



Digital Media Station

iXA-W404

MP3



AAC



- **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.

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iPhone 3G
8GB 16GB



iPhone
4GB 8GB 16GB



iPod touch
2nd generation
8GB 16GB 32GB



iPod nano
4th generation (video)
8GB 16GB



iPod classic
120GB



iPod touch
1st generation
8GB 16GB 32GB



iPod nano
3rd generation
(video)
4GB 8GB



iPod classic
80GB 160GB



iPod nano
2nd generation
(aluminum)
2GB 4GB 8GB



iPod
5th generation
(video)
60GB 80GB



iPod
5th generation
(video)
30GB



iPod nano
1st generation
1GB 2GB 4GB

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LIMITED WARRANTY

Operating Instructions

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 (and illegal in many states) 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.

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 BATTERIES 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.



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.

DO NOT MIX NEW BATTERIES WITH OLD BATTERIES. INSERT WITH THE CORRECT BATTERY POLARITY.

When inserting the batteries, be sure to observe proper polarity (+ and -) as instructed. Rupture or chemical leakage from the battery may cause fire or personal injury.

PRECAUTIONS

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 +60°C (+140°F) and -10°C (+14°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.

Installation Location

Make sure the iXA-W404 will not be installed in a location subjected to:

- Direct sun and heat
 - High humidity and water
 - Excessive dust
 - Excessive vibrations
-
- After turning the system off, a slight ghost of the image will remain temporarily. This is an effect peculiar to LCD technology and is normal.
 - In cold temperature conditions, the screen may lose contrast temporarily. After a short warm-up period, it will return to normal.

Alpine products equipped with the Ai-NET bus, connected to the iXA-W404, can be operated from the iXA-W404. Depending on the products connected, the functions and displays will vary. For details, consult your Alpine dealer.

Operation of some of the functions of this unit is very complex. Because of this, it was deemed necessary to place these functions into a special screen. This will restrict operation of these functions to times when the vehicle is parked. This ensures the focus of the driver's attention will be on the road and not on the iXA-W404. This has been done for the safety of the driver and passengers. Audio Processor Adjustments cannot be made if the car is moving. The car must be parked and the parking brake must be engaged for the procedure described in the Owner's Manual to be valid. The warning "CAN'T OPERATE WHILE DRIVING" will be displayed if any attempts are made to perform these operations while driving.

-
- The iXA-W404 draws minimal current even when its power switch is turned off. If the switched power (ignition) lead of the iXA-W404 is connected directly to the positive (+) post of the vehicle's battery, the battery may be discharged.

An SPST (Single-Pole, Single-Throw) switch (sold separately) can be added to simplify this procedure. Then, you can simply place it in the OFF position when you leave the vehicle. Turn the SPST switch back ON before using the iXA-W404. For connecting the SPST switch, refer to the "Connection Diagram of SPST Switch (Sold Separately)" (page 70). If the power (ignition) lead is unswitched, it must be disconnected from the battery post should the vehicle be left unused for an extended period of time.

Protecting the USB connector

- Only an iPhone/iPod, USB memory or Portable audio player 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 memory device, 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.
- Artist/song name, etc., can be displayed, however 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 Memory

- This unit can control a memory storage device that supports the USB Mass Storage Class (MSC) protocol. Playable audio file formats are MP3, WMA and AAC.
- USB memory function is not guaranteed. Use USB memory according to the terms of agreement. Read the USB memory 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 memory in a location where driver operation will not be hindered.
- USB memory may not function correctly at high or low temperature.
- Use only certified USB memory. Note that even certified USB memory, may not function correctly depending on its type or state.
- Depending on the settings of the USB memory type, memory state or encoding software, the unit may not play back or display properly.

- Files protected by DRM (Digital Rights Management), cannot be played back on this unit. These include AAC, WMA or other files with some form of copyright protection.
- USB memory may take time to start playback. If there is a particular file other than audio in the USB memory, 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.

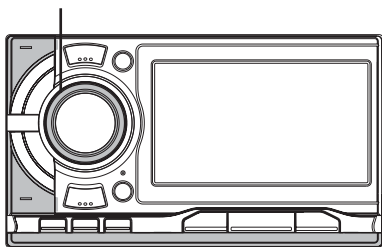
On Handling Portable audio player

- The unit can control a Portable audio player with the USB interface. Playable audio file formats are MP3 and WMA.
- Portable audio player function is not guaranteed. Use Portable audio player according to the terms of agreement. Read the Portable audio player 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 Portable audio player in a location where driver operation will not be hindered.
- Portable audio player may not function correctly at high or low temperature.
- Depending on the settings of the Portable audio player type, memory state or encoding software, the unit may not play back or display properly.
- If the Portable audio player has an MSC/MTP setting, set to MTP.
- A Portable audio player in which data is stored by USB Mass Storage may not be playable on the unit.
- Depending on the Portable audio player settings, USB Mass Storage may be supported. For setting, refer to the Owner’s Manual of the player.
- The unit can play back MP3/WMA files synchronized by Windows Media Player (Ver. 10 or 11), and are then forwarded to the player. The “mp3” or “wma” extensions are playable.
- If data is not synchronized by Windows Media Player and is forwarded in another way, the unit may not be able to correctly play back the files.
- WMDRM10 is supported by the unit.
- A file that is copy-protected (copyright protection) cannot be played back.
- 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.

-
- *This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.*
 - *Windows Media and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.*
 - *iPod and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries.*
 - *iPhone is a trademark of Apple Inc.*
 - *“Made for iPod” means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.*
 - *“Works with iPhone” means that an electronic accessory has been designed to connect specifically to iPhone 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.*
 - *The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Alpine Electronics, Inc. is under license. Other trademarks and trade names are those of their respective owners.*
 - *HD Radio™ and the HD and the HD Radio Ready logos are proprietary trademarks of iBiquity Digital Corp.*
 - *“MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.”*
 - *“Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e. revenue-generation) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent license for such use is required. For details, please visit <http://www.mp3licensing.com>”*
 - *Audyssey MultEQ XT is a registered trademark of Audyssey laboratories Inc.*

Double Action Encoder Operation

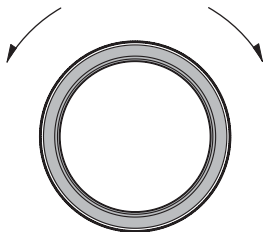
Double Action encoder



There are 2 ways to operate the Double Action encoder.

Normal operation

Rotate the **Double Action encoder** to the left or right.



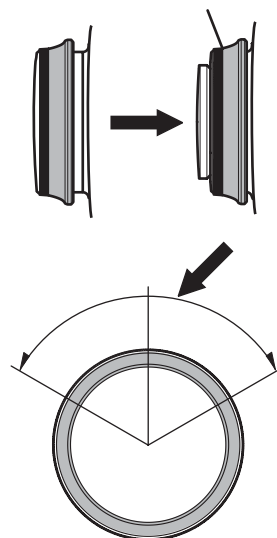
The adjust volume and scroll through a list of items.

Alternate operation

Press in the outer ring and rotate the **Double Action encoder** to the left or right.

When you release the Double Action encoder, the display changes.

Press the Double Action encoder.

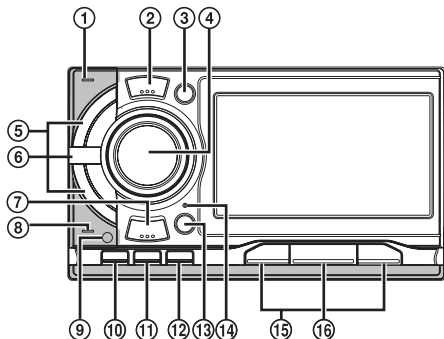


Depending on the current mode, the resultant action varies. If you press then rotate and hold the **Double Action encoder** to the left or right, the items/displays change continuously.

Getting Started

Accessory List

- Head unit 1
- Power cable 1
- Mounting sleeve 1
- Bracket key 2
- Flush Head Screw (M5x8) 6
- Screw (M5x8) 8
- Remote control 1
- Battery (AAA size) 2
- Face plate 1
- AUX Pre OUT Cable 1
- AV extension cable 1
- USB extension cable 1
- USB 30P cable 1
- REMOTE Cable 1
- Owner's Manual 1 set



Optional Remote Control Interface Box

This unit is operable using the vehicle's secondary radio controls. An Alpine Remote Control Interface Box (optional) is required. For details, contact your Alpine dealer.

Location of Controls

- 1 Power indicator**
Lights when the unit is turned on.
- 2 ►/II/TUNE/A. ME**
Press to pause or resume playback.
Press and hold for at least 2 seconds to preset stations automatically in Radio mode.
- 3 SETUP button**
Press to recall the SETUP screen of the current source.
Press and hold for at least 2 seconds to recall the SETUP selection screen.
- 4 Q/ENTER button**
Press to enter the selected item or activate the search mode.
While receiving HD Radio signals, pressing and holding for at least 2 seconds to tag the songs you hear on the HD Radio stations (when the unit is connected to a Tagging compatible device).
- 5 ◀◀/▶▶ button**
Radio mode: Frequency Up/Down.
Changer/USB memory/Portable audio player/iPod mode: Press to select the desired song.
Press and hold for at least 2 seconds to Fast backward/forward the song (except Portable audio player).
- 6 ↶ button**
Press to return to the previous screen.
Press and hold for at least 2 seconds to return to normal screen.
- 7 BAND button**
Radio mode: Changes the band.
Changer mode: Changes the disc.
Press and hold for at least 2 seconds in the XM or SIRIUS mode, the stored weather channel or traffic channel will be recalled (when the optional XM or SIRIUS Receiver Box is connected).
- 8 MultEQ indicator**
Lights when the optional IMPRINT audio processor (PXA-H100) is connected and the MultEQ mode is set to CURVE 1 or CURVE 2.
- 9 Remote Sensor**
Point the remote control transmitter towards the remote sensor within a range of 2 metres.
- 10 ▲ (NAVIGATION) button**
Press to recall the navigation mode (when an optional Alpine Navigation System is connected and "NAV. IN" is set to ON (page 23)).
Press again to return to Audio/Visual mode.
- 11 ● (CAMERA) button**
Press to display the rear view video (when an optional rear camera is connected and "Camera IN" is set to DIRECT or RCA (page 23)).
Press again to return to Audio/Visual mode.
- 12 ☎ button**
Press to recall the Telephone Menu screen.
Press and hold for at least 2 seconds to activate the voice dial mode. (when the optional BLUETOOTH INTERFACE (KCE-400BT) is connected and "Bluetooth IN" is set to ADAPTER (page 24)).
- 13))((SOUND/IMPRINT button**
Press to recall the AUDIO SETUP screen.
Press and hold for at least 2 seconds to recall the IMPRINT operation screen. (When the optional IMPRINT audio processor (PXA-H100) is connected.)
- 14 RESET switch**
Be sure to press the RESET switch when using the unit for the first time, after installing the CD changer, after changing the car battery, etc.
Turn off the unit power, press RESET with a ballpoint pen or similar pointed object.
- 15 ◀/▶ button**
Press to switch the mode.
- 16 ⏻ SOURCE button**
Turns the power on. Press and hold for at least 3 seconds to turn the power off.
Recalls the mode switching screen, changes the source of Audio/Visual mode, etc. For the detailed operation, refer to "Recalling the Source" (page 9).

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 Press **⏻ SOURCE** to turn on the unit.

- The unit can be turned on by pressing any button. The unit is also automatically turned on if an iPhone/iPod or USB memory is connected.

2 Press and hold **⏻ SOURCE** for at least 3 seconds to turn off the unit.

- The monitor may be dim during low temperature and immediately after turning on the power. The brightness will return to normal as time elapses.
- The iXA-W404 is a precision device. With gentle handling, its unique capabilities can be enjoyed for a long time.

Adjusting the Volume

Rotate the **Double Action** encoder until the desired sound is obtained.

- The MUTE function can be performed by using the remote control.

How to view the Display

Soft button operation

- Be sure to touch the button lightly with the pad of your finger on the display to protect the display.
- If you touch a button and there is no reaction, remove your finger from the display, and try again.

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. **SETUP**). The buttons found on the touch-screen display are shown in bold within brackets, [] (e.g. [**SETUP**]).
- Whenever a soft button and a head unit button have the same function, the explanations in this Owner's Manual will describe the function of the soft button.

Recalling the Source

Here is an example explanation for the Radio mode display on how to recall a source.

1 Press **⏻ SOURCE** to activate mode switching screen.

2 Slide the display horizontally with your finger to select **Audio/Visual** mode.

Each time you slide the display, the mode switches circularly in the following order:

Audio/Visual ↔ Navigation^{*1} ↔ Camera^{*2} ↔ Telephone^{*3} ↔ Multi Info ↔ Audio/Visual

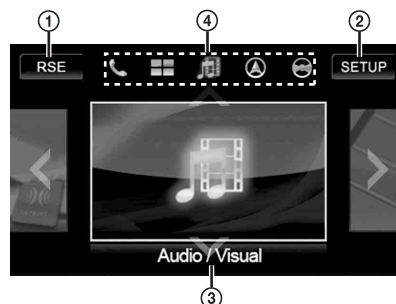
^{*1} Displayed only when NAV. IN is set to ON. Refer to "Setting the Navigation Mode" (page 23).

^{*2} Displayed only when Camera IN is set to RCA or DIRECT. Refer to "Setting the Rear Camera Input" (page 23).

^{*3} Displayed only when Bluetooth IN is set to ADAPTER. Refer to "Setting the Bluetooth Connection (Bluetooth IN)" (page 24).

- The mode can also be switched by pressing ◀ and ▶.
- If the current mode is not Audio/Visual mode, you can switch to the Audio/Visual mode directly by pressing **⏻ SOURCE**.

Display example for mode switching screen



- ① Changes to the Rear Selection screen when "Setting the Picture Output" (page 24) is set to ON.
- ② Changes to the SETUP selection screen.
- ③ Displays the name and image of the current mode.
- ④ Displays the icons of the five modes (icon of the current mode is highlighted).

3 Slide the display vertically with your finger, or press **⏻ SOURCE** repeatedly to select **RADIO** source.

4 Press **Q/ENTER**.

The Radio source is activated and the display changes to the Radio main screen.

Display example for FM Radio main screen



- ⑤ Displays the source name, such as radio band, etc., that is selected.
- ⑥ Display time, missed call^{*1}, signal strength^{*1}, etc.
- ⑦ Function Guide:
The function guide display varies depending on each source.
The contents of the function guide change by touching [P1/2]^{*2}, [P1/3]^{*2}, [P1/4]^{*2} or [<<] on the function guide, and many other operations can be performed.

^{*1} Displayed when the optional **BLUETOOTH INTERFACE (KCE-400BT)** is used.

^{*2} Display may vary depending on the connected devices.

5 Repeat the procedure to select another source.

- If no operation is performed for 5 seconds, during mode switching or Audio/Visual source selection, the screen will automatically switch to the current mode or source.
- You can select source in the Audio/Visual mode only.

The head unit button operation for the Setup or Search list

When the unit is doing the setup setting or searching, operation of setting or search can also be done using the buttons on the unit besides touching the keys on screen.

- 1 When a setting or search list is activated, a selection mark will appear. Rotating the **Double Action encoder** can move the selection mark to choose the item.

Display example for iPod search screen



Selection mark

2 Press **Q/ENTER**.

You will enter into detailed setting or selection of this item.

- If there are several operation keys in the selected item, key selection mode appears. Refer to “Operating the keys of item” on page 10.
- Pressing **↶** to return to the previous screen.

- 3 Complete the setting or search by performing steps 1 and 2 repeatedly.

Operating the keys of item

If there are several keys in the selected item, the item will be highlighted and selection mark will appear on the key.

Display example for Audio Adjustment screen



The selected item Selection mark

- 1 Rotating the **Double Action encoder** can move the selection mark to choose the key of the selected item (e.g. select [<|]).

2 Press **Q/ENTER**.

This operation has the same efficiency as touching the selected key on the screen (e.g. touch [<|]).

- If the selected [<|] or [>|] key is used to adjust the value (e.g. NAV, Mix Level), pressing and holding **Q/ENTER** for at least 2 seconds will change the value continuously. The operation has the same efficiency as touching and holding [<|] or [>|] for at least 2 seconds.

Radio

Display example for FM Radio main screen



① [DX SEEK]^{*1} button: Displays the tuning mode selection list.

Ⓐ Displays the preset number^{*2}/frequency.

^{*1} The button displays the current tuning mode.

^{*2} Displayed only when the current station is the preset one.

This unit cannot receive HD Radio signals (digital terrestrial radio). In order to activate the digital radio functions described below, an optional HD Radio Tuner module must be connected through the Ai-NET bus.

Listening to the Radio

HD Radio signals can be received if the HD Radio TUNER MODULE is connected. While receiving HD Radio signals, the unit can automatically switch between the analog and digital signal.

1 Press \odot SOURCE to activate mode switching screen.

2 Slide the display horizontally with your finger to select Audio/Visual mode.

Each time you slide the display, the mode switches circularly in the following order:

Audio/Visual \leftrightarrow Navigation \leftrightarrow Camera \leftrightarrow Telephone \leftrightarrow Multi Info \leftrightarrow Audio/Visual

3 Slide the display vertically with your finger, or press \odot SOURCE repeatedly to select RADIO or HD RADIO^{*3} source.

^{*3} The digital radio can be received if the optional HD Radio Tuner module TUA-T500HD or TUA-T550HD is connected.

4 Press \odot /ENTER.

The RADIO or HD RADIO source is activated and the display changes to the RADIO or HD RADIO main screen.

5 Touch [BAND] to select the desired radio band.

Each press changes the bands as follows:

FM-1 \rightarrow FM-2 \rightarrow AM \rightarrow FM-1

6 Touch [DX SEEK] to choose the tuning mode.



- There are two modes you can select for auto tuning, DX and Local:
 - DX (Distance) mode ;
Both strong and weak stations will be tuned in.
 - Local mode ;
Only strong stations will be tuned in.
The initial setting is DX.
- Press \blacktriangleright /||/TUNE/A. ME can also change the tuning mode.

7 Touch [\blacktriangleleft], [\blacktriangleright] or [\triangleleft], [\triangleright] to change the radio frequency up or down respectively.

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

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 [PRESET] to display the list screen of preset stations.

3 Touch and hold any one of the preset stations (1 through 6) for at least 2 seconds.

The current station is stored.

4 Repeat the procedure to store up to 5 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 18 stations can be stored in the preset memory (6 stations for each band; FM1, FM2 or AM).

- Touch [\blacktriangleleft] to cancel the list screen of preset stations.
- If a preset memory has already been set in the same preset number, it will be cleared and the new station will be memorized.

Presetting Stations Automatically

The tuner can automatically seek and store 6 strong stations in the selected band in order of signal strength.

After selecting the desired band, touch and hold **[A.MEMO]** for at least 2 seconds.

The tuner automatically seeks and stores 6 strong stations into preset station 1 to 6 in order of signal strength. When the automatic storing has been completed, the tuner goes to the station stored in preset location No. 1.

- The operation can also be performed by pressing and holding **▶/||/TUNE/A. ME** button for at least 2 seconds.
- If no stations are stored, the tuner will return to the original station you were listening to before the automatic storing procedure began.

Tuning to Preset Stations

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

1 After selecting the desired band, touch **[PRESET]** to display the list screen of preset stations.

2 Touch any one of the preset stations (1 through 6) that has your desired radio station in memory.

The preset station is received.

- Touch **[◀]** to cancel the list screen of preset stations.

Storing the tag information (HD Radio mode only)

iTunes Tagging lets you tag songs heard on HD Radio stations. Using your new iXA-W404 in conjunction with an optional HD Tuner module, you can preview, buy and download later, songs from your iTunes tagged playlist the next time you sync your iPod. If the unit is connected to a Tagging compatible device, you can use the iTunes Tagging function. For details, refer to the Owner's Manual of the Tagging compatible device.

1 When a desired song is heard on an HD Radio station, touch **[P1/2]** to change the function guide.

2 Touch **[STORE]** to save its tag information.

Then you can preview, buy, and download it later from your iTunes Tagged playlist the next time you sync your iPod.

Changing the Display (HD Radio mode only)

Text information, such as Station name, Song title, Artist, etc., is displayed while receiving a digital radio station.

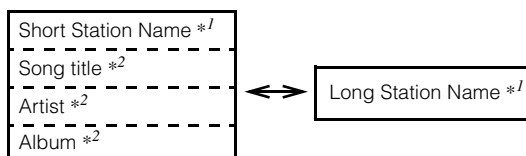
Display example for HD Radio main screen



- Ⓐ: The information display changes when the area is touched while displayed.

Touch the area (Ⓐ) on the HD Radio Tuner mode main screen.

Each time you touch this area, the display changes as shown below.



*1 Displays Short Station Name / Long Station Name in the Station Information Service Data.

*2 Displays Song title / Artist / Album in the main program Service Data.

Receiving a Multicast (HD Radio mode only)

Multicasting is the ability to broadcast multiple program streams over a single FM frequency. This increases the amount and diversity of content choices. A maximum of eight multicast station channels can be selected on this unit.

When a radio station multicast is received, the "MULTICAST" indicator lights.

1 Touch **[Q]** in the HD Radio Tuner mode.

The program list is displayed.

2 Touch the desired program type.

The selected program is received.

3 Touch **[▼]** or **[▲]** of **PROGRAM** on the function guide.

The sub channel of the received radio station is changed.

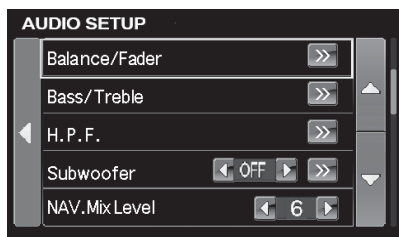
Other Useful Features

Adjusting the Audio

1 Press and hold **SETUP** for at least 2 seconds, the **SETUP** selection screen is displayed.

2 Touch **[>>]** of **Audio Setup**.
The **AUDIO SETUP** screen appears.

Display example for **Audio Adjustment Screen**

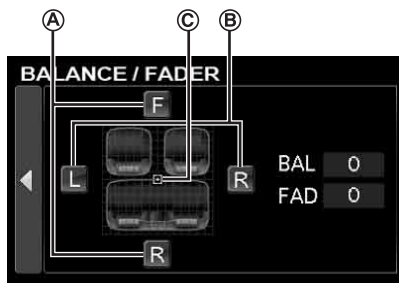


- Touching **[▲]** or **[▼]** will scroll the list one line at a time.
- Touch **[◀]** will change to the **SETUP** selection screen.
Touch and hold **[◀]** for at least 2 seconds will return to the main source screen that was displayed before the setup operation was started.
- The **A.Processor** menu items will differ depending on which optional audio processor is connected. The **IMPRINT** audio processor (PXA-H100) or **External Audio** processors may be used. For details, refer to “**IMPRINT Operation (Optional)**” (page 34) or “**External Audio Processor (Optional)**” (page 28).
- The **AUDIO SETUP** screen can also be activated directly by pressing **Ⓜ** (**SOUND/IMPRINT**).

Adjusting Balance/Fader

Touch **[>>]** of **Balance/Fader**, the adjusting screen of **Balance/Fader** will be displayed.

Display example for **BALANCE / FADER** Screen



Ⓐ Adjusting the Fader

Touch **[F]** or **[R]** to adjust the volume of the front and rear speakers.

Setting range: F15 to R15

- If an **IMPRINT** audio processor (PXA-H100) is connected to this unit and you have set the 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) switch of the **IMPRINT** audio processor (PXA-H100) to 2.2ch (3WAY), you cannot adjust the **FADER** mode. For details, refer to the **Owner's Manual of PXA-H100**.

Ⓑ Adjusting the Balance

Touch **[L]** or **[R]** to adjust the sound volume of the left and right speakers.

Setting range: L15 to R15

Ⓒ Adjusting the Balance/Fader Directly

Touch and move **[↔]** to a desired setting.

Or touch a desired setting range, and **[↔]** will move to that location.

Touch **[L]** or **[R]** of **Balance** and **[F]** or **[R]** of **Fader** for fine-tuning.

Turning Defeat ON or OFF

Touch **[▼]** to display the **Defeat** adjusting screen.

Touch **[◀]** or **[▶]** of **Defeat** to set to ON or OFF.

If you set the defeat to ON, MX of an external audio processor is turned OFF and EQ is returned to the initial setting.

Adjusting NAV. Mix Level

Touch **[◀]** or **[▶]** of **NAV. Mix Level** to adjust the volume of navigation interruption.

Setting range: 0 to 15

- This adjustment becomes available when **NAV. Mix** is turned on in “**Setting the Navigation Interruption**” (page 23).
- The setting navigation interruption is not displayed if an external audio processor not compatible with **NAV. Mix** is connected.

Adjusting the Subwoofer Level

Touch **[◀]** or **[▶]** of **Subwoofer** to set the subwoofer ON/OFF.

Touch **[>>]** to display the **Subwoofer** output adjusting screen after setting the **Subwoofer** to ON.

Touch **[◀]** or **[▶]** to adjust the **Subwoofer** output.

Setting range: 0 to 15

- When an external processor is connected, the display changes from “**Subwoofer**” to the “**SubW. LV**” item. You can change the subwoofer output level between 0 and 15 by touching **[◀]** or **[▶]**.
- The **Subwoofer System**, **Subwoofer Phase** and **Subwoofer Channel** may be set when an optional **IMPRINT** audio processor (PXA-H100) is connected, **Subwoofer** is set to ON, and **MultiEQ OFF** mode is selected. For details, refer to “**Setting the Subwoofer**” on page 38.

Adjusting H.P.F. (Highpass Filter)

Touch **[>>]** to display the **H.P.F.** adjusting screen.

Touch **[◀]** or **[▶]** of the desired speaker.

Setting range: OFF, 60 Hz, 80 Hz, 100 Hz

- Select **OFF** when no adjustment is required.
- When an external processor or **IMPRINT** audio processor (PXA-H100) is connected, the display changes from “**H.P.F.**” to the “**A.Processor**” item. For “**A.Processor**” operation, refer to “**External Audio Processor (Optional)**” on page 28 or “**IMPRINT Operation (Optional)**” on page 34.

Adjusting Bass/Treble

You can change the Bass/Treble frequency emphasis to create your own tonal preference.

Touch [>>>] to display the Bass/Treble adjusting screen.
Touch [▲] or [▼] on the scroll bar to scroll the setup items line by line.

- Adjustment cannot be performed when an external audio processor is connected and Defeat is set to ON.

Setting the Bass level

You can emphasize or weaken the bass frequency.

Touch [◀] or [▶] of Bass Level to select the desired bass level.

Setting range: -7 to +7

Setting the Bass Center Frequency

The displayed bass frequency is emphasized.

Touch [◀] or [▶] of Bass Freq. to select the desired bass center frequency.

Setting range: 60 Hz, 80 Hz, 100 Hz, 200 Hz

Setting the Bass Bandwidth

Changes the boosted bass bandwidth to wide or narrow. A wider setting will boost a wide range of frequencies above and below the center frequency. A narrower setting will boost only frequencies near the center frequency.

Touch [◀] or [▶] of Bass Bandwidth to select the desired bass band width.

Setting range: WIDE1 to WIDE4

- The bass level settings will be individually memorized for each source (FM, AM, CD, etc.) until the setting is changed. The bass frequency and bass bandwidth settings adjusted for one source are effective for all other sources (FM, AM, CD, etc.).

Setting the Treble Level

You can emphasize the treble frequency.

Touch [◀] or [▶] of Treble Level to select the desired treble level.

