

FOR CAR USE ONLY/NUR FÜR AUTOMOBIL GEBRAUCH/POUR APPLICATION AUTOMOBILE UNIQUEMENT/PARA USO EN AUTOMÓVILES/SOLO PER L'UTILIZZO IN AUTOMOBILE/ENDAST FÖR BILBRUK/ALLEEN VOOR GEBRUIK IN DE AUTO/ТОЛЬКО ДЛЯ ИСПОЛЬЗОВАНИЯ В АВТОМОБИЛЯХ/DO UŻYCIA TYLKO W SAMOCHODZIE/ΓΙΑ ΧΡΗΣΗ ΜΟΝΟ ΣΕ ΑΥΤΟΚΙΝΗΤΟ



Digital Media Receiver

iDA-X305S



iPhone 3GS
16GB 32GB



iPhone 3G
8GB 16GB



iPhone
4GB 8GB 16GB



iPod touch
2nd generation
8GB 16GB 32GB 64GB



iPod touch
1st generation
8GB 16GB 32GB



- **OWNER'S MANUAL**
Please read before using this equipment.
- **BEDIENUNGSANLEITUNG**
Lesen Sie diese Bedienungsanleitung bitte vor Gebrauch des Gerätes.
- **MODE D'EMPLOI**
Veuillez lire avant d'utiliser cet appareil.
- **MANUAL DE OPERACIÓN**
Léalo antes de utilizar este equipo.
- **ISTRUZIONI PER L'USO**
Si prega di leggere prima di utilizzare il attrezzatura.
- **ANVÄNDARHANDLEDNING**
Innan du använder utrustningen bör du läsa igenom denna användarhandledning.
- **GEBRUIKERSHANDLEIDING**
Lees deze aanwijzingen aandachtig alvorens dit toestel te gebruiken.
- **РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ**
Прочтите настоящее руководство перед началом использования оборудования.
- **INSTRUKCJA OBSŁUGI**
Prosimy zapoznać się z tą instrukcją przed przystąpieniem do użytkowania urządzenia.
- **ΕΓΧΕΙΡΙΔΙΟ ΧΡΗΣΤΗ**
Παρακαλούμε διαβάστε το πριν χρησιμοποιήσετε τη συσκευή.

ALPINE ELECTRONICS MARKETING, INC.
1-1-8 Nishi Gotanda,
Shinagawa-ku,
Tokyo 141-0031, Japan
Phone 03-5496-8231

ALPINE ELECTRONICS OF AMERICA, INC.
19145 Gramercy Place, Torrance,
California 90501, U.S.A.
Phone 1-800-ALPINE-1 (1-800-257-4631)

ALPINE ELECTRONICS OF CANADA, INC.
777 Superstest Road, Toronto,
Ontario M3J 2M9, Canada
Phone 1-800-ALPINE-1 (1-800-257-4631)

ALPINE ELECTRONICS OF AUSTRALIA PTY. LTD.
161-165 Princes Highway, Hallam
Victoria 3803, Australia
Phone 03-8787-1200

ALPINE ELECTRONICS GmbH
Wilhelm-Wagenfeld-Str. 1-3, 80807 München, Germany
Phone 089-32 42 640

ALPINE ELECTRONICS OF U.K. LTD.
Alpine House
Fletchamstead Highway, Coventry CV4 9TW, U.K.
Phone 0870-33 33 763

ALPINE ELECTRONICS FRANCE S.A.R.L.
(RCS PONTOISE B 338 101 280)
98, Rue de la Belle Etoile, Z.I. Paris Nord II,
B.P. 50016, 95945 Roissy Charles de Gaulle
Cedex, France
Phone 01-48638989

ALPINE ITALIA S.p.A.
Viale C. Colombo 8, 20090 Trezzano
Sul Naviglio (MI), Italy
Phone 02-484781

ALPINE ELECTRONICS DE ESPAÑA, S.A.
Portal de Gamarra 36, Pabellón, 32
01013 Vitoria (Alava)-APDO 133, Spain
Phone 945-283588

ALPINE ELECTRONICS (BENELUX) GmbH
Leuvensesteenweg 510-B6,
1930 Zaventem, Belgium
Phone 02-725-13 15

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Operating Instructions

WARNING

WARNING

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

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.

CAUTION

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

HALT USE IMMEDIATELY IF A PROBLEM APPEARS.

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

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 iDA-X305S will not be installed in a location subjected to:

- Direct sun and heat
- High humidity and water
- Excessive dust
- Excessive vibrations

Protecting the USB connector

- Only an iPod/iPhone, 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

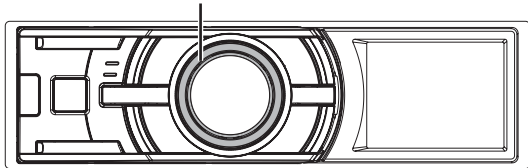
- This unit can control a memory storage device that supports the USB Mass Storage Class (MSC) protocol. Playable audio file formats are MP3, WMA and AAC.
 - USB memory function is not guaranteed. Use USB memory according to the terms of agreement. Read the USB memory Owner's Manual thoroughly.
 - Avoid 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 that are copy-protected (using some type of DRM, Digital Rights Management) cannot be played back on this unit. WMA format files with DRM or AAC format files that have been purchased from the iTunes Store are included in this restriction.
 - 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 recognised. 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.
- 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 synchronised 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 synchronised 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.

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.

Double Action Encoder Operation

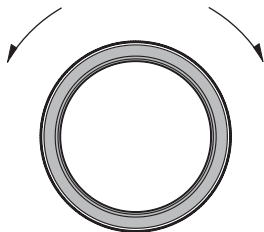
Double Action encoder



There are 2 ways to operate the Double Action encoder.

Normal operation

Rotate the Double Action encoder to the left or right.



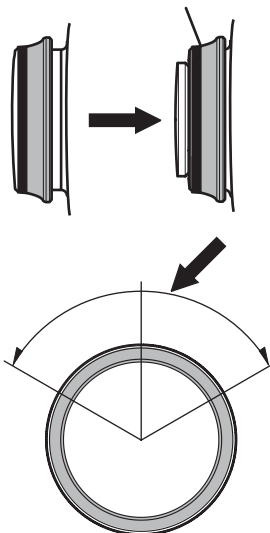
The adjust volume and scroll through a list of items.

Alternate operation

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

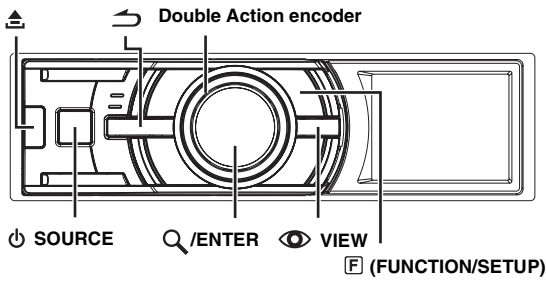
When you release the Double Action encoder, the display changes.

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

- Digital Media receiver 1
- Power cable 1
- Mounting sleeve 1
- Carrying case 1
- Front frame 1
- USB cable 1
- iPod Dock interface cable 1
- Rubber Cap 1
- Hex Bolt 1
- Screw (M5x8) 4
- Owner's Manual 1 set

Turning Power On and Off

Press **POWER** to turn on the unit.

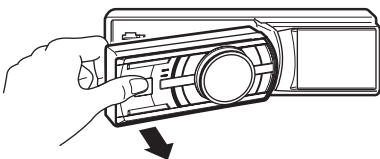
- The unit can be turned on by pressing any other button except **RELEASE**, **DOUBLE ACTION ENCODER** and **VIEW**. The unit is also automatically turned on if an iPod/iPhone or USB memory is connected.

Press and hold **POWER** for at least 2 seconds to turn off the unit.

Detaching and Attaching the Front Panel

Detaching

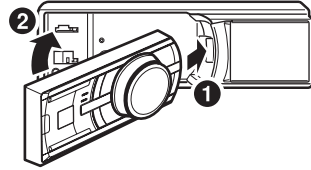
- 1 Turn off the unit power.
- 2 Press **RELEASE** at the lower left side until the front panel pops out.
- 3 Grasp the left side of the front panel and pull it out.



- The front panel may become hot in normal usage (especially the connector terminals on the back of the front panel.) This is not a malfunction.
- To protect the front panel, place it in the supplied carrying case.

Attaching

- 1 Insert the right side of the front panel into the main unit. Align the groove on the front panel with the projections on the main unit.
- 2 Push the left side of the front panel until it locks firmly into the main unit.



- Before attaching the front panel, make sure that there is no dirt or dust on the connector terminals and no foreign object between the front panel and the main unit.
- Attach the front panel carefully. Hold the panel by its sides to avoid pushing any buttons by mistake.

Initial System Start-Up

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

- 1 Turn off the unit power.
- 2 Press **RELEASE** to remove the front panel.
- 3 Press **RESET** with a ballpoint pen or similar pointed object.



Adjusting Volume

Rotate the **DOUBLE ACTION ENCODER** until the desired sound is obtained.

Setting the Time and Calendar

1 Press and hold **FUNCTION/SETUP** for at least 2 seconds to activate the **SETUP** selection mode.

2 Rotate the **Double Action encoder** to select **“General”**, and then press **Q/ENTER**.

BLUETOOTH ↔ General ↔ Display ↔ iPod ↔ Tuner ↔ Audio

3 Rotate the **Double Action encoder** to select **“Clock Adjust”**, and then press **Q/ENTER**.

The calendar setting mode is activated.

When the year is set, proceed step 5.

4 Rotate the **Double Action encoder** to select **year, month, day, hour or minutes to be set**.

5 Press **Q/ENTER**.

The year setting mode is activated, and the year blinks. (When “year” is set)

6 Rotate the **Double Action encoder** to set year, and then press **Q/ENTER**.

The setting for year is complete. (When “year” is set)

7 Repeat steps 4 to 6 above to set month, day, hour and minutes.

8 Press and hold **↶** for at least 2 seconds to return to normal mode.

- Only when Auto Clock is set to OFF, can the setting be made. Refer to “Setting the Time to automatically Adjust” (page 10).
- Pressing **↶** during the procedure will return to the previous mode.

Displaying the Calendar/Time

Press **VIEW**.

