displayed.

The operation screen is displayed on the screen.

- After a 5-second time-out, the operation screen returns to the camera display screen.

2 Touch [Hitch] on the Rear camera display screen.

The hitch guide appears, and then the [Hitch] switch changes to [Hitch].



3 Touch [Hitch] to turn off the guide.

Guide Display ON/OFF Setting

1 Touch the screen when the image from the camera is displayed.

The operation screen is displayed on the screen.

- After a 5-second time-out, the operation screen returns to the camera display screen.

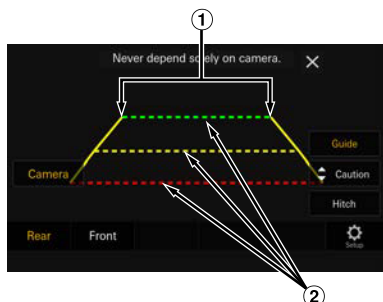
2 Touch [Guide] on the Rear camera display screen

About the Rear Camera Guide

To display the guide, set "Guide Display ON/OFF Setting" (page 63) to On. Also, to adjust the guide, see Camera Guide Setup" (page 25).

~ Indication mark meaning

When the car is put into reverse gear, the monitor switches to the rear view camera image. Guides appear to help visualize the car's width and distance from the rear bumper.



① Car width extension lines (red, yellow and green in order of distance)

The marks indicate the car's width. This helps guide the car's path when backing up in a straight line.

The marks represent the distance from the rear of the car (from the rear end of the bumper).

- The marks do not move in synchronization with the steering wheel.
- A reverse camera is not a substitution for good judgment and should be used only as an additional aid. Ensure correct safety practices (checking of mirrors and surroundings) are practiced while driving

② Distance guidance lines

The marks represent the distance from the rear of the car (from the rear end of the bumper).

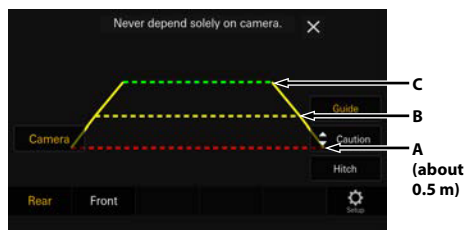
- The marks do not move in synchronization with the steering wheel.
- We recommend that you measure the actual distance to the marks when parked on a level surface.
- Depending on the condition of the car or road surface, the range of vision may vary.
- The camera has a limited range of vision. Objects at extreme angles to the camera (e.g. under the bumper or at opposite ends of the bumper) may not be in its field-of-vision.
- The rear camera image may have a tint which is different from the actual surroundings.

~ Distance guidance mark

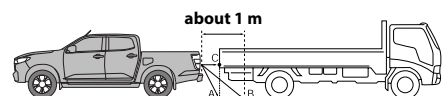
The distance guides represent the ground level distance from the rear bumper. It is difficult to accurately estimate the distance to objects above ground level.

The distance to A is 0.5 m and the distance to B is 1 m.

<Screen>



<Positions of A, B and C>



In the screen, according to the distance guidance marks, the truck seems to be parked about 1 m away (at the position B). In actual fact, however, if you reversed to position A, you would collide with the truck.

In the screen, positions A, B and C seem to be located in order of proximity. However, in actual fact, the position A and C are the same distance, and B is farther away than positions A and C.

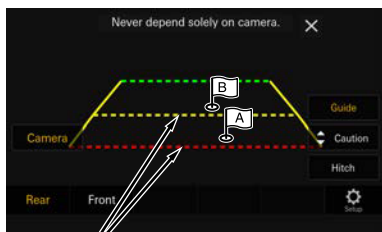
- The car width extension mark represents the distance to the road surface. The distance to an object on the road is not accurately represented by the guides.

Error between the screen and the actual road surface

In the following conditions, errors are produced between the screen guidance and the actual road surface.

