////////ALPINE®

9-INCH ADVANCED NAVI STATION
19AVN/DA (X409)

8-INCH ADVANCED NAVI STATION
X308U

7-INCH ADVANCED NAVI STATION
INE-W987HD

- OWNER'S MANUAL
  Please read before using this equipment.
- MODE D'EMPLOI
  Veuillez lire avant d'utiliser cet appareil.
- MANUAL DE OPERACIÓN
  Léalo antes de utilizar este equipo.

Made for
iPhone | iPod

Works with
Apple CarPlay

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

flac

Bluetooth

androidauto

HD Radio
This HD Radio receiver enables
PSD) HD2/HD3) Digital Sound) Artist Experience)

((SiriusXM))
READY

pandora

here

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IMPORTANT INFORMATION

PLEASE READ CAREFULLY BEFORE USING THIS PRODUCT

This product is intended to provide turn by turn instructions to get you to a desired destination. Please make certain that all persons using this navigation system carefully read these precautions and the following instructions fully.

- This product is not a substitute for your personal judgment. Any route suggestions made by this navigation system may never supersede any local traffic regulations or your personal judgment and/or knowledge of safe driving practices. Do not follow route suggestions if the navigation system instructs you to perform an unsafe or illegal maneuver, 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, pull over in a safe and legal manner and location.
- Do not input destinations, change settings, or access any functions requiring a prolonged view of the monitor and/or remote control while you are driving. Pull over in a safe and legal manner and location before attempting to access the system.
- Do not use the navigation system to route you to emergency services. Not all locations of emergency services such as police and fire stations, hospitals and clinics are contained in the database. Please use your own judgment and ask for directions in these situations.
- The map database used in the navigation system is the most recent map data available at the time of production. Because of changes in streets and neighborhoods, there may be situations where the navigation system is not able to route you to your desired destination. In these cases, use your own judgment.
- The map database is designed to provide you with route suggestions and does not take into account the relative safety of a suggested route or of factors which may affect the time required to reach your destination. The system does not reflect road closures or construction, road characteristics (i.e. type of road surface, slope or grade, weight or height restrictions, etc.), traffic congestion, weather conditions, or any other factors which may affect the safety or timing of your driving experience. Use your own personal judgment if the navigation system is unable to provide you with an alternate route.
- There may be situations where the navigation system displays the vehicle's location erroneously. Use your own driving judgment in this situation, taking into account current driving conditions. Please be aware that in this situation the navigation system 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, pull over in a safe and legal manner and location before attempting operation.
- Make certain that the volume level of the navigation system is set to a level which still allows you to hear outside traffic and emergency vehicles.

If there is anything in the manual about the operation of the navigation system which you are uncertain about, please contact your local Alpine authorized navigation dealer or Alpine at 1-888-NAV-HELP (1-888-628-4357) before using the navigation system.

FCC COMPLIANCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide more reasonable protection against harmful interference in a residential installation, and are more stringent than "outdoor" requirements.

Operation is subjected to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an experienced radio/TV technician.

WARNING

Points to Observe for Safe Usage

- *Read this manual carefully before using this disc and the system components. They contain instructions on how to use this product in a safe and effective manner. Alpine 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 connections and 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.*
- *This product may be used in conjunction with the Alpine KAC-001 External Accessory Control module, which works with various accessory products manufactured by third parties. Please review and follow all manufacturer's instructions and warnings for all accessory products.*

⚠ 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.

INSTALL THE PRODUCT CORRECTLY SO THAT THE DRIVER CANNOT WATCH TV/VIDEO UNLESS THE VEHICLE IS STOPPED AND THE EMERGENCY BRAKE IS APPLIED.

It is dangerous for the driver to watch TV/Video while driving a vehicle. Installing this product incorrectly enables the driver to watch TV/Video while driving. This may cause a distraction, preventing the driver from looking ahead, thus causing an accident. The driver or other people could be severely injured.

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.

DO NOT FOLLOW ROUTE SUGGESTIONS IF THE NAVIGATION SYSTEM INSTRUCTS YOU TO PERFORM AN UNSAFE OR ILLEGAL MANEUVER, OR PLACES YOU IN AN UNSAFE SITUATION OR AREA.

This product is not a substitute for your personal judgement. Any route suggestions by this system should never supersede any local traffic regulations or your personal judgement or knowledge of safe driving practice.

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.

MINIMIZE DISPLAY VIEWING WHILE DRIVING.

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

DO NOT DISASSEMBLE OR ALTER.

Doing so may result in an accident, fire or electric shock.

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.

(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

KEEP SMALL OBJECTS SUCH AS SCREWS OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.

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

DO NOT BLOCK VENTS OR RADIATOR PANELS.

Doing so may cause heat to build up inside and may result in fire.

USE THIS PRODUCT FOR MOBILE 12V APPLICATIONS.

Use for other than its designed application may result in fire, electric shock or other injury.

MAKE THE CORRECT CONNECTIONS.

Failure to make the proper connections may result in fire or product damage.

BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL.

Failure to do so may result in electric shock or injury due to electrical shorts.

DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS.

Arrange wiring and cables in compliance with the manual to prevent obstructions when driving. Cables or wiring that obstruct or hang up on places such as the steering wheel, gear lever, brake pedals, etc. can be extremely hazardous.

DO NOT SPLICE INTO ELECTRICAL CABLES.

Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.

DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES.

When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.

DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS.

Bolts or nuts used for the brake or steering systems (or any other safety-related system), or tanks should NEVER be used for installations or ground connections. Using such parts could disable control of the vehicle and cause fire etc.

DO NOT INSTALL IN LOCATIONS WHICH MIGHT HINDER VEHICLE OPERATION, SUCH AS THE STEERING WHEEL OR GEARSHIFT.

Doing so may obstruct forward vision or hamper movement etc. and results in serious accident.

⚠ CAUTION

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

HALT USE IMMEDIATELY IF A PROBLEM APPEARS.

Failure to do so may cause personal injury or damage to the product. Return it to your authorized Alpine dealer or the nearest Alpine Service Center for repairing.

HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS.

The wiring and installation of this unit requires special technical skill and experience. To ensure safety, always contact the dealer where you purchased this product to have the work done.

USE SPECIFIED ACCESSORY PARTS AND INSTALL THEM SECURELY.

Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install the unit in place. This may cause parts to become loose resulting in hazards or product failure.

ARRANGE THE WIRING SO IT IS NOT CRIMPED OR PINCHED BY A SHARP METAL EDGE.

Route the cables and wiring away from moving parts (like the seat rails) or sharp or pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wire's insulation from being cut by the metal edge of the hole.

DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST.

Avoid installing the unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure.

FOR MANUAL TRANSMISSION VEHICLES:

For best performance of your rear camera please ensure the vehicle gear shift is not in Reverse prior to starting your vehicle engine.

⚠ 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 Alpine dealer or the nearest Alpine Service Station for servicing.

Protecting the USB connector

- Only an iPod/iPhone 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 supplied connector cable with 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 format that can be played back on the unit is MP3/WMA/AAC/FLAC.
- Artist/song name, etc., can be displayed. Certain, special characters may not be correctly displayed.

⚠ CAUTION

Alpine accepts no responsibility 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 and FLAC.
- USB Flash drive function is not guaranteed. Use 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.
- Fix 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" or "m4a" 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.

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- Apple, iPhone, iPod, iPod nano, iPod touch, 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.
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Features

The screen design used in the Owner's Manual may differ from the actual screen.

Favorite Function

Frequently used functions can be easily recalled. For details, see "Favorite Function" (page 24).

■ **Favorite screen example**

- *Frequently used functions and useful functions can be customized for your convenience.*
- *You can register up to 54 functions.*
- *You cannot register a function more than once.*

About Swiping the Touch Screen

You can change the source icon display by swiping the touch screen horizontally with your finger. For details, see "Touch Screen Operation" (page 17).

Swipe the display with your finger lightly.

Switching the Audio Sources Screen to a Dedicated Screen

You can switch the Audio Sources screen to a dedicated screen by touching the icon on one of the three edges of the screen.

Shortcut Setup Screen (page 19)

You can set the Sound Setup or Rear Seat Entertainment System.

Dual Screen (page 14)

You can switch between the displayed screens on the Dual Screen.

<Audio Sources Screen>
(USB Audio)

Preset button or Quick Search mode Screen *

*   The Search mode differs depending on the audio source. For details, see the operating instructions of the audio source.

About Dual Screen

Dual Screen allows you to display the Navigation and Audio/Visual screens simultaneously.

Audio full Screen

Touch [♫] → **Touch [▲]**

Dual Screen

Touch [♫] → **Touch [▲]**

Navigation full Screen

* Touch [🔍] to switch to the Navigation menu screen. For details of navigation operations, refer to "Navigation System OM" in the website at http://www.alpine-usa.com.

Dual Screen Display Position

You can switch the left/right positions of the Audio/Visual screen and Navigation screen.
Each time you touch [🔲], the positions of Audio/Visual screen and Navigation screen switch.
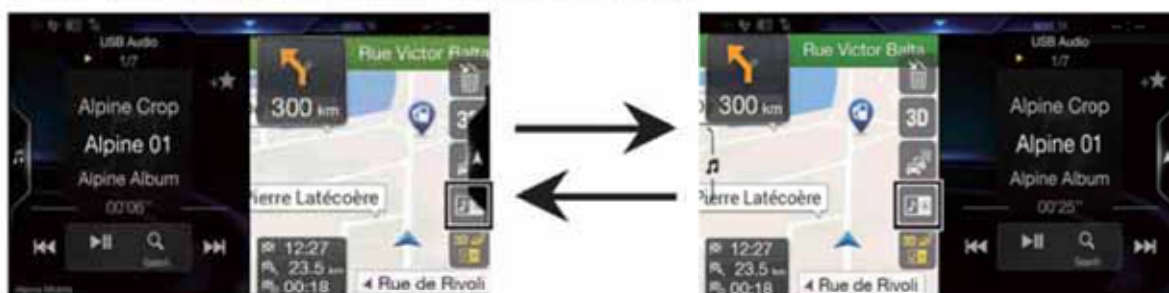
• When [🔲] is not displayed, touch [▦].