Setting range: -7 to +7

Setting the Treble Center Frequency

The displayed treble frequency is emphasized.

Touch [◀] or [▶] of Treble Freq. to select the desired treble center frequency.

Setting range: 10 kHz, 12.5 kHz, 15 kHz, 17.5 kHz

- The treble level settings will be individually memorized for each source (FM, AM, CD, etc.) until the setting is changed. The Treble frequency settings adjusted for one source are effective for all other sources (FM, AM, CD, etc.).

Setting the Loudness

Loudness introduces a special low- and high-frequency emphasis at low listening levels. This compensates for the ear's decreased sensitivity to bass and treble sound.

Touch [◀] or [▶] of Loudness to set to ON or OFF.

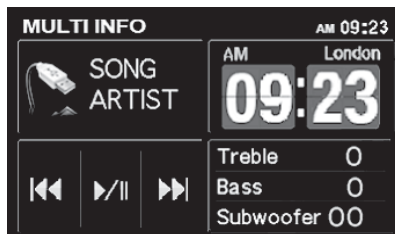
Multi Information Function

The Multi-Information display, allows the user to add up to 4 user selectable functions. These can be for viewing or operating from a single screen. See "MultiInfo Setup" on page 25 for item selections.

- 1 Press **⏻ SOURCE** to activate mode switching screen.
- 2 Slide the display horizontally with your finger or press ◀/▶ to select Multi Info mode, and then press **Q/ENTER**.

The Multi Information main screen is displayed.

Display example for Multi Information mode main screen



- The selected 4 items are displayed as small screens. If no item is selected, the default items will be displayed.

- 3 Touch the desired item to perform further operation.

- Depending on the selected items, full screen or half screen may be set, and in other cases, the screen size remains the same.

World Clock Display

The unit is equipped with a World Clock function. The local time of 4 major cities in the world can be displayed according to the time set on this unit. To use this function, please set the time of this unit (local time) and time zone of your district first. Refer to "Setting the Time" and "Setting the Time Zone" on page 21.

Display example for World Clock screen of Multi Information mode



- ① Time and Time Zone set on this unit.
- ② Time of 4 other cities ("00:00" is displayed before setting).
- ③ Returns to MULTI INFO main screen.

This unit can display the times in 4 major cities of the world. To show the time in the desired city, perform the following operations.

1 Touch one of the 4 clocks in ② area (see ② on the previous page).

The City selection screen will be displayed.

2 Click the continent that the desired city belongs to in the right column.

A list of city names of the selected continent will be displayed in the left column.

3 Touch the desired city name*.

4 Touch [X] to return to the world clock screen.

The name and clock of the selected city will be displayed.

5 Repeat the procedures to set other cities.

* For selectable cities, refer to "List of World Clock" on page 63.

Calendar

The Year, Month, Day and Week will be displayed.

- This item is only for reading and cannot be operated. For the setting of the Calendar, refer to "Setting the Calendar" on page 21.

Calculator

A 15-digit Calculator is provided to do simple math calculations. For instructions on how to use the calculator, refer to the owner's manual of commercially similar calculator.

- Addition, subtraction, multiplication and division calculations are performed in the order they are input. Multiplication and division have no priority.

Audio/Visual Information (AV Info)

Information of the playing Audio/Visual source will be displayed.

iPod mode

Audio mode: Artwork, song name and artist name of the current song is displayed.

Video mode: Video of the current song is displayed.

USB mode

Tag Information of the current song is displayed (Song name, Artist name).

Radio mode

The frequency of the current radio station is displayed.

HD Radio mode

The name and frequency of the current station is displayed.

SAT mode

Tag information of the current song is displayed (channel name, song name).

- This item is only for reading and cannot be operated.

Audio/Visual Controller (AV Cont)

Using this function, basic AV control of the Audio/Visual source is possible.

iPod/USB mode

The following control button will be displayed. For detailed operation, refer to "Playback" of USB Memory/Portable audio player on page 55 and "Playback" of iPhone/iPod on page 59.



Radio/HD Radio mode

The following control button will be displayed.



Touch **[DX SEEK]***¹ to choose the tuning mode.

SEEK*² (MANUAL) DX SEEK*² LOCAL SEEK*²



*¹ The button displays the current tuning mode.

*² For detailed operation of the buttons, refer to "Listening to the Radio" on page 11.

Sound Controller (Sound Cont.)

By this function, you can adjust Treble level, Bass level and Subwoofer level directly.

Adjusting Treble/Bass

1 Touch the dial of Treble/Bass to adjust the desired setting level.

Setting contents:

Treble level: -7 ~ +7

Bass level: -7 ~ +7

2 Touch **[X]** to return to Multi Information main screen.

Adjusting Subwoofer

1 Touch **[◀]** or **[▶]** of Subwoofer to adjust the desired setting level.

Setting contents:

Subwoofer level: 0 ~ 15

2 Touch **[X]** to return to Multi Information main screen.

- When you return to Multi Information main screen, the adjusted value of Treble level, Bass level and Subwoofer level will be displayed.
- This adjustment can also be made as described under "Setting the Bass level" (page 14), "Setting the Treble Level" (page 14), and "Adjusting the Subwoofer Level" (page 13).

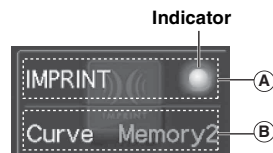
IMPRINT Controller

When the IMPRINT audio processor (PXA-H100) (sold separately) is connected to this unit, you can select the MultEQ mode by this function.

1 Touch **(A)** area to activate MultEQ mode.

The indicator lights up.

Touching **(A)** area again will cancel MultEQ mode.



2 After the indicator lights up, touch **(B)** area to switch to Memory 1 (Curve 1) mode and Memory 2 (Curve 2) mode.

- The above settings can also be made referring to "Changing MultEQ mode" on page 34.

Rear Entertainment Function

The rear entertainment function independently routes different sources to the front and the rear inside a car. For example, while listening to the radio or other audio source in the front, the video of iPhone/iPod can be enjoyed in the rear with the optional rear monitor and headphones.

1 Press **⏻ SOURCE**.

The mode switching screen is displayed.

2 Touch **[RSE]**.

Rear Select screen appears.

- Touching **[↵]** will return to mode switching screen.

3 Touch the desired source such as visual (Auxiliary Output) to select.

- When the "Setting the Picture Output" (page 24) is set to OFF, the "RSE" item is not displayed.

Switching Display Modes

While your vehicle is parked, touch **[WIDE]** on the visual source screen.

Each touch changes the display modes as follows:

MODE 1 → MODE 2 → MODE 3 → MODE 1
(WIDE) (CINEMA) (NORMAL) (WIDE)



In Mode 1 (Wide), the monitor displays a normal picture wider to fit in a wide-screen monitor by evenly stretching out the picture horizontally.



In Mode 2 (Cinema), the monitor displays a normal picture by stretching out the picture horizontally and vertically. This mode is good for displaying a cinema type picture at the 16:9 ratio.



In Mode 3 (Normal), the monitor displays a normal picture at the center of the screen with a vertical black band at each side.

Setup

Source Setup

Source Setup Operation

To display the Source mode screen:

To watch a video source, your vehicle must be parked with the ignition key in the ACC or ON position. To do this, follow the procedure below.

- 1 Bring your vehicle to a complete stop at a safe location. Engage the parking brake.
- 2 Keep pushing the foot brake and release the parking brake once then engage it again.
- 3 When the parking brake is engaged for the second time, release the foot brake.

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

Now, the locking system for the Source mode operation has been released. Engaging the parking brake can reactivate the Source mode, 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 Source mode screen."

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

The following steps 1 to 5 are common operations to each "Setting item" of Source Setup. Refer to each section for details.

- 1 Press and hold **SETUP** for at least 2 seconds. The SETUP selection screen is displayed.

- 2 Touch **[>>]** of Source Setup. The SOURCE SETUP screen appears.

- 3 Touch the title of your desired setup mode.

Radio Setup*¹ / Sirius Setup*² / Bluetooth Setup*³ / iPod Setup

*¹ Displayed when the optional HD Radio MODULE is connected.

*² Displayed when the optional SIRIUS receiver box is connected.

*³ Displayed when the optional BLUETOOTH INTERFACE (KCE-400BT) is connected and "Bluetooth IN" is set to ADAPTER (page 24).

- When the current source is HD Radio, SIRIUS, USB or iPod, you can also recall the SETUP list of the current source directly by pressing **SETUP**.

- 4 Touch **[<], [▶]** or **[>>]** etc., of the desired item to change its setting.

Radio Setup:

Digital Seek

Sirius Setup:

Alert List / Song Alert / Game Alert

Bluetooth Setup:

Paired Device / Device Search / Clear Device / Service Provider / Visible Mode / Auto Answer / Speaker Sel / Mic Input / Firmware Version / Firmware Update

- For Bluetooth Setup details, refer to “Bluetooth Setup” (page 42).

iPod Setup:

Playlists / Artists / Albums / Podcasts / Audiobooks / Genres / Composers / Songs / Skip Style

5 Touch [◀] to return to the previous screen.

Touch and hold [◀] for at least 2 seconds to return to the main source screen that was displayed before the setup operation was started.

Radio Setup

“Radio Setup” is selected on the source setup main menu in step 3.

Digital Seek Setting (HD Radio mode only)

Setting item: Digital Seek

- ON: SEEK UP/DOWN is used only for the digital radio station.
- OFF: SEEK UP/DOWN is used for DIGITAL and ANALOG radio stations. However, the strong signals have priority during SEEK.

SIRIUS Setup

The operation can be performed when the optional SIRIUS receiver box is connected. “Sirius Setup” is selected on the source setup main menu in step 3.

Setting the announcement individually for a Song/Artist/Sports Team

The following operation determines whether announcement is set or not for a stored Song, Artist or Sports team’s information is broadcast by another radio station.

Setting item: Alert List

1 Touch [➤] of the Alert List.

The display changes to the Alert List screen.

2 Touch [◀] or [▶] of the desired song(s), artist(s), or team. Set to ON if you want to receive ALERT announcement.

- Set to OFF if you do not want to receive an announcement. If Game Alert is set, touch [◀] or [▶] to select the interruption type (OFF/INITIAL/SCORE).

Setting ON/OFF of all Songs/Artists Interruption

Determines whether the received announcement of all stored Songs/Artists is set or not.

Setting item: Song Alert

- OFF: No announcements.
- ON: Set to receive announcements.

Setting the sports team announcement type

The following operation sets the announcement type for a stored sports team.

Setting item: Game Alert

1 Touch [◀] or [▶] of the Game Alert to select ON.

The received announcement for all stored sports teams is set. If OFF is set, no announcements will be made.

2 Touch [➤] of Game Alert.

The display changes to the Game Alert Setup screen.

3 Touch [➤] of the favorite league.

The display changes to the team list of the selected league.

4 Touch the favorite team.

The selection key ([◀], [▶]) is displayed.

5 Touch [◀] or [▶] of the desired announcement type.

INITIAL: Announces when a game starts.

SCORE: At the beginning of the game, the announcement interrupts; announces every time the score changes.

- Select “NONE” on the list and touch [OK?] if you do not want to store in memory. ALERT interruption does not occur.

iPod Setup

“iPod Setup” is selected on the Source setup main menu in step 3.

iPod Search Mode Setting

ON / OFF

The unit allows you to search for the iPhone/iPod using eight different search modes.

When the search mode is in Playlists/Artists/Albums/Podcasts/Audiobooks, the initial setting is ON, and when the search mode is in Genres/Composers/Songs, the initial setting is OFF.

- This setting item displays only when the optional iPhone/iPod is connected.
- Set at least one Search Mode to ON, and all the modes should not be set to OFF at the same time.
- For search mode details, refer to “Searching for a desired Song” (page 59).

Skip Style Setting

PAGE / ALPHABET / PERCENT

The unit is provided with a page skip/percent skip/alphabet skip function for effective searching. When you use this function in the search mode, you can quickly search an artist or a song, etc.

- For Skip Style function details, refer to “Page Skip Function/Percent Skip Function/Alphabet Skip Function” (page 60).
- This setting is effective to the search mode of USB memory, Portable audio player and iPhone/iPod.

Display Setup

Display Setup Operation

To display the Display mode screen:

To watch a video source, your vehicle must be parked with the ignition key in the ACC or ON position. To do this, follow the procedure below.

- 1 Bring your vehicle to a complete stop at a safe location. Engage the parking brake.
- 2 Keep pushing the foot brake and release the parking brake once then engage it again.
- 3 When the parking brake is engaged for the second time, release the foot brake.

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

Now, the locking system for the Display mode operation has been released. Engaging the parking brake can reactivate the Display mode, 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 Display mode screen." Each time the ignition is turned OFF, perform the procedure of "To display the Display mode screen."

The following steps 1 to 4 are common operations to each "Setting item" of Display Setup. Refer to each section for details.

- 1 Press and hold **SETUP** for at least 2 seconds.**
The SETUP selection screen is displayed.
- 2 Touch [**>>**] of Display Setup.**
The DISPLAY SETUP screen appears.
- 3 Touch [**<<**], [**>>**] or [**>>>**] etc., of the desired item to change its setting.**

Setting items:

Visual EQ*¹ / Dimmer / Dimmer Low Level / Background / Auto Background / Data Download*² / Screen Alignment / Display

*¹ Refer to "Visual EQ" on page 26.

*² Refer to "Downloading the Background data" on page 27.

- 4 Touch [**<<**] to return to the previous screen.**
Touch and hold [**<<**] for at least 2 seconds to return to the main source screen that was displayed before the setup operation was started.

- Immediately after changing the settings of Display Mode (While the system is writing data automatically) do not turn the ignition key (engine key) to OFF. Otherwise, the settings may not be changed.

Setting the Brightness of the Backlighting

Backlighting is provided by a fluorescent 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: OFF / ON / AUTO

- OFF: Deactivates Auto Dimmer mode to keep the background illumination of the monitor bright.
- ON: Keeps the background illumination of the monitor dark.
- AUTO: Adjusts the brightness of the background illumination of the monitor automatically to the brightness of the car interior.

- When ON or AUTO is set, the setting is also applied for the button lighting in "Adjusting the Dimmer of Button Lighting at Night" (page 21).

Adjusting the Minimum Level of Backlight

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

Setting item: Dimmer Low Level

Setting content: -15 to +15

You can adjust the level between -15 and +15.

Switching Background Textures

You have a choice of background textures you can set.

Setting item: Background

Setting contents: MODE1*¹ / MODE2*¹ / MODE3*¹ / MODE4*¹ / MODE5*² / MODE6*²

*¹ If Background is set to MODE 1-MODE 4, you can change the background skin to BLUE/RED/GREEN/AMBER, and they can't be replaced by "Downloading the Background data".

*² Wallpapers downloaded from "Downloading the Background data" (page 27) are recalled.

Setting Automatic Background Textures

The background texture will automatically change each time the ignition key is turned off and turned back on again.

Setting item: Auto Background

Setting contents: OFF / ON

- OFF: Turns off the Auto Background Texture Scroll mode.
- ON: Turns on the Auto Background Texture Scroll mode. The background textures will scroll when the ignition key is turned off once and turned back on again as follows:
MODE1 → MODE2 → MODE3 → MODE4 →
MODE5* → MODE6* → MODE1






* Wallpapers downloaded from "Downloading the Background data" (page 27) are recalled.

Adjusting the Touch Panel

Adjustment becomes necessary when the display position on the LCD and the touch position on the touch panel do not match.

Setting item: Screen Alignment

Setting contents:  / RESET

- 1 Touch [] of Screen Alignment. The adjustment screen appears.
 - 2 Accurately touch the  mark provided in the lower left corner of the screen. The screen changes to the adjustment screen.
 - 3 Accurately touch the  mark provided in the upper right corner of the screen. This completes adjustment, and returns to the DISPLAY setup mode screen.
- If you have touched a location other than the  mark, touch [RESET] to restore the adjustment screen to the initial setting.
 - If you touch [] on the adjustment screen, no adjustment is done and the Display setup screen is restored.

Display On and Off

You can turn off the screen display to reduce power consumption. This additional power enhances the sound quality.

Setting item: Display

Setting contents: OFF / ON

- If any button on the unit is pressed during display off mode, the screen will be displayed for 5 seconds to show the operation before returning to display off mode.

General Setup

General Setup Operation

To display the General mode screen:





To watch a video source, your vehicle must be parked with the ignition key in the ACC or ON position. To do this, follow the procedure below.

- 1 Bring your vehicle to a complete stop at a safe location. Engage the parking brake.
- 2 Keep pushing the foot brake and release the parking brake once then engage it again.
- 3 When the parking brake is engaged for the second time, release the foot brake.

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



Now, the locking system for the General mode operation has been released. Engaging the parking brake can reactivate the General mode, 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 General mode screen." Each time the ignition is turned OFF, perform the procedure of "To display the General mode screen."

The following steps 1 to 4 are common operations to each "Setting item" of General Setup. Refer to each section for details.

- 1 Press and hold **SETUP** for at least 2 seconds.**
The SETUP selection screen is displayed.
- 2 Touch [] of General Setup.**
The GENERAL SETUP screen appears.
- 3 Touch [, ] or [] etc., of the desired item to change its setting.**

Setting items:

Calendar Adjust / Clock / Clock Adjust / T/ZONE / Clock Mode / Daylight Saving Time / Beep / Auto Scroll / Language Select / LED Dimmer Level

- 4 Touch [] to return to the previous screen.**
Touch and hold [] for at least 2 seconds to return to the main source screen that was displayed before the setup operation was started.
- Immediately after changing the settings of General Mode (While the system is writing data automatically) do not turn the ignition key (engine key) to OFF. Otherwise, the settings may not be changed.

Setting the Calendar

Setting item: *Calendar Adjust*

Further setting items: *Year / Month / Day*

Setting contents: *2008-2099 / 1-12 / 1-31*

Year:	Adjust the year.
Month:	Adjust the month.
Day:	Adjust the day.

Displaying the Time

The clock indication on the monitor display is turned on or off respectively.

Setting item: *Clock*

Setting contents: *OFF / ON*

Setting the Time

Setting item: *Clock Adjust*

Further setting items : *Hour / Minute / Time Adjust*

Setting contents: *0-23 / 0-59 / RESET*

Hour:	Adjust the hour.
Minute:	Adjust the minute.
RESET:	If the clock shows less than 30 minutes past, the minute will be ": 0"; more than 30, the hour advances.

Setting the Time Zone

Adjustment becomes necessary when the "World Clock Display" of Multi Information Function is used, refer to page 14.

Setting item: *T/ZONE*

Select the time zone of your district. For the time zone, refer to "List of World Clock" (page 63).

- *Touch and hold [◀] or [▶] for at least 2 seconds will change the setting contents continuously.*

Setting the Clock Display

Setting item: *Clock Mode*

Setting contents: *12/24*

You can select the clock display type, 12-hour or 24-hour, depending on your preference.

Setting Daylight Saving Time

Setting item: *Daylight Saving Time*

Setting contents: *OFF / ON*

OFF:	Returns to the ordinary time.
ON:	Places the Summer Time mode ON. The time advances by one hour.

Sound (Beep) Guide Function

Setting item: *Beep*

Setting contents: *OFF / ON*

OFF:	Deactivates the Sound Guide mode. The sound guide beep will not be produced when a button on the unit is pressed.
ON:	Activates the Sound Guide mode.

Setting the Scroll

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

Setting item: *Auto Scroll*

Setting contents: *OFF / ON*

OFF:	Turns off the AUTO scroll mode. Scroll display is done once as a track is changed.
ON:	Turns on the AUTO scroll mode. Scroll display is repeated as long as the mode is turned on.

- *The display scrolls on the unit when the screen is filled up.*
- *Song, artist and album name, etc. scrolls when an iPhone/iPod is connected.*

Setting the Language

Seven types of font can be selected.

Setting item: *Language Select*

Setting contents: *CHI / JPN / ARA / THA / W-EU / RUS1 / RUS2*

CHI:	Chinese Font Display
JPN:	Japanese Font Display
ARA:	Arabic Font Display
THA:	Thai Font Display
W-EU:	Normal Font Display (ISO8859-1)
RUS1:	Russian Font Display (WINDOWS-1251)
RUS2:	European Font Display (WINDOWS-1252)

Adjusting the Dimmer of Button Lighting at Night

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

Setting item: *LED Dimmer Level*

Setting level: *-2 to +2*

System Setup

System Setup Operation

To display the System mode screen:

To watch a video source, your vehicle must be parked with the ignition key in the ACC or ON position. To do this, follow the procedure below.

- 1 Bring your vehicle to a complete stop at a safe location. Engage the parking brake.
- 2 Keep pushing the foot brake and release the parking brake once then engage it again.
- 3 When the parking brake is engaged for the second time, release the foot brake.

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

Now, the locking system for the System mode operation has been released. Engaging the parking brake can reactivate the System mode, 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 System mode screen." Each time the ignition is turned OFF, perform the procedure of "To display the System mode screen."

The following steps 1 to 4 are common operations to each "Setting item" of System Setup. Refer to each section for details.

1 Press and hold **SETUP** for at least 2 seconds.

The SETUP selection screen is displayed.

2 Touch [**>>**] of System Setup.

The SYSTEM SETUP screen appears.

3 Touch [**<**], [**>**] or [**>>**] etc., of the desired item to change its setting.

Setting items:

IN Int. Mute*¹ / IN Int. Icon / Remote Sensor*² / Camera IN / NAV. IN / NAV. Mix*³ / AUX IN / AUX OUT / Bluetooth IN / USB Adapter / AUX+ IN / AUX+ Level*⁴

*¹ Displayed only when Bluetooth IN is OFF.

*² When ON is set in "Setting the Picture Output" (page 24), the item is displayed.

*³ When ON is set in "Setting the Navigation Mode" (page 23), the item is displayed.

*⁴ Not displayed when OFF is set in "Setting the AUX+ Mode" (page 24).

4 Touch [**<**] to return to the previous screen.

Touch and hold [**<**] for at least 2 seconds to return to the main source screen that was displayed before the setup operation was started.

- Immediately after changing the settings of System Mode (while the system is writing data automatically) do not turn the ignition key (engine key) to OFF. Otherwise, the settings may not be changed.

Setting the External Device Interrupt Mode

If an Alpine Ai-NET Interrupt Box (NVE-K200) is connected to the unit, an Auxiliary Source will be allowed to interrupt the current audio source. For example, you can listen to the voice guidance of your navigation system when it occurs even while you are playing a song stored in the USB memory. The song will be automatically muted during voice guidance. For further details, please refer to the manual of NVE-K200.

Setting item: IN Int. Mute

Setting contents: OFF / ON

OFF: The volume level can be adjusted in Interrupt mode.

ON: Sound will not be output. The icon that is set in "Setting the Interrupt Icon Display" is displayed.

- The auxiliary device being connected must have an Interrupt wire with a negative trigger for this function to operate automatically. Otherwise, a separate switch needs to be added to switch it manually.

Setting the Interrupt Icon Display

The unit can display the icon of an external device, such as a telephone, whenever a phone call comes in to tell you there is a phone call.

Setting item: IN Int. Icon

Setting contents: INT / TEL

INT: The INT icon appears on the display.

TEL: When the external device (telephone) sends the interrupt signal, the telephone icon appears on the display.

Switching the function of the remote sensor

For optional remote control operation, the remote sensor of the external device (monitor, etc.) can be switched, as you prefer.

Setting item: Remote Sensor

Setting contents: FRONT / REAR

FRONT: The remote sensor of this unit is effective.

REAR: The remote sensor of the external monitor connected to AUX OUT of this unit becomes effective. The remote control operates the source connected to the AUX OUT terminals.

- If a touch screen monitor (connected to the Rear Monitor output using the Monitor control lead) is touched, the command is executed regardless of the remote control sensor setting. Note, however, that the remote control sensor that has been set takes priority if it has been 5 seconds since last touching the panel.
- When an optional DVD changer is connected, and the remote control sensor is set to REAR, some soft button operations ([**■**] STOP, etc.) cannot be performed. In this case, set the remote control sensor to FRONT.

Setting the Rear Camera Input

With a rear camera connected, rear view video is output to the monitor.

Setting item: Camera IN

Setting contents: OFF / DIRECT / RCA

- OFF: The Camera mode is not displayed in the mode switching screen.
- DIRECT: Use when the optional rearview camera HCE-C107D is connected.
- RCA: Use when connecting an optional rearview camera with RCA output connector.

- *By shifting to reverse (R), the rear pictures are output. This function is effective when the reverse wire is properly connected.*

Setting the Navigation Mode

When you connect an optional navigation device, set it to ON.

Setting item: NAV. IN

Setting contents: OFF / ON

- OFF: Navigation mode is not displayed. The settings related to the navigation can not be changed from this unit.
- ON: Navigation mode is displayed.

Setting the Navigation Interruption

With an Alpine navigation system connected to the iXA-W404, the voice guidance of the navigation system will be mixed with the radio or iPhone/iPod play.

Setting item: NAV. Mix

Setting contents: OFF / ON

- OFF: The navigation interruption mode is turned off.
- ON: The navigation interruption mode is on.

See "Adjusting NAV. Mix Level" under "Adjusting the Audio" on page 13 to set the navigation interruption volume level.

- *The volume level for voice prompts during navigation guidance is set by adjusting the volume while the prompts are announced. When the announcement finishes, the normal audio volume and the previous audio screen are restored. The voice prompt volume is always at or below the current listening volume. If a navigation announcement cuts in while adjusting the audio level, it always resets to the current level regardless of the audio level setting.*
- *This setting is effective when NAV. IN of SYSTEM list screen is ON.*

Setting the AUX Mode

Setting item: AUX IN

Setting contents: OFF / ON

- OFF: AUX source is not displayed.
- ON: AUX source is displayed.

- *OFF is not displayed when the optional DVD player or DVD changer is connected. During System setup, although the AUX name can be changed, it is not displayed on the Audio/Visual source selection screen.*
- *When OFF is selected, the settings related to AUX cannot be changed from this unit.*

Adjusting the AUX name Mode

After setting to ON in "Setting the AUX Mode", this setting can be carried out.

Setting items: Primary / Secondary^{*1}

Setting contents: OFF^{*2} / AUX^{*3} / DVD / GAME / TV / EXT.DVD / NAV. / DVD CHG / USB Video^{*3}

^{*1} *When a USB-Video box (sold separately) is connected, you can use it to connect one more External Input device. Setting the Secondary name can change the source name display of this device.*

^{*2} *The setting is only available for Secondary.*

^{*3} *The setting is only available for Primary.*

- *The selected source name is displayed instead of AUX source name.*
- *Second name can be set only when Primary name is set to USB Video.*
- *Only when an Alpine TV tuner is connected, you can operate the displayed function guide from this unit.*

Adjusting the External Input Audio Level

After setting to ON in "Setting the AUX Mode", this setting can be carried out.

Setting item: Level

Setting contents: LOW / HIGH

- LOW: Decreases the external input audio level.
- HIGH: Increases the external input audio level.

Switching the Visual Input Signal System

After setting to ON in "Setting the AUX Mode", this setting can be carried out.

Setting item: Signal

Setting contents: NTSC / PAL / AUTO

- NTSC/PAL: Choose the video input signal type manually.
- AUTO: The suitable video input signal type will be automatically chosen between NTSC and PAL.

- *The video input type can be changed.*
- *When set to AUTO, unstable display may occur while playing back certain black and white video signal. In this case, select NTSC or PAL mode manually.*

Setting the Picture Output

Outputs the picture of the source selected on the iXA-W404 connected to the rear monitor.