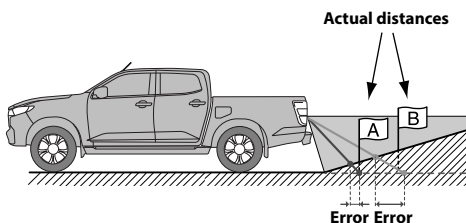
~ When there is a steep upward slope behind the car (example)
the car (example)

<Screen>



Distance guidance marks

<Situation of the car>

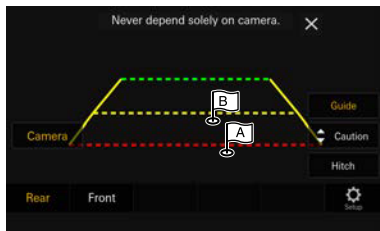


The distance guidance mark represents the distance to a flat road surface. Therefore in the case of an upward slope behind the car, the distance guides are displayed farther from the rear bumper than the actual distance. For example, if there is an obstacle on the upward slope, it may appear farther away than its actual position.

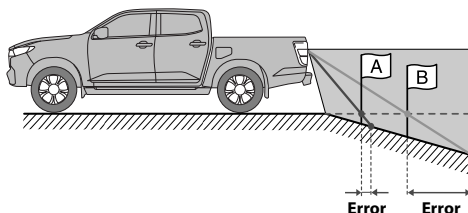
Also, an error may occur between the guidance and the actual path of the car on the road surface.

~ When there is a steep downward slope behind the car (example)
the car (example)

<Screen>



<Situation of the car>



In the case of a downward slope behind the car, the distance guides are displayed farther from the rear bumper than the actual distance.

If there is an obstacle on the downward slope, it seems closer than its actual position.

Also, an error may occur between the guidance and the actual path of the car on the road surface.

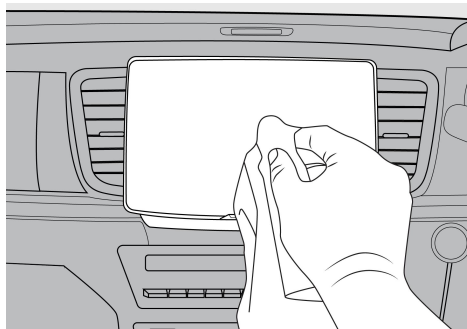
Switching the Image Pattern for the Rear Camera

Switching of the Camera Image Pattern is not applicable.

Cleaning your Display

To clean the display of your audio system, follow these instructions:

1. Turn off the display before cleaning. It is much easier to see any finger marks or smudges when the unit is off.
2. Use a clean Microfiber cloth and lightly wipe the screen across or up and down. Avoid circular motions.



3. If the display still has marks on it, very lightly moisten the cloth with a neutral cleaning solution and wipe the screen. It is very important not to use too much liquid. Never use abrasive, harsh, ammonia or alcohol-based cleaners.

WARNING! Never directly spray the display with any liquid.

Information

Product Software Update

Sporadically a Software update may be available for this unit. Refer to www.mazda.com.au or your local Mazda dealer for details.

Important information on the software

About the software Licence of the product

The software installed in the product contains open-source software.

For details, refer to the "Open source licences" screen on this unit. See "Displaying Software Licence" (page 30).

About the Supported Formats

About MP3/WMA/AAC/FLAC/WAV/APE



CAUTION

Except for private use, duplicating audio data (including MP3/WMA/AAC/FLAC/WAV/APE data) or distributing, transferring, or copying it, whether for free or for a fee, without permission of the copyright holder is strictly prohibited by the Copyright Act and by international treaty.

What is MP3?

MP3, whose official name is "MPEG Audio Layer 3," is a compression standard prescribed by the ISO, the International Standardization Organization and MPEG which is a joint activity institution of the IEC.

MP3 files contain compressed audio data. MP3 encoding is capable of compressing audio data at extremely high ratios, reducing the size of music files to as much as one-tenth their original size. This is achieved while still maintaining near CD quality. The MP3 format realizes such high compression ratios by eliminating the sounds that are either inaudible to the human ear or masked by other sounds.

What is WMA?

WMA, or "Windows Media™ Audio," is compressed audio data.