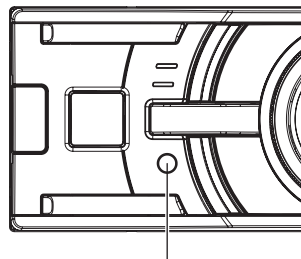
The calendar/time is displayed. Pressing **VIEW** again will return to normal mode.



- Selecting any tuner or iPod/iPhone function while in the clock priority mode will interrupt the time display momentarily. The function selected will be displayed for about 5 seconds before the time returns to the display.
- When the RDS mode is set, radio text can be displayed. Refer to “Displaying Radio Text” (page 11).
- If an iPod/iPhone is connected, the album cover screen can be displayed. Refer to “Changing the Display” (page 14).
- In Auxiliary/Auxiliary+ mode, Calendar/Time is not displayed.

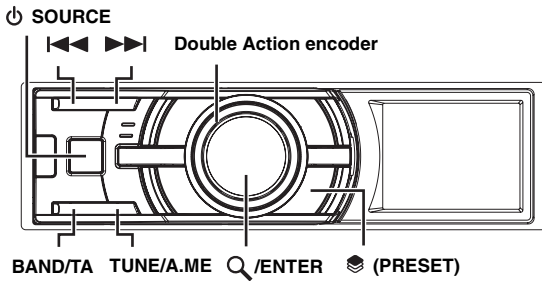
Controllable With Remote Control

Point the optional remote control transmitter at the remote control sensor.



Remote control sensor

Radio



How to View the Display

<Radio screen display example>



- 1 Mode display
- 2 Preset number
- 3 Volume
- 4 Tuning mode
- 5 Frequency
- 6 RDS indicator

Listening to Radio

- 1 Press **SOURCE** to select **TUNER** mode.
- 2 Press **BAND/TA** repeatedly until the desired radio band is displayed.

FM-1 → FM-2 → FM-3 → MW → LW → FM-1

- 3 Press **TUNE/A.ME** to select the tuning mode.

DX (Distance mode) → Local (Local mode) → Manual (Manual mode) → DX (Distance mode)

- The initial mode is Distance mode.

Distance mode:

Both strong and weak stations will be automatically tuned in (Automatic Seek Tuning).

Local mode:

Only strong stations will be automatically tuned in (Automatic Seek Tuning).

Manual mode:

The frequency is manually tuned in steps (Manual tuning).

- 4 Press **◀** or **▶** to tune in the desired station. Holding down **◀** or **▶** will change the frequency continuously.

Presetting Stations Manually

- 1 Select the radio band and tune in a desired radio station you wish to store in the preset memory.
 - 2 Press **(PRESET)**. The Preset screen is displayed.
 - 3 Rotate the **Double Action encoder** to select the preset number.
 - 4 Press and hold **Q/ENTER** for at least 2 seconds. The selected station is stored. The display shows the band, preset number and station frequency memorized.
- A total of 30 stations can be stored in the preset memory (6 stations for each band; FM-1, FM-2, FM-3, MW and LW).
 - If you store a station in a preset memory which already has a station, the current station will be cleared and replaced with the new station.
 - Press in the outer ring and rotate the **Double Action encoder** to the left or right on the Preset screen, you can switch the Preset screen of another band.

FM-1 ↔ FM-2 ↔ FM-3 ↔ MW ↔ LW ↔ FM-1

You can also change the desired radio band by pressing **BAND/TA**.

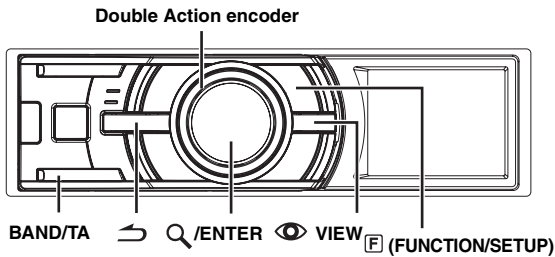
Presetting Stations Automatically

- 1 Press **BAND/TA** repeatedly until the desired radio band is displayed.
 - 2 Press and hold **TUNE/A.ME** for at least 2 seconds. "Auto Memory" is displayed while the automatic memory is in progress. The tuner will automatically seek and store 6 strong stations in the selected band. They will be stored 1 to 6 in order of signal strength. When the automatic memory has been completed, the tuner goes to the station stored in preset location No.1.
- If no stations are stored, the tuner will return to the original station you were listening to before the auto memory procedure began.

Tuning to Preset Stations

- 1 Press **BAND/TA** repeatedly until the desired band is displayed.
 - 2 Press **(PRESET)**. The Preset screen is displayed.
 - 3 Rotate the **Double Action encoder** to select a radio station.
 - 4 Press **Q/ENTER**. The display shows the band, preset number and frequency of the station selected.
- Press in the outer ring and rotate the **Double Action encoder** to the left or right on the Preset screen, you can switch the Preset screen of another band.
- FM-1 ↔ FM-2 ↔ FM-3 ↔ MW ↔ LW ↔ FM-1
- You can also change the desired radio band by pressing **BAND/TA**.

RDS



Setting RDS Reception Mode and Receiving RDS Stations

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

- 1 Press **F (FUNCTION/SETUP)** to activate the Function mode.
- 2 Press **Q/ENTER** to select the AF (Alternative Frequency) mode.
- 3 Rotate the **Double Action encoder** to select On, and press **Q/ENTER**.
- 4 Press **F (FUNCTION/SETUP)** to activate the RDS mode.

- When the "Setting PTY31 (Emergency Broadcast) reception" (refer to page 10) is set to on, if the unit receives the PTY31 (Emergency Broadcast) signal, the unit will show "ALARM" in the display automatically.

The RDS digital data includes the following:

PI	Programme Identification
PS	Programme Service Name
AF	List of Alternative Frequencies
TP	Traffic Programme
TA	Traffic Announcement
PTY	Programme Type
EON	Enhanced Other Networks

Receiving RDS Regional (Local) Stations

- 1 Press and hold **F (FUNCTION/SETUP)** for at least 2 seconds to activate the SETUP selection mode.
- 2 Rotate the **Double Action encoder** to select "Tuner", and then press **Q/ENTER**.
BLUETOOTH ↔ General ↔ Display ↔ iPod ↔ Tuner ↔ Audio
- 3 Press **Q/ENTER** to select "Regional".
- 4 Rotate the **Double Action encoder** to select On or Off, and then press **Q/ENTER**.
In the Off mode, the unit automatically keeps receiving the related local RDS station.
- 5 Press and hold **↶** for at least 2 seconds to return to normal mode.

- Pressing **↶** during the procedure will return to the previous mode.

PI SEEK Setting

- 1 Press and hold **F (FUNCTION/SETUP)** for at least 2 seconds to activate the SETUP selection mode.
- 2 Rotate the **Double Action encoder** to select "Tuner", and then press **Q/ENTER**.
BLUETOOTH ↔ General ↔ Display ↔ iPod ↔ Tuner ↔ Audio
- 3 Rotate the **Double Action encoder** to select "PI SEEK", and then press **Q/ENTER**.
- 4 Rotate the **Double Action encoder** to select On or Off, and then press **Q/ENTER**.
- 5 Press and hold **↶** for at least 2 seconds to return to normal mode.

- Pressing **↶** during the procedure will return to the previous mode.

Setting PTY31 (Emergency Broadcast) reception

Turn PTY31 (Emergency Broadcast) reception ON/OFF.

1 Press and hold $\boxed{\text{F}}$ (FUNCTION/SETUP) for at least 2 seconds to activate the SETUP selection mode.

2 Rotate the Double Action encoder to select "Tuner", and then press Q/ENTER .

BLUETOOTH \leftrightarrow General \leftrightarrow Display \leftrightarrow iPod \leftrightarrow Tuner \leftrightarrow Audio

3 Rotate the Double Action encoder to select "PTY31", and then press Q/ENTER .

4 Rotate the Double Action encoder to select On or Off, and then press Q/ENTER .

If you set to On, emergency broadcasts are received regardless of source. "ALARM" is displayed during reception.

5 Press and hold \hookrightarrow for at least 2 seconds to return to normal mode.

When an emergency broadcast is received, the volume level will be automatically changed to the memorized level in the traffic information mode. For details, refer to "Receiving Traffic Information" on page 10.

- Pressing \hookrightarrow during the procedure will return to the previous mode.

Setting the Time to automatically Adjust

When you set to ON, the time is automatically adjusted by RDS data.

1 Press and hold $\boxed{\text{F}}$ (FUNCTION/SETUP) for at least 2 seconds to activate the SETUP selection mode.

2 Rotate the Double Action encoder to select "Tuner", and then press Q/ENTER .

BLUETOOTH \leftrightarrow General \leftrightarrow Display \leftrightarrow iPod \leftrightarrow Tuner \leftrightarrow Audio

3 Rotate the Double Action encoder to select "Auto Clock", and then press Q/ENTER .

4 Rotate the Double Action encoder to select On or Off, and then press Q/ENTER .

5 Press and hold \hookrightarrow for at least 2 seconds to return to normal mode.

- Pressing \hookrightarrow during the procedure will return to the previous mode.

Receiving Traffic Information

1 Press and hold BAND/TA for at least 2 seconds so that the "TA" indicator lights up.

When a traffic information station is tuned in, the "TP" indicator lights up.

Traffic information is heard only when it is being broadcast. If traffic information is not being broadcast, the unit is set in the standby mode. When a traffic information broadcast begins, the unit automatically receives it and the TRF Info screen is displayed.

When the traffic information broadcast is over, the unit will automatically set in the standby mode.

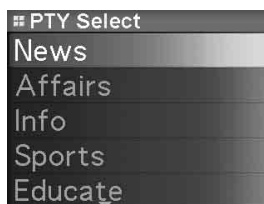
- If the traffic information broadcast signal falls below a certain level, the unit remains in the receiving mode for 1 minute. If the signal remains below a certain level for over 1 minute, the "TA" indicator blinks.
- If you do not want to listen to the traffic information being received, lightly press BAND/TA to skip that traffic information message. The TA mode will remain in the ON position to receive the next traffic information message.
- If the volume level is changed while receiving traffic information, the changed volume level will be memorized. When traffic information is received next time, the volume level will be automatically adjusted to the level memorized.