Setting item: AUX OUT

Setting contents: OFF / ON

- OFF: The "RSE" item is not displayed on the mode switching screen.
- ON: The "RSE" item is displayed on the mode switching screen.
Touch [RSE] to change to the REAR selection screen, and then touch the desired source. The selected source picture is output on the rear monitor.

Setting the Bluetooth Connection (Bluetooth IN)

Setting item: Bluetooth IN

Setting contents: OFF / ADAPTER / NAV.

- OFF: Select to ignore any external interrupts.
- ADAPTER: Select when the optional BLUETOOTH INTERFACE (KCE-400BT) is connected.
The TEL screen of the Bluetooth is displayed.
When an external interruption occurs, the display changes to the TEL screen.
- NAV.: Select when the optional portable navigation is connected.
The TEL screen of the portable navigation is displayed.

- *When this unit is connected to the optional BLUETOOTH INTERFACE (KCE-400BT), Bluetooth IN is not set to NAV.*
- *For details on Bluetooth operation, refer to the Owner's Manual of the BLUETOOTH INTERFACE (KCE-400BT).*
- *If the mobile phone compatible with the Voice Dial function is connected, the Voice Dial function can be used.*

Setting the USB Adapter to ON/OFF

If a USB Adapter is to be used, set to ON.

Setting item: USB Adapter

Setting contents: OFF / ON

- OFF: Does not display the USB source name on the Audio/Visual source selection screen.
 - ON: Displays the USB source name on the Audio/Visual source selection screen.
- *If ON is set even when a CD changer is connected the source name on the Audio/Visual source selection screen will change from CD CHG. to USB.*

Setting the AUX+ Mode

An external device (such as a portable music player) can be connected to the Bluetooth interface connector of this unit. A special Conversion cable (KCE-237B) is necessary to adapt the Bluetooth interface connector as an AUX IN.

Setting item: AUX+ IN

Setting contents: OFF / ON

- OFF: AUX+ source is not displayed.
 - ON: AUX+ source is displayed.
- *When OFF is selected, the settings related to AUX+ cannot be changed from this unit.*
 - *Only when an Alpine TV tuner is connected, you can operate the displayed function guide from this unit.*

Adjusting the AUX+ Audio Level

After setting to ON in "Setting the AUX+ Mode", this setting can be carried out.

Setting item: AUX+ Level

Setting contents: LOW / HIGH

- LOW: Decreases the external input audio level.
- HIGH: Increases the external input audio level.

MultInfo Setup

MultInfo Setup Operation

To display the MultInfo mode screen:

To watch a video source, your vehicle must be parked with the ignition key in the ACC or ON position. To do this, follow the procedure below.

- 1 Bring your vehicle to a complete stop at a safe location. Engage the parking brake.
- 2 Keep pushing the foot brake and release the parking brake once then engage it again.
- 3 When the parking brake is engaged for the second time, release the foot brake.

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

Now, the locking system for the MultInfo mode operation has been released. Engaging the parking brake can reactivate the MultInfo mode, 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 MultInfo mode screen." Each time the ignition is turned OFF, perform the procedure of "To display the MultInfo mode screen."

The following steps 1 to 6 are common operations to each "Setting item" of MultInfo Setup. Refer to each section for details.

1 Press and hold **SETUP** of the unit for at least 2 seconds.

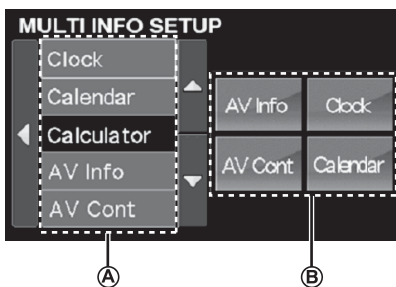
The SETUP selection screen is displayed.

2 Touch [**>>**] of MultInfo Setup.

The MULTI INFO SETUP screen appears.

- While in Multi Information mode, you can also recall MULTI INFO SETUP screen directly by pressing **SETUP**.

Display example for MULTI INFO SETUP screen



- Ⓐ Displays the MultInfo item selection list.
- Ⓑ Displays the selected MultInfo item. (If no item is selected, the default items will be displayed.)

3 Touch [**▲**] or [**▼**] until the desired item is displayed in the Ⓐ list.

Setting items:

Clock / Calendar / Calculator / AV Info / AV Cont / Sound Cont. / IMPRINT*

- * You can set this item only when an IMPRINT audio processor (PXA-H100) is connected.

4 Touch the desired item.

(e.g. touch [Calendar])

5 Touch a present item in Ⓑ that you want to replace.

(e.g. [AV Cont])

The newly-selected item will replace the present one and is displayed in Multi Information main screen.

(e.g. AV Controller will be replaced as Calendar)

6 Touch [**◀**] to return to the previous screen.

Touch and hold [**◀**] for at least 2 seconds to return to the main source screen that was displayed before the setup operation was started.

- For detailed content and operations of the selected MultInfo item, refer to "Multi Information Function" on page 14.
- The selected item in the Ⓐ list is shown as ineffective (inoperative) status.
- You can drag item in the Ⓑ directly to change the display position of the 4 small screens.

Visual EQ

Visual EQ Setting Operation

The following steps 1 to 3 are common operations to each "Setting item" of Visual EQ setting. Refer to each section for details.

1 After steps 1 and 2 in "Display Setup Operation" (page 19) have been performed, touch [>>>] of Visual EQ.

Visual EQ screen appears.

2 Touch [<] or [>] etc., of the desired item to change its setting.

Setting items:

BK RICH ↔ Visual EQ ↔ Bright ↔ Color ↔ Tint ↔ Contrast ↔ Sharp ↔ User Memory

- The items can be changed by touching [▲]/[▼] or rotating the Double Action encoder.

3 Touch [<] to return to the previous screen.

Touch and hold [<] for at least 2 seconds to return to the main source screen that was displayed before the setup operation was started.

- Only one setting item can be displayed on each page, you can select the desired brightness, picture tint, etc. through the screen shown.

Black Richness Function (BK RICH)

This function allows the Black Richness Level (deeper blacks) of a dark scene to be adjusted.

Setting item: BK RICH

Setting contents: OFF / 1 / 2 / 3 / 4 / 5

You can adjust the level of picture adjustment effectiveness between 1 and 5. (The darkness increases gradually from level 1 to 5.)

Selecting the Visual EQ Mode (Factory setting)

You can select a mode suitable for the subject image.

Setting item: Visual EQ

Setting contents: OFF (FLAT) / NIGHT M. / SOFT / SHARP / CONTRAST / P-1 / P-2

OFF (FLAT): Initial Setting

NIGHT M.: 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.

P-1: Recalls the Visual EQ mode being stored on preset No.P-1 from "Storing Visual EQ" (page 27).

P-2: Recalls the Visual EQ mode being saved on preset No.P-2 from "Storing Visual EQ" (page 27).

- To return to the initial setting after selecting any one of the setting contents (NIGHT M. to CONTRAST) and adjusting a desired brightness, picture tint, etc., set this function to OFF.
- If your desired brightness, picture tint, etc., are adjusted after selecting any one of the setting contents (NIGHT M. to CONTRAST), "CUSTOM" is displayed.

Adjusting Brightness

Setting item: Bright

Setting content: -15 ~ +15

You can adjust the brightness between -15 and +15.

- When any Visual EQ Preset is selected, the brightness is automatically adjusted according to the car's interior lighting as long as AUTO is set in "Setting the Brightness of the Backlighting" (page 19).

Adjusting Color of Picture

Setting item: Color

Setting content: -15 ~ +15

You can adjust the color between -15 and +15.

- When a Navigation system with the RGB feature is connected, although the setting can be operated, the color of picture will not change.

Adjusting Tint of Picture

Setting item: Tint

Setting content: -15 ~ +15

You can adjust the color between -15 and +15.

- When a Navigation system with the RGB feature is connected, although the setting can be operated, the tint of picture will not change.
- When visual input signal system is PAL, although the setting can be operated, the tint of picture will not change.

Adjusting Image Contrast

Setting item: Contrast

Setting content: -15 to +15

Contrast adjustment range is -15 to +15.

Adjusting Sharpness

Setting item: Sharp

Setting content: -15 to +15

Sharpness adjustment range is -15 to +15.

- When a Navigation system with the RGB feature is connected, although the setting can be operated, the sharpness of picture will not change.

Storing Visual EQ

You can store the settings made for “Adjusting Image Brightness, Tint, Depth, Picture Quality and Contrast.”

Setting item: User Memory

Setting contents: P-1 / P-2

- 1 After completing “Adjusting Brightness, Tint, Depth, Sharpness, and Contrast” (pages 26, 27), touch [◀] or [▶] of User Memory and then select preset No. “P-1” or “P-2” to which the settings are to be stored.
 - 2 After selecting a preset No., touch [MEMORY].
The adjusted Visual EQ mode is stored by the above operations.
- You can recall the Visual EQ mode stored here from P-1 or P-2 of “Selecting the Visual EQ Mode (Factory setting)” (page 26).

Data Download

Downloading the Background data

You can download data (from Alpine’s website) to a USB Memory (optional) (data is written in the root folder), and store the data to the iXA-W404.

To start Background download, access the URL below and follow the on-screen instructions.

<http://www.alpine.com> or <http://www.alpine-europe.com>
or <http://www.alpine.com.au>

- 1 **Insert the USB Memory that only contains the Background data you need.**
 - 2 **Touch [◀] or [▶] of Data Download, then select USER1 or USER2.**
The selected wallpaper can be changed.
 - 3 **Touch [⏪] of Data Download.**
Data search of the USB memory starts. After completing the data search, the file selection screen of Data Download is displayed.
 - 4 **Touch [▲] or [▼] to select the desired file name.**
 - 5 **Touch [MEMORY].**
Data download starts.
When data downloading has completed correctly, the screen returns to the DATA DOWNLOAD screen.
 - 6 **Touching [◀] returns to the previous screen.**
Touch and hold [◀] for at least 2 seconds returns to the earlier main source screen.
- For details about procedures of download, see ALPINE’s Web site.
 - If data is newly downloaded, the data overwrites the previous data.
 - The downloaded data will not be deleted even when the battery power cord is removed.
 - You can recall a wallpaper in “Switching Background Textures” (page 19), or “Setting Automatic Background Textures” (page 20).
 - When download has completed, remove the USB Memory.

External Audio Processor (Optional)

A compatible, external audio processor is operable from this unit when connected. Some audio processors may require a wired controller. The explanations below use the PXA-H700/PXA-H701 as an example. Refer to the operating instructions of the audio processor for more details.

- The adjustments or settings performed on the connected audio processor cannot be operated properly from this unit.
- The setting "Setting the Speakers", "Setting Bass Sound Control", and "Graphic Equalizer Adjustments" are not available if the MRA-D550 is connected. Additionally, if the MRA-F350 or MRA-F355 is connected, the following setting "Setting the MX Mode of the External Audio Processor" is not available. Also, the setting content differs between the PXA-H700 and PXA-H701.
- This unit cannot be connected to the PXA-H510 and PXA-H900.

To display the Audio processor mode screen:

To watch a video source, your vehicle must be parked with the ignition key in the ACC or ON position. To do this, follow the procedure below.

- 1 Bring your vehicle to a complete stop at a safe location. Engage the parking brake.
- 2 Keep pushing the foot brake and release the parking brake once then engage it again.
- 3 When the parking brake is engaged for the second time, release the foot brake.

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

Now, the locking system for the Audio processor mode operation has been released. Engaging the parking brake can reactivate the Audio processor mode, 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 Audio processor mode screen." Each time the ignition is turned OFF, perform the procedure of "To display the Audio processor mode screen."

Adjustment Procedure for Dolby Surround

Make the adjustments described below in order to reproduce Dolby Digital and DTS sound with greater accuracy.

Adjustment procedure

- 1 **Speaker Setup (page 33)**
(Turning the speakers to be used on and off and setting their response)
↓
- 2 **Adjusting the speaker levels (page 33)**
(Adjusting the signal output level to the various speakers)
↓
- 3 **Mixing bass sound to the rear channel (page 33)**
(Achieving smooth sound in the rear seat by mixing the front audio signals with the rear speaker signals)
↓
- 4 **Adjusting the acoustic image (page 33)**
(Adjusting the acoustic image to achieve a sound as if the center speaker were directly in front of the listener)
↓
- 5 **Achieving powerful high volume sound (page 33)**
(Achieving energetic sound with even greater power, like the sound in a movie theater)
↓
- 6 **Adjusting the DVD Level (page 34)**
(Adjust the volume (signal level) in the Dolby Digital, Pro Logic II, DTS and PCM modes)
↓
- 7 **Storing Settings in the Memory (page 34)**
(Storing all the settings and adjustments made on the iXA-W404 (not only the above settings/adjusts) in the memory)

In case of combining the Automatic adjustments etc.

We recommend to make the Automatic adjustments before the Dolby Surround adjustments.

Setting the A.Processor

1 Check that Defeat mode is off (page 13).

2 Press and hold **SETUP** for at least 2 seconds.

The SETUP selection screen is displayed.

3 Touch [**>>**] of **Audio Setup**.

The AUDIO SETUP screen appears.

- The **AUDIO SETUP** screen can also be activated directly by pressing **⏸** (**SOUND/IMPRINT**).

4 Touch [**>>**] of **A.Processor**.

The A.PROCESSOR list screen appears.

5 Touch [**<**], [**>**] or [**>>**] etc., of the desired item to change its setting.

Setting items:

Media Xpander / Bass Sound Cont. / DOLBY PLII / REAR FILL / X-Over / T.Corr / Phase / G-EQ / P-EQ / Speaker Select / Multi CH Setup / Speaker Setup / DVD Level / PCM Mode

- Touch [**<**] to return to the previous screen.
- Touch and hold [**<**] for at least 2 seconds to return to the main source screen that was displayed before the setup operation was started.

Setting the MX Mode of the External Audio Processor

Before performing the operations below, set MX (Media Xpander) mode of the PXA-H700 to "AUTO" when the PXA-H700 is connected.

Setting item: Media Xpander

1 Select **ON** or **OFF** of **MX** by touching [**<**] or [**>**] of **Media Xpander**.

OFF: Turns off the MX effect of every music source.

ON: Turns on the specified MX mode.

2 Touch [**>>**] after setting to **ON**.

The Media Xpander setup screen appears.

3 Touch [**<**] or [**>**] of the desired **MX** mode.

- Music source (such as radio broadcasts and CDs, excluding AM radio) level can be set.

MX CD (OFF, CD MX 1 to 3)

CD mode processes a large quantity of data. This data is used to reproduce the sound cleanly by making use of the data quantity.

MX CMPM (OFF, CMPM MX 1 to 3) / MX SAT (OFF, SAT MX 1 to 3)

This corrects information that was omitted at the time of compression. This reproduces a well-balanced sound close to the original.

MX FM (OFF, FM MX 1 to 3)

The medium to high frequencies become more clear, and produces well balanced sound in all the bands.

MX DVD (OFF, MOVIE MX 1 to 2)

The dialog portion of the video is reproduced more clearly.

(DVD MUSIC)

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

MX AUX (OFF, CMPM MX, MOVIE MX, MUSIC MX)

Choose the MX mode (CMPM, MUSIC, or MOVIE) that corresponds to the media connected.

- The contents of MX set here is reflected to PXA-H700 or PXA-H701.
- When **OFF** is selected, MX effect of each MX mode will be **OFF**.
- Each music source, such as radio, CD and MP3 can have its own MX setting.
- MX mode does not function when MX is **ON** for AM radio.
- MX **CMPM** is applied for MP3/WMA/AAC and iPhone/iPod.
- MX **SAT** is applied for XM, SIRIUS and HD Radio.
- The MX setting can be performed only when a source is currently selected.

Setting Bass Sound Control

Setting item: Bass Sound Cont.

Setting Bass Compressor

You can adjust the sound of low frequencies as desired.

Touch [**<**] or [**>**] of **Bass Comp.** to select the desired mode.

Bass sound is emphasized more as the mode is sequentially switched as **MODE 1** → **2** → **3**, offering you vivid low frequencies.

Select **OFF** when the setting is not necessary.

Setting Bass Focus

Using the previously specified delay number (time difference) allows you to set a time difference between the front-rear/left-right speakers. Namely, it enables a time correction based on your preference. With an initial delay of 0.05 ms for each of the 0 to 400 steps, audible time correction can be achieved.

Set the delay number in the front and rear, and on the right and left of the desired speaker by touching the respective [**<**] or [**>**] button.

- Any setting in **Bass Focus** is applied in time correction, too (page 31).

Using the Pro Logic II Mode

Pro Logic processing can be conducted on the music signals recorded on two channels to achieve Dolby Pro Logic II surround sound. For two-channel Dolby Digital and DTS signals, there is also a “REAR FILL” function for outputting the signals of the front channel to the rear channel.

Setting item: DOLBY PLII/REAR FILL

Touch [◀] or [▶] of DOLBY PLII/REAR FILL to select the desired mode.

- PL II MOVIE: Applicable for all stereo video programming. It also works well with programs encoded with Dolby Surround. The processed sound-field approaches that of discrete 5.1 channel sound.
- PL II MUSIC: Can be used for all stereo music recordings, and provides a wide, deep sound field.
- OFF: Turns DOLBY PL II function to OFF.

If PL II MUSIC is selected, the center width can be adjusted with following operations.

This function offers the optimum vocal position by adjusting the center channel position between the center speaker and the L/R speaker. (The adjustments established in “Adjusting the acoustic image (Bi-Phantom)” (page 33) are ineffective while this function is activated.)

Touch [◀] or [▶] of Center Width Cont. to adjust the level. The level can be adjusted between 0 to +7. When the level increases, the center channel position moves from the center speaker position to both sides.

Touch [OFF] of Center Width Cont. to turn off the center width control.

- This adjustment is effective when the setting of the center speaker is SMALL or LARGE in the speaker setup settings (page 33).
- “REAR FILL” function:
Depending on the input signals, the sound may only be output from the front speakers. In this case, the “REAR FILL” function can be used to output signals from the rear speakers as well.
- Avoid stopping, pausing, switching the disc, cueing, fast-forwarding or switching the audio channel of this unit while making this adjustment. The setting is canceled if the Decode mode is switched.
- This adjustment is ineffective when the speaker is set CENTER to OFF in “Setting the Speakers” (page 32).
- This function only works with two-channel signals. This operation is ineffective when 5.1-channel DTS or Dolby Digital signals are input.
- If the setting of REAR FILL is made when REAR MIX is ON, sound is unchanged in the rear fill setting because REAR MIX is given priority during 2 channel decoder other than linear PCM.
- For linear PCM signals, the voice is output from the rear speaker regardless of the REAR FILL and REAR MIX setting.

X-Over Adjustment

Setting item: X-Over

1 Touch [◀] or [▶] of X-Over to select L+R or L/R.

L+R: Sets the same adjustment values for the left and right channels.

L/R: Different adjustment values can be set for the left and right channels.

2 Touch [≫] of X-Over.

A speaker list on the X-Over screen is displayed.

3 Touch [≫] of the speaker to be adjusted.

The screen changes to the X-Over screen to be adjusted.

4 Adjust the crossover to your preference.

Selecting the Cut-Off Frequency

Touch [◀] or [▶] of Freq., then select the cut-off frequency (crossover point).

The adjustable bandwidth differs depending on the speaker (channel).

Adjusting the Level

Touch [◀] or [▶] of Level, then adjust the HPF or LPF level.

Adjusting the Slope

Touch [◀] or [▶] of Slope, then adjust the HPF or LPF slope.

- When the speaker is set to the “OFF” mode, the X-Over for that speaker cannot be set. Refer to “Setting the Speakers” (page 32).
- Check the playback frequencies of the connected speakers before adjusting.
- In order to protect the speakers, there is no OFF setting for the subwoofer low pass filter (the slope remains the same).
- The HPF SLOPE cannot be turned OFF if Tweeter (TW) is selected for Front 1. If STEREO is selected for the subwoofer, this adjustment is not available.

Performing Time Correction Manually (T.Corr)

Because of the particular conditions inside the vehicle, there can be major differences in the distances between the various speakers and the listening position. It is possible to calculate the optimum correction values and eliminate the time error at the listening position yourself using this function.

Setting item: T.Corr

1 Sit in the listening position (the driver's seat, for example) and measure the distance (in metres) between your head and the various speakers.

2 Calculate the difference in distance between the farthest speaker and the other speakers.

$$L = \begin{aligned} & \text{(distance of farthest speaker)} \\ & - \text{(distance of other speakers)} \end{aligned}$$

3 Divide the distances calculated for the different speakers by the speed of sound (343 m/s temperature 20°C).

This value is the time correction value for the various speakers.

Concrete examples

Calculating the time correction value for the front left speaker on the diagram below.

Conditions:

Distance between farthest speaker and listening position:
2.25 m (88-3/4")

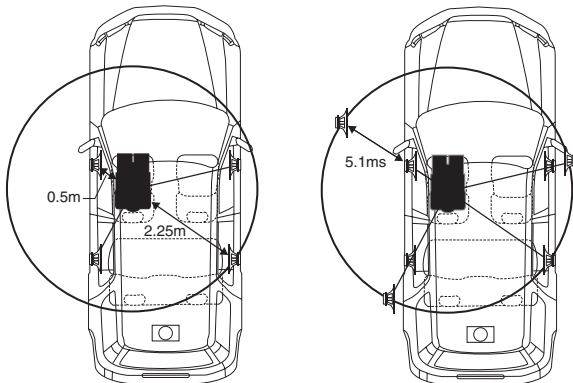
Distance between front left speaker and listening position:
0.5 m (20")

Calculation:

$$L = 2.25 \text{ m (88-3/4")} - 0.5 \text{ m (20")} = 1.75 \text{ m (68-3/4")}$$

Compensation time = $1.75 \div 343 \times 1000 = 5.1 \text{ (ms)}$

In other words, setting the time correction value for the front left speaker to 5.1 (ms) sets a virtual distance matching the distance to the farthest speaker.



The sound is uneven because the distance between the listening position and the different speakers is different. The difference in the distance between the front left and rear right speakers is 1.75 metres (68-3/4").

Time correction eliminates the difference between the time required for the sound from the different speakers to reach the listening position. Setting the time correction of the front left speaker to 5.1 ms makes it possible to coordinate the distance from the listening position to the speaker.

4 Touch [◀] or [▶] of T.Corr.

Select L+R or L/R.

L+R: Sets the same adjustment values for the left and right channels.

L/R: Different adjustment values can be set for the left and right channels.

5 Touch [≫] of T.Corr.

The T.Corr adjustment screen appears.

6 Adjust the time correction value (0.00 ~ 20.00ms) of a desired speaker by touching the respective [◀] or [▶] button (1 step = 0.05ms).

- When the speaker is set to the "OFF" mode, the TCR for that speaker cannot be set. Refer to "Setting the Speakers" (page 32).
- The adjustment value for FRONT2 (Speakers) which is adjusted in time correction, is also applied to the front speakers in "Setting Bass Focus" (page 29).
- The adjustment (AUTO TCR) cannot be automatically set on this unit.

Phase Switching

Setting item: Phase

Switch the phase (0° or 180°) by touching [◀] or [▶] of the desired speaker.

Graphic Equalizer Adjustments

The graphic equalizer allows you to modify the sound using 31 bands each for the front (left and right), rear (left and right) and center speakers. An additional 10 bands are available for the subwoofer. This allows you to customize the sound to suit your taste.

Setting item: G-EQ

1 Select L+R or L/R by touching [◀] or [▶] of G-EQ.

L+R: Sets the same adjustment values for the left and right channels.

L/R: Different adjustment values can be set for the left and right channels.

When parametric EQ is adjusted, this setting will be turned off.

2 Touch [≫] of G-EQ.

The G-EQ list screen appears.

3 Touch [≫] of the desired speaker (channel).

The G-EQ adjustment screen appears.

4 Adjust the G-EQ to your preference.

Adjusting the Level

Touch [◀] or [▶] of the desired frequency to adjust the level.

- When the speaker is set to the “OFF” mode, the graphic equalizer for that speaker cannot be set. Refer to “Setting the Speakers” (page 32).
- Check the playable frequency ranges of the connected speakers before making the equalizer adjustments. If the speaker’s playable frequency range is 55 Hz to 30 kHz, for example, adjusting the 40 Hz or 20 Hz band has no effect. Additionally, you may overload and damage the speakers.
- When graphic EQ is adjusted, the adjustment for parametric EQ becomes ineffective.

Parametric Equalizer Adjustments

The frequency bands of the graphic equalizer are fixed. This makes it very difficult to correct for undesired peaks and dips at specific frequencies. The parametric equalizer’s center frequency can be tuned to these specific frequencies. Then, the bandwidth (Q) and level are fine-tuned, independently, to make the necessary corrections. The parametric equalizer function is an advanced tool for serious audiophiles.

Setting item: P-EQ

1 Select L+R or L/R by touching [◀] or [▶] of P-EQ.

L+R: Sets the same adjustment values for the left and right channels.

L/R: Different adjustment values can be set for the left and right channels.

When graphic EQ is adjusted, this setting will be turned off.

2 Touch [≫] of P-EQ.

The P-EQ list screen appears.

3 Touch [≫] of the desired speaker (channel).

The P-EQ adjustment screen appears.

4 Adjust the P-EQ to your preference.

Selecting the Band

Touch [◀] or [▶] of BAND to select the desired band.

Adjusting the Frequency

Touch [◀] or [▶] of Freq. to adjust the frequency of the selected band.

Adjusting the Level

Touch [◀] or [▶] of Level to adjust the level of the selected band.

Setting the Bandwidth

Touch [◀] or [▶] of Q to select the bandwidth.

- When the speaker is set to the “OFF” mode, the parametric equalizer for that speaker cannot be set. Refer to “Setting the Speakers” (page 32).
- It is not possible to adjust the frequencies of adjacent bands within 8 steps.
- Check the playable frequency ranges of the connected speakers before making the equalizer adjustments. If the speaker’s playable frequency range is 55 Hz to 30 kHz, for example, adjusting the 40 Hz or 20 Hz band has no effect. Additionally, you may overload and damage the speakers.
- When the parametric EQ is adjusted, the adjustment for graphic EQ becomes ineffective.

Setting the Speakers

Setting item: Speaker Select

Set the connected speaker by touching the respective [◀] or [▶] button.

Front1:	OFF/FULL (Full Range)/TW (Tweeter)
Front2:	OFF/ON
Rear:	OFF/ON
Center:	OFF/ON
SubW.:	OFF/MONO/STEREO

- Set the speaker which is not connected to OFF.
- Settings above can be carried out even when the speaker is set to OFF in “Speaker Setup” (page 33).
- To use the subwoofer in MONO with PXA-H700 or PXA-H701 connected, connect the subwoofer to the subwoofer output terminal of PXA-H700 or PXA-H701.

Setting of Dolby Digital

Setting item: Multi CH Setup

Adjusting the acoustic image (Bi-Phantom)

In most installations, the center speaker must be placed directly between the front passenger and driver. Using this function, the center channel information is distributed to the left and right speakers. This creates an acoustic image simulating a center speaker directly in front of each listener. Adjusting the center width in PL II MUSIC (see "Using the Pro Logic II Mode" on page 30), makes this function ineffective.

- *Avoid stopping, pausing, switching the disc, cueing, fast-forwarding or switching the audio channel of this unit while making this adjustment. The setting is canceled if the Decode mode is switched.*

Touch [◀] or [▶] of Bi-Phantom to adjust the level.

The level can be adjusted within the range of -5 to +5. The higher the level, the more the position of the center speaker is shifted to the sides.