WMA is similar to MP3 audio data.

What is AAC?

AAC is the abbreviation for “Advanced Audio Coding,” and is a basic format of audio compression used by MPEG2 or MPEG4.

What is FLAC?

FLAC (Free Lossless Audio Codec) is an audio file codec for lossless compression, developed and offered as open source software.

Codecs with lossy compression forms, such as MP3 and AAC, reduce part of the data to improve compression efficiency.

However, FLAC can reconstruct compressed data to be an identical copy of the original data by performing lossless compression. The compression ratio of FLAC is about 50%.

What is WAV?

WAV is a standard audio format for Windows. It is the original format before compression. You can enjoy music with almost the same sound quality as a CD. WAV is also known as WAVE.

What is APE?

APE is a format called lossless compression. It can be restored to its original quality by decoding. Mainly, it is used in “Monkey’s Audio.”

Method for creating MP3/WMA/AAC/FLAC/WAV/APE (USB Flash drive) files

Audio data is compressed using software with MP3/WMA/AAC/FLAC/WAV/APE (USB Flash drive) codecs. For details on creating MP3/WMA/AAC/FLAC/WAV/APE (USB Flash drive) files, refer to the user’s manual for that software.

MP3/WMA/AAC/FLAC/WAV/APE (USB Flash drive) files that are playable on this device have the file extensions.

MP3: “mp3”

WMA: “wma”

AAC: “m4a”

FLAC: “flac”/“fla”

WAV: “wav”

APE: “ape”

WMA is not supported for the following files, Windows Media Audio Professional, Windows Media Audio 10 std or Windows Media Audio 10 Pro Lossless.

There are many different versions of the AAC format. Confirm that the software being used conforms to the acceptable formats listed above. It’s possible that the format may be unplayable even though the extension is valid.

Playback of AAC files encoded by iTunes is supported.

Supported playback sampling rates and bit rates

MP3 (USB Flash drive)

Sampling rates: 8 kHz, 11.025 kHz, 12 kHz,
16 kHz, 22.05 kHz, 24 kHz,
32 kHz, 44.1 kHz, 48 kHz

Bit rates: 8 - 320 kbps

WMA (USB Flash drive)

Sampling rates: 8 - 48 kHz

Bit rates: 8 - 385 kbps

AAC (USB Flash drive)

Sampling rates: 16 - 48 kHz

Bit rates: 8 - 320 kbps

FLAC (USB Flash drive)

Sampling rates: 8 - 96 kHz

WAV (USB Flash drive)

Sampling rates: 8 - 96 kHz

APE (USB Flash drive)

Sampling rates: 8 - 48 kHz

This device may not play back correctly depending on sampling rates.

ID3 tags

This device supports ID3 tag. If tag data is in an MP3/WMA/AAC/FLAC/WAV/APE file, this device can display the title (track title), artist name, and album name ID3 tag data.

For non-supported characters, “?” is displayed.

The number of characters may be limited, or not

correctly displayed, depending on the tag information.

Playing back MP3/WMA/AAC/FLAC/WAV/APE

MP3/WMA/AAC/FLAC/WAV/APE files are prepared, then written to a USB flash drive.

- Maximum numbers of playable files/folders
USB Flash drive: 10,000 files/folders (including Root Folder)
- Largest playable file size: 512 MB

Playback may not be performed if a USB flash drive exceeds the limitations described above.

If a file/folder name is long, the maximum possible number of files may decrease.

- Both Audio and Video files are counted if their formats are playable on this unit.

Media supported

The media that this device can play back a USB flash drive.

Corresponding File Systems

This device supports FAT 16/32, exFAT.

The maximum nested folder depth is 8 (including the root directory). File names are limited to 256 characters (including the extension).

Valid characters for folder/file names are letters A-Z (all caps), numbers 0-9, and ‘_’ (underscore).

Terminology

Bit rate

This is the “sound” compression rate specified for encoding. The higher the bit rate, the higher the sound quality, but also the larger the files.