Getting Started

Location of Controls

For X308U/INE-W987HD
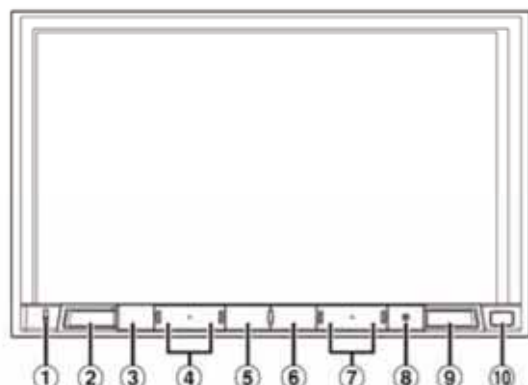
For X409

① **Microphone (X308U/INE-W987HD only)**
Used for Hands-free or Voice Control modes.

② ♪ **(AUDIO) button**
Displays the Audio/Visual screen. If the Audio/Visual screen is already displayed, changes the source.

③ 🎤 **or VOICE button**
Depending on the connected smartphone, press to recall Siri function or voice recognition mode.

④ **+ / − or ∧ / ∨ (UP/DOWN) button**
Press to adjust the volume.

⑤ ★ **(Favorite) button**
Recalls the Favorite screen.
- Press and hold this button for at least 2 seconds to switch to the iDataLink mode screen. (When connected to the optional iDataLink module.)

⑥ **MENU/ (Power Off) button**
Recalls the Menu screen.
Press and hold this button for at least 5 seconds to turn the power off.

⑦ **|◄◄ / ►►| button**
Press to seek down/up a station in radio mode or down/up a track, chapter, etc., in other audio/visual sources.

⑧ **RESET switch**
The system of this unit is reset.

⑨ Ⓐ **(NAV) button**
Recalls the navigation map screen.
Press again to switch to Navigation menu screen.
Press and hold this button for at least 2 seconds to change to Go Home route screen. (If Home is not set yet, it will change to the Home setting screen.)
When the Apple CarPlay or Android Auto is used, the operation may differ. Press Ⓐ (NAV) to change the map screen between smartphone and this unit.
For details of navigation operations, refer to "Navigation System OM" in the website at http://www.alpine-usa.com.

⑩ **Remote Sensor**
Point the remote control transmitter towards the remote sensor within a range of 2 meters.

⑪ 📷 **(CAMERA) button (X409 only)**
Recalls the camera image screen.

Controllable with Remote Control

This unit can be controlled with an optional Alpine remote control. For details, consult your Alpine dealer. Point the optional remote control transmitter at the remote control sensor.

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. MENU). The buttons found on the touch-screen display are shown in bold within brackets, [ ] (e.g. [✕]).

Turning Power On or Off

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.

1 Turn the ignition key to the ACC or ON position.
The system turns on.
- *When turned on, the system 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 Press and hold the MENU/ (Power Off) button for at least 5 seconds to turn the power off.

- *The unit can be turned on by pressing any button.*
- *The unit is a precision device. Careful handling of the unit should provide you with years of trouble-free operation.*

Turning the System On

When the system is used for the first time, the language selection menu is displayed. Swipe the Language list screen vertically, then touch your choice from the list of 23 languages.

- *For your driving safety, please read the warning prompt displayed on this unit carefully.*
- *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.*

Initial System Start-Up

Be sure to press the **RESET** switch when using the unit for the first time, after changing the car battery, etc.

1 Turn off the unit power.

2 Press the RESET switch with a ballpoint pen or similar pointed object.

For X308U/INE-W987HD

RESET switch

For X409

RESET switch
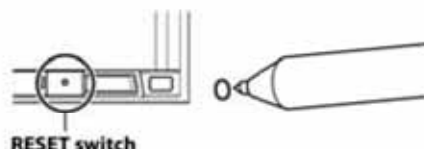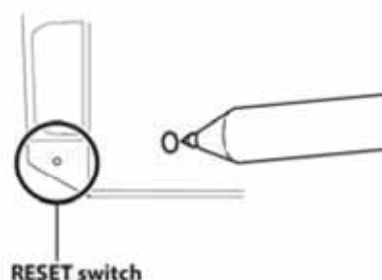
Adjusting the Volume

Adjust the volume by pressing ∨/∧ or −/+.
Volume decreases/increases continuously by pressing and holding ∨/∧ or −/+.
Volume: 0 - 35

Lowering Volume Quickly

Audio Mute function instantly lowers the volume level to 0.

1 Press ∨/∧ or −/+ to display the Volume adjustment screen.

2 Touch the speaker icon to activate the MUTE mode and the speaker icon change to 🔇.
The audio level will be 0 and the MUTE indicator displays.

3 Press ∨/∧ or −/+ to cancel the MUTE mode.

Touch Screen Operation

You can operate the system by using the touch panel on the screen.

- *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, remove your finger.*
- *Onscreen buttons that cannot be operated are dimmed.*

Swipe operation

Move your finger lightly with a swipe.

Drag & Drop operation

Touch and hold the desired item, then drag it to its new location by moving your finger, then release your finger to place the item.

- *It is not possible to narrow the screen with two fingers (pinch in) or spread the screen (pinch out). (Except Navigation map screen)*

Switching Sources

Press the ♪ (AUDIO) button to change the source.

Switching sources using the ♪ (AUDIO) button

During audio/visual playback, press the ♪ (AUDIO) button repeatedly to switch to the desired source.

Radio → USB/iPod[1] → Factory Media (USB/iPod)[2] → HDMI/DVD[1,3] → Pandora[1] → Bluetooth Pandora[1,4] → SiriusXM[1] or Factory SiriusXM[2] → AUX[3,5] → Bluetooth Audio[1] → Apple CarPlay Music/Google Play Music[6] → Radio

- *[1] When no USB flash drive/iPod/HDMI device/Smartphone/Bluetooth compatible device/SiriusXM Tuner is connected, this option is not available. When using Apple CarPlay, some option may not available.*
- *[2] Not displayed when your car does not support the source or "Setting the Source Category" (page 47) is set to "Aftermarket." This is also not displayed when the iDataLink module is not connected.*
- *[3] The name set for "HDMI Setup" (page 44), "Setting the Auxiliary (AUX) Name" (page 43), is displayed.*
- *[4] When Bluetooth Pandora is set to "Off", this option is not available. (page 44)*
- *[5] When AUX is set to "Off," this option is not available. (page 43) When the iDataLink module (sold separately) is connected, the Auxiliary (AUX) mode is not available.*
- *[6] Available when Apple CarPlay is used/Android™ smartphone which installed Android Auto App is connected.*

Switching Sources from the Menu screen

1 **Press the MENU button.**
The menu screen is displayed.

The Audio source selecting area

2 **Touch your desired source in the Audio source selecting area.**

- *In the menu screen, you can change the Audio source directly or change the order in which sources change. For details, see "About the Menu Screen" (page 21).*

Operating the Function Button on the Audio/ Video Main Screen

Using the Function button on the Audio/Visual main screen.

Swipe to the right or left to change to the Function mode.

■ **HD Radio main screen example**

About Basic Operation for List Screen

Basic operations on the Setup list screen and the Search list screen. How to display on the list screen differs depending on the selected item.

① Switches to the menu screen or the previous screen.
② Item select button
③ Closes the window.
④ Displays the next list page.
   - *When the next selection item does not exist, the list item is not displayed.*
⑤ Lists items for selection
   - *When there are more than five list items, the page can be changed by swiping vertically.*
⑥ Changes the page of the Item select button ② above.
   - *" • " indicates the total number of pages, " • " indicates the location of the current page.*
⑦ List screen close button
   - *Touch or swipe to the left on the search screen, etc. to close the list screen.*

About the Shortcut Setup Screen

Displaying the Sound Setup screen, or the Shortcut Setup screen of the Rear Seat Entertainment System screen.

Touch the top part of the Audio source screen.

The Sound Setup screen or the Rear Seat Entertainment System Setup Screen is displayed.

■ Sound Setup screen (Tone Adjustment mode) example

① Close the window
② You can adjust the Navi voice interrupt volume (Navi Guide) and the Background Audio volume during Navi Guide.
Navi Volume : 1 -35
Background Audio : 0 -35
③ Button for Display Off *
④ Displays the registered Bluetooth Device List screen.
   • See "Pairing a Bluetooth Device" (page 29).
⑤ Touch this to change to the currently playing source screen.
⑥ Displays the Hands-free Device Primary/Secondary setting screen.
   • See "Hands-free Device Primary/Secondary Setting" (page 30).

* Display Off mode
   - To cancel Display Off mode, touch the screen or press any button (except +/− or ∧/∨ button).
   - Display Off mode is canceled when the power or ACC is turned off.
   - When the gear lever is shifted to the reverse (R) position and the rear camera is connected, the rear camera image is displayed.
   - When a call is received on a Bluetooth-connected phone, the incoming call screen is displayed.

Sound Setup Function

■ Tone Adjustment mode

■ BASS ENGINE SQ mode

① Button for changing the BASS ENGINE SQ mode screen
② Balance/Fader Image area*1
   • To reset to the initial settings (Balance: 0, Fader: 0), touch [⊡].
③ Rear Seat Entertainment Function screen switch button
   • When Setting the Rear Seat Entertainment is "Off," you cannot change the screen. For details on Rear Seat Entertainment setting, see "Rear Seat Entertainment Setup" (page 48).
④ Buttons for switching between Front/Rear when adjusting Bass/Treble*2
⑤ Buttons for adjusting Bass Level/Treble Level*3, 4
⑥ Buttons for adjusting Media Xpander *1, 3, 5
⑦ Buttons for adjusting Subwoofer On/Off and Subwoofer Level *1, 3
⑧ Button for changing the Tone Adjustment mode screen
   • If changing to the Tone Adjustment mode, BASS ENGINE SQ mode will be disabled.
⑨ Buttons for adjusting the BASS ENGINE Level*4
⑩ Buttons for selecting the BASS ENGINE type *4

*1 You can perform a more detailed set up in "Sound Setup" (page 31).
*2 You cannot switch when Front/Rear Sync in "Adjusting the Parametric Equalizer Curve (Dual HD EQ)" (page 33) is "On."
*3 When you switch to the BASS ENGINE SQ mode, the value you have set is ignored.
*4 When the Defeat setting is "On," you cannot perform the set up.
*5 Not available during an interruption such as traffic announcement is broadcasting.