The Bi-Phantom function is turned off by touching [OFF].

- *This adjustment is effective when the setting of the center speaker to SMALL or LARGE in the speaker setup settings.*
- *This adjustment is ineffective when the speaker is set CENTER to OFF in "Setting the Speakers" (page 32).*

Mixing bass sound to the rear channel (Rear MIX)

This function mixes the front channel audio signals to the audio signals output from the rear speakers, improving the sound in the vehicle's rear seat.

- *Avoid stopping, pausing, switching the disc, cueing, fast-forwarding or switching the audio channel of this unit while making this adjustment. The setting is canceled if the Decode mode is switched.*

Touch [◀] or [▶] of Rear MIX to adjust the level.

The level can be adjusted in five steps: -6, -3, 0, +3 and +6. The higher the level, the more bass is output from the rear speakers. (The effect differs according to the software (DVD, etc.).)

The Rear MIX function is turned off by touching [OFF].

- *This adjustment is ineffective when the rear speaker setup setting is set to "OFF".*
- *For linear PCM signals, the voice is output from the rear speaker regardless of the Rear Fill and Rear MIX setting.*

Achieving powerful high volume sound (Listening Mode)

With Dolby Digital, the dynamic range is compressed so that powerful sound can be achieved at regular volume levels. This compression can be canceled to achieve an energetic sound with even greater power, like the sound in a movie theater. This function works only in the Dolby Digital mode.

Touch [◀] or [▶] of Listening Mode to select STD or MAX.

STD.: For powerful sound at regular volume levels

MAX.: For powerful sound at high volumes

- *Keep the volume to a level at which sounds outside the vehicle can still be heard.*

Adjusting the speaker levels (Output Level)

The test tones help to make the volume adjustments of the different speakers. When levels are equal, a strong sense of presence can be heard from the different speakers at the listening position.

- *Avoid stopping, pausing, switching the disc, cueing, fast-forwarding or switching the audio channel of this unit while making this adjustment. The setting is canceled if the decode mode is switched.*

- 1 Touch [ON] of Output Level.

Test tone output is repeated for each of the different speaker channels. They will be repeated in the order shown below.

If no operation is performed for 2 seconds, the channel switches to the next channel.

Left → Center → Right → Right Surround →
Left Surround → Left

- 2 While the test tone is being produced from the speakers, touch [◀] or [▶] of Output Level balance the output from all the speakers.

- The adjustment range for the different speakers is -10 dB - +10 dB.
- Adjust based on the front speakers.

- 3 Touch [ON] again to turn off.

- *If a speaker is set to off mode, that speaker's level adjustment cannot be made. Refer to "Speaker Setup" (page 33).*

Speaker Setup

The PXA-H700 or PXA-H701 can be set according to the playable frequency range of your speakers.

Check the playable frequency range of the speakers (not including the subwoofer) before performing this operation to verify whether the speakers can play low frequencies (of about 80 Hz or less).

- *Avoid stopping, pausing, switching the disc, cueing, fast-forwarding or switching the audio channel of this unit while making this adjustment. The setting is canceled if Decode mode is switched.*

Setting item: Speaker Setup

Select the speaker characteristic by touching [◀], [▶] of the desired speaker setting.

OFF*¹: When no speaker is connected.

SMALL: When a speaker that cannot play low frequencies (80 Hz or less) is connected.

LARGE*²: When a speaker that can play low frequencies (80 Hz or less) is connected.

*¹ It is not possible to set the front speakers to "OFF".

*² If the front speakers are set to "SMALL", the rear and center speakers cannot be set to "LARGE".

- *The subwoofer can be set only to ON/OFF.*
- *If the center speaker is turned "OFF", the center channel's audio signals are added to the audio signals output from the front speakers.*
- *If you set the speaker response to "OFF", also set the speaker setting to "OFF" (page 32).*
- *Perform the setup for all the speakers ("Front", "Center", "Rear" and "Subwoofer"). If not, the sound may not be balanced.*
- *When center is set to "OFF", the setting is ineffective even if center is set with this function.*
- *Through changing the settings on each speaker, a change in the output of the other speakers may occur due to the setting requirements.*
- *When using the PRO LOGIC II, if the rear speaker is set to "LARGE", then there will be no output from the subwoofer.*

Adjusting the DVD Level

The volume (signal level) for Dolby Digital, Dolby PL II, DTS and PCM modes can be set.

- *Avoid stopping, pausing, switching the disc, cueing, fast-forwarding or switching the audio channel of this unit while making this adjustment. The setting is canceled if the Decode mode is switched.*

Setting item: DVD Level

Adjust the level by touching [◀] or [▶] of the desired adjusting mode.

The level can be adjusted in the range of -5 dB to +5 dB.

Linear PCM Setting

The output when playing discs recorded in linear PCM can be set to 2 or 3 channels.

Setting item: PCM Mode

Touch [◀] or [▶] of PCM Mode to select 2CH or 3CH.

2CH: 2ch output (L/R)

3CH: 3ch output (L/R/CENTER)

- *This adjustment is ineffective when the speaker is set CENTER to OFF in "Setting the Speakers" (page 32).*

Storing Settings in the Memory

Adjustment or setting contents can be stored.

Contents that can be stored vary depends on the audio processor used.

1 Touch [➤] of PRESET on the A.Processor list screen.

The preset station setting list is displayed.

2 Touch [MEMORY] of any preset station (1 through 6).

The setting contents are stored.

- *The stored contents will not be deleted even when the battery power cord is detached.*

Calling up the Preset Memory

1 Touch [➤] of PRESET on the A.Processor list screen.

The preset station setting list is displayed.

2 Touch [➤] of any preset station (1 through 6) to select the preset memory.

- *It takes a few moments to call up the preset memory.*

IMPRINT Operation (Optional)

Alpine introduces IMPRINT - the world's first technology that thoroughly eliminates in-car acoustic problems that normally degrade sound quality. This enables us to experience music the way the artist intended. Refer to "About IMPRINT" (page 41).

When the IMPRINT audio processor (PXA-H100) (sold separately) is connected to this unit, MultEQ and the following sound adjustment can be performed.

To display the IMPRINT mode screen:

To watch a video source, your vehicle must be parked with the ignition key in the ACC or ON position. To do this, follow the procedure below.

- 1 Bring your vehicle to a complete stop at a safe location. Engage the parking brake.
- 2 Keep pushing the foot brake and release the parking brake once then engage it again.
- 3 When the parking brake is engaged for the second time, release the foot brake.


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

Now, the locking system for the IMPRINT mode operation has been released. Engaging the parking brake can reactivate the IMPRINT mode, 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 IMPRINT mode screen."

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

Changing MultEQ mode

MultEQ, developed by Audyssey Labs, automatically corrects the audio for the listening environment. The system is optimized for selected positions in the vehicle. To accomplish this, MultEQ must take measurements of the vehicles response characteristics. For details on the set up procedure, consult your authorized Alpine dealer.

1 Press and hold  SOUND/IMPRINT button of the unit for at least 2 seconds, the MultEQ mode selection screen will be displayed.

2 Touch [◀] or [▶] of Multi EQ to change the setting.

Setting contents: OFF / CURVE 1/CURVE 2

OFF: Adjusting the audio settings manually to create your own preference.

CURVE1/

CURVE2: Correcting the audio for the listening environment automatically.

- *The Curve mode can be selected only when CURVE 1 and CURVE 2 are stored.*
- *When MultiEQ is set to CURVE 1 or CURVE 2, Media Xpander, X-Over, T.Corr, Subwoofer Phase, Subwoofer Channel, TW Setup, P-EQ, G-EQ and F-EQ can not be adjusted.*

Adjusting Sound Setting in Manual Mode

You can change these sound settings to create your own preference when the MultEQ mode is set to OFF (Manual Mode).

Use steps 1 to 5 to select one of the Sound menu modes to modify. See the applicable section below for details about the selected item.

- 1 Check that Defeat mode is off.**
- 2 Press and hold **SETUP** for at least 2 seconds.**
The SETUP selection screen is displayed.
- 3 Touch [**>>**] of Audio Setup.**
The AUDIO SETUP screen appears.
 - The AUDIO SETUP screen can also be activated directly by pressing **⏮** (SOUND/IMPRINT).
- 4 Touch [**>>**] of A.Processor.**
The A.PROCESSOR list screen appears.
- 5 Touch [**<<**], [**>>**] or [**>>>**], etc., of the desired item to change its setting.**

Setting items: Media Xpander / X-Over / T.Corr / T.Corr Parameter / G-EQ / P-EQ / F-EQ / TW Setup*

* This function can be operable only when PXA-H100 (sold separately) is connected and 2.2ch (3WAY) mode is set. For details, refer to the Owner's Manual of PXA-H100.

- Touch [**<<**] to return to the previous screen.
- Touch and hold [**<<**] for at least 2 seconds to return to the main source screen that was displayed before the setup operation was started.
- Media Xpander, F-EQ, P-EQ and G-EQ Adjustment are inoperable when Defeat is set to ON.

Equalizer Presets (F-EQ)

10 typical equalizer settings and 6 user's preset setting are preset at the factory for a variety of musical source material.

Setting item: F-EQ

- 1 Touch [**>>**] of F-EQ.**
The F-EQ setup screen appears.
- 2 Touch [**<<**] or [**>>**] of the desired type to set to ON.**
Flat / Pops / Rock / News / Jazz&Blues / Electrical Dance / HipHop&Rap / Easy Listening / Countryuser EQ / Classical / User1 / User2 / User3 / User4 / User5 / User6
 - Only one type can be set to ON.
 - By selecting User's 1 to 6, you can recall the stored preset number in "Adjusting the Graphic Equalizer Curve (G-EQ)" (page 36) or "Adjusting the Parametric Equalizer Curve (P-EQ)" (page 36) .

Setting the Response Slope for the High Range Speaker (TW Setup)

Depending on the response characteristics of the speaker, care should be taken when setting the response slope of the high range speaker to FLAT in 2.2ch (3WAY) mode (see "Adjusting the Crossover Settings (X-Over)" on page 37), as speaker damage may result.

Setting item: TW Setup

Touch [**<<**] or [**>>**] of TW Setup to select Maker's or User's.

Maker's: As protection from possible speaker damage, FLAT cannot be set for the response slope of the high range speaker in 2.2ch (3WAY) mode.

User's: The FLAT setting is possible in 2.2ch (3WAY) mode.

- The TW Setup mode can only be selected if the FRONT/REAR/SUBW. (4.2CH)/3WAY (2.2CH) switch on the IMPRINT audio processor (PXA-H100) is set to 3WAY (2.2CH).

Setting the MX Level (Media Xpander)

MX (Media Xpander) makes vocals or instruments sound distinct regardless of the music source. The FM radio, CD, USB memory and iPhone/iPod, will be able to reproduce the music clearly even in cars with a lot of road noise.

Setting item: Media Xpander

- 1 Touch [**<<**] or [**>>**] of Media Xpander to select ON or OFF.**

OFF: Turns off the MX effect of every music source.

ON: Turns on the specified MX mode.

- 2 Touch [**>>**] after setting to ON.**
The Media Xpander setup screen appears.

- 3 Touch [**<<**] or [**>>**] of the desired MX mode.**

- Music source (such as radio broadcasts and CDs, excluding AM radio) level can be set.

MX CD (OFF, CD MX 1 to 3)

CD mode processes a large quantity of data. This data is used to reproduce the sound cleanly by making use of the data quantity.

MX CMPM (OFF, CMPM MX 1 to 3) / MX SAT (OFF, SAT MX 1 to 3)

This corrects information that was omitted at the time of compression. This reproduces a well-balanced sound close to the original.

MX FM (OFF, FM MX 1 to 3)

The medium to high frequencies become more clear, and produces well balanced sound in all the bands.

MX DVD (OFF, MOVIE MX 1 to 2)

The dialog portion of the video is reproduced more clearly.

(DVD MUSIC)

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

MX AUX (OFF, CMPM MX, MOVIE MX, MUSIC MX)

Choose the MX mode (CMPM, MUSIC, or MOVIE) that corresponds to the media connected.

- When OFF is selected, MX effect of each MX mode will be OFF.
- Each music source, such as radio, CD and MP3/WMA/AAC can have its own MX setting.
- MX mode does not function when MX is ON for AM radio.
- MX CPM is applied for MP3/WMA/AAC and iPhone/iPod.
- MX SAT is applied for XM, SIRIUS and HD Radio.
- The MX setting can be performed only when a source is currently selected.

Adjusting the Parametric Equalizer Curve (P-EQ)

You can modify the Equalizer settings to create a response curve more appealing to your personal taste.

Setting item: P-EQ

- 1 Select L+R by touching [▶] of P-EQ.**
When graphic EQ is set to L+R, the setting will be turned off.
- 2 Touch [≫] of P-EQ after selecting L+R.**
The P-EQ list screen appears.
- 3 Adjust the P-EQ to your preference.**

Adjusting the Band

Touch [◀] or [▶] of BAND to select the band to be adjusted.

BAND1 / BAND2 / BAND3 / BAND4 / BAND5

Adjusting the Frequency

Touch [◀] or [▶] of Freq. to adjust the frequency of the selected band.

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

Band-1: 20 Hz~80 Hz (63 Hz)
Band-2: 50 Hz~200 Hz (150 Hz)
Band-3: 125 Hz~3.2 kHz (400 Hz)
Band-4: 315 Hz~8 kHz (1 kHz)
Band-5: 800 Hz~20 kHz (2.5 kHz)

Adjusting the Level

Touch [◀] or [▶] of Level to adjust the level of selected band.

Adjustable level: -6 to +6 dB

Setting the Bandwidth

Touch [◀] or [▶] of Q to select the bandwidth.

Adjustable bandwidth: 1, 1.5, 3

- 4 To adjust another band, repeat step 3 and adjust all bands.**

- The frequencies of adjacent bands cannot be adjusted within 4 steps.
- While adjusting the Parametric EQ, you should consider the frequency response of the connected speakers.
- When the parametric EQ is adjusted, the adjustment for graphic EQ becomes ineffective.

Adjusting the Graphic Equalizer Curve (G-EQ)

You can modify the equalizer settings to create a response curve more appealing to your personal taste.

Setting item: G-EQ

- 1 Select L+R by touching [▶] of G-EQ.**
When parametric EQ is set to L+R, this setting will be turned off.
- 2 Touch [≫] of G-EQ after selecting L+R.**
The G-EQ list screen appears.
- 3 Adjust the G-EQ to your preference.**

Adjusting the Band

Touch [◀] or [▶] of BAND to select the band to be adjusted.

BAND-1 (63 Hz) / BAND-2 (150 Hz) / BAND-3 (400 Hz) /
BAND-4 (1 kHz) / BAND-5 (2.5 kHz) / BAND-6 (6.3 kHz) /
BAND-7 (17.5 kHz)

Adjusting the Level

Touch [◀] or [▶] of Level to adjust the level of selected band.

Adjustable output level: -6 to +6 dB

- 4 To adjust another band, repeat step 3, and then adjust all bands.**

- When graphic EQ is adjusted, the adjustment for parametric EQ becomes ineffective.

Setting the Time Correction Unit (T.Corr Parameter)

You can change the unit, (cm or inch) of time correction.
Touch [◀] or [▶] of T.Corr Parameter to select cm or Inch.

Setting item: T.Corr Parameter

cm ↔ Inch

cm: The unit of time correction is cm.

Inch: The unit of time correction is Inch.

Adjusting the Time Correction (T. Corr)

Before performing the following procedures, refer to “About Time Correction” (page 39).

Setting item: T.Corr

1 Touch [>>] of T.Corr.

The T.Corr adjustment screen appears.

2 Adjust the distance (0.0 to 336.6 cm) of a desired speaker by touching the respective [<] or [>] button.

L = (distance to farthest speaker) – (distance to other speakers)

Refer to “Time Correction Value List” on page 39.

3 Repeat step 2 to set another speaker.

By setting these values to make its sound reach the listening position at the same time as the sound of other speakers.

Adjusting the Crossover Settings (X-Over)

Before performing the following procedures, refer to “About the Crossover” (page 40).

Setting item: X-Over

1 Touch [<] or [>] of X-Over to select L+R or L/R.

L+R: Sets the same adjustment values for the left and right channels.

L/R: Different adjustment values can be set for the left and right channels.

2 Touch [>>] of X-Over.

A speaker list on the X-Over screen is displayed.

3 Touch [>>] of the band to be adjusted.

The screen changes to the X-Over screen to be adjusted.

4.2ch (FRONT/REAR/SUBW.) System

4.2ch (FRONT/REAR/SUBW.) System / (L+R)

Setting contents:

Low (SUB-W) / Mid (REAR) / High (FRONT)

4.2ch (FRONT/REAR/SUBW.) System / (L/R)

Setting contents:

Low (SUB-W)-L / Low (SUB-W)-R / Mid (REAR)-L / Mid (REAR)-R / High (FRONT)-L / High (FRONT)-R

4 Adjust the crossover to your preference.

Selecting the Cut-Off Frequency

Touch [<] or [>] of Freq., then select the cut-off frequency (crossover point).

The adjustable bandwidth differs depending on the speaker (channel).

4.2ch (FRONT/REAR/SUBW.) System

Setting contents:

Low (SUB-W)	20 Hz~200Hz
Mid (REAR)	20 Hz~200Hz
High (FRONT)	20 Hz~200Hz

Adjusting the Slope

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

Adjustable slope: FLAT, -6 dB/oct., -12 dB/oct., -18 dB/oct., -24 dB/oct.

Adjusting the Level

Touch [<] or [>] of Level, then adjust the HPF or LPF level.

Adjustable output level: -12 to 0 dB.

5 Repeat steps 3 to 4 to make adjustment to the other bands.

2.2ch (3WAY) System

2.2ch (3WAY) System / (L+R)

Setting contents:

Low / Mid-L / Mid-H / High

2.2ch (3WAY) System / (L/R)

Setting contents:

Low-L / Low-R / Mid-L-L / Mid-L-R / Mid-H-L / Mid-H-R / High-L / High-R

4 Adjust the crossover to your preference.

Selecting the Cut-Off Frequency

Touch [<] or [>] of Freq., then select the cut-off frequency (crossover point).

The adjustable bandwidth differs depending on the speaker (channel).

2.2ch (3WAY) System

Setting contents:

LOW / MID-L	20 Hz~200 Hz
MID-H	20 Hz~20 kHz
HIGH	(1 kHz~20 kHz) ^{*1} / (20 Hz~20 kHz) ^{*2}

^{*1} When Maker's is selected, refer to “Setting the Response Slope for the High Range Speaker (TW Setup)” (page 35).

^{*2} When User's is selected, refer to “Setting the Response Slope for the High Range Speaker (TW Setup)” (page 35).

Adjusting the Level

Touch [◀] or [▶] of Level, then adjust the HPF or LPF level.

Adjustable output level: -12 to 0 dB.

Adjusting the Slope

Touch [◀] or [▶] of Slope, then adjust the HPF or LPF slope.

Adjustable slope: FLAT*, -6 dB/oct., -12 dB/oct., -18 dB/oct., -24 dB/oct.

* FLAT can be set for the HIGH slope only when User's is selected in "Setting the Response Slope for the High Range Speaker (TW Setup)" (page 35). Depending on the response characteristics of the speaker, care should be taken when setting the response slope to FLAT, as speaker damage may result. With this unit, a message is displayed when the response slope for the high range speaker is set to FLAT.

5 Repeat steps 3 to 4 to make adjustment to the other bands.

- While adjusting the X-Over, you should consider the frequency response of the connected speakers.
- About the 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) system You can switch the system mode with the 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) switch on the PXA-H100. For details, refer to the Owner's Manual of PXA-H100.

Storing Settings in the Memory

Adjustment or setting contents of X-Over, T.Corr and P/G-EQ can be stored.

Contents that can be stored vary depends on the audio processor used.

- 1 Check whether the Defeat mode is off.
- 2 Touch [➤] of PRESET on the A.Processor list screen.

The preset station setting list is displayed.

- 3 Touch [MEMORY] of any preset station (1 through 6).

The setting contents are stored.

- The stored contents will not be deleted even when the battery power cord is detached.
- This operation cannot be performed when a typical equalizer setting (e.g. POPS) is selected in "Equalizer Presets (F-EQ)" (page 35).

Calling up the Preset Memory

- 1 Check whether the Defeat mode is off.
- 2 Touch [➤] of PRESET on the A.Processor list screen.
- 3 Touch [➤] of any preset station (1 through 6) to select the preset memory.

- It takes a few moments to call up the preset memory.

Setting the Subwoofer

- 1 Press and hold **SETUP** for at least 2 seconds.
The SETUP selection screen is displayed.
- 2 Touch [➤] of Audio Setup.
The AUDIO SETUP screen appears.
 - The AUDIO SETUP screen can also be activated directly by pressing)((SOUND/IMPRINT.
- 3 Touch [◀] or [▶] of Subwoofer to set the subwoofer ON/OFF.
- 4 Touch [➤] of Subwoofer after setting the Subwoofer to ON.
The SUBWOOFER Setup screen appears.

Setting items: Level / Phase / System / Channel

Adjusting the Subwoofer Level

Touch [◀] or [▶] of Level to adjust the Subwoofer output.

Setting range: 0 to 15

Setting the Subwoofer System

When the subwoofer is on, you can select either System1 or System2 for the desired subwoofer effect.

Touch [◀] or [▶] of System to select SYSTEM1 or SYSTEM2

SYSTEM1 : Subwoofer level changes according to the main volume setting.

SYSTEM2 : Subwoofer level change is different from the main volume setting. For example, even at low volume settings, the subwoofer is still audible.

Setting the Subwoofer Phase

Touch [◀] or [▶] of Phase to select 0° or 180°

The subwoofer output phase is toggled SUBWOOFER NORMAL (0°) or SUBWOOFER REVERSE (180°).

Setting the Subwoofer Channel

You can set the subwoofer output to stereo or monaural. Make sure to set the correct output for your subwoofer type.

Touch [◀] or [▶] of Channel to select STEREO or MONO.

STEREO: Subwoofer stereo (L/R) output

MONO: Subwoofer monaural output

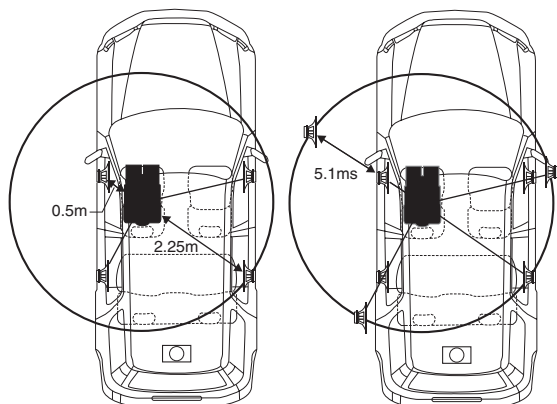
About Time Correction

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 3.4cm 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 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 = $1.75 \div 343^{*1} \times 1000 = 5.1$ (ms)

**1 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 metres) 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.

Time Correction Value List

Delay Number	Time Difference (ms)	Distance (cm)	Distance (inch)	Delay Number	Time Difference (ms)	Distance (cm)	Distance (inch)
0	0.0	0.0	0.0	51	5.1	173.4	68.3
1	0.1	3.4	1.3	52	5.2	176.8	69.6
2	0.2	6.8	2.6	53	5.3	180.2	71.0
3	0.3	10.2	4.0	54	5.4	183.6	72.3
4	0.4	13.6	5.3	55	5.5	187.0	73.7
5	0.5	17.0	6.7	56	5.6	190.4	75.0
6	0.6	20.4	8.0	57	5.7	193.8	76.3
7	0.7	23.8	9.3	58	5.8	197.2	77.7
8	0.8	27.2	10.7	59	5.9	200.6	79.0
9	0.9	30.6	12.0	60	6.0	204.0	80.4
10	1.0	34.0	13.4	61	6.1	207.4	81.7
11	1.1	37.4	14.7	62	6.2	210.8	83.0
12	1.2	40.8	16.0	63	6.3	214.2	84.4
13	1.3	44.2	17.4	64	6.4	217.6	85.7
14	1.4	47.6	18.7	65	6.5	221.0	87.1
15	1.5	51.0	20.1	66	6.6	224.4	88.4
16	1.6	54.4	21.4	67	6.7	227.8	89.7
17	1.7	57.8	22.7	68	6.8	231.2	91.1
18	1.8	61.2	24.1	69	6.9	234.6	92.4
19	1.9	64.6	25.4	70	7.0	238.0	93.8
20	2.0	68.0	26.8	71	7.1	241.4	95.1
21	2.1	71.4	28.1	72	7.2	244.8	96.4
22	2.2	74.8	29.4	73	7.3	248.2	97.8
23	2.3	78.2	30.8	74	7.4	251.6	99.1
24	2.4	81.6	32.1	75	7.5	255.0	100.5
25	2.5	85.0	33.5	76	7.6	258.4	101.8
26	2.6	88.4	34.8	77	7.7	261.8	103.1
27	2.7	91.8	36.1	78	7.8	265.2	104.5
28	2.8	95.2	37.5	79	7.9	268.6	105.8
29	2.9	98.6	38.8	80	8.0	272.0	107.2
30	3.0	102.0	40.2	81	8.1	275.4	108.5
31	3.1	105.4	41.5	82	8.2	278.8	109.8
32	3.2	108.8	42.8	83	8.3	282.2	111.2
33	3.3	112.2	44.2	84	8.4	285.6	112.5
34	3.4	115.6	45.5	85	8.5	289.0	113.9
35	3.5	119.0	46.9	86	8.6	292.4	115.2
36	3.6	122.4	48.2	87	8.7	295.8	116.5
37	3.7	125.8	49.5	88	8.8	299.2	117.9
38	3.8	129.2	50.9	89	8.9	302.6	119.2
39	3.9	132.6	52.2	90	9.0	306.0	120.6
40	4.0	136.0	53.6	91	9.1	309.4	121.9
41	4.1	139.4	54.9	92	9.2	312.8	123.2
42	4.2	142.8	56.2	93	9.3	316.2	124.6
43	4.3	146.2	57.6	94	9.4	319.6	125.9
44	4.4	149.6	58.9	95	9.5	323.0	127.3
45	4.5	153.0	60.3	96	9.6	326.4	128.6
46	4.6	156.4	61.6	97	9.7	329.8	129.9
47	4.7	159.8	62.9	98	9.8	333.2	131.3
48	4.8	163.2	64.3	99	9.9	336.6	132.6
49	4.9	166.6	65.6				
50	5.0	170.0	67.0				

About the Crossover

Crossover (X-Over):

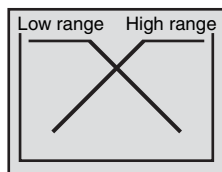
This unit is equipped with an active crossover. The crossover limits the frequencies delivered to the outputs. Each channel is controlled independently. Thus, each speaker pair can be driven by the frequencies for which they have been optimally designed.

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.