Sampling rate

This value shows how many times per second the data is sampled (recorded). For example, music CDs use a sampling rate of 44.1 kHz, so the sound is sampled (recorded) 44,100 times per second. The higher the sampling rate, the higher the sound quality, but also the larger the volume of data.

Encoding

Converting music CDs, WAVE (AIFF) files, and other sound files into the specified audio compression format.

Tag

Song information such as track titles, artist names, album names, etc., written into MP3/WMA/AAC/FLAC/WAV/APE (USB flash drive) files.

Root folder

The root folder (or root directory) is found at the top of the file system. The root folder contains all folders and files. It is created automatically for all USB flash drives.

In Case of Difficulty

If you encounter a problem, please turn the power off, then on again. If the unit is still not functioning normally, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected, or then consult your local Mazda dealer.

Basic

No function or display.

- Vehicle's ignition is off.
 - If connected according to the instructions, the unit will not operate with the vehicle's ignition off.

No sound or unnatural sound.

- Incorrect setting of volume/balance/fader controls.
 - Readjust the controls.

Screen not displayed.

- Brightness/Contrast control is set at the minimum position.
 - Adjust the Brightness/Contrast control.
- Temperature in the vehicle is too low.
 - Increase the vehicle's interior temperature to operation temperature range.

Movement of displayed picture is abnormal.

- Temperature in the vehicle is too high.
 - Allow the vehicle's interior temperature to cool.

Radio

Unable to tune stations in the seek mode.

- You are in a weak signal area.
 - Make sure the tuner is in Seek mode.
- If the area you are in is a primary signal area, the antenna may not be grounded and connected properly.
 - Check your antenna connections; make sure the antenna is properly grounded at its mounting location.

Broadcast is noisy.

- The station signal is weak and noisy.
 - If above solution does not work, tune in another station.

USB Audio

Unit does not operate.

- Condensation.
 - Wait a while (about 1 hour) for the condensation to dry.

Picture is unclear or noisy.

- Vehicle's battery power is weak.
 - Check the battery power
(The unit may malfunction if the battery power is under 11 volts with a load applied.)

Handsfree Phone

Ringtone is low

- Depending on your phone, the ringtone volume may be low, it is not a failure.

If this Message Appears

Various messages are displayed on the screen during operation. In addition to the messages telling you the current status or providing guidance for the next operation, there are also the following error messages. If one of these error messages is displayed, carefully follow the instructions in the solution column.

System

Unable to operate while driving.

- A setup operation, etc., was carried out while the vehicle was running.
 - Move the vehicle to a safe location, stop, and engage the parking brake, then carry out this operation.

USB Hub is not supported.

- A USB flash drive with a hub is connected.
 - You cannot play back from a USB flash drive with a hub. USB hub connections are also not supported.

Audio/Visual

Connected USB Device is not supported.

- An iPhone that is not supported by the unit is connected.
 - Connect an iPhone that is supported by the unit.
- A USB device that is not supported by the unit is connected.
 - Attempt to connect another USB flash drive.
- Communication error.
 - Turn the ignition key off, and then set to ON again.
 - Check the display by reconnecting between the iPhone and the unit, using the iPhone cable.
 - Check the display by reconnecting between the USB flash drive and the unit.
- Caused by the iPod/iPhone Software Version not being compatible with this unit.
 - Update the iPhone Software Version to be compatible with this unit.
- The iPhone is not verified.
 - Change to another iPhone.

Specifications

MONITOR SECTION

Screen Size	11"
Operation System	TFT active matrix
Number of Picture Elements	2,764,800 pcs. (1280 × 720 × RGB)
Effective Number of Picture Elements	99% or more
Color system	NTSC / PAL
Illumination System	LED

FM TUNER SECTION

Tuning Range	87.5 – 108.0 MHz
Mono Usable Sensitivity	8.1 dBf (0.7 µV/75 ohms)
50 dB Quieting Sensitivity	12 dBf (1.1 µV/75 ohms)
Alternate Channel Selectivity	80 dB
Signal-to-Noise Ratio	65 dB
Stereo Separation	35 dB