PTY (Programme Type) Tuning

1 Press $\boxed{\text{F}}$ (FUNCTION/SETUP) to activate the Function mode.

2 Rotate the Double Action encoder to select "PTY", and then press Q/ENTER , while the unit is in Radio (FM receiving) mode.
The PTY Select screen is displayed.

3 Rotate the Double Action encoder to choose the desired programme type.



4 Press Q/ENTER after selecting the programme type to start searching for a station in the selected programme type.

The chosen programme type display blinks during searching and lights when a station is found.

If no PTY station is found, "No PTY" will be displayed for 10 seconds.

- You can set the language when PTY is displayed. Refer to "Switching the Display Language of PTY (PTY Language)" (page 25).

Receiving Traffic Information While Playing iPod/iPhone or Radio

- 1 Press and hold **BAND/TA** for at least 2 seconds so that the “TA” indicator lights up.

When a traffic information broadcast starts, the unit automatically mutes the iPod/iPhone/USB memory/portable audio player/changer or the regular FM broadcast.

When the traffic information broadcast finishes, the unit automatically returns to the original source play before the traffic information broadcast began.

When traffic information stations cannot be received:

In the tuner mode:

When the TP signal can no longer be received for over 1 minute, the “TA” indicator blinks.

In the iPod/iPhone/USB memory/portable audio player/changer mode:

When the TP signal can no longer be received, the traffic information station of another frequency will be selected automatically.

- *The receiver is equipped with the EON (Enhanced Other Networks) function in order to keep track of additional alternate frequencies to the AF list. The “EON” indicator lights up while an RDS EON station is being received. If the station being received does not broadcast the traffic information, the receiver automatically tunes in the related station that broadcasts the traffic information when it occurs.*

- 2 Press and hold **BAND/TA** for at least 2 seconds to deactivate the Traffic Information mode.

The “TA” indicator goes out.

Priority News

This function allows you to preset to give priority to the News programme. You will never miss the News programme as the unit automatically gives priority to the News programme whenever it begins broadcasting, and interrupts the programme you are currently listening. This feature is functional when your unit is set to a mode other than the LW and MW modes.

- 1 Press **F** (**FUNCTION/SETUP**) to activate the Function mode while the unit is in Radio (FM receiving) mode.

- 2 Rotate the **Double Action encoder** to select “News”, and then press **Q/ENTER**.

- 3 Rotate the **Double Action encoder** to select **On**, and then press **Q/ENTER**.

- 4 Press **↶** to return to normal mode.

The “NEWS” indicator appears in the display.

- *In the NEWS function, unlike in the TA function, the volume does not increase automatically.*

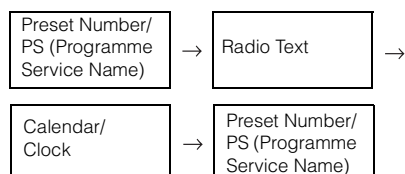
Displaying Radio Text

Text messages from a radio station can be displayed.

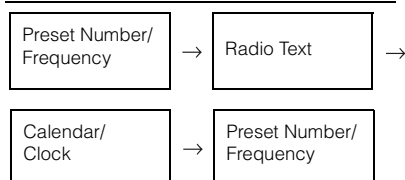
- Press **VIEW** while receiving FM in the radio mode to select the Radio Text display.

The display will change every time the button is pressed.

If there is PS (Programme Service Name)

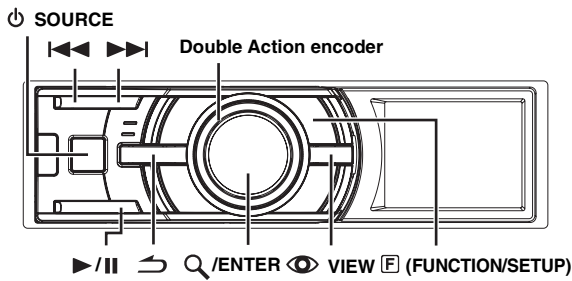


If there is no PS (Programme Service Name)



- *If there is no receivable text information or the unit cannot receive text information properly, nothing will be displayed.*

iPod/iPhone



When an iPod/iPhone is connected to the iDA-X305S by using the proper cable, the controls on the iPod/iPhone 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 the iDA-X305S, 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 iPod/iPhone using the FULL SPEED connection cable (KCE-433iV) on the BLUETOOTH INTERFACE (KCE-400BT), you cannot operate the iPod/iPhone.*
- *This unit does not support video playback from iPod/iPhone.*

About iPod/iPhone usable with this unit

- Confirmed devices regarding Made for iPod. Correct function of earlier versions cannot be guaranteed.

iPod touch (Late 2009): Ver.3.1.2
iPod nano (5th generation): Ver.1.0.2
iPod classic (Late 2009): Ver.2.0.3
iPod touch (2nd generation): Ver.3.1.2
iPod nano (4th generation): Ver.1.0.3
iPod classic (120GB): Ver.2.0.1
iPod touch (1st generation): Ver.3.1.2
iPod nano (3rd generation): Ver.1.1.3
iPod classic (80GB, 160GB): Ver.1.1.2
iPod nano (2nd generation): Ver.1.1.3
iPod with video: Ver.1.3
iPod nano (1st generation): Ver.1.3.1

- Confirmed devices regarding Works with iPhone. Correct function of earlier versions cannot be guaranteed.

iPhone 3GS: Ver.3.1.2
iPhone 3G: Ver.3.1.2
iPhone: Ver.3.1.2

- For clarity in identifying your model of iPod, please see Apple's own document "Identifying iPod models" at <http://support.apple.com/kb/HT1353>.

How to View the Display



- 1 Mode display
- 2 Song title/Episode title/Audiobook title
- 3 Artist title/Podcast title
- 4 Album title/Release date
- 5 Artwork screen
- 6 Elapsed time
- 7 Remaining time for playing
- 8 RDS indicator

- *When playback time reaches 100 minutes, "00'00" is displayed.*

Playback

- 1 Press **⏻ SOURCE** to switch to the iPod mode.

- 2 Press **⏮** or **⏭** to select the desired song.

Return to the beginning of the current song:

Press **⏮**.

Fast backward:

Press and hold **⏮**.

Advance to the beginning of the next song:

Press **⏭**.

Fast forward:

Press and hold **⏭**.

- 3 To pause playback, press **⏻/II**.

Pressing **⏻/II** again will resume playback.

- *If a song is playing on the iPod/iPhone when it is connected to the iDA-X305S, it will continue playing after the connection.*
- *Podcasts or audiobooks may have several chapters. The chapters can be changed by pressing **⏮** or **⏭**.*

Searching for a desired Song/Title

An iPod/iPhone can contain thousands of songs. The unit for this reason can make various searches using the search function as shown below.

Using the Playlist/Artist/Album/Podcast/Audiobook/Genre/Composer/Song search mode's individual hierarchy, you can narrow down your search as shown in the table below.

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

- You can select your preferred search mode. Refer to “iPod/iPhone Search Mode Setting” (page 25).
- For example, if the selected artist has only one album, the song search mode is selected immediately, skipping the album search mode.

For example: Searching by Artist name

The following example explains how an ARTIST search is performed. Another search mode can be used for the same operation, although the hierarchy differs.

1 Press \mathcal{Q} /ENTER to activate the Menu Select mode.

2 Rotate the Double Action encoder to select “Artists”, and then press \mathcal{Q} /ENTER.

The artist search mode is activated and an artist name is displayed.

3 Rotate the Double Action encoder to select the desired Artist, and then press \mathcal{Q} /ENTER.

The album search mode is activated and an album name is displayed.

Pressing and holding \mathcal{Q} /ENTER for at least 2 seconds will play back all songs of the selected artist.

4 Rotate the Double Action encoder to select an album, and then press \mathcal{Q} /ENTER.

The song search mode is activated and a song name is displayed.

Pressing and holding \mathcal{Q} /ENTER for at least 2 seconds will play back all songs of the selected album.

5 Rotate the Double Action encoder to select a song and press \mathcal{Q} /ENTER.

The selected song is played back.

- While in the search mode, if you press and hold \mathcal{L} for at least 2 seconds the search mode is cancelled.
- In the search mode, pressing \mathcal{L} will return to the previous mode.
- If the name of iPod/iPhone is selected in the Playlist search mode and \mathcal{Q} /ENTER is pressed, all songs in the iPod/iPhone are searchable. If you press and hold \mathcal{Q} /ENTER for at least 2 seconds, all songs in the iPod/iPhone are played back beginning from the first song listed.
- “No Support” is displayed when text information is not compatible with the iDA-X305S.
- When a list is displayed, you can use the page skip percent skip, or alphabet skip function. For details, refer to “Page Skip Function/Percent Skip Function/Alphabet Skip Function” (page 13).

- During the search mode, if you select All and press \mathcal{Q} /ENTER, you can search for all titles in the next hierarchy. If you select All, and press and hold \mathcal{Q} /ENTER for at least 2 seconds, all titles in the selected hierarchy are played back repeatedly.

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.

1 Press \mathcal{F} (FUNCTION/SETUP) repeatedly to choose the desired mode.

The factory setting is set to the page skip function.

Page skip function → Alphabets skip function →

Percent skip function → Page skip function

Page skip function: The list is skipped page by page.

Alphabet skip function: The alphabet skip function is skipped to the next alphabet such as from A to B, B to C.

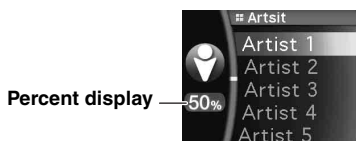
You can skip in reverse order such as B to A by turning the Double Action encoder to the left.

Percent skip function: For example, 100 songs are stored in the iPod/iPhone. These 100 songs are divided into 10 groups (0%, 10% ... 90%).

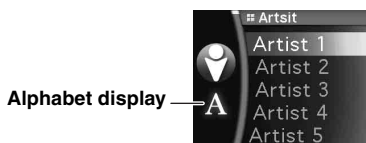
2 Press in the outer ring and rotate the Double Action encoder to the left or right.

A list is skipped to the next page, next alphabet or next percent.