Adjusting Bass Level/Treble Level

Bass Level and Treble Level can be set independently set for Front and Rear speakers by touching [Front] or [Rear].

Setting item:
Bass / Treble
Setting contents:
-14 to +14 (Initial setting: 0)

- *When "BASS ENGINE SQ" is selected in the Shortcut Setup, this setting is disabled.*
- *Adjustment cannot be performed when Defeat is set to "On."*
- *The Bass adjusted setting value is interlinked with Band2 of Dual HD EQ, and the Treble adjusted setting value is interlinked with Band8.*

Setting the BASS ENGINE SQ

Setting the BASS ENGINE Type

Creating the ideal Bass impact for your musical taste using BASS ENGINE SQ.

Setting contents:
Standard (Initial setting) / Punch / Rich / Mid Bass / Low Bass

Standard:	Mild low-end boost with mid-range focus for front-center staging.
Punch:	Mid-bass punched up with mid-range impact.
Rich:	Accented highs and mid-bass giving outstanding balance for all types of music.
Mid Bass:	Strong high frequency emphasis with mid-bass boost for more low-end attack.
Low Bass:	Strong, low-bass boost with extended highs for a very dynamic sound.

Adjusting the BASS ENGINE Level

You can adjust the BASS ENGINE Level.

Setting item:
BASS ENGINE Level
Setting contents:
0 to 6 (Initial setting: 3)

- *The BASS ENGINE Level of the BASS ENGINE SQ is common to all the types.*

■ About setup when the external power amplifier is connected

In order to optimize the BASS ENGINE SQ mode, we recommend the following procedure to set up the power amplifier.
Use your favorite music to make the following amplifier adjustment.
1) Set GAIN of the power amplifier to "MIN."
2) Set the Crossover Mode Selector switch to "OFF."
   - *If the switch has no "OFF" position, set as near as possible to full range.*
3) Set the BASS ENGINE Level to "03."
4) Play a song of the genre you frequently listen to, and adjust GAIN of the power amplifier.

Rear Seat Entertainment Function

The Rear Seat Entertainment function independently routes different sources to the front and the rear side of the car. For example, while listening to the radio or other audio sources in the front, HDMI can be enjoyed at the rear with optional rear monitors and headphones.

Rear Seat Entertainment System Setup screen
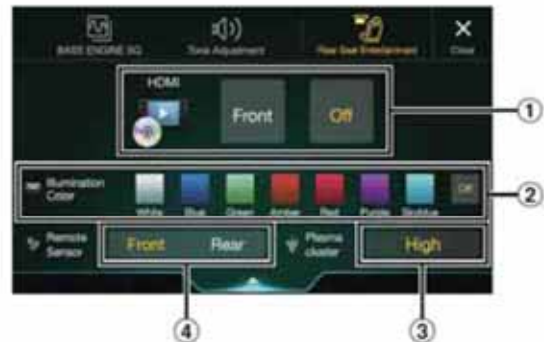
① Visual source selection area that is displayed on the Rear monitor.[1]
Touch the source icon displayed on the Rear monitor.
Front: The image and sound of the same visual source as the unit are output.
Off: Stops output to the Rear monitor.

② Illumination Color button
The color coordination select button of the Rear monitor: White/Blue/Green/Amber/Red/Purple/Skyblue/Off
(This function is depended on Over Head Monitor)

③ Plasmacluster air volume adjustment button[2]
Whenever you touch the button, you can change the air volume.
Off → Low → Mid → High → Off
- *While the plasmacluster is operating, the indicator is displayed on the Audio source screen.*

④ Remote Sensor
You can set whether the sensor on Rear monitor receives remote control operation, or the unit receives it.

[1] *The visual source that can be output to the Rear monitor is "HDMI/DVD." When the unit plays back the visual source, you can only select the same visual source as the unit.*

[2] *When the Plasmacluster in "Setting the Rear Seat Entertainment System" (page 48) is set to "Off," the Plasmacluster air volume adjustment button is not displayed.*

- *If the same visual source is being output to both the unit and the Rear monitor when an incoming/outgoing call is made, the visual/audio output to the Rear monitor is interrupted temporarily depending on the source.*
  If different visual sources are being output to the unit and the Rear monitor, visual/audio output to the Rear monitor continues without interrupting playback.

About the Menu Screen

In the menu screen, you can select the audio source and perform various setups or operations on the unit.

Press the MENU button.
The menu screen is displayed.

■ Menu screen example

① Displays the currently playing audio source.
② Displays the total number of the audio sources that can be selected. Also displays the current position, counting from the leftmost audio source.
③ Touch to return to previous source screen.
④ Audio source select area
   Touch your desired source icon to change the audio source.
   • *Swiping to the right or left in the Audio source select area, you can change the audio source.*
   • *The source icon displayed in the Audio source select area is the one checked on the Edit menu screen. For details on how to display/hide the source icon, see "Edit Menu" (page 21).*
⑤ Displays Preset No, and information of the Search mode, etc., located in the middle of the Audio source select area.
   • *Touch the desired preset number or the Search mode to change the audio source directly.*
   • *The displayed information differs depending on the audio source. Some sources are not displayed.*
⑥ Touch to display more icons. (Displayed only when icons' number over 5.)
⑦ Setup button
   Displays the Setup screen. (page 28)
⑧ External Accessory Control button
   Is displayed when the optional External Accessory Control module is connected and "Setting the External Accessory Control" is set to "On" (page 48).
   • *You can operate the external accessories from this unit. For details, see "External Accessory Control Operation" (page 96).*
⑨ Camera button*¹
   Displays camera images. (page 87)
⑩ Phone button*²
   Displays the Phone menu screen. (page 77)
⑪ Off-Road button*³
   Activate/Deactivate Off-Road Mode.
   • *Depending on the setting and connected devices, the displayed icons and orders may differ. Touch ⑥ to display more icons such as [Android Auto]*⁴, [Apple CarPlay]*⁵ and [Vehicle Info]*⁶.*

*1 *Displays when the Camera Select is set to "Front," "Rear," or "Other." (page 45)*
*2 *Displays when the Bluetooth setting is set to "On." (page 29)*
*3 *X409 only*
*4 *Displays the Android Auto screen, displayed when an Android Smartphone installed Android Auto App is connected. (page 50)*

*5 *Displays the Apple CarPlay screen, displayed when an iPhone 5 or later is connected. (page 50)*
*6 *Displays the iDataLink mode screen. (page 94)*

Edit Menu

You cannot operate the Edit Menu screen while driving.
Your vehicle must be parked with the ignition key in the ACC or ON position. For details, see "To display the Setup Menu screen" in "Setup Operation" (page 28).

In the Edit Menu screen, you can change the audio source order or set the display/hide settings.

1 Touch the desired source icon in the Menu screen for at least 2 seconds.
A checkbox (☐ or ☑) is displayed on the upper left area of the source icon and switches to the edit mode.

   • *The source icon displayed in the Edit Menu screen is displayed only when usable setup and conditions of each Audio source are fulfilled. For details on setup and conditions of each audio source, see "Switching Sources" (page 17).*

■ Changing the order of Audio source

Drag and drop the source icon to the desired location.

■ Hiding/Displaying Audio source

Place a check in the checkbox (☑) to display the Audio source icon. Uncheck the checkbox (☐) to hide it.
   • *You cannot hide the icon of a source that is currently playing.*

2 Touch [Done].
The editing content is confirmed, and returns to the menu screen.

• *Editing here is reflected in the order of ♪ (AUDIO) button touching and change of the Audio source. (page 17)*

About the Shortcut Key

There are two shortcut keys on Audio source screen (Radio, USB Audio, etc.). You can quickly switch to Sound Setup screen or Phone Menu screen by touching the shortcut key.

① Sound setup shortcut button
Touch to display Bal./Fad. Screen of Sound setup. Refer to "Setting the Balance/Fader/Rear Speaker/Subwoofer" (page 32).

② Phone shortcut button
Touch to display Phone Menu screen. Refer to "Hands-free Phone Control" (page 77).

About the Indicator Display

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

① Lights up when connected to a Bluetooth compatible device. (Does not display when connection is set to OFF.)
  : Bluetooth connection to audio device

  : Bluetooth connection to Hands Free Phone
Blinks while reconnecting.

② Indicates the battery level of the connected Bluetooth device*.

Battery Level	Level 3	Level 2	Level 1	No Battery
Icon				

This may not be displayed depending on the connected Bluetooth device. Whenever one battery level decreases, the alarm sounds.

③ Indicates the signal strength level of the connected Bluetooth compatible device*.
Displayed when Bluetooth setting is ON.

0	1	2	3	No Service
				No Service

④ Plasmacluster indicator
Indicates the setting value (Low/Mid/High) selected in "Plasmacluster air volume adjustment."

⑤ The clock display
You can switch between the 12 hour display and 24 hour display options.
For details of the clock display settings, refer to "Navigation System OM" in the website at http://www.alpine-usa.com.

⑥ Bluetooth devices Name*

* When you connect two Hands-Free Phones, the information of the Bluetooth device set to Primary is displayed.

Opening screen Customization

You can set a BMP image that is stored on a USB flash drive as the opening screen.
This setting requires the following image format, folder name and file name.