4.2ch (FRONT/REAR/SUB.W.) mode

	Cut-off frequency (1/3 octave steps)		Slope		Level
	HPF	LPF	HPF	LPF	
Low range speaker	----	20 Hz - 200 Hz	----	FLAT, -6, -12, -18, -24 dB/oct.	0 to -12 dB
Rear high range speaker	20 Hz - 200 Hz	----	FLAT, -6, -12, -18, -24 dB/oct.	----	0 to -12 dB
Front high range speaker	20 Hz - 200 Hz	----	FLAT, -6, -12, -18, -24 dB/oct.	----	0 to -12 dB

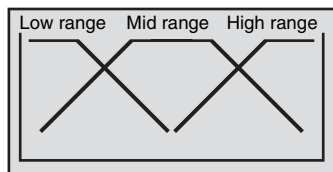


(Different from actual display)

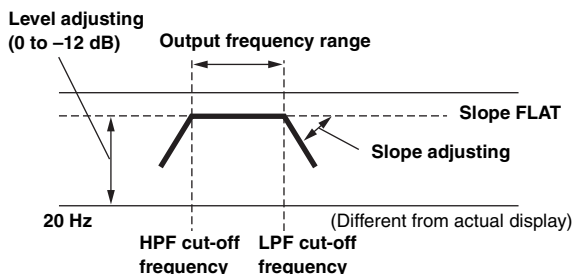
2.2ch (3WAY) mode

	Cut-off frequency (1/3 octave steps)		Slope		Level
	HPF	LPF	HPF	LPF	
Low range speaker	----	20 Hz - 200 Hz	----	FLAT, -6, -12, -18, -24 dB/oct.	0 to -12 dB
Mid range speaker	20 Hz - 200 Hz	20 Hz - 20 kHz	FLAT, -6, -12, -18, -24 dB/oct.	FLAT, -6, -12, -18, -24 dB/oct.	0 to -12 dB
High range speaker	1 kHz - 20 kHz, (20 Hz ~ 20 kHz)*	----	FLAT* -6, -12, -18, -24 dB/oct.	----	0 to -12 dB

* Only when selecting User's in "Setting the Response Slope for the High Range Speaker (TW Setup)" (page 35).



(Different from actual display)



- **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.
 - You cannot adjust the crossover frequency higher than the HPF or lower than the LPF.
 - 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 IMPRINT

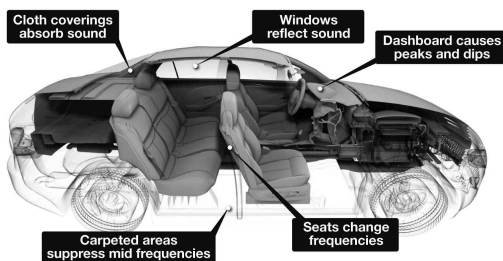


VISION VS. REALITY

All good music starts as an artist's vision. After countless hours of rehearsing, recording and mixing, that vision is ready for us to hear on discs, radio and other media. But do we hear it as the artist created it? Unfortunately, the reality is that we are almost never able to listen to it in the exact way the artist intended. Especially when we are listening in a car.

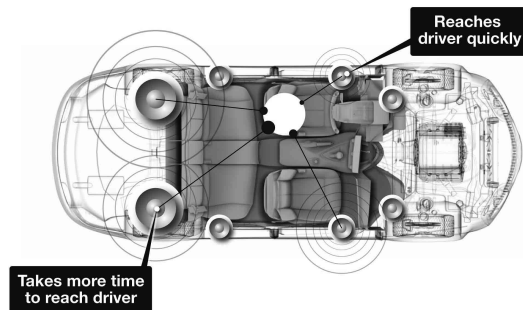
CARS ARE TERRIBLE LISTENING SPACES

Car interiors are full of materials that obstruct and degrade sound quality. For example, windows amplify and reflect high frequencies. Seat and dashboard coverings change certain frequencies. Carpets absorb and suppress mid frequencies. Graphic and parametric EQs are only partial remedies for these problems. In addition, the speakers are not located at equal distances from listeners, creating an unbalanced, uncentered sound stage. Time correction can help fix this, but only for one listening position.



INTRODUCING IMPRINT

These acoustical problems are so severe that no correction system has been able to overcome them. Until now, with the introduction of IMPRINT, Alpine provides a hardware/software combination that not only solves these problems, it actually improves the sound stage, tonal balance and definition - and does it automatically, in a matter of minutes!



HOW IMPRINT IS DIFFERENT

IMPRINT using MultEQ is superior to other equalization systems in five ways.

- It is the only system that measures the entire listening area, capturing time domain information from each listening location and applying a proprietary method for processing it to represent all seat locations. This gives the people in each seat the optimal listening experience.
- It corrects both time and frequency problems, for an improved soundstage and smoother, more natural sound.
- It uses dynamic frequency allocation to apply hundreds of points of correction to those areas where the sound problems are greatest.
- It determines optimized blending points for low frequency crossovers.
- It provides, in minutes, vehicle sound tuning that generally takes skilled professionals days to accomplish.

BLUETOOTH Operation (Optional)

When the optional BLUETOOTH INTERFACE (KCE-400BT) is connected to this unit, the following operation can be performed.

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 metres. For details, refer to the Bluetooth Homepage (<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 BT compatible device, consult your ALPINE dealer or ALPINE website.
- 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).

Before Using Hands-Free Function

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

Set "Bluetooth IN" to ADAPTER (page 24).

- Before using a hands-free phone, it must be paired with this unit. Refer to "Bluetooth Setup" (pages 42-44).

How to connect to a Bluetooth compatible device (Pairing)

For details on the control from a Bluetooth compatible device, refer to the Owner's Manual of the Bluetooth compatible device.

- 1 Set a Bluetooth connection from a Bluetooth compatible device.**
- 2 The PIN code ("0000") is displayed on the unit.**
- 3 Input the PIN code ("0000") in a Bluetooth compatible device.**
- 4 If this unit is successfully connected to a Bluetooth compatible device, "CONNECTED" is displayed, and then the unit returns to normal mode.**
 - Set "Setting the Search Mode" (page 43) to Visible Mode ON to enable this unit to recognise a mobile phone. For mobile phone passkey (passcode) input operation, refer to the mobile's Owner's Manual. Additionally, the mobile phone can be searched directly from this unit. Refer to "Registering the Bluetooth Device" (page 43).
 - The mobile phone can be searched directly from this unit, refer to "Registering the Bluetooth Device" (page 43).
 - If a Bluetooth compatible device is successfully connected, the next time when the ignition key of the car is turned to on, the unit will automatically connect to the previously connected device. However, the connection may fail. If the auto connection fails, try the connection manually.

Bluetooth Setup

Bluetooth Setup Operation

The following steps 1 to 3 are common to the various Bluetooth functions. For details, refer to each individual function.

- While calling, or in the Bluetooth Audio source, Bluetooth Setup operation cannot be performed.
- Set "Bluetooth IN" to ADAPTER (page 24), and then perform Bluetooth Setup operation.

- 1 After steps 1 and 2 in "Source Setup Operation" (page 17) have been performed, touch [>>] of Bluetooth Setup.**

The BLUETOOTH SETUP screen appears.

- 2 Touch [<<], [>>] or [>>>] of the desired item to change its setting.**

Setting items:

Paired Device / Device Search / Clear Device / Service Provider / Visible Mode / Auto Answer / Speaker Sel / Mic Input / Firmware Version / Firmware Update

- 3 Touch [<<] on the left side of screen to return to the previous screen.**

Touch and hold [<<] on the left side of screen for at least 2 seconds to return to the main source screen that was displayed before the setup operation was started.

Setting the Bluetooth Device

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

Setting item: Paired Device

Touch a Bluetooth compatible device to use (change connection) from the Paired Device list.

- If the connection is successfully changed, "CONNECTED/(Device name)" is displayed for 2 seconds, and then the display returns to the SETUP screen.
- If you input the wrong passcode or communications fail, "FAILED" is displayed.
- If you want to connect another Bluetooth compatible device, after disconnecting the current Bluetooth compatible device, connect the Bluetooth compatible device you want to change to.
- The registration number 5 is deleted when you set ignition from ACC to OFF. If all the 5 positions have been registered, you cannot register the 6th device. To register another device, you need to delete one of the device from position 1 to 5 first.

Registering the Bluetooth Device

The Bluetooth device is used when a connectable Bluetooth compatible device is searched and connected from this unit, or a new Bluetooth compatible device is registered.

Setting item: Device Search

- 1 When Device Search is selected, "NOW SEARCHING" is displayed, and searching starts.**
- 2 Touch the device name to be connected from the Device Search list.**
- 3 If the adapter is successfully connected to a Bluetooth compatible device, a paired device name and a registered number (No. 1 to 5) are displayed, and then the unit returns to normal mode.**

- If a mobile phone is registered for the first time: Input a passcode when the numeric keypad screen is displayed, then input the same passcode in the Bluetooth compatible device to make the pairing. After the pairing is completed, the unit will automatically connect to the Bluetooth compatible device.
- If you input the wrong passcode or communications fail, "FAILED" is displayed.
- A passcode input on the unit is maximum 4-digit. If a passcode on the Bluetooth compatible device exceeds 4 digits, reset the passcode and make this setting again.

Deleting a Bluetooth Device from the list

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

Setting item: Clear Device

- 1 Touch the Bluetooth compatible device you want to delete from the Clear Device list.**
A message is displayed.
 - 2 Touch [YES] if you want to delete.**
- Touching [NO] will cancel the setting.
 - The registration number 5 is deleted once the ignition key goes from ACC to off.

Displaying the phone service provider name

Setting item : Service Provider

The service provider name of the connected Bluetooth compatible device will be displayed. If a Bluetooth compatible device is not connected, "ID UNSENT" will be displayed.

- Depending on the character type some phone service provider name cannot be displayed.

Setting the Search Mode

You can set whether KCE-400BT can be recognized or not from a Bluetooth compatible device. Normally set this to Visible Mode ON.

Setting item: Visible Mode

- ON: Enables recognition of KCE-400BT from the Bluetooth compatible device.
- OFF: Disables recognition of KCE-400BT from the Bluetooth compatible device.

- Depending on the mobile phone, it may be necessary to input a passcode. For inputting the mobile phone's passcode, refer to the mobile phone's Owner's Manual.

Setting the Received Calls automatically (Auto Answer)

When a call is received, you can set whether to receive it automatically or not.

Setting item: Auto Answer

- ON: When a call is received, it will be taken automatically after about 5 seconds.
- OFF: When a call is received, it will not be received automatically. If a message is displayed and [] is touched when a call is received, you can receive the call.

- If the received call setting on the mobile phone is on, the call will be answered automatically even though this setting is set to OFF.

Selecting the output speaker

You can select the connected speaker in car to output the sound signal of telephone.

Setting item : Speaker Sel

- ALL: The sound be output from all of speakers in car.
- F-L: The sound only be output from the front left speaker.
- F-R: The sound only be output from the front right speaker.
- F-LR: The sound be output from the front left and front right speaker.

- The setting cannot be adjusted during a phone call. Adjust the setting before placing a call.
- When an external processor or IMPRINT audio processor (PXA-H100) is connected, the default setting ALL will be set and cannot be adjusted.

Adjusting the volume for the microphone input

You can emphasize or weaken the microphone input volume level.

Setting item : Mic Input

Turn the Rotary encoder to select the desired volume level (0 ~15).

- *The setting cannot be adjusted during a phone call. Adjust the setting before placing a call.*
- *The setting can be adjusted only when the Bluetooth compatible device is connected.*

Displaying the firmware version

Setting item : Firmware Version

The current firmware version of KCE-400BT will be displayed.

Updating the firmware

Setting item: Firmware Update

Future Bluetooth firmware update of KCE-400BT (for phone compatibility) at customer end will be available for this unit.

For information to update your Bluetooth firmware, please visit Alpine America home page (<http://www.alpine-usa.com>).

Hands-Free Phone Control

About the Hands-Free Phone

Hands-free calls are possible when using a HSP (Head Set Profile) and 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 pick up 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.


Alpine reserves the right to change or modify any information or specifications without notice or obligation.

Answering a Call

Incoming calls are announced by the received call ring tone and a displayed message (Caller name/PHONE No.).

Touch [].

The call starts.

- **Indicator  (Signal Strength):**
While calling, the indicator will display the current signal strength of mobile phone. While in the mode other than Calling, the unit cannot read the signal strength of the mobile phone exactly. In this case, the indicator displays the signal strength of last call.
- *When "Setting the Received Calls automatically (Auto Answer)" (page 43) is set to ON, you can receive a call automatically.*
- *While calling, the source sound on the unit is muted. After calling, playback will resume.*

Hanging up the Telephone

Touch [].

The call finishes.

Adjusting the volume when receiving a Call

While calling, you can adjust the volume. The adjusted volume level is stored.

Rotate the Double Action encoder to adjust the volume.

- *You may need to increase volume from your regular audio listening source level. However, increasing the volume excessively may result in feedback. If feedback is noticed as feedback is directly related to the volume, turn down the volume as low as acceptable to eliminate it. Positioning the microphone in a direction away from the main car speakers (e.g. clipped on sun visor) may also reduce feedback at high volume.*

Redial Function

You can redial the person you have previously called.

After finishing a call, touch [] on the screen within 5 seconds.

The telephone is redialed.

Call Switching Operation

While making a call, this function allows you to initiate the transfer of the audio between the mobile phone and the speakers in the car.

While calling, touch [🔊↔️📱] to switch the call sound between the unit and mobile phone.

- The operation can also be performed by pressing and holding **Q/ENTER** for at least 2 seconds.
- Depending on the mobile phone, this operation may not be performed.

Call History

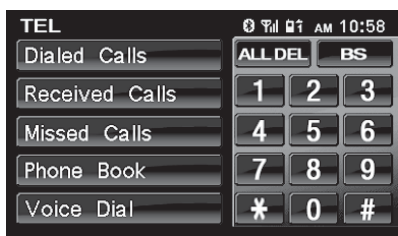
Call History is recorded for the last dialed/received/missed calls. There are various ways of making calls based on the “Call History”. The following steps 1 to 3 are common to the various ways of making these calls. For details, refer to each individual category for making calls.

1 Press [☰].

The Telephone Menu screen is displayed.

- The **TELEPHONE MENU** screen can also be activated by selecting “Telephone” on mode switching screen. For details, refer to the step 2 of “Recalling the Source” on page 9.

Display example for Telephone Menu screen



2 Touch the desired item to place the call.

Setting items:

Dialed Calls / Received Calls / Missed Calls / Phone Book / Voice Dial / Number Key (direct dial input)

- The adapter will update the information in the Call History automatically each time a mobile phone is connected or receiving/dialing a call. At this time, if you select any outgoing mode, “NOW UPDATING” will be displayed.
- It may take some time for the list to be displayed, and also directly after connection, the list may not be brought up to date.

3 Touch [◀] to return to the previous screen.

- If you place a call directly from the paired mobile phone, the phone number is not displayed, you cannot redial from the unit in this case.

Redialing a Number in Dialed Calls History

Previously dialed telephone numbers are stored in dialed calls history. You can redial a number by searching from dialed calls history.

Setting item: Dialed Calls

Touch the person name or the telephone number you want to call from the Dialed Calls list.

The call is placed.

Dialing a Number in Received Calls History

Telephone numbers from received calls are stored in the received calls history. You can redial these numbers by searching here.

Setting item: Received Calls

Touch the person name or the telephone number you want to call from the Received Calls list.

The call is placed.

Dialing a Number in Missed Calls History

Telephone numbers for received calls that are missed, are stored in the missed calls history. You can redial these numbers by searching here.

Setting item: Missed Calls

Touch the person name or the telephone number you want to call from the Missed Calls list.

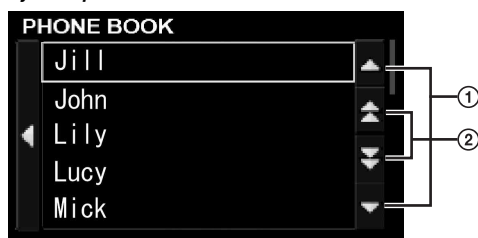
The call is placed.

Dialing a Number In the Phone Book (Phone Book)

Up to 1,000 telephone numbers are downloadable to the Bluetooth compatible unit from a mobile phone. Dial a call by selecting a person from the phone book list.

Setting item: Phone Book

Display example for Phone book screen



- ① Scroll the list one line at a time by touching [▲] or [▼].
- ② Scroll the list one alphabet* at a time by touching [▲] or [▼].

Touch the person name or the telephone number you want to call from the Phone Book list.

The call is placed.

* *The names in Phone Book are listed alphabetically. The listing can be skipped to the next alphabetical character. e.g. touch [▼] to move to the names beginning with B from those beginning with A. (Only applicable to English alphabetic characters.)*

- *If one name has several numbers registered in the telephone book, choose and touch the desired number after touching the name, the telephone will be called. Touch and hold the name for at least 2 seconds, the default number of the name will be called. Depending on the connected mobile phone, this function may not be performed.*
- *If a name cannot be obtained via the phone book, only the telephone number (default number) is displayed. If both name and number cannot be obtained, "ID UNSENT" will be displayed.*
- *If the call history or phonebook of the mobile phone is added or deleted while it is connected to the unit, the list displayed on the unit may not be brought up to date. If it is not updated, you cannot correctly place a call.*

Voice Dial Operation

You can call the telephone by performing voice operation.

Setting item: Voice Dial

1 Touch [Voice Dial].

A message is displayed.


2 Touch [Yes] to activate the voice dial mode.

The voice dial mode is activated, and "SPEAK" is displayed.

- *Touch [No] will return to the Telephone Menu screen.*

3 Say the telephone number*, name* you want to call into the microphone.

* *The number and name depend on the voice dial information stored in the mobile phone.*

- *The voice dial mode can also be activated by pressing and holding  button for at least 2 seconds.*
- *If the voice dial fails, the unit will return to normal mode in 30 seconds.*
- *You can perform this operation only when a voice dial compatible mobile phone is connected. If the mobile phone is not compatible with the voice dial, "FAILED" is displayed for 2 seconds.*
- *The Voice Dial function performance depends on the recognition range of the mobile phone and mounting location of the microphone. Note when the microphone is mounted.*
- *This operation cannot be performed when the current source is Bluetooth AUDIO, and "FAILED" is displayed for 2 seconds.*
- *Voice dial operation depends on the function of the mobile phone. For details, refer to the Owner's Manual of the mobile phone.*


Dialing a Number Using Direct DIAL INPUT

You can place a call by inputting the telephone number directly by the numeric keypad screen on the unit.

The numeric keypad screen is displayed. Touch (input) the telephone number, and then touch [↵].

The call is placed.

- *About the numeric keypad*

: closes the numeric keypad input screen.

ALL DEL: deletes all input numbers.

BS (Back Space): deletes a previous number.

- *The speed dial is recalled and the telephone is called by directly inputting the number which is registered with the speed dial on the mobile phone on the numeric keypad screen of this unit (SPEED DIAL).*

Bluetooth Audio Function

Bluetooth Audio Operation

Audio information of a Bluetooth compatible mobile phone, a portable player, etc., is controllable/playable wirelessly* from this unit.

* *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 muted.*

Recalling the Bluetooth audio source

1 Press SOURCE to activate mode switching screen.

2 Slide the display horizontally with your finger to select Audio/Visual mode.

Each time you slide the display, the mode switches circularly in the following order :

Audio/Visual ↔ Navigation ↔ Camera ↔ Telephone ↔ Multi Info ↔ Audio/Visual

3 Slide the display vertically with your finger, or press SOURCE repeatedly to select BT AUDIO source.

4 Press /ENTER.

The BT AUDIO source is activated and the display changes to the BT AUDIO main screen.

Selecting the desired Song

Touch [◀◀].

Returns the beginning of the song being played back.

Touch [▶▶].

Forwards the next song.

Pausing

Touch [▶/||].

A playback stops. Touching again will resume a playback.

HCE-C107D

Operation (Optional)

When the optional rearview camera HCE-C107D is connected, rear view video can be output to the monitor.

- *Be sure to set "Camera IN" to DIRECT before using the rearview camera HCE-C107D, refer to "Setting the Rear Camera Input" on page 23.*


Switching the Rear Camera Screen (Optional)

The rear view video will be displayed for the two situations as below.

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.**
- *Be sure to also check behind the car visually. Use the camera image to assist in showing conditions behind the car.*
 - *This function is effective when the reverse wire is properly connected.*

Displaying the rear view video manually

Press  (CAMERA).

The Camera mode is activated and the rear view video is displayed.

Pressing again will return to Audio/Visual mode.

- *The Camera mode can also be activated by selecting "Camera" in mode switching screen. For details, refer to the step 2 of "Recalling the Source" on page 9.*

Navigation System (Optional)

Switching the Navigation Screen (Optional)

If an optional Alpine Navigation System is connected to the iXA-W404, the Navigation screen can be displayed on this unit.

- *Be sure to set "NAV. IN" to ON before using the Navigation, refer to "Setting the Navigation Mode" on page 23.*

Press  (NAVIGATION).

The Navigation screen is displayed.

Pressing again will return to Audio/Visual mode.

The operation is possible with the supplied navigation remote control.

For navigation operation, refer to the Owner's Manual of the navigator.

- *The Navigation mode can also be activated by selecting "Navigation" in mode switching screen. For details, refer to the step 2 of "Recalling the Source" on page 9.*
- *If the Navigation mode menu is not displayed on the main menu screen, select ON in "Setting the Navigation Mode" (page 23).*
- *When the Navigation System is on and in guidance mode, the voice prompts and navigation map interrupts the current audio source.*

Auxiliary Device (Optional)

Operating Auxiliary Devices (Optional)

To operate your devices connected to the AUX terminals on the rear panel of iXA-W404 (AUX mode) or to the Bluetooth interface connector by using an optional Conversion cable (KCE-237B) (AUX+ mode), follow the procedure described below.

WARNING

It is dangerous (and illegal in many states) for the driver to watch the TV/Video while driving the vehicle. The driver may be distracted from looking ahead and an accident could occur.

Install the iXA-W404 correctly so that the driver cannot watch TV/Video unless the vehicle is stopped and the emergency brake is applied.

If the iXA-W404 is not installed correctly, the driver will be able to watch the TV/Video while driving the vehicle and may be distracted from looking ahead and cause an accident. The driver or other people could be severely injured.

To activate your auxiliary devices:

To watch a video source, your vehicle must be parked with the ignition key in the ACC or ON position. To do this, follow the procedure below.

- 1 Bring your vehicle to a complete stop at a safe location. Engage the parking brake.
- 2 Keep pushing the foot brake and release the parking brake once then engage it again.
- 3 When the parking brake is engaged for the second time, release the foot brake.

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

Now, the locking system for the AUX mode operation has been released. Engaging the parking brake can reactivate the AUX mode, 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 activate your auxiliary devices."

Each time the ignition is turned OFF, perform the procedure of "To activate your auxiliary devices."


- *If you try to activate the auxiliary device while driving, the display will show the warning-PICTURE OFF FOR YOUR SAFETY.*

1 Press  **SOURCE** to activate mode switching screen.

2 Slide the display horizontally with your finger to select **Audio/Visual mode**.

Each time you slide the display, the mode switches circularly in the following order :

Audio/Visual ↔ Navigation ↔ Camera ↔ Telephone ↔ Multi Info ↔ Audio/Visual

3 Slide the display vertically with your finger, or press  **SOURCE** repeatedly to select **AUX*** or **AUX+ source**.

4 Press  **ENTER**.

The AUX or AUX+ source is activated and the display changes to the external input screen.

* *The name which is given as the source name in "Setting the AUX Mode" on page 23 is displayed.*

- *If the AUX source is not displayed on the main menu, set AUX IN to ON by following "Setting the AUX Mode" (page 23).*
- *If the AUX+ source is not displayed on the main menu, set AUX+ IN to ON by following "Setting the AUX+ Mode" (page 24).*
- *The display mode changes by touching [WIDE]. For operation, refer to "Switching Display Modes" on page 17.*
- *After connecting the KCA-410C, its AUX input can be used only in INTERRUPT MODE. For details, refer to the KCA-410C Owner's Manual.*

SAT Radio Receiver (Optional)

SAT Receiver: XM or SIRIUS Receiver

When an optional XM or SIRIUS Receiver Box is connected via the Ai-NET bus, the following operations may be performed. However, the XM Receiver and SIRIUS Receiver cannot be connected at the same time.

Receiving Channels with the SAT Receiver (Optional)

About SAT Radio

Satellite Radio* is the next generation of audio entertainment, with over to 100 digital channels. For a small monthly fee, subscribers can hear crystal-clear music, sports, news and talk, coast-to-coast via satellite. For more information, visit XM's website at www.xmradio.com, and SIRIUS' website at www.sirius.com.

To receive SAT Radio, the separately sold XM Direct™ or SIRIUS Satellite Radio Tuner and an appropriate Ai-NET Interface Adapter will be required. For details, consult you nearest ALPINE dealer.

* XM and its corresponding logos are trademarks of XM Satellite Radio Inc.

* SIRIUS and its corresponding logos are trademarks of SIRIUS Satellite Radio Inc.

• The SAT Receiver controls on the iXA-W404 are operative only when a SAT Receiver is connected.

1 Press **SOURCE** to activate mode switching screen.

2 Slide the display horizontally with your finger to select Audio/Visual mode.

Each time you slide the display, the mode switches circularly in the following order :

Audio/Visual ↔ Navigation ↔ Camera ↔ Telephone ↔ Multi Info ↔ Audio/Visual

3 Slide the display vertically with your finger, or press **SOURCE** repeatedly to select XM or SIRIUS mode.

4 Press **Q/ENTER**.

The XM or SIRIUS mode is activated and the display changes to the XM or SIRIUS mode screen.

5 Touch **[P1/2]** once for XM mode or **[P1/3]** once for SIRIUS mode.

The function guide is displayed.

6 Touch **[BAND]** to select the desired band.

XM radio:

XM-1 → XM-2 → XM-3 → XM-1

SIRIUS radio:

SIRIUS-1 → SIRIUS-2 → SIRIUS-3 → SIRIUS-1

7 Touch **[NO.]** or **[NAME]** to select the channel number tuning.

Each time it is touched, the tuning mode is changed.

channel number tuning ↔ channel name tuning

8 Touch **[◀ NO.] / [NO. ▶]** or **[◀ NAME] / [NAME ▶]** to select the desired channel. Touching and holding either button will change channels continuously.

- To customers when connecting the SIRIUS Tuner Box:
For detailed functions, refer to the SIRIUS Tuner Box installation manual.
- For "SIRIUS Setup" operation, refer to page 18.

Tuning in to Categorized Programs

Quickly find a group of channels in a desired category. The categories are listed in the order designated by SIRIUS or XM Radio.

1 Touch and hold **CATEGORY [▼]** or **[▲]** for at least 2 seconds in the XM or SIRIUS mode.

The category mode is activated.

2 Touch **CATEGORY [▼]** or **[▲]** to select a desired category.

The first channel of the selected category is tuned.

3 Touch and hold **CATEGORY [▼]** or **[▲]** for at least 2 seconds to turn off the category mode, or if no operation is performed for 13 seconds, the category mode will be automatically canceled.

- If the desired category program is not found, the selected category is displayed for 5 seconds, then the receiving program is restored.

Changing the Display

Text information, such as the channel name, artist name/feature, and song/program title, is available with each XM or SIRIUS channel. The unit can display this text information as explained below.

Display example for XM main screen

The information display changes when the area is touched while displayed.

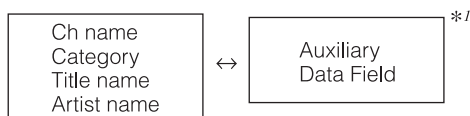


(A): Displays the preset number*/channel number
Touching this area will display the list screen of preset stations.

Touch the Information area in the XM or SIRIUS mode.

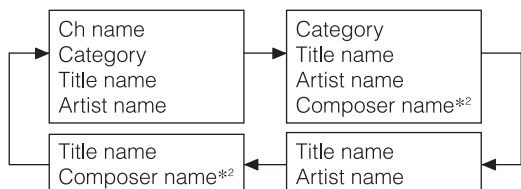
Each time you touch this area, the display changes as shown below.