■ Percent skip display example



■ Alphabet skip display example



- If you press then rotate and hold the Double Action encoder to the left or right, the display continuously changes.
- The order of the list depends on the design of the iPod/iPhone.

Search Position Memory

During iPod/iPhone playback, you can quickly move back up the selected hierarchy, a level at a time.

Press \mathcal{L} .

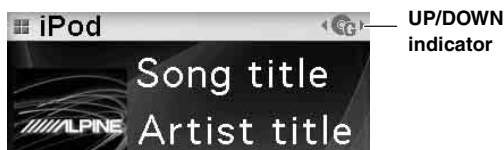
The hierarchy level you selected last in the search mode is displayed. Repeated presses return to each previous level up to the highest.

Up/Down Function

If you select an album and press and hold **Q/ENTER** in the search mode, this album will be played back repeatedly. To go to the previous or next Album, use the Up/Down function.

Indicator display

The display of the UP/DOWN indicator shows which item can be selected.



	Playlist
	Artist
	Album
	Podcast
	Audiobook
	Genre
	Composer

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

Returns to the previous item.

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

Advances to the next item.

- If you do not perform a search, this function is not valid.
- If you are searching for a song, this operation cannot be performed.
- During an artist search, albums for that artist can be played.
- If an album is selected during an artist search, the Up/Down function can be used to play other albums by that artist.

Random Play Shuffle

1 Press **F (FUNCTION/SETUP)**.

The Function screen is displayed.

2 Rotate the Double Action encoder to select "Shuffle", and press **Q/ENTER**.

The Shuffle mode is activated.

3 Rotate the Double Action encoder to select the Shuffle playback mode, and press **Q/ENTER**.

- Shuffle Album : An album in the iPod/iPhone is selected at random, and is played back in the album song order.
- Song : If you select a song in the search mode, all songs in the selected mode are played back at random.
- Off : Shuffle mode off.

4 Press **↵**.

The songs will be played back in random sequence.

- To cancel, select Off in the above procedure.
- Shuffle Album/Shuffle Song works the same way as iPod/iPhone Shuffle Albums/Shuffle Songs.

Random Play Shuffle All

Shuffle ALL plays all songs in the iPod/iPhone randomly.

1 Press **Q/ENTER**.

The Menu Select screen is displayed.

2 Press **Q/ENTER** while selecting "Shuffle All".

The indicator ALL lights, and the songs will be played back in random sequence.

- To cancel, set the Shuffle mode to Off. Refer to "Random Play Shuffle" (page 14).
- If Shuffle All is selected, the selected ones which are being played back in the search mode are cancelled.

Repeat Play

1 Press **F (FUNCTION/SETUP)**.

The Function screen is displayed.

2 Press **Q/ENTER**.

The Repeat mode is activated.

3 Rotate the Double Action encoder to select "Song", and press **Q/ENTER**.

- Repeat Song : A single song is repeatedly played back.
- Off : Repeat mode off.

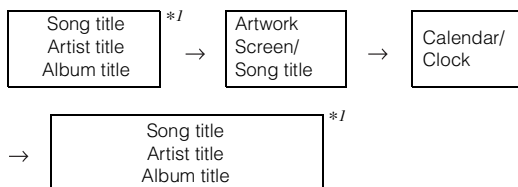
4 Press **↵**.

The song is repeatedly played back.

- To cancel, select Off in the above procedure.
- Both the shuffle and repeat indicators that can be set are displayed, only one song repeats.

Changing the Display

Press **VIEW**.

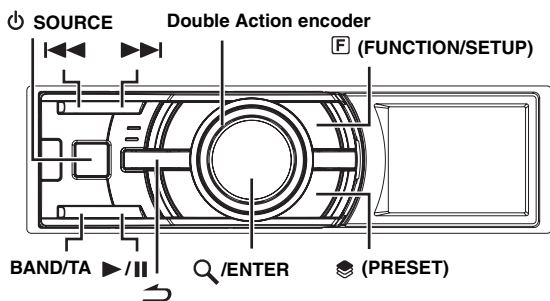


*1 TAG information

If there is no text information, nothing will be displayed.

- Only alphanumeric characters can be displayed.
- The maximum number of characters is 128 (128 byte).
- Some characters may not be correctly displayed.
- "No Support" is displayed when text information is not compatible with the iDA-X305S.

USB memory/ Portable audio player/Changer



If a USB memory device, Portable audio player or changer is connected to the unit, MP3/WMA/AAC files can be played back.

How to View the Display

USB memory/Portable audio player display

USB memory/Portable audio player screen display example (if tag information exists)



- 1 Mode display
- 2 Song title
- 3 Artist title
- 4 Album title
- 5 Elapsed time
- 6 RDS indicator

USB memory/Portable audio player screen display example (if no tag information exists)



- 1 Mode display
- 2 Folder name*¹
- 3 File name
- 4 Elapsed time
- 5 RDS indicator

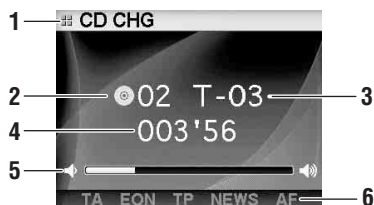
Changer display

Changer CD screen display example (if CD text exists)



- 1 Mode display
- 2 CD text (disc name)*²
- 3 CD text (track name)*²
- 4 Disc number
- 5 Track number
- 6 Elapsed time
- 7 RDS indicator

Changer CD screen display example (if no CD text exists)



- 1 Mode display
- 2 Disc number
- 3 Track number
- 4 Elapsed time
- 5 Volume
- 6 RDS indicator

Changer MP3 screen display example (if tag information exists)



- 1 Mode display
- 2 Song title
- 3 Artist title
- 4 Album title
- 5 Elapsed time
- 6 RDS indicator

<Changer MP3 screen display example (if no tag information exists)>



- 1 Mode display
- 2 Folder name*1
- 3 File name
- 4 Disc number
- 5 Folder number
- 6 File number
- 7 Elapsed time
- 8 RDS indicator

*1 About Folder Name display, "ROOT" is displayed for the root folder which does not have folder name.

*2 Displayed during playback of a disc with CD Text.

- ID3 tag/WMA tag
If an MP3/WMA/AAC file contains ID3 tag/WMA tag information, the ID3 tag/WMA tag information is displayed.
- The tag information display takes priority. If there is tag information, the folder/file name is not displayed.
- "No Support" is displayed when text information is not compatible with the iDA-X305S.

Playback

1 Press **SOURCE** to select the "USB Audio" or "CD CHG" mode.

2 Press **◀◀** or **▶▶** to select the desired track (file).

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

Press **◀◀**.

Fast backward:

Press and hold **◀◀**.

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

Press **▶▶**.

Fast forward:

Press and hold **▶▶**.

- When a Portable audio player is connected, fast-forwarding/fast-reversing is not available.

3 To pause playback, press **▶/||**.

Pressing **▶/||** again will resume playback.

- The playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played back.

Selecting a Disc (Changer) (Optional)

An optional 6-disc or 12-disc CD Changer may be connected to this unit if it is Ai-NET compatible. With a CD Changer connected to the Ai-NET input of this unit, the CD Changer will be controllable from this unit.

Using the KCA-410C (Versatile Link Terminal) multiple changers can be controlled by this unit.

See "Multi-Changer Selection (Optional)" on page 16 for selecting the CD Changers.

- The controls on this unit for CD Changer operation are operative only when a CD Changer is connected.
- The DVD changer (optional) is controllable from this unit as well as the CD changer.

1 Press **PRESET**.

The Disc Select screen is displayed.

2 Rotate the **Double Action encoder** to select a disc.

3 Press **Q/ENTER**.

The selected disc number appears in the display and CD/MP3 playback starts.

Multi-Changer Selection (Optional)

When using KCA-410C (Versatile Link Terminal), you can connect two changers and two external outputs (AUX).

1 Press **SOURCE** on this unit to activate the **CD CHG** mode.

2 Press **BAND/TA** to activate the **CD Changer Selection** mode.

The CD Changer Selection mode remains active for several seconds.

3 Press **BAND/TA** until the desired CD Changer appears on the display.

- For further details about the external input (AUX) when using KCA-410C, see "Setting the AUX Mode (V-Link)" on page 23.

Select the desired Folder (Folder up/down) (MP3/WMA/AAC)

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

Return to the previous folder.

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

Advances to the next folder.



The first file in the selected folder is played back.

- When M.I.X. is played back on the USB memory Portable audio player, this operation cannot be performed.




Repeat Play

- 1 Press **F** (**FUNCTION/SETUP**).
The Function screen is displayed.
- 2 Press **Q/ENTER**.
The repeat mode is activated.
- 3 Rotate the **Double Action encoder** to select the **Repeat playback mode**.




USB memory/Portable audio player mode:

- Repeat One  : Only a track is repeatedly played back.
- Folder  : Only files in a folder are repeatedly played back.
- Off : Repeat mode is turned off.

CD Changer mode:

- Repeat One  : Only a file is repeatedly played back.
- Folder *  : Only files in a folder are repeatedly played back.
- Disc  : A disc is repeatedly played back.
- Off : Repeat mode is turned off.

* When an MP3 compatible CD changer is connected.



- 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. The indicator    appears in the display.

- 4 Press **Q/ENTER**.
 - 5 Press **↵**.
The track (file) will be played repeatedly.
- To cancel, select Off in the above procedure.




M.I.X. (Random Play)

- 1 Press **F** (**FUNCTION/SETUP**).
The Function screen is displayed.
- 2 Rotate the **Double Action encoder** to select M.I.X.
- 3 Press **Q/ENTER**.
The M.I.X. mode is activated.
- 4 Rotate the **Double Action encoder** to select the **M.I.X. playback mode**.

USB memory/Portable audio player mode:

- M.I.X. Folder  : Only files in a folder are played back in random sequence.
- All  : All songs in USB memory/Portable audio player are played back in random sequence.
- Off : M.I.X. mode is turned off.

CD Changer mode:

- M.I.X. One  : All files in a disc are played back in random sequence, and playback shifts to the next disc.
- Folder *¹  : Only files in a folder are played back in random sequence.
- All *²  : 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.

^{*1} When an MP3 compatible CD changer is connected.

^{*2} When a CD changer equipped with the ALL M.I.X. function is connected.