Usable file format:
- BMP image
- Image size: 800 × 480 pixels (RGB 24 bit or less/number of color bit: 24, 8, 1 bit)
- Compression format: non-compressed
- Folder name[*1]: **OPENINGFILE**
- File name[*2]: **openingfile.bmp**

1 Connect the USB flash drive to the USB extension cable.
A message confirming the opening screen change is displayed.

2 Touch [OK].
An update indicator " (Loading)" is displayed, and update for the opening screen starts.

3 After the update is complete, the following message is displayed.[*3]
"The logo has been updated successfully! Please remove Flash Memory and press OK."

4 After removing the USB flash drive, touch [OK].
The opening screen setting is complete.

*1 Be sure to save the folder to the first layer of the USB flash drive.
*2 Only one BMP image can be set as the opening screen.
*3 If "Customization failed," is displayed, touch [OK] and then check that the folder name, file name and file format are correct.

- Do not perform the following actions during the update.
  - Do not turn off the ACC to the car.
  - Do not unplug the USB flash drive.
  - Do not turn off or operate the unit.
- To return the opening screen to its original image, you must Clear All Settings. Be careful of this operation, as your other settings are also initialized. For details, see "Initializing the System" (page 40).

How to Input Characters and Numbers (Keypad)

The displayed screens and procedures may vary slightly depending on the function used, but the basic input method is the same.
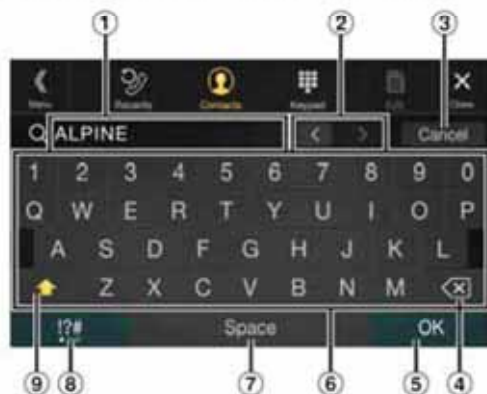
① Input screen area.
② Cursor position alteration switch
③ Cancel
   Keypad mode finishes.
④ ⌫ (Delete)
   Returns to the previous character and erases it.
   Touching here for more than 2 seconds will erase all input characters.
⑤ Input number is confirmed.
⑥ Character keypad
⑦ Space
⑧ Special character selector switch
   Switches the Alphanumeric/Special characters/Symbols character type.
⑨ Uppercase letter switching key

Favorite Function

Using the Favorite Function

This unit enables you to recall functions easily by registering frequently used items such as the Audio source, the navigation search function, etc. to the Favorite screen. You can recall any of these items easily.

1 Press the ★ (Favorite) button.
The Favorite screen is displayed.

■ **Favorite screen example**

① Changes to the Edit screen used for registering items or changing names.
② Close the Favorite screen
③ Favorite registration item
Swipe to left or right to change the pages. You can add up to 6 pages.
④ Indicates the location of the currently displayed Favorite screen.

2 Touch your desired Favorite registered item.
The desired item is displayed.

• *When making a phone call by choosing shortcut dialing, after the message of confirmation of outgoing phone calls is displayed, touch [Call]. For details, see "Calling by Favorite Function" (page 79).*

Editing the Favorite Screen

You cannot edit the Favorites screen while driving.
Your vehicle must be parked with the ignition key in the ACC or ON position. For details, see "To display the Setup Menu screen" in "Setup Operation" (page 28).

1 Touch [📄] (Edit).
A checkbox is displayed on the upper left area of the registration icon and it changes to Edit mode.

Setting item:
Item registration / Item name change / Icon change / Layout change / Item deletion

2 After editing is complete, touch [📄] (Save).

3 After the caption for the confirmation is displayed, touch [Yes].

4 Editing is complete.

• *If you touch [↩] (Cancel) while editing, a confirmation prompt will appear. Touch [Yes], the edits are reset and the screen returns to the previous Edit screen.*

Registering Items

1 **Touch [ ] (Add).**

The items to be added (categories) are displayed.

2 **Touch the desired item to be added (category).**

3 **Choose the desired item to be added.**

- You can add up to 54 items.
- You cannot register an item more than once.

■ Audio/Visual

[Radio]*1 / [USB/iPod] / [Factory Media (USB/iPod)]*2 / [HDMI/DVD] / [Pandora] / [Bluetooth Pandora] / [SiriusXM]*3 or [Factory SiriusXM]*2, 3 / [AUX]*4 / [Bluetooth Audio] / [Apple CarPlay]*5 / [Android Auto]*5

*1 Choose a frequency from Preset 1 - 12 in any of the tuner preset bands.

*2 Not displayed when your car does not support the source or "Setting the Source Category" (page 47) is set to "Aftermarket." This is also not displayed when the iDataLink module is not connected.

*3 You can choose a channel registered to Presets 1 - 18.

*4 When "AUX" is selected, the source name set in "Setting the Auxiliary (AUX) Name" (page 43) is also displayed in the Favorite screen. When the iDataLink module (sold separately) is connected, the Auxiliary (AUX) mode is not available.

*5 You can register now playing Apple CarPlay Music or Google Play Music depending on the connected Smartphone.

- When using Apple CarPlay, some option may not available.
- You can also register directly by touching [+★] in the Audio source screen.

However, if it is already registered, [+★] is not displayed.

■ Navigation

[Specific Place]:
    You can display places registered in Favorite and set your destination.
[Quick Place Search]:
    Displays the address search keypad.
[Help Nearby]:
    Displays the nearby search screen.
[Place Categories]:
    Displays the selected Place Categories list.

- For details of navigation operations, refer to "Navigation System OM" in the website at http://www.alpine-usa.com.

■ Phone (Shortcut Dialing)*6

You can register the user's shortcut dialing stored in the Phone Book.

- If multiple phone numbers are stored, select a number you want to register.
- You can register directly by touching [+★] of the Contacts list. (page 77)
- You can change the icon you registered. (page 25)

*6 You can only select Phone when a mobile phone is connected. For details on how to register a mobile phone and downloading Phone Book, see "Bluetooth Operation" (page 77).

Changing Item Names

1 **Touch the text area of the registered item.**

The Input User Name screen (Keypad) is displayed.

2 **Input the name and touch [OK].**

- For details on how to input characters using the keypad, see "How to Input Characters and Numbers (Keypad)" (page 23).

Changing Icons (only the Shortcut Dialing and Navigation icons)

You can change the icons of Shortcut Dialing and Navigation category. The following example explains how to change the Shortcut Dialing icon. Perform the same procedure to change the Navigation category icon.

1 **Touch the icon that you want to change.**

The icon list is displayed.

2 Touch the icon you want to change from the icon list.

The icon is changed to the selected icon.

Changing the Layout

Drag and drop the item to the desired location.

The item location is changed.

- *When you move to other pages, switch pages, or when you make a new page and move to another, drag to the end of the screen, and lift your finger after the page changes.*

Deleting Items

When deleting a selected item

1 Touch the checkbox at the left of the item you want to delete and place a check (☑) in it.

2 Touch [🗑] (Delete).
The selected item will be deleted.

When deleting all items

Touch [🗑] (Delete All).

All items are deleted.

Applying Alpine TuneIt App

This unit's sound tuning is programmable from a connected Smartphone. It is also possible to download specific parameters for certain vehicles from Alpine's TuneIt database stored in the Cloud. Using the Alpine TuneIt App, customized parameters can also be uploaded for others to share and rate.

Through this unit, it is also possible to receive and respond to information from Alpine's Social Network Service (SNS) available through the connected Smartphone.

The installed Alpine TuneIt App should be launched on the Smartphone before connection to the head unit.

Alpine TuneIt App, is downloadable from Apple's App Store; the Android user can download it from Google Play™. For details, consult your Alpine dealer.

Before these operations, set TuneIt to USB (iPhone) or Bluetooth (Android) depending on the connected Smartphone. For details, see "Smartphone Apps Setup" (page 49).

- *The application program and related specifications and data may be deleted or terminated without notice.*
- *Some Alpine TuneIt App functions may not be available if the Smartphone is not in a service area or receives no signal.*

Adjusting the sound via the Smartphone

After setting the above procedure, you can adjust the unit's sound function on the Smartphone.

1 Make sure the unit is powered on.

2 Launch the Alpine TuneIt App on the Smartphone.
   Adjust the unit's sound accordingly on the Smartphone.

- *The setting cannot be done on both the Smartphone and this unit at the same time. While the sound function of this unit is set via Smartphone, the sound function settings on the unit will be displayed as "Sound APP Connected."*
- *In some situations, such as the unit is powered off or during a call, etc., sound setting cannot be done via the Smartphone.*
- *This function may not be available depending on the paired Smartphone.*
- *Please obey all local traffic laws while using this function.*
- *When "Setting the External Audio Processor" (page 48) "On," this function is not available.*

Off-Road Mode (X409 only)

X409 Off-Road Mode adds Off-Road Navi and Off-Road Camera (page 90). The key features include: vehicle inclinometer, Tracking Distance/Time, and Super Wide-angle Camera which improve visibility to enhance Off-Road driving. Off-Road Mode must be turn on from the radio [Menu] button screen.

Turning on Off-Road Mode

1 Press the MENU button.
   The Menu screen is displayed.

[Off-Road] button

2 Touch [Off-Road].
   Off-Road Mode is turned on and the Off-Road button turns green.
   Touch [Off-Road] again to turn Off-Road Mode off. The button color will turn gray.

- *The background image and menu theme will change when Off-Road Mode is turned on, see "Setting the Display Color (Off-Road on/off) (X409 only)" (page 39).*
- *When Off-Road Mode is turned on additional vehicle information (Pitch/Roll, Tire Pressure, Battery Voltage, Latitude/Longitude, and Heading) will be displayed on the Camera screen and Off-Road Navigation screen.*

Setup

Setup Operation

To display the Setup Menu screen:
Your vehicle must be parked with the ignition key in the ACC or ON position. To do this, follow the procedures below.