In XM mode:



*1 If all of Auxiliary Data Field Characters cannot be displayed, touch the Information area to display the other characters.

In SIRIUS mode:



*2 Displayed when there is a composer name (text information).

Checking the SAT Radio ID Number

A unique Radio ID number is required to subscribe to SAT Radio programming. Each third party XM or SIRIUS radio comes with this number.

XM Radio:

This number is an 8 character alphanumeric number. It is printed on a label found on the SAT Receiver.

SIRIUS Radio:

This number is a 12 digits number. It is printed on a label found on the SAT Receiver.

It can also be displayed on the screen of the iXA-W404 in the following way.

1 While receiving SAT Radio, touch NO. [◀] or [▶] to select channel '0' for XM and channel '0' or "255" for SIRIUS.

The unit displays the ID number.

2 To cancel the ID number display, change the channel.

- You cannot use "O", "S", "I" or "F" for the ID Number. (XM radio Receiver only)
- You can check the ID number printed on a label on your third party, SAT Radio Receiver package.

Storing Channel Presets

1 After selecting a desired band, touch (A) area to display the preset channel list.

2 Touch and hold any one of the preset stations (1 through 6) for at least 2 seconds.

The selected channel is stored.

3 Repeat the procedure to store up to 5 other channels onto the same band.

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

A total of 18 channels can be stored in the preset memory (6 channels for each band; XM1, XM2 and XM3 or SIRIUS-1, SIRIUS-2 and SIRIUS-3).

- If you store a channel in a preset already being used, the current channel will be replaced with the new one.

Receiving Stored Channels

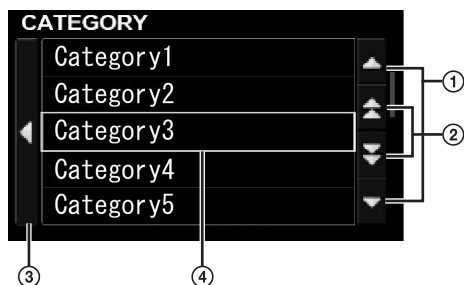
1 After selecting a desired band, touch (A) area to display the preset channel list.

2 Touch any one of the preset stations (1 through 6) that has your desired satellite channel in memory.

Search Function (XM mode)

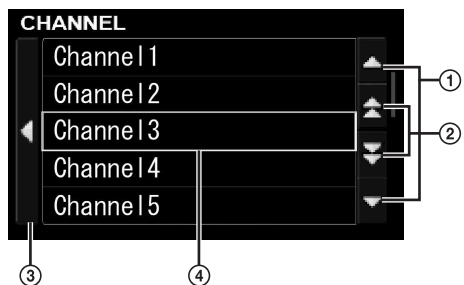
- 1 In XM mode, touch [Q].
The category search list is displayed.

Displayed only when the current station is the preset one



- 1 The list scrolls one line at a time by touching [▲] or [▼].
- 2 Scroll the list one page at a time by touching [▲] or [▼].
- 3 Touch [◀] to return to the previous screen.
- 4 Touch and hold the desired category to receive the selected category channel directly. If there is a hierarchical list, touch the desired category to change the channel name search screen of the selected category.

Display example for channel name search list



- 1 The list scrolls one line at a time by touching [▲] or [▼].
- 2 Scroll the list one page at a time by touching [▲] or [▼].
- 3 Returns to the category search list.
- 4 The selected channel is received.

- 2 Touch the desired Category or Channel name.
The channel in the selected category is tuned.

Search Function (SIRIUS mode)

- 1 Touch [Q] in the SIRIUS mode.
SEARCH menu list is displayed.

- 2 Select the desired SEARCH menu.

Searching by Category

- 1 Touch [CATEGORY].
The CATEGORY search screen is displayed.
- 2 Touch the desired category name to change to channel name search screen of the selected category.
- 3 Touch the desired channel name to receive the channel.

- Touch [▲] or [▼] on the channel name search screen, the category can be changed directly.

Searching by Channel Name

- 1 Touch [CHANNEL].
The CH search screen is displayed.
- 2 Touch the desired channel name to receive the channel.

Searching by Artist Name

- 1 Touch [ARTIST].
The artist name of each channel is displayed in order of channel number.
- 2 Touch the name of the desired artist.
The channel of the selected artist being broadcast is received.

Searching by Song Name

- 1 Touch [SONG].
The song name of each channel is displayed in order of channel number.
- 2 Touch the name of the desired song.
The channel of the selected song being broadcast is received.

Selecting the Channel directly

You can directly select the channel number on the display of the numeric keypad.

- 1 Touch [P1/2] once for XM mode or [P1/3] once for SIRIUS mode.
The function guide appears.

- 2 Touch [10KEY].
The numeric keypad input screen is displayed.

- 3 Touch to input the channel number.

- 4 Touch [ENT].
The selected channel is received.

- When 3 digits are input in the SIRIUS mode, step 4 is not necessary.

Receiving Weather or Traffic information from SAT Radio

1 Touch and hold [NO.] or [NAME] for at least 2 seconds in the XM or SIRIUS mode.

The received weather or traffic channel is stored.

2 Press and hold BAND for at least 2 seconds.

The stored Weather or Traffic channel is recalled.

3 Touch [BACK].

Returns to the normal mode.

- *Stored channels can also be recalled by pressing BAND, even in modes other than XM or SIRIUS mode.*
- *Channels other than Weather or Traffic information can also be stored and recalled.*

Storing the desired Song/Artist (SIRIUS mode only)

A maximum of 30 desired songs and artists (including sports teams) can be stored on the unit. When stored, a message is displayed to announce when stored songs are being broadcast on another radio station, should you wish to listen to it. (Refer to “Receiving the stored information (SIRIUS mode only)” on page 52.)

1 Touch [P1/3] twice to store an artist or song currently being received.

The function guide is changed.

2 Touch [MEMORY].

The ALERT SETUP list is displayed.

3 Touch the SONG or ARTIST in the list you want to store.

The selected songs and artists are registered.

A message is displayed to show the total data quantity of the stored songs, artists and sports teams, and the rest of capacity.

- *“UNABLE TO STORE” appears in the display if there is no song title information and it cannot be stored.*
- *If there is no memory, “MEMORY FULL” is displayed for 2 seconds, and then the display changes to the ALERT list. Touch the song or artist you want to rewrite. message is displayed. If “YES” is touched, the song or artist is rewritten and stored. If “NO” is touched, it is canceled.*
- *“ALREADY STORED” will be displayed if the above information has already been stored.*
- *If [MEMORY] is touched and held for at least 2 seconds, the display changes to the ALERT SETUP screen. Touch [◀] or [▶] of the channel you want to set. If you want ALERT interruption, set to ON, if not, set to OFF.*
- *If the sports team is stored, touch [MEMORY] for at least 2 seconds to change the ALERT SETUP screen and touch [◀] or [▶] to set the receiving interruption type.*

Storing favorite Sports Teams (SIRIUS mode only)

One team from each league can be stored on the unit. When stored, their game status and results are announced when other stations are being listened to, and if you wish, you can go to the station where the game is being broadcast. (Refer to “Receiving the stored information (SIRIUS mode only)” on page 52.)

1 Touch [P1/3] twice to store a game currently being broadcast.

The function guide is changed.

2 Touch [MEMORY].

The display changes to the GAME ALERT SETUP screen. Both the selected team and opponent team names are displayed.

3 Touch the team you want to store.

The selected team is registered.

A message is displayed to show the total data quantity of the stored songs, artists and sports teams, and the rest of capacity.

- *“UNABLE TO STORE” will be displayed if the above information cannot be stored.*
- *Touching and holding [MEMORY] for at least 2 seconds will change to the ALERT SETUP screen. Set the receiving interruption type (INITIAL/SCORE/OFF) by touching [◀] or [▶] of channels you want to set.*
- *“ALREADY STORED” will be displayed if the above information has already been stored.*

Receiving the stored information (SIRIUS mode only)

When stored sports team, song or artist is being broadcast, a message appears and it is announced. The broadcasting channel can be received.

1 When stored information is broadcast, after displaying “SONG ALERT”, “ARTIST ALERT” or “GAME ALERT”, the screen changes to the list display.

2 Touch the channel on the list you want to receive.

The display changes to the selected channel and the channel is received.

- *If [◀] is touched, return to the previous screen.*
- *If no operation is performed for 10 seconds, the screen returns to the main menu.*

Deleting the stored Song/Artist/Sports team information (SIRIUS mode only)

The stored Song/Artist/Sports team information can be deleted. After this, it will no longer announce when the deleted Song/Artist/Sports team is being broadcast.

- 1 Touch [P1/3] twice.**
The function guide changes.
- 2 Touch [DELETE].**
The display changes to the ALERT DELETE screen. The stored song names/artist names/sports team names are displayed.
- 3 Touch the song, artist or sports team in the list you want to delete.**
A message displayed. Touch "YES" to delete the selected song artist or sports team. If "NO" is touched, it is canceled.
 - If [◀] is touched, return to the previous screen.
 - "UNABLE TO DELETE" will be displayed if the above information cannot be deleted.

Offset Playback Function (SIRIUS mode only)

If the SIRIUS radio is interrupted by another source (e.g., telephone call, etc.), the current channel is saved using the memory playback function. At the end of the interruption, use this function to listen to the part of the broadcast that was missed. Channels can be stored continuously for up to 48 minutes.

- 1 Touch [P1/3] twice.**
The function guide changes.
- 2 Touch [▶/||] while receiving the broadcasting program you want to store.**
The "MEMORY MODE" indicator lights up and the progress bar will be displayed.
- 3 Touch [▶/||] again during PAUSE.**
Offset playback commences. The green part on progress bar stands for the stored content (the maximum storing time is 48 minutes). The position of "◇" shows the current playback progress.
 - The time difference between the real broadcasting time and the offset playback time is displayed.
- 4 If [■] is touched, offset playback stops and the display returns to the main screen.**
 - To fast reverse, touch and hold [◀◀]. and to fast forward, touch and hold [▶▶].
 - Touching [◀◀] or [▶▶] will move a track up/down.

Changer (Optional)

An optional CD Changer may be connected to the iXA-W404 if it is Ai-NET compatible. With a CD Changer connected to the Ai-NET input of the iXA-W404, the CD Changer will be controllable from the iXA-W404.

If you connect a changer compatible with MP3, you can play CD-ROMs, CD-Rs, and CD-RWs containing MP3 files on the iXA-W404.

Using the KCA-410C (Versatile Link Terminal) multiple changers can be controlled by the iXA-W404.

See the Multi-Changer Selection section for selecting the CD Changers (explained on page 54).

Playback

- 1 Press [SOURCE] to activate mode switching screen.**
- 2 Slide the display horizontally with your finger to select Audio/Visual mode.**
Each time you slide the display, the mode switches circularly in the following order :
Audio/Visual ↔ Navigation ↔ Camera ↔ Telephone ↔ Multi Info ↔ Audio/Visual
- 3 Slide the display vertically with your finger, or press [SOURCE] repeatedly to select CD CHG. source.**
 - The source name in the display changes from CD CHG. to USB when "Setting the USB Adapter to ON/OFF" (page 24) is set to ON.
- 4 Press [ENTER].**
The CD CHG. source is activated and the display changes to the CD CHG. main screen.
- 5 Touch [◀◀] or [▶▶] to select the desired track (file).**
Returning to the beginning of the current track (file):
Touch [◀◀].
Fast backward:
Touch and hold [◀◀].
Advancing to the beginning of the next track (file):
Touch [▶▶].
Fast forward:
Touch and hold [▶▶].
- 6 To pause playback, touch [▶/||].**
Touching [▶/||] again will resume playback.

Selecting a Disc (Changer) (Optional)

When a Disc CD Changer is connected:

Touch DISC [▼] / [▲] or press **BAND** button to select the desired DISC.

When an MP3 compatible CD changer is connected:

1 Touch [P1/2] to change the Function Guide display.

2 Touch DISC [▼] / [▲] to select the desired DISC.

- When an MP3 compatible CD changer is connected, the unit can play discs containing both audio data and MP3 data.
- The DVD changer (optional) is controllable from the iXA-W404 as well as the CD changer.
- For operation of the connected DVD changer (DHA-S690), refer to the Owner's Manual of DHA-S690.

Multi-Changer Selection (Optional)

When using KCA-410C (Versatile Link Terminal), you can connect two changers.

In changer mode, touch [CHG SEL] twice to select the next changer (connected changers or KCA-420i).

Select the desired Folder (Folder up/down) (MP3 Changer mode)

If you listen to an MP3 file from a selected folder, the folder can be changed.





Touch **FOLDER** [▼] or [▲] to select the folder.

The first file in the selected folder is played back.


Repeat Play

Touch [↺] repeatedly to select the Repeat playback mode.

The file will be played repeatedly.

- | | | |
|----------------------|---|--|
| Repeat One |  | : Only a file is repeatedly played back. |
| Folder ^{*1} |  | : Only files in a folder are repeatedly played back. |
| Disc |  | : A disc is repeatedly played back. |
| Off |  | : Repeat mode is turned off. |





^{*1} When an MP3 compatible CD changer is connected.

- When set Repeat to off,  turns to gray.
- If Repeat Disc is set to ON during M.I.X. One play in CD changer mode, M.I.X. will apply to the current disc only.
- To cancel, select off in the above procedure.

M.I.X. (Random Play)


Touch [⌘] repeatedly to select the M.I.X. played mode.

The songs will be played back in random sequence.

- | | | |
|----------------------|---|---|
| Folder ^{*2} |  | : Only files in a folder are played back in random sequence. |
| M.I.X. One |  | : All files in a disc are played back in random sequence, and playback shifts to the next disc. |
| All ^{*3} |  | : The tracks on all the CDs in the current magazine will be played back in the random sequence. |
| Off |  | : M.I.X. mode is turned off. |

^{*2} When an MP3 compatible CD changer is connected.

^{*3} When a CD changer equipped with the ALL M.I.X. function is connected.

- When set M.I.X. to off,  turns to gray.
- If M.I.X. One is set to ON during Repeat Disc play in CD changer mode, M.I.X. will apply to the current disc only.
- To cancel, select off in the above procedure.

File/Folder Name Search (MP3 Changer mode)

You can display and search for the folder and file name while listening to the file currently being played back.

1 During MP3 playback, touch [🔍] to activate the folder search mode.

The search mode is activated, and the folder search list screen appears.

2 Touch the name of the desired folder.

The File name list of the selected folder is displayed.

3 Touch the name of the desired file.

The selected file is played back.

- Touch and hold [◀] or at least 2 seconds in the search mode to cancel.
- While in the Search mode, touch [◀] to switch to the previous mode.

USB Memory/ Portable audio player (Optional)

A USB memory or Portable audio player can be connected to the iXA-W404 through the USB Connector of this unit.

If a USB memory device or Portable audio player is connected to the unit, MP3/WMA/AAC files of USB memory and MP3/WMA files of Portable audio player can be played back.

BANK Function (USB memory only)

What is a Bank?

A bank is a unit of up to 1,000 songs, which is stored in memory. "Banking" refers to the action of building up a bank (of songs) from the songs available in USB memory.

About Banking

While a bank is being built up, "BANKING" is displayed. If another bank is selected when unit power is turned on, the ACC position is set, or USB connection is made, banking will start. It can take anywhere from a few seconds to up to 10 minutes for banking to complete. This depends on the number of files and folders in USB memory.

Available operations while Banking

- Search functions, such as album search or tag information (artist display, etc.) are available during the banking process. However, during such time, tag information display changes.
- Regular fast-forwarding and next song selection is available.
- During Banking, the played back song order may differ from the song order in USB memory.

This unit has the BANK function that automatically divides every 1,000 songs stored in USB memory into individual banks to make searching and playing back a song easier. A maximum of 1,000 songs for one bank can be stored according to the order stored in USB memory. A maximum of 10 banks (10,000 songs) can be recognized. BANK1 (songs 1 to 1,000) is set as the default. If you want to search beyond 1,000 songs, perform the following operation to select a different bank.

BANK No.	Song number
BANK1	1~1,000
BANK2	1,001~2,000
⋮	⋮
BANK10	9,001~10,000

- 1 Touch **[P1/2]** to change the function guide.
- 2 Touch **BANK [▼]** or **[▲]** to select the desired **BANK**. Each operation can be performed in the selected bank.

- Even if the files are contained in the same folder, they may be saved as different **BANK**.

Playback

- 1 Press **⏻ SOURCE** to activate mode switching screen.
- 2 Slide the display horizontally with your finger to select **Audio/Visual mode**.
Each time you slide the display, the mode switches circularly in the following order :
Audio/Visual ↔ Navigation ↔ Camera ↔ Telephone ↔ Multi Info ↔ Audio/Visual
- 3 Slide the display vertically with your finger, or press **⏻ SOURCE** repeatedly to select **USB source**.
- 4 Press **Q/ENTER**.
The USB source is activated and the display changes to the USB main screen.
- 5 Touch **[◀◀◀]** or **[▶▶▶]** to select the desired track (file).

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

Touch **[◀◀◀]**.

Fast backward (Only for USB memory):

Touch and hold **[◀◀◀]**.

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

Touch **[▶▶▶]**.

Fast forward (Only for USB memory):

Touch and hold **[▶▶▶]**.

- 6 To pause playback, touch **[▶/||]**.

Touching **[▶/||]** again will resume playback.

- AAC and WMA formatted files that are protected by DRM (Digital Rights Management) or any other file with copy-protection, cannot be played back on this unit.
- The playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played back.
- If there is tag information, artist name/album name/track name is displayed.
- ID3 tag/WMA tag
If an MP3/WMA/AAC file contains ID3 tag/WMA tag information, the ID3 tag/WMA tag information is displayed (e.g., song name, artist name, and album name). All other tag data is ignored.
- "NO SUPPORT" is scroll displayed when text information is not compatible with this unit.
- Before disconnecting USB memory, be sure to change to another source or set to pause.

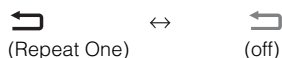
Repeat Play

Only Repeat One is available for this mode.

Repeat One: A single song is repeatedly played back.

1 Touch [↺].

The file will be played repeatedly.



2 To cancel repeat play, touch [↺].

- When set Repeat to off, [↺] turns to gray.

Random Play Shuffle (M.I.X.)

The Shuffle function of the USB memory or Portable audio player is displayed as on the iXA-W404.

Shuffle ALL :

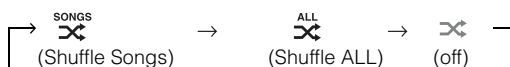
All songs in the USB memory or Portable audio player are played back in random sequence. Any one song does not play back again until all songs have been played back.

Shuffle Songs :

Song shuffle 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.

1 Touch [].

The songs will be played back in random sequence.



2 To cancel M.I.X. play, touch [].

- When set M.I.X. to off, turns to gray.
- When a song is played back during Random (M.I.X.) play, the song can be played back again randomly even if not all songs on the USB Memory have been played back.

Searching for a desired Song

A USB memory or Portable audio player can contain hundreds of songs. By using file tag information and keeping these songs organized in playlists, this unit's search functions will ease song searches.

Each music category has its own individual hierarchy. Use the Playlists/Artists/Albums/Songs/Genres/Composers/Folders/Files search mode to narrow searches based on the table below.

Hierarchy 1	Hierarchy 2	Hierarchy 3	Hierarchy 4
Playlist	Song	—	—
Artist*	Album*	Song	—
Album*	Song	—	—
Song	—	—	—
Genre*	Artist*	Album*	Song
Composer*	Album*	Song	—
Folder	File	—	—
File	—	—	—

For example: Searching by Artist name

The following example explains how an Artists search is performed. Another search mode can be used for the same operation, although the hierarchy differs.

Searching by artist name

1 Touch [].

The search mode is activated, and the search list screen appears.

- Touching [] for at least 2 seconds will return to last search mode.

2 Touch the title of Artists.

The Artists search screen is displayed.

3 Select the desired artist.

To play back the artist directly

- 1 Touch and hold the artist's name for at least 2 seconds. All songs of the selected artist are played back.

To search for the album of an artist

- 1 Touch the artist's name. The Albums search screen of the selected artist is displayed.
- 2 Touch and hold the desired album's name for at least 2 seconds. All songs of the selected album are played back.

To search for a song in the album of an artist

- 1 Touch the desired album's name in "To search for the album of an artist" in step 1. The Songs search screen of the selected album is displayed.
- 2 Touch the desired song's name. The selected song is played back.

- Touching and holding the title of ALL will play back all songs in the list when you are in a hierarchy with an asterisk "*" (see table on the left column).
- Touching the title of ALL will display the search list in the next hierarchy.
- When search is made during M.I.X. play, the M.I.X. play mode will be canceled.
- In the search mode, you can skip the list one page, one alphabet*¹ or 10 percent at a time by touching [] or []. You can select your preferred skip style in "Skip Style Setting" (page 18). For Skip Style function details, refer to "Page Skip Function/Percent Skip Function/Alphabet Skip Function" (page 60).
- In the search mode, touch [] to return to the previous menu.

*¹ Titles are listed alphabetically, and can be skipped every 200 titles with the same beginning alphabetical character. If there are fewer than 200 titles, titles beginning with the next alphabetical character are selected. e.g. touch [] switch to the section begin with alphabet B from A. (Only applicable to English alphabetic characters.)

Selecting Playlists/Artists/Albums/ Genres/Composers

Playlists/Artists/Albums/Genres/Composers can be easily changed. For example, if you listen to a song from a selected album, the album can be changed.

Touch [▼] or [▲] to select the desired Playlists/Artists/Albums/Genres/Composers.

- If search selection mode is not activated, a Songs search is not possible.
- If an album is selected from an artist search, the album can be searched.
- During shuffle (M.I.X.) playback, this operation is not possible.

Select the desired Folder (Folder up/ down)

If you listen to a file from a selected folder, the folder can be changed.

Touch FOLDER [▼] or [▲] to select the folder.

Creating the playlist from the Artist/ Album information of the current song

When a song is played back, a playlist about all the songs with the same Artist or Album stored in the USB memory or Portable audio player can be created.

1 Touch [P1/2] when a song is played back.

The function guide changes.

2 Touch [ART] or [ART] to create the playlist.

- According to the artist/album information of the current song, a playlist about all the songs with the same artist/album of the BANK are made into a playlist, which then starts to play back.

About MP3/WMA/AAC

CAUTION

Except for private use, duplicating audio data (including MP3/WMA/AAC 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-1 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 AAC?

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

What is WMA?

WMA, or "Windows Media™ Audio," is compressed audio data. WMA is similar to MP3 audio data and can achieve CD quality sound with small file sizes.

Method for creating MP3/WMA/AAC files

Audio data is compressed by using MP3/WMA/AAC specified software. For details on creating MP3/WMA/AAC files, refer to the user's manual for that software.

MP3/WMA/AAC file extensions that can be played back on the unit are as follows:

MP3: "mp3"

WMA: "wma" (ver. 7.1, 8, 9, 9.1, 9.2 supported)

AAC: "m4a"

WMA is not supported for the following files, Windows Media Audio Professional, Windows Media Audio 9 Voice or Windows Media Audio 9 Pro Lossless.

Depending on the software that is used to create AAC, the file format may differ from the extension.

Playback of AAC files encoded by iTunes is supported.

Supported playback sampling rates and bit rates

MP3

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

Bit rates: 32 - 320 kbps

WMA

Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz

Bit rates: 16 - 320 kbps

AAC

Sampling rates: 48 kHz, 44.1 kHz

Bit rates: 8 - 576 kbps

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

The playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played back.

ID3 tags/WMA tags

This device supports ID3 tag v1 and v2.2.0, v2.3.0 and WMA tag. The following files do not support compression, coding, grouping or non-synchronization. If tag data is in an MP3/WMA/AAC file, this device can display the title (track title), artist name, and album name ID3 tag/WMA tag data.

If information contains characters other than ID3 tag information, the audio file may not be played back.

The tag information may not be correctly displayed, depending on the contents.

Playing back MP3/WMA/AAC

MP3/WMA/AAC files are prepared, then stored to a USB memory. Or, synchronize an MP3/WMA file using Windows Media Player (Ver. 10 or 11), and then forward to the Portable audio player. This unit can recognize at least 256 folders (including root folder) and 10000 files per folder stored in USB memory.

Playback may not be performed if a USB memory/Portable audio player exceeds the limitations described above.

Do not make a file's playback time more than 1 hour.

Media supported

This device can play back USB memory/Portable audio player media.

Corresponding File Systems

This device supports FAT 12/16/32 for USB memory device/Portable audio player.

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 files.

Root folder

The root folder is found at the top of the file system. The root folder contains all folders and files.

iPhone/iPod (Optional)

An iPhone/iPod can be connected to this unit, by using the USB connection cable. When this unit is connected by using the cable, the controls on the iPod are not functional.

- Internet or telephone functions, etc., of the iPhone or iPod touch are not controllable from the unit, but these functions can be controlled using the iPhone or iPod touch itself.
- If you connect an iPhone to this unit, it can be used as an iPod. If you use iPhone as a hands-free phone, you need the optional BLUETOOTH INTERFACE (KCE-400BT).
- This unit does not support the iPod FULL SPEED™ connection. Therefore, even if you connect an iPhone/iPod using the FULL SPEED™ connection cable (KCE-433iV) on the BLUETOOTH INTERFACE (KCE-400BT), you cannot operate the iPhone/iPod.
- To watch the video screen of the video file in the iPod (iPhone, iPod touch, iPod classic, iPod with Video, Third generation iPod nano and fourth generation iPod nano), do the operation as below.

Your vehicle must be parked with the ignition key in the ACC or ON position. To do this, follow the procedure below.


- 1 Push the foot brake to bring your vehicle to a complete stop at a safe location. Engage the parking brake.
- 2 Keep pushing the foot brake and release the parking brake once then engage it again.
- 3 While the parking brake is being engaged the second time, release the foot brake.

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



About iPhone/iPod models usable with this unit



- This unit can be used with the following iPhone/iPod versions. Correct function of earlier versions cannot be guaranteed.
 - iPhone 3G : Ver.2.2
 - iPhone : Ver.2.2
 - iPod touch (2nd generation): Ver.2.2
 - iPod touch (1st generation): Ver.2.2
 - iPod classic (80,160 GB): Ver.1.1.2
 - iPod classic (120 GB): Ver.2.0.1
 - iPod with video : Ver.1.3
 - iPod nano (4th generation): Ver.1.0.3
 - iPod nano (3rd generation) : Ver.1.1.3
 - iPod nano (2nd generation) : Ver.1.1.3
 - iPod nano (1st generation) : Ver.1.3.1
- If the unit is used with iPod software versions of iTunes earlier than 8.0.2, correct function and performance are not guaranteed.


Playback


- 1 Press  SOURCE to activate mode switching screen.**
- 2 Slide the display horizontally with your finger to select Audio/Visual mode.**


Each time you slide the display, the mode switches circularly in the following order :



Audio/Visual ↔ Navigation ↔ Camera ↔ Telephone ↔ Multi Info ↔ Audio/Visual
- 3 Slide the display vertically with your finger, or press  SOURCE repeatedly to select iPod source.**
- 4 Press  /ENTER.**


The iPod source is activated and the display changes to the iPod main screen.
- 5 Touch [] or [] to select the desired song.**





Return to the beginning of the current song:
Touch [].

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

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

Fast forward the current song:
Touch and hold [].
- 6 To pause playback, touch [/II].**

Touching [/II] again will resume playback.