AM TUNER SECTION

Tuning Range	531 – 1,701 kHz
Usable Sensitivity	25.1 µV/28 dBf

DAB SECTION

Tuning Range	174.928 – 239.2 MHz
Usable Sensitivity	-100 dBm
Signal-to-Noise Ratio	90 dB

USB1 SECTION

USB requirements	USB 2.0
Max. Power Consumption	2,400 mA
USB Class	USB (Mass Storage Class)
File System	FAT16 / 32, exFAT
Number of Channels	2-Channels (Stereo)
Frequency Response*1	5 – 40,000 Hz (±1 dB)
Total Harmonic Distortion	0.005% (at 1 kHz)
Dynamic Range	95 dB (at 1 kHz)
Signal-to-Noise Ratio	95 dB
Channel Separation	90 dB (at 1 kHz)

*1 Frequency response may differ depending on the encoder software/bit rate.

USB2 SECTION

USB requirements	USB 2.0
Max. Power Consumption	1,500 mA (CDP Support)
USB Class	USB (Mass Storage Class)
File System	FAT16 / 32, exFAT
Number of Channels	2-Channels (Stereo)
Frequency Response*1	5 – 40,000 Hz (±1 dB)
Total Harmonic Distortion	0.005% (at 1 kHz)
Dynamic Range	95 dB (at 1 kHz)
Signal-to-Noise Ratio	95 dB
Channel Separation	90 dB (at 1 kHz)

*1 Frequency response may differ depending on the encoder software/bit rate.

HDMI SECTION

Input Format	720p / 480p / VGA
Output Format	720p / 480p

Bluetooth® SECTION

Bluetooth® Specification	Bluetooth® V4.2 (2,402 - 2,480 MHz)
Output Power	+4.0 dBm/2.51 mW Ave. (Power class 2)
Profile	HFP (Hands-Free Profile) OPP (Object Push Profile) PBAP (Phone Book Access Profile) SPP (Serial Port Profile) A2DP (Advanced Audio Distribution Profile) AVRCP (Audio/Video Remote Control Profile)

GPS SECTION

Reception Frequency	1575.42 + / - 1.023 MHz
Reception sensitivity (Search)	-136 dB max.

Wi-Fi SECTION

Frequency Ranges	IEEE 802.11 b/g/n (2.4 GHz) IEEE 802.11 a/n/ac (5 GHz)
Channels	1 – 13 ch (2.4 GHz) 149 - 165 ch (5 GHz)
Security Protocols	WPA3 / WPA2-PSK (TKIP, AES)

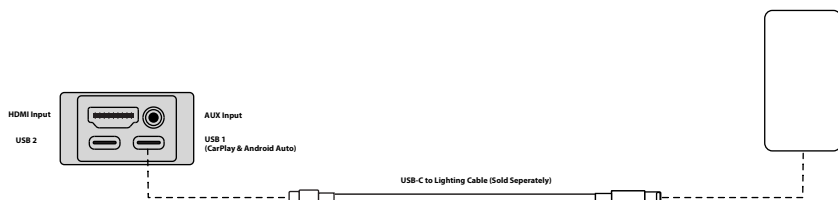
GENERAL

Power Requirement	14.4 V DC (11–16 V allowable)
Operating temperature	-20°C to + 60°C
Power Output	50 W × 4
Maximum Current Consumption	15 A
Audio output level	
Preout (Front, Rear):	4V/10k ohms (max.)
Preout (Subwoofer):	4V/10k ohms (max.)
Weight	2.6 kg

System Example

Connection of an iPhone

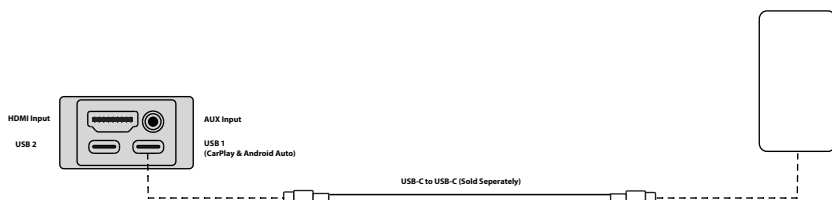
■ When connecting to an iPhone with a Lightning connector



- Do not leave an iPhone in a vehicle for a long time. Heat and humidity may damage the iPhone, and you may not be able to play it again.