1. Bring your vehicle to a complete stop at a safe location. Engage the parking brake.
2. Release the parking brake. (For safety, release the parking brake while depressing the foot brake pedal).
3. Engage the parking brake again.

- *For automatic transmission vehicles, place the transmission lever in the Park position.*

Now, the locking system for the Setup operation has been released. Engaging the parking brake can reactivate the Setup Menu, as long as the car's ignition has not been turned off. It is not necessary to repeat the above procedure (1 through 3) of "To display the Setup Menu screen."

Each time the ignition is turned OFF, perform the procedure of "To display the Setup Menu screen."

1 Press the MENU button.
The Menu screen is displayed.

[Setup] button

- *Touch [✕] will return to previous source screen.*

2 Touch [Setup].
The Setup main screen is displayed.

3 Touch the required setting icon on the upper part of the Setup main screen or swipe the list area vertically, then touch the setting item.

Setting items:
Wireless: See "Wireless (Bluetooth) Setup" (page 28).
General: See "General Setup" (page 31).
Source: See "Source Setup" (page 41).
System: See "System Setup" (page 44).

Wireless (Bluetooth) Setup

[**Wireless**] is selected on the Setup main screen in step 3. See "Setup Operation" (page 28).

■ Wireless Setup Menu screen

<Setting items>

Bluetooth	
	Bluetooth Information*[1]/[2]
	Set Bluetooth Device*[1]/[2]
	Hands-free Device Priority*[1]/[2]
	iPhone Auto Pairing*[1]/[2]
Device	
	Passcode Change
	Default Phone Book Format
	Phone Speaker
	Microphone Select (X308U/INE-W987HD olny)

*[1] *This setting is only available when "Bluetooth" is set to "On" (☑).*
*[2] *Cannot be adjusted when Apple CarPlay is used/Android smartphone which installed Android Auto App is connected.*

The following steps 1 to 3 are common to each "Setting item" of Wireless Setup. See each section for details.

1 Select the desired item.

2 To switch the setting, touch [〈], [〉], [+], [−], or mark the checkboxes "Off"(☐) or "On"(☑).

- *If "〉" appears, there is a further hierarchy. Touch the desired item.*

3 Touch [✕] to return to the main source screen.

- *To return to the previous List screen, touch [《] in the previous page. For details, see "About Basic Operation for List Screen" (page 18).*

Bluetooth Setup

[**Bluetooth**] is selected on the Wireless Setup Menu screen in step 1. See "Wireless (Bluetooth) Setup" (page 28).
You can register and set up Bluetooth compatible devices.

Setting item:
   Bluetooth
Setting contents:
   Off / On (Initial setting)

Off:	Bluetooth function is not used.
On:	Turn ON to begin phone pairing process.

- *Cannot be adjusted when Apple CarPlay is used/Android smartphone which installed Android Auto App is connected.*

Displaying Bluetooth Information

Make sure the "Bluetooth" setting is "On" (☑).
You can display the Bluetooth device name and device address of this unit.

Setting item:
   Bluetooth Information

Pairing a Bluetooth Device

Make sure the "Bluetooth" setting is "On" (☑). See "Bluetooth Setup" (page 29).
Search for Bluetooth compatible devices.

Setting item:
   Set Bluetooth Device

1 Touch [🔍] (Search) of "No Device."

The Bluetooth devices can be searched are displayed in a list.

2 Touch [🎵] (Audio), [📞] (Hands-free) or [📞/🎵] (Both) of the device you want to connect from the list.

Audio: Device is used as an Audio device.
Hands-free: Device is used as a Hands Free Device.
Both: Device is used as both an Audio device and Hands Free Device.

- *You can register up to 5 Bluetooth compatible mobile phones.*
- *You can connect three Bluetooth Devices; two exclusively for Hands-Free Phone and one exclusively for Bluetooth Audio.*
- *When you register a Hands-Free Phone for the first time, Primary is set automatically. When you connect two Hands-Free Phones, select "Hands-free" or "Both." You can then set the priority on the Primary/Secondary setting screen. For details, see "Hands-free Device Primary/Secondary Setting" (page 30).*

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

- *The Bluetooth registration process differs depending on the device version and SSP (Simple Secure Pairing). If a 4 or 6 character Passcode appears on this device, enter the Passcode using the Bluetooth compatible device.*
  If a 6 character Passkey appears on this device, make sure the same passkey is displayed on the Bluetooth compatible device and touch "Yes."
- *If all 5 devices have been registered, you cannot register a 6th device. To register another device, you need to delete one of the other 5 devices first.*

Setting the Bluetooth Device

Select one of 5 paired Bluetooth compatible devices that you previously registered.

Touch [🎵] (Audio) or [📞] (Hands free) of the device you want to connect from the Paired Device list.

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 [OK].

- *Touching [Cancel] will cancel the setting.*

Hands-free Device Primary/Secondary Setting

Make sure the "Bluetooth" setting is "On" (☑). See "Bluetooth Setup" (page 29).
When you connect two Hands-Free Phones, set the priority of the operation and the setting of incoming-outgoing calls.

Setting item:
  Hands-free Device Priority
Setting contents:
  Primary / Secondary

Touch the checkbox for Primary/Secondary of the device names that are registered to the unit to set them.

- *When connected to two hands-free phones, operating restrictions apply to the hands-free phone registered to Secondary. For details, see "Hands-free Phone Control" (page 77).*

iPhone Auto Pairing Setting

Make sure the "Bluetooth" setting is "On" (☑). See "Bluetooth Setup" (page 29).
When an iPhone is connected via USB and it is not on the Registered Device list, it will be paired automatically.

Setting item:
  iPhone Auto Pairing
Setting contents:
  On / Off (Initial setting)

On: Performs iPhone Auto Pairing setting.
Off: Does not perform iPhone Auto Pairing setting.

- *This setting supports iPhones with iOS Ver.5.5 or later.*
- *When more than 5 Bluetooth devices are registered, Auto Pairing does not start.*

Device Setup

[**Device**] is selected on the Wireless Setup Menu screen in step 1. See "Wireless (Bluetooth) Setup" (page 28).
You can make various settings for a Bluetooth compatible device.

Setting the Passcode

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

Setting item:
  Passcode Change

1 Enter a 4-digit passcode (old), and then touch [OK].
- *The initial number is 0000.*
- *For details on how to input the numeric keypad, see "Numeric Keypad Input Operations" (page 73).*

2 Enter a 4-digit passcode (new), and then touch [OK].

3 Enter the passcode that you entered in step 2 again, and then touch [OK].

Changing the Character Code of the Phone Book

You can select the character code that is used when transferring the phone book or history from a mobile phone. If unreadable characters appear in the transferred data, select the correct character code.

Setting item:
  Default Phone Book Format
Setting contents:
  Latin-1 / Latin-9 (Initial setting) / Russian / Chinese / Thai / Arabic / UTF-8 / UTF-16LE / UTF-16BE

Latin-1:	ISO 8859-1
Latin-9:	ISO 8859-15
Russian:	ISO 8859-5
Chinese:	GB18030
Thai:	CP874
Arabic:	CP1256
UTF-8	
UTF-16LE	
UTF-16BE	

Selecting the Output Speaker

You can select which speaker in the car will output the audio from the phone.

Setting item:
  Phone Speaker
Setting contents:
  All (Initial setting) / Front Left / Front Right / Front Left + Right

All:	The sound is output from all speakers in car.
Front Left:	The sound is only output from the front left speaker.
Front Right:	The sound is only output from the front right speaker.
Front Left + Right:	The sound is output from the front left and front right speakers.

- *The setting cannot be adjusted during a phone call. Adjust the setting before placing a call.*
- *This option is not available when "External Audio Processor" (page 48) is set to On.*

Setting the Microphone Select (X308U/ INE-W987HD only)

You can select the built-in microphone or the supplied microphone as a Hands-Free Microphone.

Setting item:
  Microphone Select
Setting contents:
  Built-in / Add-on (Initial setting)

| Built-in: | Use the built-in microphone. (see location on page 15) |
| Add-on: | Use the supplied microphone. |

General Setup

[General] is selected on the setup main screen in step 3. See "Setup Operation" (page 28).

■ General Setup Menu screen

\<Setting item\>

Sound	
	Balance / Fader [1]
	Rear Speaker [2]
	Subwoofer [2]
	Subwoofer Level [1, 2, 3, 5]
	Subwoofer Phase [2, 3]
	MX HD [1, 4, 5]
	EQ Presets [4, 5]
	Dual HD EQ [4, 5]
	X-Over [5]
	Time Correction (TCR)
	Defeat
	Source Volume Setup
	Caller Level [6]
	Microphone Level [6]
	Ring Tone Level [6]
	Key Sound Feedback
	Mute While Backing Up
	Microphone EC/NR
	Default Sound Settings
Language (Language)	
Picture Quality	
	Video [7]
	Camera [8]
	Navigation
Display/Key	
	Screen/Lighting
	Screen Color (X308U/INE-W987HD only)
	Illumination Color (X308U/INE-W987HD only)
	Screen Color (Off-Road on/off) (X409 only)
	Text Scroll
	Artwork Position
General	
	Format
	About
	Demo Mode
	Off-Road SWRC Settings [9] (X409 only)

Vehicle	
	Steering wheel
	Installation Status
	Inclinometer [9] (X409 only)

[1] You can make this setting in the Sound Setup screen of the Shortcut Setup. For details, see "Sound Setup Function" (page 19).
[2] You can also make the setting in the Bal./Fad. screen. For details on how to adjust, see "Setting the Balance/Fader/Rear Speaker/Subwoofer" (page 32).
[3] This setting is only available when "Subwoofer" is set to "On" (☑).
[4] When the Defeat setting is "On," you cannot perform the set up.
[5] When "BASS ENGINE SQ" is selected in the Shortcut Setup, this setting is disabled.
[6] Not displayed when Apple CarPlay is used/Android smartphone which installed Android Auto App is connected.
[7] "Video" can be selected while a video is playing.
[8] The camera names are not displayed when Camera Select (page 45) is set to "Off."
[9] Not displayed when Off-Road Mode is set to Off.