 - If a song is playing on the iPhone/iPod when it is connected to the iXA-W404, it will continue playing after the connection.
 - If you listen to an episode from a selected podcast or audiobook, the episode can be changed by touching **Episode** [] or [].
 - An episode may have several chapters. The chapter can be changed by pressing [] 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 iXA-W404. Therefore, a maximum of 250 characters is recommended. The maximum number of characters for the head unit is 128 (128 byte).
 - Some characters may not be correctly displayed.
 - "NO SUPPORT" is displayed when text information is not compatible with the iXA-W404.

Searching for a desired Song

An iPhone/iPod can contain hundreds of songs. By keeping these songs organized in playlists, the iXA-W404 can use these to ease song searches.

Using the 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	—	—	—
Podcasts	Episodes	—	—
Genres*	Artists*	Albums*	Songs
Composers*	Albums*	Songs	—
Audiobooks	—	—	—

- You can select your preferred search mode. Refer to "iPod Search Mode Setting" (page 18).
- Video search mode depends on the iPhone/iPod. If the specification of the iPhone/iPod is changed, the search mode on this unit will also be changed.


For example: Searching by Artist name

The following example explains how an Artists search is performed. Another search mode can be used for the same operation, although the hierarchy differs.

Searching by artist name

- 1 Touch [].**

The search mode is activated, and the search list screen appears.

 - Touching [] for at least 2 seconds will return to last search mode.
- 2 Touch [Music].**

The Music search menu screen is displayed.

 - If Video mode is selected, the Video playlists/Movies/Music Videos/TV Shows/Video Podcasts search mode may be used depending on the connected iPhone/iPod. (only for iPhone or iPod compatible video)
- 3 Touch the title of Artists.**

The Artists search screen is displayed.
- 4 Select the desired artist.**

To play back the artist directly

- 1 Touch and hold the artist's name for at least 2 seconds.
All songs of the selected artist are played back.

To search for the album of an artist

- 1 Touch the artist's name.
The Albums search screen of the selected artist is displayed.
- 2 Touch and hold the desired album's name for at least 2 seconds.
All songs of the selected album are played back.

To search for a song in the album of an artist

- 1 Touch the desired album's name in "To search for the album of an artist" in step 1.
The Songs search screen of the selected album is displayed.
 - 2 Touch the desired song's name.
The selected song is played back.
- Touching and holding the title of ALL will play back all songs in the list when you are in a hierarchy with an asterisk "*" (see table on the previous page).
 - Touching the title of ALL will display the search list in the next hierarchy.
 - If the iPhone/iPod models name is selected and touched in the Playlists search mode, all songs in the iPhone/iPod are searchable. If you touch and hold the iPhone/iPod models name for at least 2 seconds, all songs in the iPhone/iPod are played back beginning from the first song listed.
 - When search is made during M.I.X. play, the M.I.X. play mode will be canceled.
 - In search mode, touch [◀] to return to the previous menu.

Page Skip Function/Percent Skip Function/Alphabet Skip Function

The unit is provided with a page skip/percent skip/alphabet skip function for effective searching. When you use this function in the search mode, you can quickly search an artist or a song, etc.

Before using search mode, choose your favorite Function first. For the setting operation, please refer to "Skip Style Setting" (page 18).

- Page skip function:** The list is skipped page by page. (factory setting)
- Alphabet skip function^{*1}:** The alphabet skip function is skipped to the next alphabet such as from A to B, B to C. You can also skip in reverse order such as B to A.
- Percent skip function:** For example, 100 songs are stored in the iPhone/iPod. These 100 songs are divided into 10 groups (0%, 10%, ... 90%).

Display example for ALBUMS search screen



- ① Displays the current search mode.
- ② Skip the list one page, one alphabet^{*2} or 10 percent at a time by touching [▲] or [▼]. Touching and holding [▲] or [▼] the display continuously changes.
- ③ Scroll the list one line at a time by touching [▲] or [▼].
- ④ Touch [◀] to return to the previous menu.

^{*1} Only applicable to English alphabetic characters.

^{*2} Titles are listed alphabetically, and can be skipped every 200 titles with the same beginning alphabetical character. If there are fewer than 200 titles, titles beginning with the next alphabetical character e.g. touch [▼], switch to the section beginning with alphabet B from A.

Selecting Playlist/Artist/Album/Genre/Composer/Episode/Category


Playlist/Artist/Album/Genre/Composer/Episode/Category^{*3} can be easily changed. For example, if you listen to a song from a selected album, the album can be changed.

Press [▼] or [▲] to select the desired Playlist/Artist/Album/Genre/Composer/Episode/Category^{*3}.

^{*3} Category can be changed only when play back the video files of iPhone/iPod.

- The operation can also be performed by pressing in the outer ring and rotating the Double Action encoder.
- If search selection mode is not activated, a Song search is not possible.
- During shuffle (M.I.X.) playback, this operation is not possible.
- If Playlist/Artist/Album/Genre/Composer/Episode are not searched, this operation is not possible.

Random Play Shuffle (M.I.X.)

The Shuffle function of the iPhone/iPod is displayed as  on the iXA-W404.

Shuffle ALL:

All songs in the iPhone/iPod are played back in random sequence. Any one song does not play back again until all songs have been played back.

Shuffle Albums :

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.

Shuffle Songs :



Song shuffle 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.

1 Touch [P1/2].




The function guide is displayed.

2 Touch [MIX ALL]*.


The songs will be played back in random sequence.

MIX ALL  ↔ 
(Shuffle ALL) (off)

Touch [].

 (Shuffle Albums) →  (Shuffle Songs) →  (off)

3 To cancel M.I.X. play, touch [MIX ALL] or [].

- When set M.I.X. to off,  turns to gray.
- For details of the search mode, refer to "Searching for a desired Song" (page 59).
- If a song is selected in the album search mode before selecting Shuffle (M.I.X.), the songs will not play back randomly even when Shuffle album is selected.

* This operation cannot be performed for the video files of iPhone/iPod.



Repeat Play


Only Repeat One is available for the iPhone/iPod.

Repeat One: A single song is repeatedly played back.



1 Touch [].

The file will be played repeatedly.

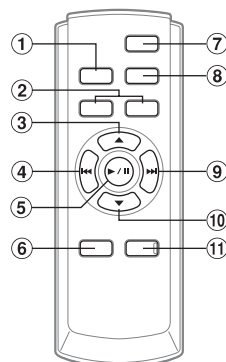
 ↔ 
(Repeat One) (off)

- When set Repeat to off,  turns to gray.

2 To cancel repeat play, touch [].

- During repeat playback, no other songs are selectable by touching [] or [].

Remote Control





Controls on Remote Control

① Source Button

Press this button repeatedly to select the Audio/Visual source.

② Volume Adjustment Buttons

To increase the volume level:
Press the  button

To decrease the volume level:
Press the  button

③ ▲ Button

Radio mode: Pressing this button will select, in ascending order, stations programmed into the radio's presets as shown below.

 →  ...  → 

Changer mode: DISC Select (UP) button

Press this button to select a disc in ascending order.

MP3/WMA/AAC mode: Switches Folder/Playlist/Artist/Album/Genre/Composer.

iPod mode: Switches Playlist/Artist/Album/Genre/Composer/Episode.

④ ◀◀ DN Button

Radio mode: SEEK (DN) button

SAT mode: Channel (DN) button

MP3/WMA/AAC iPod mode:

Press the button to go back to the beginning of the current file. Press and hold to fast reverse.

Changer mode:

Press the button to go back to the beginning of the current track/file. Press and hold to fast reverse.

⑤ ►/II Button

- Radio mode: Chooses the tuning mode.
By pressing it more than 2 seconds,
Automatic Memory will be operated.
- SAT mode: Switches between CH No. and CH name.
- MP3/WMA/AAC iPod mode:
Switches between play and pause.

⑥ Audio Processor Button

- Press the button to display AUDIO SETUP screen.
Press the button to display A.PROCESSOR list screen when
the external audio processor is connected.*

* For the operation of external audio processor, refer to the Owner's Manual of the external audio processor you purchased. When the IMPRINT-BOX (PXA-H100) (sold separately) is connected, refer to "IMPRINT Operation (Optional)" on page 34.

⑦ Power Button

- Press this button to turn the power on/off.

⑧ Band Button

- Radio mode: To change the band.
Changer mode: To change the disc.

⑨ ►► UP Button

- Radio mode: SEEK (UP) button
SAT mode: Channel (UP) button
MP3/WMA/AAC iPod mode:
Press the button to advance to the beginning
of the next file. Press and hold to fast
forward.
- Changer mode:
Press the button to advance to the beginning
of the next track/file. Press and hold to fast
forward.

⑩ ▼ Button

- Radio mode: Pressing this button will select, in descending
order, stations programmed into the radio's presets as
shown below.

[6] → [5] ... [1] → [6]

- Changer mode: DISC Select (DN) button
Press this button to select a disc in descending order.

MP3/WMA/AAC mode: Switches Folder/Playlist/Artist/
Album/Genre/Composer.

iPod mode: Switches Playlist/Artist/Album/Genre/
Composer/Episode.

⑪ Mute Button

- Press this button to lower the volume by 20 dB instantly.
Press this button again to cancel.

When Using the Remote Control

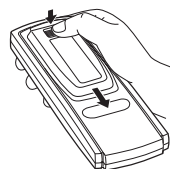
- Point the remote control at the remote sensor within about 2 metres.
- It may not be possible to operate the remote control if the remote control sensor is exposed to direct sunlight.
- The remote control is a small, lightweight precision device. To avoid damage, short battery life, operational errors and poor response, observe the following.
 - Do not subject the remote control to excessive shock.
 - Do not put in a trouser pocket.
 - Keep away from food, moisture and dirt.
 - Do not place in direct sunshine.

Battery Replacement

Applicable battery: Use two "AAA" sized dry batteries or equivalent.

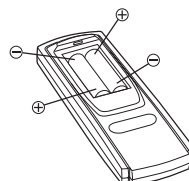
1 Opening the battery cover

Slide out the battery cover while firmly pressing in the direction of the arrow.



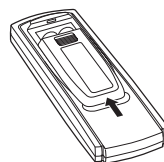
2 Replacing the battery

Insert the batteries, observing the polarities as illustrated.



3 Closing the cover

Slide the cover as illustrated until a click is heard.



⚠ Warning
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.

Information

List of World Clock

(For details, see page 14.)

Continent	City	Time Difference (GMT)	Continent	City	Time Difference (GMT)
Asia	Tokyo	+9:00	North America	New Orleans	-6:00
	Beijing	+8:00		Atlanta	-5:00
	Hong Kong	+8:00		Kansas	-6:00
	Taipei	+8:00		Chicago	-6:00
	Manila	+8:00		Detroit	-5:00
	Bangkok	+7:00		Boston	-5:00
	Singapore	+8:00		New York	-5:00
	Jakarta	+7:00		Denver	-7:00
	Mumbai	+5:30		Seattle	-8:00
	Tehran	+4:30		San Francisco	-8:00
	Jiddah	+3:00		Los Angeles	-8:00
Europe	Moscow	+4:00	Las Vegas	-8:00	
	Berlin	+1:00	Honolulu	-10:00	
	Bucharest	+2:00	Vancouver	-8:00	
	Athens	+2:00	Toronto	-5:00	
	Helsinki	+2:00	Ottawa	-5:00	
	Warsaw	+1:00	Anchorage	-9:00	
	Stockholm	+1:00	Panama	-5:00	
	Oslo	+1:00	Kingston	-5:00	
	Copenhagen	+1:00	Mexico	-6:00	
	Zurich	+1:00	South America	Rio de Janeiro	-2:00
	Vienna	+1:00		Sao Paulo	-2:00
	Rome	+1:00		Brasilia	-3:00
	Amsterdam	+1:00		Buenos Aires	-3:00
	London	+0:00		Santiago	-4:00
	Paris	+1:00		Lima	-5:00
	Madrid	+1:00		Quito	-6:00
	Ankara	+2:00		Bogota	-5:00
Africa	Johannesburg	+2:00		Oceania	Sydney
	Tunis	+1:00	Melbourne		+10:00
	Nairobi	+3:00	Adelaide		+9:30
	Cairo	+2:00	Auckland		+12:00

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 authorized Alpine 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.
- Improper power lead connections.
 - Check power lead connections.
- Blown fuse.
 - Check the fuse on the battery lead of the unit; replace with the proper value if necessary.
- Internal micro-computer malfunctioned due to interference noise, etc.
 - Press the RESET switch with a ballpoint pen or other pointed article.
- Blackout mode is activated.
 - Cancel Blackout mode.

No sound or unnatural sound.

- Incorrect setting of volume/balance/fader controls.
 - Readjust the controls.
- Connections are not properly or securely made.
 - Check the connections and firmly connect.

Screen not displayed.

- Brightness control is set at the minimum position.
 - Adjust the Brightness control.
- Connections to the DVD, CD player, navigation system are not securely made.
 - Check the connections and firmly connect.

Movement of displayed picture is abnormal.

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

Unclear or noisy display.

- Fluorescent plate is worn out.
 - Replace the fluorescent plate.

Navigation system inoperative.

- Connections to the navigation system are incorrect.
 - Check the connections with the navigation system and connect the cables correctly and firmly.

The remote control is inoperative.

- The remote control sensor setting of "Rear Entertainment Function" is not set to this unit.
 - Set for this unit.

Radio

Unable to receive stations.

- No antenna, or open connection in the antenna cable.
 - Make sure the antenna is properly connected; replace the antenna or cable if necessary.

Unable to tune stations in the seek mode.

- You are in a weak signal area.
 - Make sure the tuner is in DX 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.
- The antenna may not be the proper length.
 - Make sure the antenna is fully extended; if broken, replace the antenna with a new one.

Broadcast is noisy.

- The antenna is not the proper length.
 - Extend the antenna fully; replace it if it is broken.
- The antenna is poorly grounded.
 - Make sure the antenna is grounded properly at its mounting location.
- The station signal is weak and noisy.
 - If above solution does not work, tune in another station.

Indication for CD changer

HI-TEMP

- Protective circuit is activated due to high temperature.
 - The indicator will disappear when the temperature returns to within operation range.

ERROR 01

- Malfunction in the CD Changer.
 - Consult your Alpine dealer. Press the magazine eject button and pull out the magazine. Check the indication. Insert the magazine again. If the magazine cannot be pulled out, consult your Alpine dealer.
- Magazine ejection not possible.
 - Press the magazine eject button. If the magazine does not eject, consult your Alpine dealer.

ERROR 02

- A disc is left inside the CD Changer.
 - Press the eject button to activate the eject function. When the CD Changer finishes the eject function, insert an empty CD magazine into the CD Changer to receive the disc left inside the CD Changer.
-

NO MAGAZINE

- No magazine is loaded into the CD Changer.
 - Insert a magazine.
-

NO DISC

- No indicated disc.
 - Choose another disc.
-

Indication for SAT Receiver Mode

CHECK ANTENNA (XM mode)

ANTENNA ERROR (SIRIUS mode)

- The XM or SIRIUS antenna is not connected to the XM or SIRIUS radio module.
 - Check whether the XM or SIRIUS antenna cable is attached securely to the XM or SIRIUS radio module.
-

UPDATING

- Radio is being updated with latest encryption code.
 - Wait until encryption code is being updated. Channels 0 and 1 should function normally.
-

NO SIGNAL (XM mode)

ACQUIRING SIGNAL (SIRIUS mode)

- XM or SIRIUS signal is too weak at the current location.
 - Wait until the car reaches a location with a stronger signal.
-

LOADING

- Radio is acquiring audio or program information.
 - Wait until the radio has received the information.
-

CHANNEL OFF AIR (XM mode)

ACQUIRING SIGNAL (SIRIUS mode)

- The channel currently selected has stopped broadcasting.
 - Select another channel.
-

CHAN UNAVAILABLE (XM mode)

- Unavailable channel.
 - Choose another channel.
-

CH UNAUTHORIZED (XM mode)

- Unauthorized channel.
 - Choose another channel.
-

- The user has selected a channel number that does not exist or is not subscribed to.
 - The unit will revert back to the previously selected channel.
 - There is no artist name/feature, song/program title, or additional information associated with the channel at that time.
 - No action needed. (XM mode)
-

Indication for iPhone/iPod Mode

CURRENT ERROR

- Abnormal current is run to the USB connector device.
 - Attempt to connect another iPhone/iPod.
-

USB DEVICE ERROR

- An iPhone/iPod that is not supported by the unit is connected.
 - Connect an iPhone/iPod that is supported by the unit.
 - Reset the iPod.
-

NO USB DEVICE

- An iPhone/iPod is not connected.
 - Make sure the iPhone/iPod is correctly connected and the cable is not excessively bent.
-

NO SONG

- There are no songs in the iPhone/iPod.
 - Download songs to the iPhone/iPod and connect to the iXA-W404.
-

ERROR 01

- Communication error.
 - Turn the ignition key off, and then set to ON again.
 - Check the display by reconnecting between the iPhone/iPod and the unit, using the iPhone/iPod cable.
-

ERROR 02

- Caused by the iPhone/iPod Software Version not being compatible with this unit.
 - Update the iPhone/iPod Software Version to be compatible with this unit.
-

ERROR 03

- The iPhone/iPod is not verified.
 - Change another iPhone/iPod.
-

Indication for USB memory/Portable audio player mode

CURRENT ERROR

- Abnormal current is run to the USB connector device. USB memory/Portable audio player is a malfunction or it is shorted.
 - Connect another USB memory/Portable audio player.
-

USB DEVICE ERROR

- A USB device/Portable audio player that is not supported by the unit is connected.
 - Attempt to connect another USB memory/Portable audio player.
-

NO USB DEVICE

- A USB memory/Portable audio player is not connected.
 - Make sure the USB memory device/Portable audio player is correctly connected and the cable of Portable audio player is not excessively bent.
-

NO SONG

- There are no songs in the USB memory/Portable audio player.
 - Download songs to the USB memory/Portable audio player and connect to this unit.
-

UNSUPPORTED

- A sampling rate/bit rate not supported by the unit is used.
 - Use a sampling rate/bit rate that is supported by the unit.
-

PROTECT

- A copy-protected WMA file was played back.
 - You can only play back non-copy-protected files.
 - Make sure the Portable audio player is set to MTP.
-

ERROR 01

- Communication error.
 - Turn the ignition key off, and then set to ON again.
 - Check the display by reconnecting between the USB memory/Portable audio player and the unit.
-

ERROR 02

- Caused by the Portable audio player Software Version not being compatible with this unit.
 - Update the Portable audio player Software Version to be compatible with this unit.
-

ERROR 03

- The Portable audio player is not verified.
 - Change another Portable audio player.
-

Specifications

MONITOR SECTION

Screen Size	4.3"
LCD Type	Transparent type TN LCD
Operation System	TFT active matrix
Number of Picture Elements	93,600 pcs. (400 × 234)
Effective Number of Picture Elements	99% or more
Illumination System	LED

FM TUNER SECTION

Tuning Range	87.7 – 107.9 MHz
Mono Usable Sensitivity	9.3 dBf (0.8 μV/75 ohms)
50 dB Quieting Sensitivity	13.5 dBf (1.3 μV/75 ohms)
Alternate Channel Selectivity	80 dB
Signal-to-Noise Ratio	65 dB
Stereo Separation	35 dB
Capture Ratio	2.0 dB

AM TUNER SECTION

Tuning Range	530 – 1,710 kHz
Usable Sensitivity	22.5 μV/27 dB

USB SECTION

USB requirements	USB 1.1/2.0
Max. Power Consumption	500mA
USB Class	USB (Play From Device)/ USB (Mass Storage Class)
File System	FAT12/16/32
MP3 Decoding	MPEG-1/2 AUDIO Layer-3
WMA Decoding	Windows Media™ Audio
AAC Decoding	AAC-LC format “.m4a” file
Number of Channels	2-Channel (Stereo)
Frequency Response*	5-20,000 Hz (±1 dB)
Total Harmonic Distortion	0.008% (at 1 kHz)
Dynamic Range	95 dB (at 1 kHz)
Signal-to-Noise Ratio	105 dB
Channel Separation	85 dB (at 1 kHz)

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

REMOTE CONTROL

Battery Type	AAA batteries (2 pcs.)
Width	42 mm (1-21/32")
Height	121 mm (4-25/32")
Depth	23mm (29/32")
Weight	50 g (1.8 oz)

GENERAL

Power Requirement	14.4 V DC (11–16 V allowable)
Operating temperature	+14°F to +140°F (–10°C to +60°C)

Power Output	18 W RMS × 4*
--------------	---------------

* Primary amplifier ratings per CEA-2006 Standard

- Power output: measured at 4 Ohms and ≤ 1% THD+N
- S/N: 80 dBA (reference: 1 W into 4 Ohms)

Output Voltage	2,000 mV/10 k ohms
Bass	±14 dB at 60 Hz
Treble	±14 dB at 10 kHz
Weight	1.6 kg (3 lbs. 8 oz)

Audio output level

Preout (Front, Rear):	2 V/10 k ohms (max.)
Preout (Subwoofer):	2 V/10 k ohms (max.)
AUX OUT:	1.2 V/10 k ohms
Ai-NET:	850 mV

CHASSIS SIZE (Monitor section)

Width	178 mm (7")
Height	100 mm (3-15/16")
Depth	141 mm (5-9/16")

- *Due to continuous product improvement, specifications and design are subject to change without notice.*
- *The LCD panel is manufactured using an extremely high precision manufacturing technology. Its effective pixel ratio is over 99.99%. This means that there is a possibility that 0.01% of the pixels could be either always ON or OFF.*

Installation and Connections

Before installing or connecting the unit, please read the following and pages 4 to 6 of this manual thoroughly for proper use.

Warning

MAKE THE CORRECT CONNECTIONS.

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

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.

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.

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

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

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

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.

Precautions

- Be sure to disconnect the cable from the (-) battery post before installing your iXA-W404. This will reduce any chance of damage to the unit in case of a short-circuit.
- Be sure to connect the color coded leads according to the diagram. Incorrect connections may cause the unit to malfunction or damage to the vehicle's electrical system.
- When making connections to the vehicle's electrical system, be aware of the factory installed components (e.g. on-board computer). Do not tap into these leads to provide power for this unit. When connecting the iXA-W404 to the fuse box, make sure the fuse for the intended circuit of the iXA-W404 has the appropriate amperage. Failure to do so may result in damage to the unit and/or the vehicle. When in doubt, consult your Alpine dealer.
- The iXA-W404 uses female RCA-type jacks for connection to other units (e.g. amplifier) having RCA connectors. You may need an adaptor to connect other units. If so, please contact your authorized Alpine dealer for assistance.
- Be sure to connect the speaker (-) leads to the speaker (-) terminal. Never connect left and right channel speaker cables to each other or to the vehicle body.
- The Display must be completely retracted in the casing when installing. If it is not, problems may occur.
- When installing in automobiles, make sure the Display can open/close without coming in contact with the gear shift.

IMPORTANT

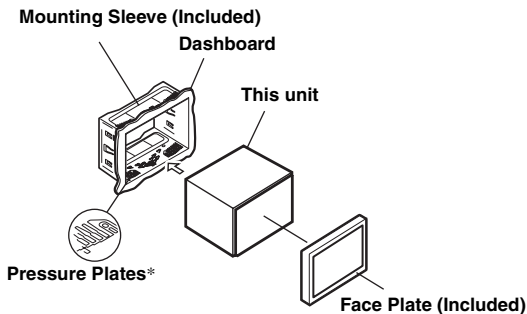
Please record the serial number of your unit in the space provided below and keep it as a permanent record. The serial number plate is located on the bottom of the unit.

SERIAL NUMBER: _____
INSTALLATION DATE: _____
INSTALLATION TECHNICIAN: _____
PLACE OF PURCHASE: _____

Installation

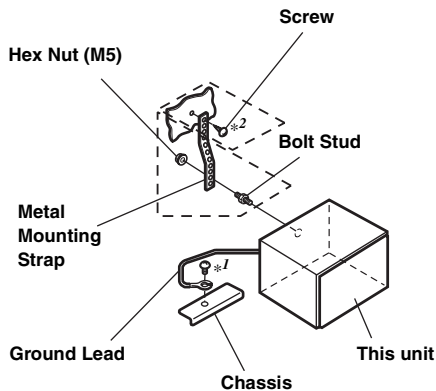
Caution concerning the installation location

- 1 Remove the mounting sleeve from the main unit (see "Removal" on page 69). Slide the unit into the mounting sleeve and secure it. The supplied face plate may be mounted.



* If the installed mounting sleeve is loose in the dashboard, the pressure plates may be bent slightly to remedy the problem.

2



Reinforce the head unit with the metal mounting strap (not supplied). Secure the ground lead of the unit to a clean metal spot using a screw (*1) already attached to the vehicle's chassis.

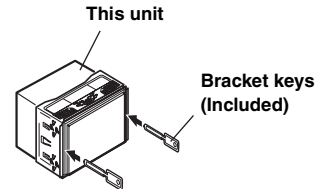
- For the screw marked "*2", use an appropriate screw for the chosen mounting location.

Connect each input lead coming from an amplifier or equalizer to the corresponding output lead coming from the left rear of the iXA-W404. Connect all other leads of the iXA-W404 according to details described in the CONNECTIONS section.

- 3 Slide the iXA-W404 into the dashboard until it clicks. This ensures that the unit is properly locked and will not accidentally come out from the dashboard.

Removal

1. Insert the bracket keys into the unit, along the guides on either side. The unit can now be removed from the mounting sleeve.

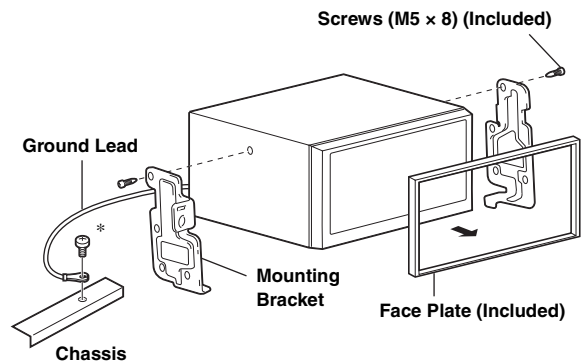


2. Pull the unit out, keeping it unlocked as you do so.

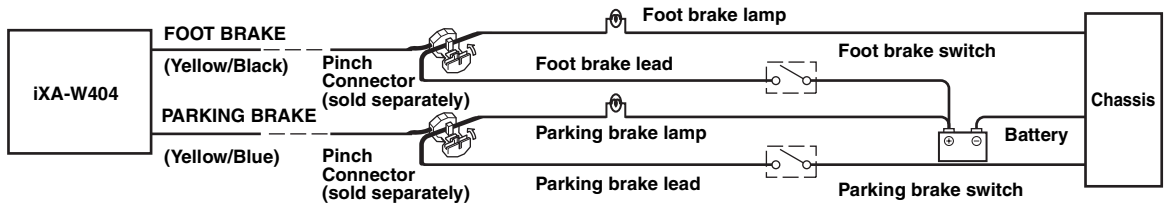
<JAPANESE CAR>

Take the face plate off, and secure the ground lead of the unit to a clean metal spot using a screw (*) already attached to the car's chassis.

Attach the Original Mounting Bracket to each side of the iXA-W404, using the screws supplied with iXA-W404.