- 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.

- 5 Press **Q/ENTER**.

- 6 Press **↵**.

The tracks (files) will be played back in random sequence.

- To cancel, select Off in the above procedure.

Searching for CD Track Number (CD changer only)

You can search for a song by track number.

- 1 Press **Q/ENTER** during play.
This will set the search mode.
 - 2 Rotate the **Double Action encoder** to select the **desired track**, and then press **Q/ENTER**.
This will play the selected track.
- Press **↵** in the search mode to cancel.
 - During list selection, if you press in the outer ring and rotate the **Double Action encoder** to the left or right, the list screen changes screen by screen. If you press then rotate and hold the **Double Action encoder** to the left or right, the list screen continuously changes.
 - CD Track Number search cannot be made during M.I.X. play.

File/Folder Name Search (concerning MP3/WMA/AAC)

You can display and search for the folder and file name while listening to the file currently being played back.

USB memory mode

- 1 During MP3/WMA/AAC playback, press Q/ENTER to activate the search mode.**
The search mode is activated, and the folder/file name is displayed.
- 2 Rotate the Double Action encoder to select the desired folder/file.**
- 3 Press Q/ENTER.**
If you select a file, the selected file is played back.
If you select a folder, a folder/file(s) in the folder is displayed. Proceed to step 4.
- 4 Perform steps 2 and 3 repeatedly until you find the desired file.**



Portable audio player mode

If a Portable audio player is synchronised by the Windows Media Player (Ver. 10, 11), perform the following.

- 1 Press Q/ENTER to activate the search mode.**
The search mode is activated.
- 2 Rotate the Double Action encoder to select “Music” or “Albums” or “Playlists”, and then press Q/ENTER.**
If “Music” is selected, the Artist name list is displayed. Go to step 3.
If “Albums” is selected, go to step 4-1.
If “Playlists” is selected, go to step 4-2.
- 3 Rotate the Double Action encoder to select the desired artist, and then press Q/ENTER.**
An album list of the selected artist is displayed. Go to step 4-1.
- 4-1 Rotate the Double Action encoder to select the desired album, and then press Q/ENTER.**
The song list of the selected album is displayed.
- 4-2 Rotate the Double Action encoder to select the desired playlist, and then press Q/ENTER.**
The song list of the selected playlist is displayed.
- 5 Rotate the Double Action encoder to select the desired song, and then press Q/ENTER.**
The selected song is played back.

MP3 Changer mode

- 1 During MP3 playback, press Q/ENTER to activate the folder search mode.**
The search mode is activated, and the folder name is displayed.
- 2 Rotate the Double Action encoder to select the desired folder, and then press Q/ENTER.**
The File name of the selected folder is displayed.
- 3 Rotate the Double Action encoder to select the desired file, and then press Q/ENTER.**
The selected file is played back.

- If USB memory is connected, the folder/file can be searched up to the eighth hierarchy. The ninth and subsequent folder/file(s) cannot be searched and played back.
- Press and hold  for at least 2 seconds in the search mode to cancel.
- While in the Search mode, press  to switch to the previous mode.
- During list selection, if you press in the outer ring and rotate the **Double Action encoder** to the left or right, the list screen changes screen by screen. If you press then rotate and hold the **Double Action encoder** to the left or right, the list screen continuously changes.
- File/Folder Name search cannot be made during M.I.X. play.
- If there is no file in the folder, nothing is displayed.
- “ROOT” is displayed for the root folder which does not have folder name.
- If a portable audio player is connected, and only playlists have been created, only “Playlists” are displayed.
- If a portable audio player via USB Mass Storage (not synchronised with Windows Media Player) is connected, refer to the search operation during USB memory connection. Refer also to page 4.

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 realises 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.

Unit playback of AAC files encoded by version 7.7 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: 16 - 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: 16 - 320 kbps

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

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.

This device can only display single-byte alphanumeric characters and the underscore. For non-supported characters, "No Support" is displayed.

The tag information may not be correctly displayed, depending on the contents.

Playing back MP3/WMA/AAC

MP3/WMA/AAC files are prepared, and then written to USB memory. Or, synchronise an MP3/WMA file using Windows Media Player (Ver. 10 or 11), and then forward to the Portable audio player.

A USB memory device can hold up to 10,000 files/1,000 folders (including Root Folders). Playback may not be performed if a USB memory / Portable audio player device exceeds the limitations described above.

Media supported

This device can play back USB memory / Portable audio player media.

Corresponding File Systems

This device supports FAT 12/16/32.

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.

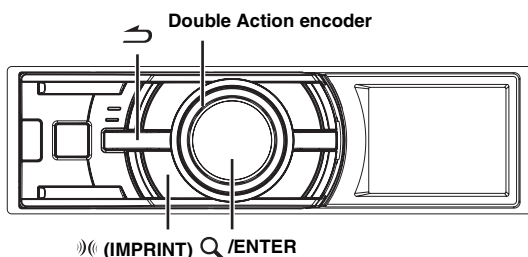
Tag

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.

Sound Setting



If either an external or IMPRINT audio processor is connected, the Sound Setup screen is not displayed. For an external audio processor, refer to "Audio Setting" (page 25) of "SETUP" (page 22) to adjust the sound. For an IMPRINT audio processor, refer to "IMPRINT Operation (Optional)" (page 26) to adjust the sound.

Adjusting Subwoofer/Bass/Treble/Balance (Between Left and Right)/Fader (Between Front and Rear)/Loudness/Defeat

- 1 Press **IMPRINT** repeatedly to choose the desired mode.

Each press changes the mode as follows:

Subwoofer*¹ → Bass Level → Treble Level → Balance → Fader → Loudness → Defeat → Volume → Subwoofer

Subwoofer: 00 ~ 15
Bass level: -7 ~ +7
Treble level: -7 ~ +7
Balance: Left15 ~ Right15
Fader: Rear15 ~ Front15
Loudness: ON/OFF
Defeat: ON/OFF
Volume: -∞ ~ 0 dB

- 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. The function is inoperable when Defeat is set to ON.
- By setting Defeat ON, previously adjusted setting of Bass, Treble and High Pass Filter will return to the factory defaults.
- If **IMPRINT** is not pressed for 15 seconds after selecting the Subwoofer, Bass, Treble, Balance or Fader mode, the unit automatically returns to normal mode.

*¹ When the subwoofer mode is set to OFF, its level cannot be adjusted.

- 2 Rotate the **Double Action encoder** until the desired sound is obtained in each mode.

- Depending on the connected devices, some functions do not work.
- You can store the contents of Balance/Fader/Loudness settings after completing. For how to store, refer to "Storing the Audio Adjustment Level (User Preset)" (page 25).

Setting the Bass Control

You can change the Bass Frequency emphasis to create your own tonal preference.

- 1 Press and hold **IMPRINT** for at least 2 seconds. The Sound Setup screen is displayed.
- 2 Press **ENTER**. The Bass Adjustment setting mode is activated.

Setting the Bass Centre Frequency

- 3 Press **ENTER**. The F₀ setting screen is displayed.
- 4 Press **ENTER**.
- 5 Rotate the **Double Action encoder** to select the desired bass centre frequency, and then press **ENTER**.

60 Hz ↔ 80 Hz ↔ 100 Hz ↔ 200 Hz

Emphasises the displayed bass frequency ranges.

- 6 Press **Left Arrow** to return to Bass Adjustment mode.

Setting the Bass Bandwidth

- 3 Rotate the **Double Action encoder** to select "Q", and then press **ENTER**. The Q setting screen is displayed.
- 4 Press **ENTER**.
- 5 Rotate the **Double Action encoder** to select the desired bass bandwidth.

1 ↔ 1.25 ↔ 1.5 ↔ 2







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


- 6 Press **Left Arrow** to return to Bass Adjustment mode.

- If **Left Arrow** is pressed during setting, the unit returns to the previous item.
- The function is inoperable when Defeat is set to ON.
- You can adjust the bass level in normal mode. For details, refer to "Adjusting Subwoofer/Bass/Treble/Balance (Between Left and Right)/Fader (Between Front and Rear)/Loudness/Defeat" (page 20).
- After the setting, storing the setting contents on the unit is recommended. For details, refer to "Storing the Audio Adjustment Level (User Preset)" (page 25).
- The bass level settings will be individually memorized for each source (FM, MW (LW), 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, MW (LW), CD, etc.).

Setting the Treble Control






You can change the Treble Frequency emphasis to create your own tonal preference.

- 1 Press and hold  (IMPRINT) for at least 2 seconds.**
The Sound Setup screen is displayed.
- 2 Rotate the Double Action encoder to select the “Treble Adjustment”, and then press .**
- 3 Press .**
The F₀ setting screen is displayed.
- 4 Press .**
- 5 Rotate the Double Action encoder to select the desired treble centre frequency, and then press .**
10 kHz ↔ 12.5 kHz ↔ 15 kHz ↔ 17.5 kHz
Emphasises the displayed treble frequency ranges.
- 6 Press and hold  for at least 2 seconds to return to normal mode.**

- If  is pressed during setting, the unit returns to the previous item.
- The function is inoperable when Defeat is set to ON.
- You can adjust the treble level in normal mode. For details, refer to “Adjusting Subwoofer/Bass/Treble/Balance (Between Left and Right)/Fader (Between Front and Rear)/Loudness/Defeat” (page 20).
- After the setting, storing the setting contents on the unit is recommended. For details, refer to “Storing the Audio Adjustment Level (User Preset)” (page 25).

Adjusting the High Pass Filter






The High Pass Filter on this unit can be adjusted to suit your personal taste.

- 1 Press and hold  (IMPRINT) for at least 2 seconds.**
The Sound Setup screen is displayed.
- 2 Rotate the Double Action encoder to select “High Pass Filter Adjustment”, and then press .**
- 3 Rotate the Double Action encoder to select the desired HPF frequency, and then press .**
80 Hz ↔ 120 Hz ↔ 160 Hz ↔ off
- 4 Press  to return to normal mode.**
 - If  is pressed during setting, the unit returns to the previous item.
 - The function is inoperable when Defeat is set to ON.
 - After setting, storing the setting contents is recommended. For how to store, refer to “Storing the Audio Adjustment Level (User Preset)” (page 25).