> The following steps 1 to 3 are common to each "Setting item" of General Setup. See each section for details.

1 Select the desired item.

2 To switch the setting, touch [⟨], [⟩], [+], [−], or mark the checkboxes "Off" (☐) or "On" (☑).
  - If "＞" appears, there is a further hierarchy. Touch the desired item.

3 Touch [✕] to return to the main source screen.
  - To return to the previous List screen, touch [≪] in the previous page. For details, see "About Basic Operation for List Screen" (page 18).

Sound Setup

[Sound] is selected on the General Setup Menu screen in step 1. See "General Setup" (page 31).
You can set up items related to the sound quality.

- X409 is designed exclusively for a certain car model. The Initial setting for sound setup items may differ from the description of Owner's Manual.

Setting the Balance/Fader/Rear Speaker/ Subwoofer

Set Balance/Fader/Rear Speaker/Subwoofer/Subwoofer Level/ Subwoofer Phase in the Bal./Fad. screen.

Setting item:
Balance*1 / Fader*1 / Rear Speaker / Subwoofer*2 / Subwoofer Level*1, 2 / Subwoofer Phase*1

*1 When selecting either of the above setting items, the Bal./Fad. screen is displayed.
*2 When "BASS ENGINE SQ" is selected in the Shortcut Setup, this setting is disabled.

• This setting can also be activated by touching Sound Setup shortcut key on Audio source screen. Refer to "About the Shortcut Key" (page 22).

■ Fad./Bal. screen

① Enables you to change to each setting screen.
② Balance/Fader Image area

Setting the Balance/Fader

Touch the desired point within the image area. Or touch [∧] [∨][〈][〉].

Balance:
L15 to R15
Fader:
F15 to R15

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

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)

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)

• This setting is only available when "Subwoofer" is set to "On" (☑).

Setting the Subwoofer Phase

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

Setting item:
Subwoofer Phase
Setting contents:
0° (Initial setting) / 180°

• This setting is only available when "Subwoofer" is set to "On" (☑).

Setting the Media Xpander (MX HD)

Media Xpander (MX HD) makes vocals or instruments sound distinct regardless of the music source. The HD-Radio Technology (FM)/ SiriusXM, USB Flash drive and iPod/iPhone, will be able to reproduce the music clearly even in cars with a lot of road noise.

Setting item:
MX HD

• When the Defeat setting is "On," you cannot perform the set up.
• When "BASS ENGINE SQ" is selected in the Shortcut Setup, this setting is disabled.
• The MX HD setting can be performed only when a source is currently selected.

■ Adjustable source (media) and setting value

HD-Radio™ (FM)/SiriusXM: Off (Initial setting) / Level1 / Level2 / Level3
The medium to high frequencies become more clear, and produces well balanced sound in all the bands.

Compressed Media/Factory Audio: Off (Initial setting) / Level1 / Level2 / Level3
This corrects information that was omitted at the time of compression. This reproduces a well-balanced sound close to the original.

HDMI/AUX: Off (Initial setting) / Compressed Media / Movie / Music
Choose the MX HD mode (Compressed Media, Movie, or Music) that corresponds to the media connected.

(Movie)
The dialog portion of the video is reproduced more clearly

(Music)
This file contains a large quantity of data such as music clip. MX uses this data to reproduce the sound accurately.

• The effect increases as the MX HD setting value increases Level1 → Level2 → Level3.
• You can set this for each source.
• iPod/iPhone/USB Audio/USB Video/Bluetooth Audio/Pandora/ Bluetooth Pandora/Apple CarPlay Music/Google Play Music correspond to Compressed Media.
• Factory Media (USB/iPod)/Factory SiriusXM correspond to Factory Audio.

Equalizer Presets

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

Setting item:
EQ Presets
Setting contents:
FLAT (Initial setting) / POP / ROCK / NEWS / JAZZ / ELECTRONIC / HIP HOP / EASY LISTENING / COUNTRY / CLASSICAL

- *Only one type can be set to ON.*
- *When Equalizer Presets is set, the linked Dual HD EQ settings are also changed. We recommend storing Dual HD EQ settings in a Preset in advance.*
- *The Equalizer Presets setting can be configured when Defeat is "Off."*

Adjusting the Parametric Equalizer Curve (Dual HD EQ)

Parametric Equalizer (Dual HD EQ) can adjust the center frequency/Q Factor (bandwidth)/level for the front and rear speakers independently. You can adjust only to the approximate frequency zone, but can then compensate by performing advanced correction of the sound.

Setting item:
Dual HD EQ

- *When the Defeat setting is "On," you cannot perform the set up.*
- *When "BASS ENGINE SQ" is selected in the Shortcut Setup, this setting is disabled.*

1 Adjust the Dual HD EQ to your preference.
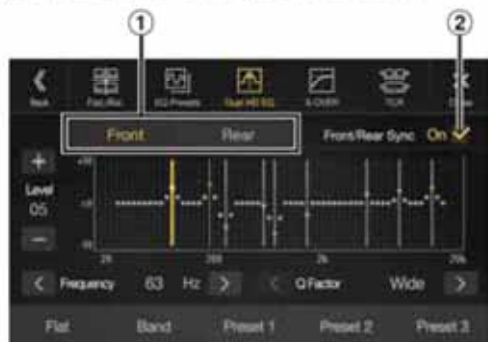
① Front/Rear speaker switching button
Not displayed when Front/Rear Sync is "On" (☑).
② Front/Rear speaker interlock button

| On: | When you want the Front and Rear speakers to have the same setting, set to "On" (☑). |
| Off: | When you want to set the Front and Rear speakers independently, set to "Off" (☐). |

Adjusting the Band
Touch **[Band]** to select the band to be adjusted.
Band1 → Band2 → ••• → Band8 → Band9 → Band1

- *You can select a band directly by touching the screen.*

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

Adjustable frequency bands:
20 Hz to 20 kHz (in 1/3 octave steps)

Band1:	20 Hz~100 Hz (63 Hz)
Band2:	63 Hz~315 Hz (125 Hz)
Band3:	125 Hz~500 Hz (250 Hz)
Band4:	250 Hz~1 kHz (500 Hz)
Band5:	500 Hz~2 kHz (1 kHz)
Band6:	1 kHz~4 kHz (2 kHz)
Band7:	2 kHz~7.2 kHz (4 kHz)
Band8:	5.8 kHz~12 kHz (8 kHz)
Band9:	9 kHz~20 kHz (16 kHz)

Adjusting the Level
Touch [—] or [+] of "Level" to adjust the level of selected band.

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

Setting the Bandwidth
Touch [<] or [>] of "Q Factor" to select the bandwidth.

Setting contents:
Wide (Initial setting) / Medium / Narrow

2 To adjust another band, repeat step 1, and adjust all bands.

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

- *Band2 and Band8 are the same as the Bass and Treble controls.*
- *For details on setting Bass and Treble, see "Adjusting Bass Level/Treble Level" (page 20).*
- *Settings exceeding the frequency of adjacent bands are not available.*
- *While adjusting the Dual HD EQ, you should consider the frequency response of the connected speakers.*
- *When the Dual HD EQ is adjusted, the Equalizer Presets are overridden.*
- *When Equalizer Presets is set, the linked Dual HD EQ settings are also changed. We recommend storing Dual HD EQ settings in a Preset in advance.*
- *Touch [Flat] to initialize all values.*

Calling the Dual HD EQ adjusted value
Calling the pre-set Dual HD EQ adjusted value.

Touch [Preset 1], [Preset 2], or [Preset 3] on the Dual HD EQ screen.
The setting stored in the Preset will be recalled.

Adjusting the Crossover Settings (X-Over)

Before performing the following procedures, see "About the Crossover" (page 36).

Setting item:
X-Over

- When "BASS ENGINE SQ" is selected in the Shortcut Setup, this setting is disabled.

1 Touch [Channel] to select the channel.
Each time you touch, the channel switches.

- The channel being adjusted is displayed in red.
  Front HPF → Rear HPF → Subw. LPF → Front HPF

2 Adjust the crossover to your preference.

Selecting the Cut-Off Frequency

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

Setting contents:
20 / 25 / 31.5 / 40 / 50 / 63 / 80 (initial setting) / 100 / 125 / 160 / 200 Hz

Adjusting the Slope

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

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

Adjusting the Level

Touch [—] or [+] of "Level," and then adjust the HPF or LPF level.

Setting contents:
-12 to 0 dB (Initial setting: 0)

3 Repeat steps 1 to 2 to make adjustment to the other channels.

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

- Touch [Flat] to initialize all values.
- If the Rear Speaker setting is "Off," the Rear Speaker setting cannot be edited (page 32).
- If the Subwoofer setting is "Off," the Subwoofer setting cannot be edited (page 32).
- 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] on the X-Over screen.
The setting stored in the Preset will be recalled.

Adjusting the Time Correction (TCR)

Before performing the following procedures, see "About Time Correction" (page 36).

Setting item:
Time Correction

Correction mode

1 Touch the Correction mode button.
The pop up screen for selecting the correction mode is displayed.

2 Touch [ms], [cm] or [inch] to select the mode for making adjustments.
The selected mode is displayed on the Correction mode button.

3 Touch [—] or [+] for each speaker to adjust the time or distance.
0.0 msec to 9.9 msec (0.1 msec/step)
0.0 cm (0.0 inch) to 336.6 cm (132.7 inch) (3.4 cm/step)
All speaker setting values are adjustable in the range of 15 ms or 510 cm.

4 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 32).
- If the Subwoofer setting is "Off," the Subwoofer setting cannot be edited (page 32).

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.

Setting Defeat

If Defeat is "On," MX HD, Equalizer Presets and Dual HD EQ functions are turned Off. This disables any settings made for these functions.