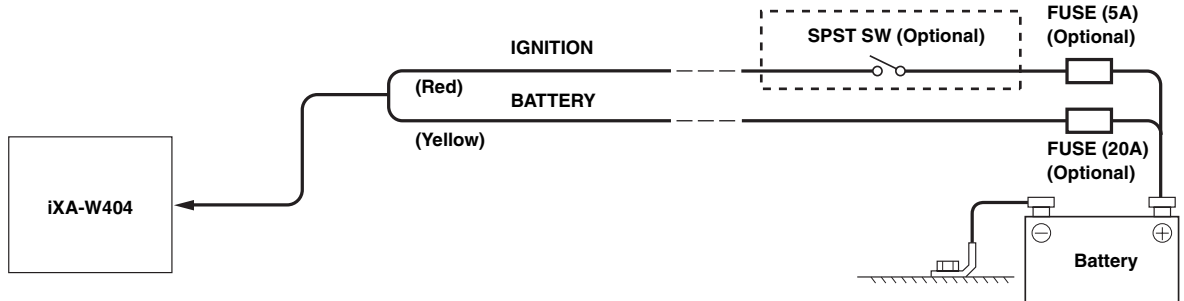


Foot Brake Lead / Parking Brake Lead Connection



Connection Diagram of SPST Switch (Sold Separately)

(If the ACC power supply is not available)

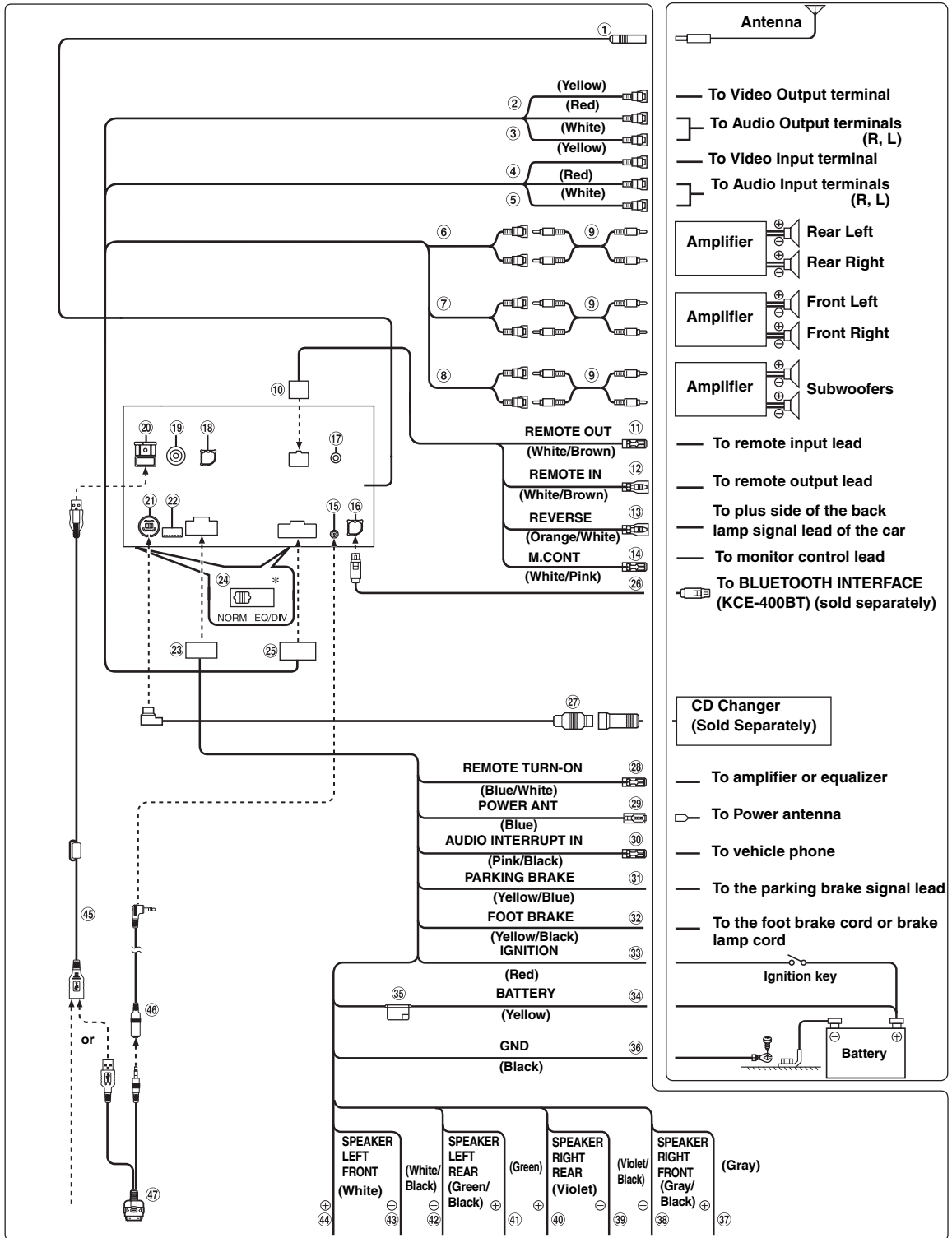


- If your vehicle has no ACC power supply, add an SPST (Single-Pole, Single-Throw) switch (sold separately) and fuse (sold separately).
- The diagram and the fuse amperage shown above are in the case when iXA-W404 is used individually.
- If the switched power (ignition) lead of the iXA-W404 is connected directly to the positive (+) post of the vehicle's battery, the iXA-W404 draws some current (several hundred milliamperes) even when its switch is placed in the OFF position and the battery may be discharged.

To prevent external noise from entering the audio system.

- Locate the unit and route the leads at least 10 cm away from the car harness.
- Keep the battery power leads as far away from other leads as possible.
- Connect the ground lead securely to a bare metal spot (remove any paint, dirt or grease if necessary) of the car chassis.
- If you add an optional noise suppressor, connect it as far away from the unit as possible. Your Alpine dealer carries various noise suppressors, contact them for further information.
- Your Alpine dealer knows best about noise prevention measures so consult your dealer for further information.

Connections



- Set the system switch to "NORM" when only a changer is connected (when the Ai-NET compatible equalizer is not used). When the IMPRINT audio processor is connected, set to EQ/DIV position.
- * The two system switches are located on the bottom of the unit.

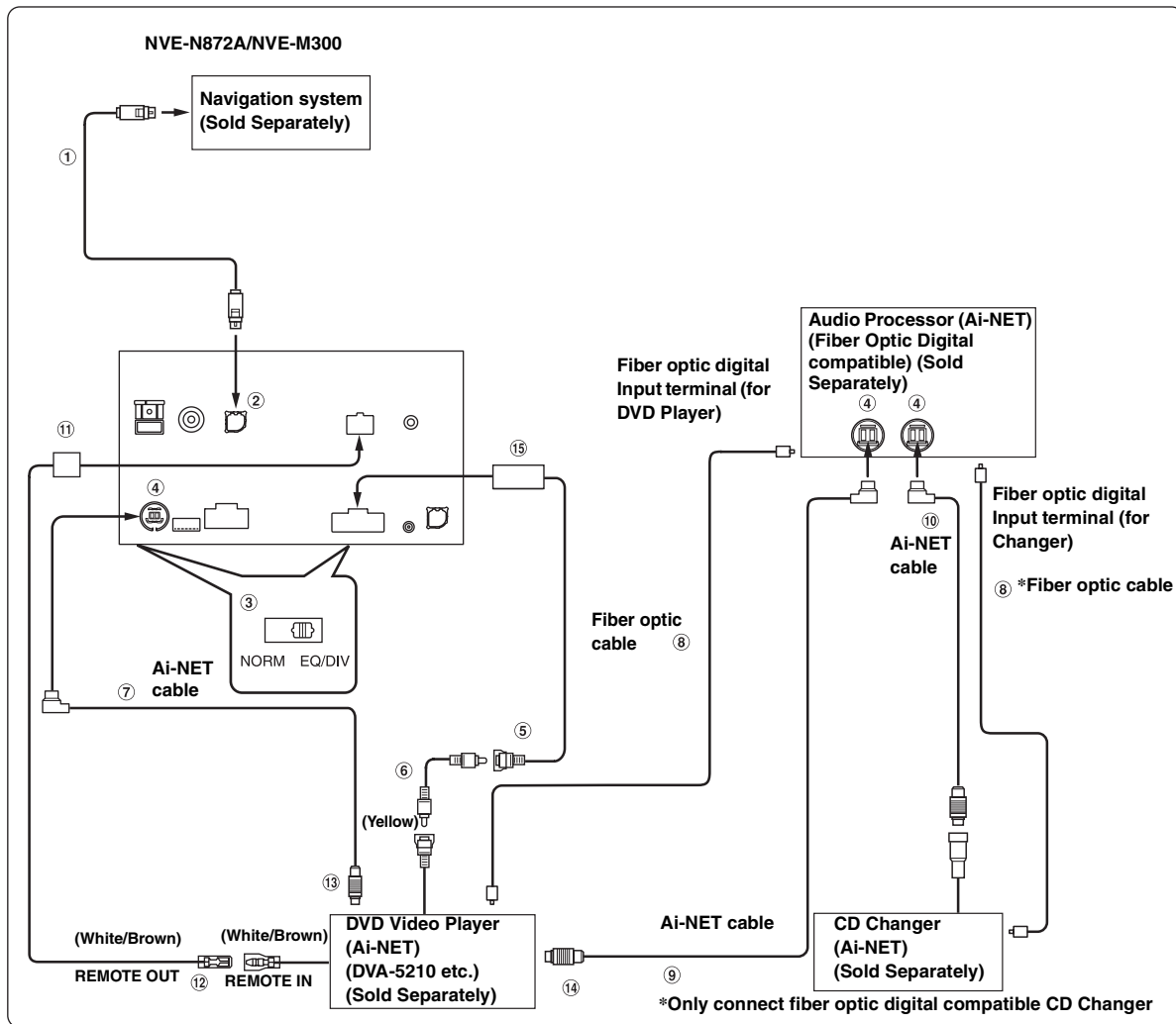
- ① **Radio Antenna Receptacle**
- ② **Video Input Connector (AUX INPUT) (Yellow)**
Input the video.
- ③ **Audio Input Connectors (AUX INPUT)**
RED is right and WHITE is left input the audio.
- ④ **Video Output Connector (AUX OUTPUT) (Yellow)**
Output the video.
- ⑤ **Audio Output Connectors (AUX OUTPUT)**
RED is right and WHITE is left output the audio.
- ⑥ **Rear Output/Input RCA Connectors**
It can be used as Rear Output or Input RCA Connectors.
- ⑦ **Front Output/Input RCA Connectors**
It can be used as Front Output or Input RCA Connectors.
- ⑧ **Subwoofer RCA Connectors**
RED is right and WHITE is left.
- ⑨ **RCA Extension Cable (sold separately)**
- ⑩ **Remote IN/OUT Connector**
- ⑪ **Remote Control Output Lead (White/Brown)**
Connect this lead to the remote control input lead. This lead outputs the controlling signals from the remote control.
- ⑫ **Remote Control Input Lead (White/Brown)**
Connect the external Alpine product to the remote control output lead.
- ⑬ **Reverse Lead (Orange/White)**
Use only when a back-up camera is connected. Connect to the plus side of the car's reverse lamp. This lamp illuminates when the transmission is shifted into reverse (R).
With this lead properly wired, the video picture automatically switches to the back-up camera whenever the car is put into reverse (R).
- ⑭ **Monitor Control Lead (White/Pink)**
Connect this to the Monitor Control Lead of the touch panel-compatible rear monitor.
- ⑮ **iPod AUDIO/VIDEO Input Connector**
Connect this to the AV extension cable.
- ⑯ **Bluetooth interface Connector**
Connect this to an optional BLUETOOTH INTERFACE (KCE-400BT). To use a hands-free mobile phone, an optional BLUETOOTH INTERFACE (KCE-400BT) connection is required. For details on connection, refer to the Owner's Manual of the BLUETOOTH INTERFACE (KCE-400BT). You can also connect this to an external device (such as a portable player) by using conversion cable (KCE-237B) for building up the AUX IN (sold separately).
 - Refer to "Setting the AUX+ Mode" (page 24).

AUX+ ON: When the external device is connected.
AUX+ OFF: When set to OFF, AUX+ source cannot be selected.
- ⑰ **Steering Remote Control Interface Connector**
To steering remote control interface box.
For details about connections, consult your nearest Alpine dealer.
- ⑱ **RGB Input Terminal**
Connect this to the RGB output terminal of the Navigation System.
- ⑲ **CAMERA Input RCA Connector**
Use when connecting a back-up camera with RCA Output Connector.
- ⑳ **USB Connector**
- ㉑ **Ai-NET Connector**
Connect this to the output or input connector of another device (CD Changer, Equalizer, HD Radio™ TUNER MODULE, etc.) equipped with Ai-NET.
 - You can input TV/video sound by connecting an optional Ai-NET/RCA Interface cable (KCA-121B) to this component.
 - Be sure to set "Setting the Connected Head Unit (MODEL SETUP)" to "DVD CHG", when the DHA-S690 is connected.
- ㉒ **Direct CAMERA Input Connector**
Use when the optional rearview camera HCE-C107D is connected.
- ㉓ **Power Supply Connector**
- ㉔ **System Switch**
When connecting an equalizer or divider using Ai-NET feature, place the two switches in the EQ/DIV position.
When no device is connected, leave the switches in the NORM position.
 - Do not make the two switches to different settings.
 - Be sure to turn the power off to the unit before changing the switch position.
- ㉕ **24 PIN pre-out/AUX-I/O Connector**
- ㉖ **KCE-400BT Connection Cable (Included with KCE-400BT)**
- ㉗ **Ai-NET Cable (Included with CD Changer)**
- ㉘ **Remote Turn-On Lead (Blue/White)**
Connect this lead to the remote turn-on lead of your amplifier or signal processor.
- ㉙ **Power Antenna Lead (Blue)**
Connect this lead to the +B terminal of your power antenna, if applicable.
 - This lead should be used only for controlling the vehicle's power antenna. Do not use this lead to turn on an amplifier or a signal processor, etc.
- ㉚ **Audio Interrupt In Lead (Pink/Black)**
- ㉛ **Parking Brake Lead (Yellow/Blue)**
Connect this lead to the power supply side of the parking brake switch to transmit the parking brake status signals to the iXA-W404.

- ③② **Foot Brake Lead (Yellow/Black)**
Connect to the vehicle's foot brake lead or brake lamp lead.
- ③③ **Switched Power Lead (Ignition) (Red)**
Connect this lead to an open terminal on the vehicle's fuse box or another unused power source which provides (+) 12V only when the ignition is turned on or in the accessory position.
- ③④ **Battery Lead (Yellow)**
Connect this lead to the positive (+) post of the vehicle's battery.
- ③⑤ **Fuse Holder (10A)**
- ③⑥ **Ground Lead (Black)**
Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided.
- ③⑦ **Right Front (+) Speaker Output Lead (Gray)**
- ③⑧ **Right Front (-) Speaker Output Lead (Gray/Black)**
- ③⑨ **Right Rear (-) Speaker Output Lead (Violet/Black)**
- ④① **Right Rear (+) Speaker Output Lead (Violet)**
- ④② **Left Rear (+) Speaker Output Lead (Green)**
- ④③ **Left Rear (-) Speaker Output Lead (Green/Black)**
- ④④ **Left Front (-) Speaker Output Lead (White/Black)**
- ④⑤ **Left Front (+) Speaker Output Lead (White)**
- ④⑥ **USB extension cable (Included)**
- ④⑦ **AV extension cable (Included)**
- ④⑧ **USB 30P cable (Included)**

System Example

Connect the Ai-NET compatible audio processor (Fiber optic digital compatible), Navigation system, DVD player and changer.



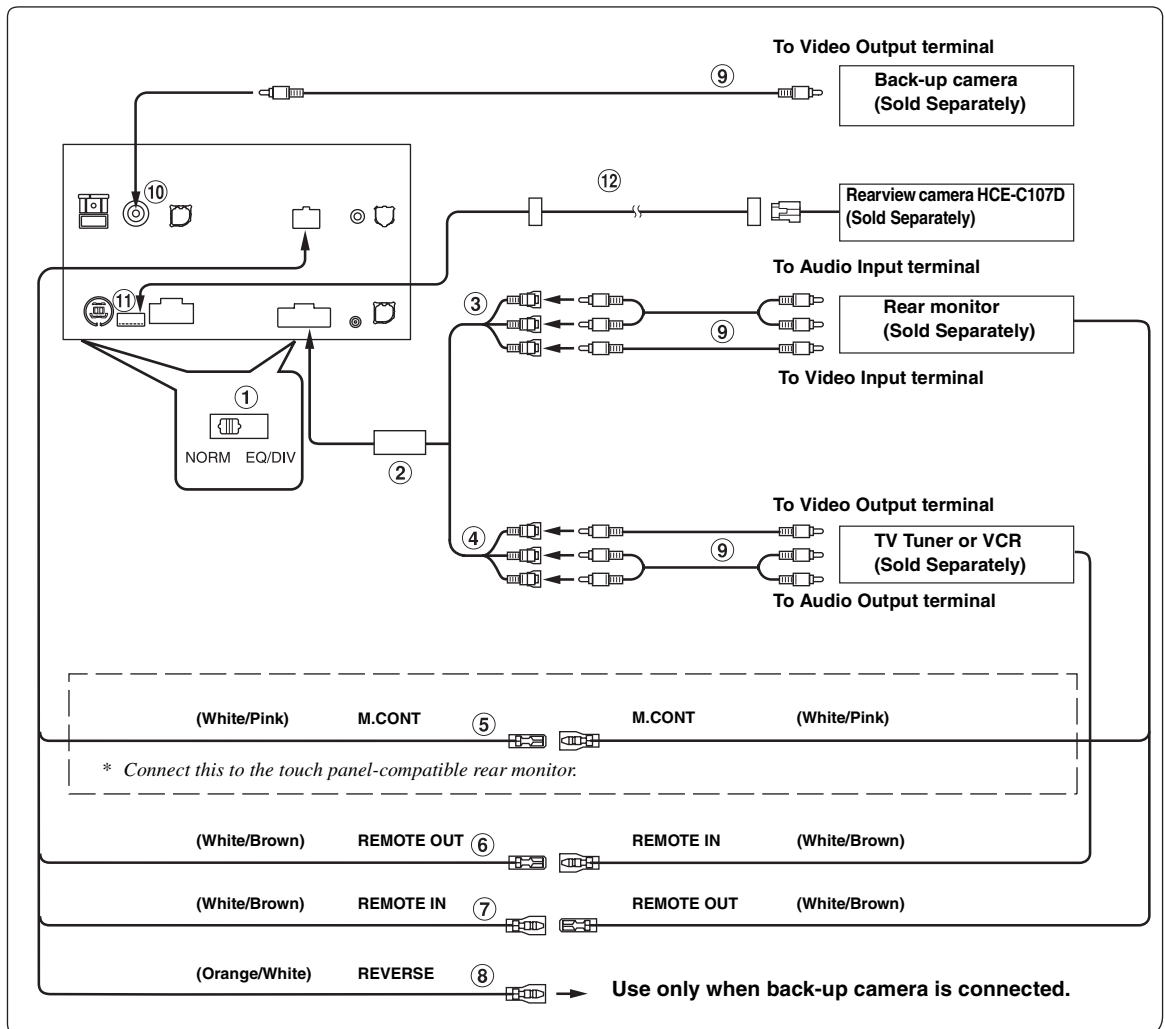
• When the NVA-N751AS is connected for the Navigation System, use the RGB conversion cable KWE-503N (Sold Separately).

Please observe the following when using Fiber Optic Cable (Optical Digital Cable).

- Do not coil the Fiber Optic Cable smaller than a 30 mm radius.
- Do not place anything on top of the Fiber Optic Cable.
- Be careful not to bend the Fiber Optic Cable at a sharp angle.

- ① **RGB Cable (Included with NVE-N852A/NVE-N872A, not included with NVE-N871A)**
- ② **RGB Input Terminal**
Connect this to the RGB output terminal of the Navigation System.
- ③ **System Switch**
When connecting an equalizer or divider using Ai-NET feature, place the two switches in the EQ/DIV position. When no device is connected, leave the switches in the NORM position.
 - *Do not make the two switches to different settings.*
 - *Be sure to turn the power off to the unit before changing the switch position.*
- ④ **Ai-NET Connector**
Connect this to the output or input connector of other product equipped with Ai-NET.
- ⑤ **Video Input Connector (AUX INPUT) (Yellow)**
Connect the video output lead of a DVD video player or DVD changer to this terminal.
- ⑥ **RCA Extension Cable (Included with DVD video player)**
- ⑦ **Ai-NET Cable (Included with DVD video player)**
- ⑧ **Fiber Optic Cable (Sold Separately)**
- ⑨ **Ai-NET Cable (Included with Audio Processor)**
- ⑩ **Ai-NET Cable (Included with CD Changer)**
- ⑪ **Remote IN/OUT Connector**
- ⑫ **Remote Control Output Lead (White/Brown)**
Connect this lead to the remote control input lead. This lead outputs the controlling signals from the remote control.
- ⑬ **To Ai-NET Connector (Gray)**
- ⑭ **To Ai-NET Connector (Black)**
- ⑮ **24 PIN Pre-out/AUX I/O Connector**

When Connecting External Equipment



① System Switch

When connecting an equalizer or divider using Ai-NET feature, place the two switches in the EQ/DIV position. When no device is connected, leave the switches in the NORM position.

- Do not make the two switches to different settings.
- Be sure to turn the power off to the unit before changing the switch position.

② 24 PIN Pre-out/AUX I/O Connector

③ Video/Audio Output Connectors (AUX OUTPUT)

Use when connecting an optional monitor etc.

④ Video/Audio Input Connectors (AUX INPUT)

⑤ Monitor Control Lead (White/Pink)

Connect this to the Monitor Control Lead of the touch panel-compatible rear monitor.

⑥ Remote Control Output Lead (White/Brown)

Connect this lead to the remote control input lead. This lead outputs the controlling signals from the remote control.

⑦ Remote Control Input Lead (White/Brown)

⑧ Reverse Lead (Orange/White)

Use only when a back-up camera is connected. Connect to the plus side of the car's reverse lamp. This lamp illuminates when the transmission is shifted into reverse (R). With this lead properly wired, the video picture automatically switches to the back-up camera whenever the car is put into reverse (R).

⑨ RCA Extension Cable (Sold Separately)

⑩ CAMERA Input RCA Connector

Use when connecting a back-up camera with RCA Output Connector.

⑪ Direct CAMERA Input Connector

Use when the optional rearview camera HCE-C107D is connected.

⑫ Camera extension cable (Included with Rear camera (HCE-C107D))



LIMITED WARRANTY

ALPINE ELECTRONICS OF AMERICA, INC. AND ALPINE OF CANADA INC. ("Alpine"), are dedicated to quality craftsmanship and are pleased to offer this Warranty. We suggest that you read it thoroughly. Should you have any questions, please contact your Dealer or contact Alpine at one of the telephone numbers listed below.

● PRODUCTS COVERED:

This Warranty covers Car Audio Products and Related Accessories ("the product"). Products purchased in the Canada are covered only in the Canada. Products purchased in the U.S.A. are covered only in the U.S.A.

● LENGTH OF WARRANTY:

This Warranty is in effect for one year from the date of the first consumer purchase.

● WHO IS COVERED:

This Warranty only covers the original purchaser of the product, who must reside in the United States, Puerto Rico or Canada.

● WHAT IS COVERED:

This Warranty covers defects in materials or workmanship (parts and labor) in the product.

● WHAT IS NOT COVERED:

This Warranty does not cover the following:

- ① Damage occurring during shipment of the product to Alpine for repair (claims must be presented to the carrier).
- ② Damage caused by accident or abuse, including burned voice coils caused by over-driving the speaker (amplifier level is turned up and driven into distortion or clipping). Speaker mechanical failure (e.g. punctures, tears or rips). Cracked or damaged LCD panels. Dropped or damaged hard drives.
- ③ Damage caused by negligence, misuse, improper operation or failure to follow instructions contained in the Owner's manual.
- ④ Damage caused by act of God, including without limitation, earthquake, fire, flood, storms or other acts of nature. Any cost or expense related to the removal or reinstallation of the product.
- ⑤ Service performed by an unauthorized person, company or association.
- ⑥ Any product which has the serial number defaced, altered or removed.
- ⑦ Any product which has been adjusted, altered or modified without Alpine's consent.
- ⑧ Any product not distributed by Alpine within the United States, Puerto Rico or Canada.
- ⑨ Any product not purchased from an Authorized Alpine Dealer.

● HOW TO OBTAIN WARRANTY SERVICE:

- ① You are responsible for delivery of the product to an Authorized Alpine Service Center or Alpine for repair and for payment of any initial shipping charges. Alpine will, at its option, repair or replace the product with a new or reconditioned product without charge. If the repairs are covered by the warranty, and if the product was shipped to an Authorized Alpine Service Center or Alpine, Alpine will pay the return shipping charges.
- ② You should provide a detailed description of the problem(s) for which service is required.

- ③ You must supply proof of your purchase of the product.
- ④ You must package the product securely to avoid damage during shipment. To prevent lost packages it is recommended to use a carrier that provides a tracking service.

● HOW WE LIMIT IMPLIED WARRANTIES:

ANY IMPLIED WARRANTIES INCLUDING FITNESS FOR USE AND MERCHANTABILITY ARE LIMITED IN DURATION TO THE PERIOD OF THE EXPRESS WARRANTY SET FORTH ABOVE AND NO PERSON IS AUTHORIZED TO ASSUME FOR ALPINE ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT.

● HOW WE EXCLUDE CERTAIN DAMAGES:

ALPINE EXPRESSLY DISCLAIMS LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES CAUSED BY THE PRODUCT. THE TERM "INCIDENTAL DAMAGES" REFERS TO EXPENSES OF TRANSPORTING THE PRODUCT TO THE ALPINE SERVICE CENTER, LOSS OF THE ORIGINAL PURCHASER'S TIME, LOSS OF THE USE OF THE PRODUCT, BUS FARES, CAR RENTALS OR OTHERS COSTS RELATING TO THE CARE AND CUSTODY OF THE PRODUCT. THE TERM "CONSEQUENTIAL DAMAGES" REFERS TO THE COST OF REPAIRING OR REPLACING OTHER PROPERTY WHICH IS DAMAGED WHEN THIS PRODUCT DOES NOT WORK PROPERLY. THE REMEDIES PROVIDED UNDER THIS WARRANTY ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS.

● HOW STATE/PROVINCIAL LAW RELATES TO THE WARRANTY:

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state and province to province. In addition, some states/provinces do not allow limitations on how long an implied warranty lasts, and some do not allow the exclusion or limitation of incidental or consequential damages. Accordingly, limitations as to these matters contained herein may not apply to you.

● IN CANADA ONLY:

This Warranty is not valid unless your Alpine car audio product has been installed in your vehicle by an Authorized Installation Center, and this warranty stamped upon installation by the installation center.

● HOW TO CONTACT CUSTOMER SERVICE:

Should the product require service, please call the following number for your nearest Authorized Alpine Service Center.

CAR AUDIO	1-800-ALPINE-1 (1-800-257-4631)
NAVIGATION	1-888-NAV-HELP (1-888-628-4357)

Or visit our website at; <http://www.alpine-usa.com>

ALPINE ELECTRONICS OF AMERICA, INC., 19145 Gramercy Place, Torrance, California 90501, U.S.A.

ALPINE ELECTRONICS OF CANADA, INC., 777 Supertest Road, Toronto, Ontario M3J 2M9, Canada

Do not send products to these addresses.

Call the toll free telephone number or visit the website to locate a service center.