Turning Subwoofer ON/OFF

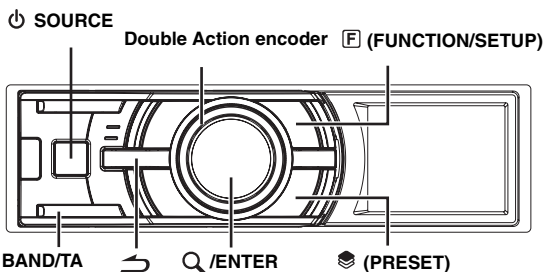
If an optional subwoofer is connected to the unit, make the following setting.

When the subwoofer is on, you can adjust the subwoofer output level (refer to page 20).

- 1 Press and hold  (IMPRINT) for at least 2 seconds.**
The Sound Setup screen is displayed.
- 2 Rotate the Double Action encoder to select “Subwoofer”, and then press .**
- 3 Rotate the Double Action encoder to select ON/OFF, and then press .**
- 4 Press  to return to normal mode.**
 - If  is pressed during setting, the unit returns to the previous item.
 - You can set the subwoofer output level in normal mode. Refer to “Adjusting Subwoofer/Bass/Treble/Balance (Between Left and Right)/Fader (Between Front and Rear)/Loudness/Defeat” (page 20).
 - You can set the subwoofer system in SETUP mode. Refer to “Setting the Subwoofer (Subwoofer System)” (page 25).

SETUP

Use the SETUP menu to flexibly customize the unit to suit your own preferences and usage. Choose settings from General, Display, etc., to make the desired changes.



Follow steps 1 to 5 to choose an item to change. See the individual item descriptions following Step 5 for further details.

1 Press and hold **F (FUNCTION/SETUP)** for at least 2 seconds to activate the SETUP selection mode.

2 Rotate the **Double Action encoder** to select the desired item, and then press **Q/ENTER**.

BLUETOOTH ↔ General ↔ Display ↔ iPod ↔ Tuner ↔ Audio
(e.g. Select General)

3 Rotate the **Double Action encoder** to select a setting item, and then press **Q/ENTER**.
(e.g. Select Beep)

BLUETOOTH:
BLUETOOTH IN

General:

Clock Mode ↔ Clock Adjust*¹ ↔ Calendar Type ↔ Play Mode
↔ Beep ↔ Int Mute ↔ Int Audio ↔ CHG Name*² ↔ AUX IN
↔ AUX+ ↔ AUX Name*³ ↔ AUX+ IN GAIN*⁴ ↔ Power IC
↔ Language ↔ Demo ↔ Steering

Display:

Illumination ↔ Dimmer ↔ Dimmer Level ↔ Text Scroll ↔
BGV Select ↔ BGV Color ↔ BGV Download

iPod:

Playlists ↔ Artists ↔ Albums ↔ Podcasts ↔
Audiobooks ↔ Genres ↔ Composers ↔ Songs

Tuner:

Regional*⁵ ↔ PI SEEK*⁶ ↔ PTY Language ↔ PTY 31*⁷ ↔
Auto Clock*⁸ ↔ FM Level

Audio*⁹:

User Preset ↔ MX*¹⁰ ↔ Subwoofer*¹⁰ ↔
Subwoofer System*¹¹ ↔ MX Level Adjustment*^{10/12}

*¹ Refer to "Setting the Time and Calendar" (page 7).

*² The setting can be made only when a changer is connected.

*³ Displayed only when AUX IN is On.

*⁴ Displayed only when AUX+ is On.

*⁵ Refer to "Receiving RDS Regional (Local) Stations" (page 9).

*⁶ Refer to "PI SEEK Setting" (page 9).

*⁷ Refer to "Setting PTY31 (Emergency Broadcast) reception" (page 10).

*⁸ Refer to "Setting the Time to automatically Adjust" (page 10).

*⁹ If IMPRINT audio processor is connected, you can make more detailed settings for the audio setting. For details, refer to "IMPRINT Operation (Optional)" (page 26).

*¹⁰ The adjustment can be made only when an external audio processor is connected. Refer to the Owner's Manual of the external audio processor.

*¹¹ The setting is available only when Subwoofer is set to ON.

*¹² The setting is available only when MX is set to ON.

4 Rotate the **Double Action encoder** to change the setting, and then press **Q/ENTER**.
(e.g. Select Beep On or Beep Off.)

5 Press and hold **↶** for 2 seconds to return to normal mode.

- Pressing **↶** during the procedure will return to the previous mode.
- During setup, if you press in the outer ring and rotate the **Double Action encoder** to the left or right, the setting item selection screen changes page by page. If you press then rotate and hold the **Double Action encoder** to the left or right, the setting item selection screen continuously changes page by page.

BLUETOOTH Setting

Select "BLUETOOTH" from the setup main menu in step 2 above.

If an optional BLUETOOTH INTERFACE (KCE-400BT) is connected, you can place a hands-free call by a BLUETOOTH-equipped mobile phone.

Make this setting when the BLUETOOTH INTERFACE is connected and the BLUETOOTH function is used. For details, refer to the Owner's Manual of the optional BLUETOOTH INTERFACE.

- When Int Mute is set to On, the BLUETOOTH setting cannot be made. When the BLUETOOTH INTERFACE is connected, set Int Mute to Off. Refer to "Turning Mute Mode On/Off (Int Mute)" (page 23).

Setting the BLUETOOTH Connection (BLUETOOTH IN) BLUETOOTH IN Adapter / BLUETOOTH IN Off (Initial Setting)

General Setting

"General" is selected on the setup main menu in step 2.

Setting the Clock Display (Clock Mode) 24H Type (Initial setting) / 12H Type

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

Setting of Calendar Display Pattern Switching (Calendar Type)

M/D/Y / D/M/Y (Initial setting) / Y/M/D

You can switch the calendar display pattern to be shown when the time is displayed.

Y: shows the year
M: shows the month
D: shows the day
ex. D/M/Y → 31/Dec/2009

Connecting an MP3 Changer (Play Mode) CDDA (Initial setting) / CDDA&MP3

Perform this setting when connecting MP3 changer. MP3 changer can playback CDs containing both CD and MP3 data. However, in some situations (some enhanced CDs), playback may be difficult. For these special cases, you can select playback of CD data only. When a disc contains both CD or the MP3 data, playback starts from the CD data portion of the disc.

CDDA: Only CD data can be played back.

CDDA&MP3: Both CD data and MP3 file tracks can be played back.

- Change discs after performing this setting.

Sound (Beep) Guide Function Beep On (Initial setting) / Beep Off

This function will give audible feedback with varying tones depending upon the button pressed.

Turning Mute Mode On/Off (Int Mute)

Int Mute On (Initial setting) / Int Mute Off

If a device having the interrupt feature is connected, audio will be automatically muted whenever the interrupt signal is received from the device.

- When **BLUETOOTH** is set to **Adapter**, **Int Mute** cannot be set. Refer to “Setting the **BLUETOOTH** Connection (**BLUETOOTH IN**)” (page 22).
- When the **BLUETOOTH INTERFACE** is connected, set **Int Mute** to **Off**.

Setting Tone Defeat for External Devices (Int Audio)

Int Audio On / Int Audio Off (Initial setting)

When inputting external devices to this unit, turning tone defeat on will bypass Bass Frequency, Treble Frequency, High Pass Filter, i.e., sound for external devices is output at the default setting.

Setting the Changer Name (CHG Name)

CHG (Initial setting) / PMD

When an optional changer is connected, you can set the displayed mode name.

- The setting can be made only when a changer is connected. When two changers are connected, the **CHG1 Name/CHG2 Name** is displayed, and the setting can be made respectively.

Setting the AUX Mode (V-Link)

AUX IN On / AUX IN Off (Initial setting)

You can input TV/video sound by connecting an optional Versatile Link Terminal (KCA-410C) to this component.

You can change the AUX name display when **AUX IN** is set to **ON**.

When “**AUX IN**” is set to **On**, select the “**AUX Name**” mode by rotating the **Double Action encoder**, then press **Q/ENTER**.

After that, rotate the **Double Action encoder** to select the desired **AUX** name, then press **Q/ENTER**.

If the **KCA-410C** is connected, it is possible to select two **AUX** names.

- Via **KCA-410C**, up to 2 external devices with **RCA** output can be connected. In this case, press **SOURCE** to select **AUX** mode and then press **BAND/TA** to select your desired device.

Setting the AUX+ Mode

AUX+ On / AUX+ Off (Initial setting)

You can input the audio of an external device, (such as a Portable audio player) 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**.

- AUX+ On:** Set to **On** when an external device is connected. If **SOURCE** is pressed and **Auxiliary+** is selected, the sound of the external device is input to the unit.
- AUX+ Off:** Set to **Off** when a **BLUETOOTH INTERFACE** is connected.

AUX+ Audio Level Adjustment (AUX+ IN GAIN)

High (Initial setting) / Low

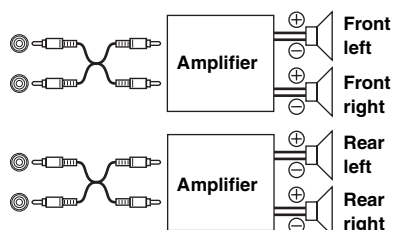
- High:** Increases the external input audio level
- Low:** Decreases the external input audio level

Connecting to an External Amplifier (Power IC)

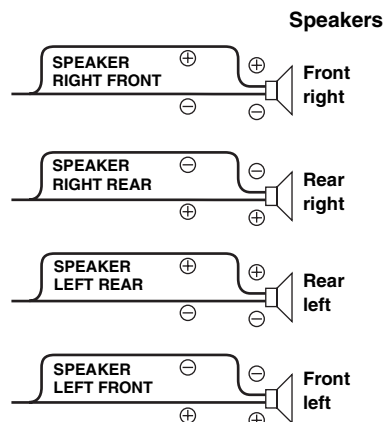
Power IC On (Initial setting) / Power IC Off

When an external amplifier is connected, sound quality can be improved by stopping the power supply of the built-in amplifier.

- Power IC Off:** Use this mode when the front and rear pre-amplifiers of the unit are used to drive an external amplifier connected to the speakers. In this setting, the head unit's internal amplifier has no output to drive speakers.