Setting item:
Defeat
Setting contents:
Off (Initial setting) / On

Setting the Volume for Each Source

Setting item:
Source Volume Setup → Radio / SiriusXM / Compressed Media*1 /
iPod Music / AUX*2 / HDMI*2, 3 / Bluetooth Audio / Factory Audio*4 /
Apple Carplay*5 / Android Auto*5

Setting contents*6:
-14 to +14 (Initial setting: 0)

*1 Compressed Media is the music data and video data in a USB flash
 drive (MP3/WMA/AAC/FLAC/AVI/MKV/MP4).
*2 The source name set in "HDMI Setup" (page 44) and "Setting the
 Auxiliary (AUX) Name" (page 43) is displayed.
*3 Not displayed when an HDMI device is not connected.
*4 Not displayed when an iDataLink module is not connected.
*5 Available when an iPhone 5 or later/Android smartphone which
 installed Android Auto App is connected.
*6 Except for Apple CarPlay/Android Auto mode.

- Settable source differs depending on the connected device and settings.

Setting the Volume for Apple CarPlay

When an iPhone 5 or later is connected, after touching [Apple
CarPlay], you can adjust Media, Phone Calls, Ringtones & Alerts
level, Notifications & Guidance level, Siri and Microphone Level
for Apple CarPlay mode.

Setting item:
Media / Phone Calls / Ringtones & Alerts / Notifications & Guidance / Siri /
Microphone Level

Setting contents for Media:
-14 to +14 (Initial setting: 0)

Setting contents for Ringtones & Alerts:
1 to 6 (Initial setting: 3)

Setting contents for other items:
1 to 11 (Initial setting: 5)

Setting the Volume for Android Auto

When an Android Smartphone is connected, after touching
[Android Auto], you can adjust Media, Phone Calls, Ringtones &
Alerts level, Notifications & Guidance level, Voice Recognition
and Microphone Level for Android Auto mode.

Setting item:
Media / Phone Calls / Ringtones & Alerts / Notifications & Guidance / Voice
Recognition / Microphone Level

Setting contents for Media:
-14 to +14 (Initial setting: 0)

Setting contents for Phone Calls:
1 to 35 (Initial setting: 10)

Setting contents for Ringtones & Alerts:
1 to 6 (Initial setting: 3)

Setting contents for other items:
1 to 11 (Initial setting: 5)

Adjusting the Caller Level

You can adjust the volume of the incoming call.

Setting item:
Caller Level

Setting contents:
1 to 35 (Initial setting: 10)

Adjusting the Microphone Level

You can adjust the transmit volume, during the call.

Setting item:
Microphone Level

Setting contents:
1 to 11 (Initial setting: 5)

Adjusting the Ring Tone Level

You can adjust the receive volume, during the call.

Setting item:
Ring Tone Level

Setting contents:
1 to 6 (Initial setting: 3)

Key Sound Volume Setting

You can change the volume of the sound heard when a button is
touched.

Setting item:
Key Sound Feedback

Setting contents:
0 to 6 (Initial setting: 3)

Setting Audio Mute On/Off while Backing up

The sound can be muted when the shift gear lever is set to the reverse
(R) position enabling you to easily hear sensors, etc., while reversing
your car.

Setting item:
Mute While Backing Up

Setting contents:
Off / On (Initial setting)

Off:	Does not mute.
On:	Mutes when the shift gear lever is set to the reverse (R) position.

Setting the Microphone Effect

Set this item when an iPhone 5 or later/Android smartphone with
Android Auto App is connected.
You can turn on or off the Microphone Effect.
This setting influences Apple CarPlay/Android Auto mode.

Setting item:
Microphone EC / NR

Setting contents:
On (Initial setting:) / Off

Default Sound Settings

You can restore the Dual HD EQ*/X-Over*/Time Correction*/MX HD
Level/Rear Speaker/Subwoofer/Subwoofer Level/Subwoofer Phase to
factory settings.

Setting item:
Default Sound Settings

Touch [Set], and the confirmation message appears.
To initialize, touch [OK].

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

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 your authorized Alpine dealer.

	Cut-off frequency (1/3 octave steps)		Slope		Level
	HPF	LPF	HPF	LPF	
Subwoofer (LPF)	----	20 Hz - 200 Hz	----	0, 6, 12, 18, 24 dB/oct.	0 to –12 dB
Rear speaker (HPF)	20 Hz - 200 Hz	----	0, 6, 12, 18, 24 dB/oct.	----	0 to –12 dB
Front speaker (HPF)	20 Hz - 200 Hz	----	0, 6, 12, 18, 24 dB/oct.	----	0 to –12 dB
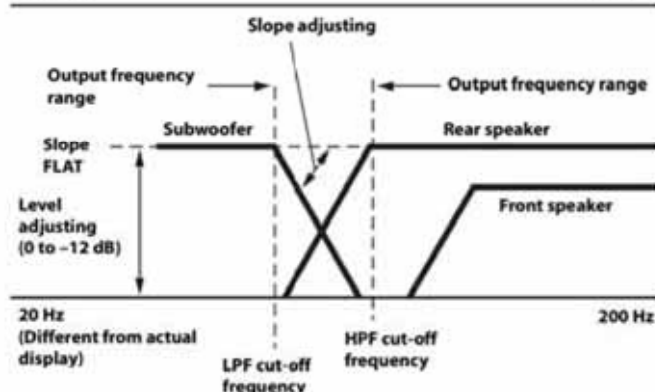
- *HPF (high pass filter): Cuts the lower frequencies and allows the higher frequencies to pass.*
- *LPF (low pass filter): Cuts the higher frequencies and allows the lower frequencies to pass.*
- *Slope: The level change (in dB) for a frequency change of one octave.*
- *The higher the slope value, the 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. For the recommended crossover frequencies of Alpine speakers, refer to the respective Owner's Manual.*
  We 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 3.4 cm 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.
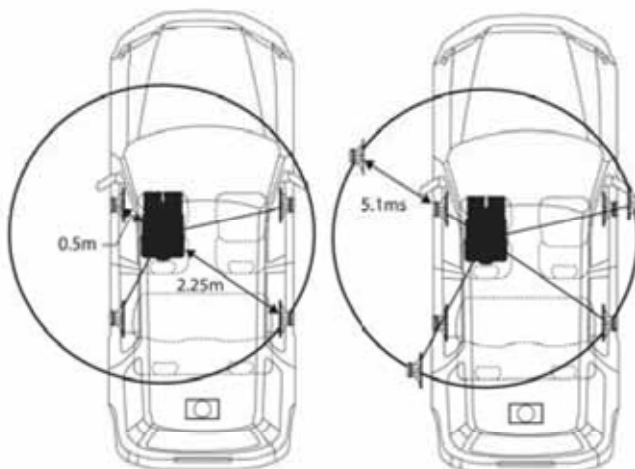
The sound is not balanced because the distance between the listening position and the various speakers is different.
The difference in distance between the front left speaker and the rear right speaker is 1.75 m (68-7/8"").
Here we calculate the time correction value for the front left speaker in the 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 m – 0.5 m = 1.75 m (68-7/8"")
> Time correction = 1.75 ÷ 343* × 1,000 = 5.1 (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 = (distance to farthest speaker) – (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.

Time Correction Value List

Time Difference (msec)	Distance (cm)	Distance (inch)	Time Difference (msec)	Distance (cm)	Distance (inch)
0.0	0.0	0.0	5.1	173.4	68.3
0.1	3.4	1.3	5.2	176.8	69.7
0.2	6.8	2.7	5.3	180.2	71.0
0.3	10.2	4.0	5.4	183.6	72.4
0.4	13.6	5.4	5.5	187.0	73.7
0.5	17.0	6.7	5.6	190.4	75.0
0.6	20.4	8.0	5.7	193.8	76.4
0.7	23.8	9.4	5.8	197.2	77.7
0.8	27.2	10.7	5.9	200.6	79.1
0.9	30.6	12.1	6.0	204.0	80.4
1.0	34.0	13.4	6.1	207.4	81.7
1.1	37.4	14.7	6.2	210.8	83.1
1.2	40.8	16.1	6.3	214.2	84.4
1.3	44.2	17.4	6.4	217.6	85.8
1.4	47.6	18.8	6.5	221.0	87.1
1.5	51.0	20.1	6.6	224.4	88.4
1.6	54.4	21.4	6.7	227.8	89.8
1.7	57.8	22.8	6.8	231.2	91.1
1.8	61.2	24.1	6.9	234.6	92.5
1.9	64.6	25.5	7.0	238.0	93.8
2.0	68.0	26.8	7.1	241.4	95.1
2.1	71.4	28.1	7.2	244.8	96.5
2.2	74.8	29.5	7.3	248.2	97.8
2.3	78.2	30.8	7.4	251.6	99.2
2.4	81.6	32.2	7.5	255.0	100.5
2.5	85.0	33.5	7.6	258.4	101.8
2.6	88.4	34.8	7.7	261.8	103.2
2.7	91.8	36.2	7.8	265.2	104.5
2.8	95.2	37.5	7.9	268.6	105.9
2.9	98.6	38.9	8.0	272.0	107.2
3.0	102.0	40.2	8.1	275.4	108.5
3.1	105.4	41.5	8.2	278.8	109.9
3.2	108.8	42.9	8.3	282.2	111.2
3.3	112.2	44.2	8.4	285.6	112.6
3.4	115.6	45.6	8.5	289.0	113.9
3.5	119.0	46.9	8.6	292.4	115.2
3.6	122.4	48.2	8.7	295.8	116.6
3.7	125.8	49.6	8.8	299.2	117.9
3.8	129.2	50.9	8.9	302.6	119.3
3.9	132.6	52.3	9.0	306.0	120.6
4.0	136.0	53.6	9.1	309.4	121.9
4.1	139.4	54.9	9.2	312.8	123.3
4.2	142.8	56.3	9.3	316.2	124.6
4.3	146.2	57.6	9.4	319.6	126.0
4.4	149.6	59.0	9.5	323.0	127.3
4.5	153.0	60.3	9.6	326.4	128.6
4.6	156.4	61.6	9.7	329.8	130.0
4.7	159.8	63.0	9.8	333.2	131.3
4.8	163.2	64.3	9.9	336.6	132.7
4.9	166.6	65.7			
5.0	170.0	67.0			

Language Setting

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 / Deutsch / Français / Español / Português / Italiano / Nederlands / Suomi / Norsk / Svenska / Dansk / русский язык / Slovenčina / Polski / Český / Magyar / Ελληνικά / ภาษาไทย / Türkçe / 中文 / العربية / עברית / Bahasa Indonesia

[1] Display in the currently selected language.
[2] Always display in English.