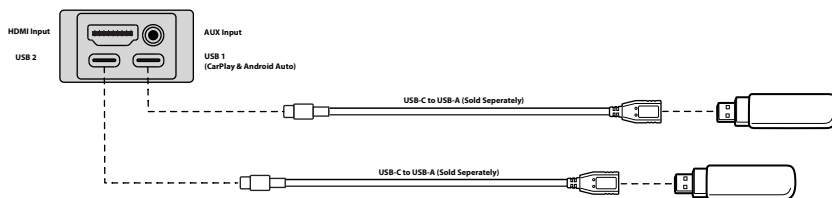
Connection of an Android Device

■ When connecting to an Android Device with a USB-C connector



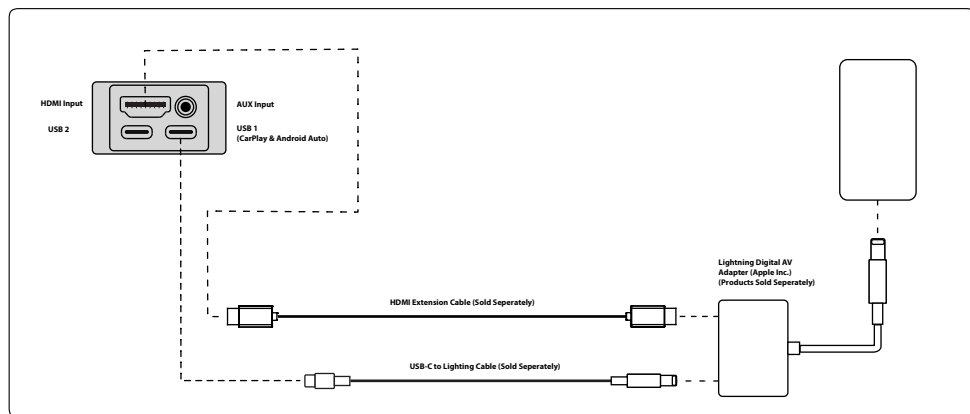
- Do not leave device in a vehicle for a long time. Heat and humidity may damage the device, and you may not be able to play it again.

Connection of a USB Flash Drive

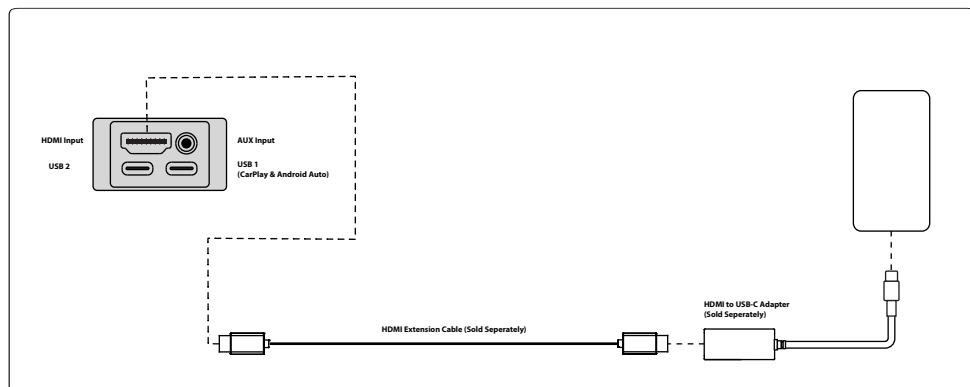


- Do not leave a flash drive in a vehicle for a long time. Heat and humidity may damage the flash drive.

Connection of an HDMI Device (iPhone with a Lightning connector)



Connection of an HDMI Device (Android device)



- A connection kit or adapter kit suitable for the type of terminal on the connecting device is required.

Connection of an Auxiliary Device