Power IC On: The speakers are driven by the built-in amplifier.



- No sound is produced by the system when the power output is set to **Off**.

Setting the Language (Language)

For US / For EU1 (Initial setting) / For EU2 / For Japan / Other

Set the language to be displayed on the unit. Set to “**For EU1**” / “**For EU2**” to use the setting.

- For US:** English, French, Spanish
- For EU1:** Russian, English
- For EU2:** English, German, French, Spanish, Italian, Swedish, Portuguese
- For Japan:** Japanese, English
- Other:** Chinese (Chinese standard), English

Demonstration (Demo)

Demo On / Demo Off (Initial setting)

This unit has a **Demonstration** feature for the display.

- To quit **Demo** mode, set to **Demo OFF**.

Setting Adaptive Steering Remote Control (Steering)

Steering On / Steering Off (Initial Setting)

This unit is compatible with the adaptive steering remote control. This function allows operation by sending the steering remote control signal to the unit.

To use the steering remote control, perform the following button operations after setting to On and pressing **Q/ENTER**.

For details, consult your nearest Alpine dealer.

1 Select the assigned function by rotating the **Double Action encoder**.

(e.g. Select Power)

Power ↔ Source ↔ Band ↔ Vol. UP ↔ Vol. DN ↔
Pause ↔ Mute ↔ Bwd ↔ Fwd ↔ P. UP ↔ P. DN ↔ A.Proc

# Steering		
FF	Power	FF
FF	Source	FF
FF	Band	FF
FF	Vol. UP	FF
FF	Vol. DN	FF

2 Press the steering remote control button until the **changed signal value of steering remote control appears in the left of the display**.

(e.g. Press Power of the steering remote control button.)

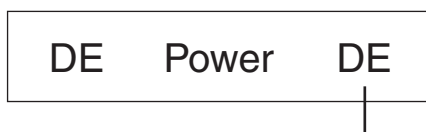
The changed steering remote control signal appears in the left of the display.



The changed signal value of steering remote control

3 Press **Q/ENTER** to execute the setting value.

The confirmed signal value of steering remote control appears in the right of the display. With doing so, the function of the unit is assigned to the steering remote control button.



The confirmed signal value of steering remote control

4 Repeat steps 1 to 3, and set each button.

When settings have been completed, press **↶** to return to the previous mode.

Display Setting

“Display” is selected on the setup main menu in step 2.

Changing Lighting Colour (Illumination)

Illumination Blue (Initial setting) / Illumination Red

You can change the lighting colour of the buttons.

Dimmer Control (Dimmer)

Dimmer On / Dimmer Off (Initial setting)

Set the Dimmer control to On to decrease the illumination brightness of the unit with the head lights of the vehicle ON. This mode is useful if you feel the unit’s backlighting is too bright at night.

Setting the Display Dimmer (Dimmer Level)

Dimmer Level 1 (Initial setting) / Level 2 / Level 3

In the display Dimmer On setting, three levels are available, the highest level (Level 3) being the dimmest when the car headlights are on.

Scroll Setting (Text Scroll)

Text Scroll Type 1 / Type 2 / Off (Initial setting)

You can set a scroll type such as song title or file name on the source screen. If the search mode screen displays fills with text, the display scrolls.

Also, you can select the desired scroll type.

Type 1/Type 2:	Text information is scrolled automatically.
Off:	The first display scrolls text information one time only.

- In parts of the display, scrolling may not occur, or scroll content may differ.
- Regardless of this setting, if the display is filled with text, the display scrolls.

Switching the Display Type (BGV Select)

BGV Select Type 1 (Initial setting) / Type 2 / Type 3 / User

You can select your favourite display for background from 3 types.

To display downloaded data on the unit, select User. Refer to “Downloading the Wallpaper (BGV Download)” (page 24).

Setting the Wallpaper Colour (BGV Color)

BGV Color Type 1 (Initial setting) / Type 2

You can select the background colour of the display between two types.

Type 1:	Blue
Type 2:	Red

Downloading the Wallpaper (BGV Download)

Wallpapers are downloaded only when in USB memory mode.

Wallpaper data is available at a web site designed for Alpine product Owners. Download the wallpaper to your USB flash memory, Upload the Wallpaper from the flash memory to your unit.

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

<https://i-personalize.alpine.com/>

1 Rotate the **Double Action encoder** to select “**BGV Download**”, and then press **Q/ENTER**.

Data in the USB memory is searched and maximum 10 files are displayed.

2 Rotate the **Double Action encoder** to select a file, and then press **Q/ENTER**.

The selected file is downloaded to the unit.

- The downloaded data extension is “apn”.
- You cannot display your own wallpaper you made.
- To display the wallpaper you have downloaded to the unit, select User in “Switching the Display Type (BGV Select)” (page 24).

iPod/iPhone Setting

“iPod” is selected on the setup main menu in step 2.

iPod/iPhone Search Mode Setting

On / Off

The unit allows you to search for the iPod/iPhone 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.

- For search mode details, refer to “Searching for a desired Song/ Title” (page 13).

Tuner Setting

“Tuner” is selected on the setup main menu in step 2.

Switching the Display Language of PTY (PTY Language)

PTY Language GB (Initial Setting) / NL / F / D / I / E

You can select one of the patterns of the display languages.

GB:	ENGLISH
NL:	DUTCH
F:	FRENCH
D:	GERMAN
I:	ITALIAN
E:	SPANISH

Adjusting Source Signal Levels (FM Level)

FM Level High (Initial setting) / FM Level Low

If the difference in volume level between the iPod/iPhone and FM radio is too great, adjust the FM signal level.

Audio Setting

“Audio” is selected on the setup menu in step 2.

- If *IMPRINT* audio processor is connected, you can make more detailed settings for the audio setting. For details, refer to “*IMPRINT Operation (Optional)*” (page 26).

Storing the Audio Adjustment Level (User Preset)

You can store up to 6 adjusted/set contents on this unit.

All of the following adjusted/set items are stored in a preset memory.


Items to be adjusted/set	Reference page
Balance adjustment	Page 20
Fader adjustment	Page 20
Loudness setting	Page 20
Setting the Bass Centre Frequency	Page 20
Setting the Treble Centre Frequency	Page 21
Setting the HPF	Page 21

- 1 **Rotate the Double Action encoder to select “User Preset”, and then press Q/ENTER.**

The User Preset screen is displayed.

- 2 **Rotate the Double Action encoder to select a preset number, and press and hold Q/ENTER for at least 2 seconds.**

Adjusted/set contents are stored in the selected preset number.

- The User Preset screen can also be recalled in normal mode by pressing and holding  (PRESET) for at least 2 seconds.

Recalling the Audio Adjustment Level


You can recall the contents stored in “Storing the Audio Adjustment Level (User Preset)” (page 25).

- 1 **Rotate the Double Action encoder to select “User Preset”, and then press Q/ENTER.**

The User Preset screen is displayed.

- 2 **Rotate the Double Action encoder to select a preset number, and press Q/ENTER.**

Adjusted/set contents of the selected number are recalled.

- The User Preset screen can also be recalled in normal mode by pressing and holding  (PRESET) for at least 2 seconds.

Turning Media Xpander ON/OFF (MX)

MX On / MX Off (Initial Setting)

When the Media Xpander is on, and external audio processor is connected, you can adjust the Media Xpander level (For details, refer to external audio processor’s Owner’s manual).

- Displayed only when external audio processor is connected.

Setting the MX Level (MX Level Adjustment)

Non Effect / Level 1 / Level 2 / Level 3 (Initial Setting)

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

- Displayed only when external audio processor is connected, and MX is set to ON.

Subwoofer On and Off (Subwoofer)

Subwoofer On (Initial setting) / Subwoofer Off

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

- Displayed only when external audio processor is connected.

Setting the Subwoofer (Subwoofer System)

Sys 1 (Initial Setting) / Sys 2

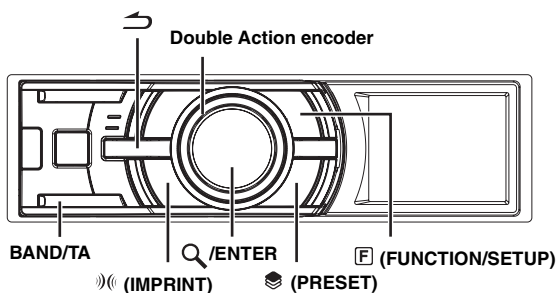
The setting is available only when “Turning Subwoofer ON/OFF” (page 21) is set to On.

- Sys 1: Subwoofer level changes according to the main volume setting.
- Sys 2: Subwoofer level change is different from the main volume setting. For example, even at low volume settings, the subwoofer is still audible.

IMPRINT Operation (Optional)

Alpine introduces IMPRINT - the world's first technology that thoroughly eliminates in-car acoustic problems that normally degrade sound quality, which enables us to experience music the way the artist intended.

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



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 vehicle's response characteristics. For details on the set up procedure, consult your authorized Alpine dealer.

- 1 Press and hold **IMPRINT** for at least 2 seconds.
- 2 Press **Q/ENTER**.
- 3 Rotate the **Double Action encoder** to select the **MultEQ mode**, and then press **Q/ENTER**.
Curve 1 (MultEQ-1) ↔ Curve 2 (MultEQ-2) ↔ OFF (Manual Mode)
- 4 Press and hold **↶** for at least 2 seconds to return to normal mode.

- The Curve mode can be selected only when curve 1 and curve 2 are stored.
- When MultEQ is set to ON, MX, Factory's EQ, Parametric EQ, Graphic EQ, X-Over, Time Correction, Subwoofer System, Tweeter, EQ Mode, Filter Type, Time Correction Parameter and MX Level Adjustment are set automatically. They are no longer user adjustable.

Adjusting Sound Setting in Manual Mode

The sound settings can be modified to create your own preference when the MultEQ mode is off (Manual Mode).

The changes made in manual mode can be stored into a preset. Refer to "Storing and Recalling the Adjusted Contents" (page 30).

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 Press and hold **F (FUNCTION/SETUP)** for at least 2 seconds to activate the **SETUP** selection mode.
- 2 Rotate the **Double Action encoder** to select "Audio", and then press **Q/ENTER**.
BLUETOOTH ↔ General ↔ Display ↔ iPod ↔ Tuner ↔ Audio
- 3 Rotate the **Double Action encoder** to select the desired item, and then press **Q/ENTER**.