Picture Quality Setup

[Picture Quality] is selected on the General Setup Menu screen in step 1. See "General Setup" (page 31).
You can set up items related to an image.

Settable items differ depending on the application.
[Video] (Video media)[3]:
Visual EQ / Brightness / Color / Tint / Contrast / Sharpness
[Camera][4]:
Brightness / Color / Contrast
[Navigation]:
Brightness / Contrast

[3] "Video" can be selected while a video is playing.
[4] The camera names are not displayed when "Off" is set (page 45).

Selecting the Visual EQ Mode (Factory's setting)

You can select a mode suitable for the subject image.

Setting item:
Visual EQ
Setting contents:
Off (Initial setting) / Night / Soft / Sharp / Contrast

Off:	Initial Setting
Night:	Suitable for movies in which dark scenes frequently appear.
Soft:	Suitable for CGs and animated films.
Sharp:	Suitable for old movies where images are not clearly shown.
Contrast:	Suitable for recent movies.

- To return to the default video settings, set this function to Off. Any Visual EQ selection or changes made are reset their initial settings.

Adjusting Brightness

Setting item:
 Brightness
Setting content:
 -15 to +15 (Initial setting: 0)

You can adjust the brightness between MIN (-15) and MAX (+15). When it reaches the minimum or maximum point, the display shows "MIN" or "MAX" respectively.

Adjusting Color of Picture

Setting item:
 Color
Setting content:
 -15 to +15 (Initial setting: 0)

You can adjust the color between MIN (-15) and MAX (+15). When it reaches the minimum or maximum point, the display shows "MIN" or "MAX" respectively.

Adjusting Tint of Picture

Setting item:
 Tint
Setting content:
 R15 to G15 (Initial setting: 0)

Adjust the Color from R15 to G15.

Adjusting Image Contrast

Setting item:
 Contrast
Setting content:
 -15 to +15 (Initial setting: 0)

You can adjust the contrast between MIN (-15) and MAX (+15). When it reaches the minimum or maximum point, the display shows "MIN" or "MAX" respectively.

Adjusting Picture Quality

Setting item:
 Sharpness
Setting content:
 -5 to +5 (Initial setting: 0)

Picture quality adjustment range is -5 to +5. "SOFT" and "HARD" appear as the minimum and maximum values specified.

Saving and calling the adjusted picture quality

When adjusting audio (video media), you can store the settings made for "Adjusting Brightness, Color, Tint, Contrast and Sharpness."

Setting item:
 Preset 1 / Preset 2

1 After completing "Adjusting Brightness, Color, Tint, Contrast and Sharpness" (page 38), touch and hold [Preset 1] or [Preset 2] to save the settings.

2 Touch [Preset 1] or [Preset 2] to call the saved settings.

Display/Key Setup

[**Display/Key**] is selected on the General Setup Menu screen in step 2. See "General Setup" (page 31).
You can set up the brightness, color, display, etc., of the screen.

Screen/Lighting Customize

1 Touch [Screen/Lighting] in the Display/Key Setup Menu screen.
The Screen/Lighting setup screen appears.

Setting item:
 Dimmer / Key Illumination Level / Screen Dimmer Level

Setting the Brightness of the Backlighting

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:
 Dimmer
Setting contents:
 Auto (Initial setting) / On / Off

Auto:	Adjust the brightness of the background illumination of the monitor automatically to the brightness of the car interior.
On:	Keep the background illumination of the monitor dark.
Off:	Deactivate Auto Dimmer mode to keep the background illumination of the monitor bright.

- When "On" is set, the setting is also applied for the button lighting in "Adjusting the Dimmer of Button Lighing at Night" (page 38), and "Adjusting the Minimum Level of Backlight" (page 39).

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 content:
-15 to +15 (Initial setting: 0)

You can adjust the level between MIN (-15) and MAX (+15). When it reaches the minimum or maximum point, the display shows "MIN" or "MAX" respectively.

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

Switching the Display Color (X308U/ INE-W987HD only)

You can choose from 8 different display colors.

Setting item:
Screen Color
Setting contents:
Glass Blue / Glass Green / Glass Light Blue / Glass Red / Steel White / Steel Green / Steel Light Blue / Steel Red

Switching the Illumination Color (X308U/ INE-W987HD only)

You can choose the color of the Front Panel button from one of 7 colors.

Setting item:
Illumination Color
Setting contents:
Blue (Initial setting) / Light Blue / Aqua / Red / Green / Amber / Yellow

Setting the Display Color (Off-Road on/off) (X409 only)

You can select what display color (background image and menu theme) to display for Off-Road on and off modes individually. There are 8 different display colors to choose from.

Setting item:
Screen Color
Setting contents:
Street Blue / Street Green / Street Light Blue / Street Red / Off-Road White / Off-Road Green / Off-Road Light Blue / Off-Road Red

- *The initial setting for Off-Road on mode is "Off-Road Green", and for Off-Road off mode is "Street Green".*

Setting the Text Scroll

Scroll display is available if folder name, file name or tag information is entered.

Setting item:
Text Scroll
Setting contents:
Off (Initial setting) / On

Off:	Turns off the scroll mode.
On*:	Turns on the Auto scroll mode. Scroll display is repeated as long as the mode is turned on.

* *The text scroll is not available while driving.*

Switching the Artwork Position

You can set the artwork position to the center or the left.

Setting item:
Artwork Position
Setting contents:
Center / Left (Initial setting)

General Setup

[General] is selected on the General Setup Menu screen in step 1. See "General Setup" (page 31).
You can set up items related to the language, etc.

Format settings

The character code to be used for tag text information displayed on the screen can be selected from 7 character codes.

Setting item:
Format
Setting contents:
Latin-1 / Latin-9 (Initial setting) / Russian / Chinese / Thai / Arabic / Hebrew

Latin-1:	ISO 8859-1
Latin-9:	ISO 8859-15
Russian:	ISO 8859-5
Chinese:	GB18030-2005
Thai:	CP874
Arabic:	CP1256
Hebrew:	CP1255

About X409/X308U/INE-W987HD

[About] enables you to check the Serial No., Firmware Version, Model Name, and to initialize various settings.

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 Alpine Tech Support or an Alpine-authorized dealer.

Setting contents:
   Serial No. / Firmware Version / Model Name

Initializing the System

You can initialize 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 again.

3 Touch [OK].
   The system starts initialization.

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

Setting Demo mode to Off/On

This unit has a Demonstration feature for the display. If the unit is in Demo mode, set Demo mode to OFF to turn it OFF.

Setting item:
   Demo mode
Setting contents:
   Off (Initial setting) / On

- *If you perform an operation during the Demo mode, the demonstration is temporarily stopped.*

Off-Road SWRC Settings (X409 only)

Two operations can be assigned to the SWRC SOURCE button.

Setting item: (only available when Off-Road Mode is turned on)
   Off-Road SWRC Settings
Setting contents:
   Source / Camera (Initial setting)

Source:	Pressing the [Source/Camera View] button once will change the radio source.
Camera:	Pressing the [Source/Camera View] button once will activate camera mode.

- *When camera mode is activated pressing the [Source/Camera View] button once will cycle the camera view mode (Panorama/Back/Top/Corner), if an Alpine multi-view camera is connected.*
- *When the Alpine multi-camera selector (KCX-C250MC) is connected pressing and holding the [Source/Camera View] button for at least 2 seconds will cycle the camera source (Front Camera/Rear Camera/Side Camera).*
- *Off-Road Steering Wheel Remote Control (SWRC) settings are applicable to vehicles with steering wheel media buttons. This setting is assigned to the [Source/Camera View] button, located between Volume + / Volume - on the back right side of the steering wheel.*

Vehicle Setup

[Vehicle] is selected on the General Setup Menu screen in step 1. See "General Setup" (page 31).

Steering wheel Setting

Set this item when an iPhone 5 or later/Android smartphone with Android Auto App is connected.
This setting influences Apple CarPlay/Android Auto mode.

Setting item:
   Steering wheel
Setting contents:
   Left (Initial setting) / Right

Installation Setup

Vehicle Setup enables you to check the installation status of Reverse Lead/Parking Brake Lead/Speed Signal/GPS Status/GPS Reception/VP Learning/Sensor Diagnosis, etc.

Setting item:
   Installation Status

The Installation check screen is displayed.

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

Inclinometer Setup (X409 only)

You can set the Inclinometer (Roll/Pitch) alarm angle preferences. The alarm displays visually in the Off-Road vehicle information interface on the Off-Road Navi screen and Off-Road Camera screen. The angle display changes from green to yellow for Low Alarm, then to red for High Alarm.

Setting item: (only available when Off-Road Mode is turned on)
   Inclinometer
Setting contents:

Roll Low Alarm:	0 ~ 84 (initial setting: 30)
Roll High Alarm:	0 ~ 85 (initial setting: 40)
Pitch Up Low Alarm:	0 ~ 89 (initial setting: 40)
Pitch Up High Alarm;	0 ~ 90 (initial setting: 60)
Pitch Down Low Alarm:	0 ~ -89 (initial setting: -40)
Pitch Down High Alarm:	0 ~ -90 (initial setting: -60)

- *The upper limit alarm value must be greater than lower limit alarm value.*