User Preset/MX/Factory's EQ/Sound Field Adjustment^{*4}/
Subwoofer/Subwoofer System^{*1}/Subwoofer Phase^{*1}/
Subwoofer Channel^{*1}/Tweeter^{*2}/EQ Mode/Filter Type/
Time Correction Parameter/MX Level Adjustment^{*3}
(e. g. Select MX)

- ^{*1} These functions are inoperable when Subwoofer is set to OFF.
 - ^{*2} This function can be operable only when PXA-H100 (sold separately) is connected and X-OVER switch is set to 3WAY mode. For details, refer to the Owner's Manual of PXA-H100.
 - ^{*3} This function is inoperable when MX is set to OFF.
 - ^{*4} In step 3, three sound adjustment items (Parametric EQ/Graphic EQ, Time Correction, X-Over) can be selected in Sound Field Adjustment mode, rotate the **Double Action encoder** to select the desired item, and then press **Q/ENTER** to continue to step 4.
- 4 Rotate the **Double Action encoder** to change the setting, and then press **Q/ENTER**.
(e. g. Select MX On or MX Off)
 - 5 Press and hold **↶** for at least 2 seconds to return to normal mode.

- User Preset, Media Xpander, Factory's EQ, Parametric EQ/Graphic EQ Adjustment, EQ Mode and MX Level Adjustment are inoperable when Defeat is set to ON.
- Pressing **↶** returns to the previous Sound menu mode.
- During setup, if you press in the outer ring and rotate the **Double Action encoder** to the left or right, the setting item selection screen changes page by page. If you press then rotate and hold the **Double Action encoder** to the left or right, the setting item selection screen continuously changes page by page.

Turning Media Xpander ON/OFF (MX)

On / Off (Initial setting)

When the Media Xpander is on, you can adjust the Media Xpander level (refer to page 27).

- The function is inoperable when Defeat is set to ON.

Setting the MX Level

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

Changing the source to which you want to apply Media Xpander.

FM (Level 1 to 3, Non Effect):

The medium to high frequencies become clearer, and produces well balanced sound at all frequencies.

CD (Level 1 to 3, Non Effect):

CD mode processes a large amount of data during playback. MX takes advantage of this large data quantity to reproduce a more clear, clean output.

MP3/WMA/AAC/iPod/BLUETOOTH Audio (Level 1 to 3, Non Effect):

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

DVD (Video CD)

(Level 1 to 2 (MOVIE), Non Effect):

The dialogue portion of a video is reproduced more clearly.

(Level 3 (MUSIC), Non Effect):

A DVD or Video CD contains a large quantity of data such as music clip. MX uses this data to reproduce the sound accurately.

AUX (Level 1 (MP3/WMA/AAC/iPod/BLUETOOTH Audio), Level 2 (MOVIE), Level 3 (MUSIC), Non Effect):

Choose the MX mode that corresponds to the media connected. If two external devices are connected, a different MX mode for each media can be selected.

- To cancel MX mode for all music sources, set MX to Off in step 4.
- Each music source, such as FM radio, CD, and MP3/WMA/AAC can have its own MX setting.
- When the source changes from "MP3/WMA/AAC to CD-DA" or "CD-DA to MP3/WMA/AAC", MX-mode switching may delay playback slightly.
- Setting to MX Off sets MX mode of each music source to Off.
- There is no MX mode for MW, LW radio.
- The function is inoperable when Defeat is set to ON.

Equalizer Presets (Factory's EQ)

Flat / Pops / Rock / News / Jazz& Blues / Electric Dance / Hip Hop&Rap / Easy Listening / Country / Classical / User^{1-6*}

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

* By selecting User's 1 to 6, you can recall the stored EQ Adjustment value in "Storing and Recalling the Adjusted Contents" (page 30).

- The function is inoperable when Defeat is set to ON.

Turning Subwoofer ON/OFF

Subwoofer On (Initial setting) / Subwoofer Off

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

When the subwoofer is on, you can adjust the subwoofer output level (refer to page 20).

Setting the Subwoofer System

Sys 1 (Initial setting) / Sys 2

When the subwoofer is on, you can select either Sys 1 or Sys 2 for the desired subwoofer effect.

- Sys 1 : Subwoofer level changes according to the main volume setting.
- Sys 2 : 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

Normal (Initial setting) / Reverse

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

Setting the Subwoofer Channel

Stereo (Initial setting) / Mono

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

- Stereo : Subwoofer stereo (L/R) output
- Mono : Subwoofer monaural output

Setting the Response Slope for the High Range Speaker (Tweeter)

Maker's (Initial setting) / User's

Depending on the response characteristics of the speaker, care should be taken when setting the response slope of the high range speaker to 0 dB/oct in 3WAY mode (see "Adjusting the Crossover Settings" on page 29), as speaker damage may result.

Maker's: As protection from possible speaker damage, 0 dB/oct cannot be set for the response slope of the high range speaker in 3WAY mode.

User's: The 0 dB/oct setting is possible in 3WAY mode.

- You can set to Tweeter only when the system switch on the IMPRINT audio processor (PXA-H100) is set to 3WAY.

Setting EQ mode

Graphic / Parametric (Initial setting)

This setting gives you a choice of 5-band parametric, or 7-band graphic equalizer.

- The function is inoperable when Defeat is set to ON.

Setting the Filter type

Normal (Initial setting) / Individual

If you adjust X-OVER, you can set the channel L and R at the same level, or independently.

- Normal (L=R): Left and right speakers are adjusted equally.
- Individual (L/R): Left and right speakers are individually adjusted.

Setting the Time Correction Unit

cm (Initial setting) / inch

You can change the unit, (cm or inch) of time correction.

Sound Field Adjustment

The setting of Parametric EQ/Graphic EQ Adjustment, Time Correction and X-Over can be adjusted in this mode.

Adjusting the Parametric Equalizer Curve

Sound Field Adjustment → EQ Adjustment

You can modify the Equalizer settings to create a response curve more appealing to your personal taste. To adjust the Parametric Equalizer Curve, set the EQ mode to Parametric EQ. For details, refer to "Setting EQ mode" (page 27).

1 Rotate the Double Action encoder to select "EQ Adjustment" in the Sound Field adjustment mode, and then press \mathcal{Q} /ENTER.

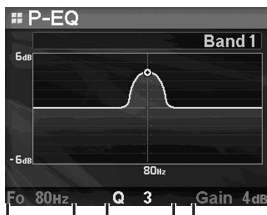
2 Rotate the Double Action encoder to select the Band, and then press \mathcal{Q} /ENTER.

If a band is selected, each band adjustment screen is displayed.

Band1 / Band2 / Band3 / Band4 / Band5

3 Rotate the Double Action encoder to adjust the frequency/band width/level.

The item currently being adjusted lights up.



Frequency Bandwidth Level

4 If \mathcal{Q} /ENTER is pressed, the adjusted value is set, and operation moves to the next item to be adjusted.

5 When the selected band settings are complete, press BAND/TA.

The next band adjustment screen is displayed.

6 Repeat steps 3 to 5, and adjust each band.

■ Frequency Adjustment (Fo)

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

- Band1: 20 Hz~80 Hz (63 Hz)
- Band2: 50 Hz~200 Hz (150 Hz)
- Band3: 125 Hz~3.2 kHz (400 Hz)
- Band4: 315 Hz~8 kHz (1 kHz)
- Band5: 800 Hz~20 kHz (2.5 kHz)

■ Bandwidth Adjustment (Q)

Adjustable bandwidth: 1, 1.5, 3

■ Level Adjustment (Gain)

Adjustable level: -6 to +6 dB

- 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.
- During adjustment, if you press in the outer ring and rotate the Double Action encoder to the left or right, the band changes, and you can adjust the adjacent band. If you press then rotate and hold the Double Action encoder to the left or right, the band continuously changes.
- The function is inoperable when Defeat is set to ON.

Adjusting the Graphic Equalizer Curve

Sound Field Adjustment → EQ Adjustment

You can modify the equalizer settings to create a response curve more appealing to your personal taste. To adjust the graphic equalizer curve, set the EQ mode to Graphic EQ. For details, refer to "Setting EQ mode" (page 27).

1 Rotate the Double Action encoder to select "EQ Adjustment" in the Sound Field adjustment mode, and then press \mathcal{Q} /ENTER.

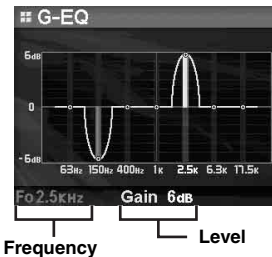
2 Rotate the Double Action encoder to select the Band, and then press \mathcal{Q} /ENTER.

If a band is selected, the screen to be adjusted is displayed.

Band1 / Band2 / Band3 / Band4 / Band5 / Band6 / Band7

3 Rotate the Double Action encoder to adjust the level, and then press \mathcal{Q} /ENTER.

The level is selected, and the frequency selection mode is activated.



Frequency Level

4 Turn the Double Action encoder to select the frequency, and then press \mathcal{Q} /ENTER.

The frequency is selected, and the level adjustment mode is activated. The selected frequency is displayed in yellow.

5 When the selected band settings are complete, press BAND/TA.

The next band adjustment screen is displayed.

6 Repeat steps 3 to 5, and adjust each band level.

■ Frequency Adjustment (F0)

Band1 (63 Hz) / Band2 (150 Hz) / Band3 (400 Hz) /
Band4 (1 kHz) / Band5 (2.5 kHz) / Band6 (6.3 kHz) /
Band7 (17.5 kHz)

■ Level Adjustment (Gain)

Adjustable output level: -6 to +6 dB

- During adjustment, if you press in the outer ring and rotate the **Double Action encoder** to the left or right, the band changes, and you can adjust the adjacent band. If you press then rotate and hold the **Double Action encoder** to the left or right, the band continuously changes.
- The function is inoperable when Defeat is set to ON.

Adjusting the Time Correction

Sound Field Adjustment → Time Correction

Before performing the following procedures, refer to “About Time Correction” (page 31).

- 1 Rotate the **Double Action encoder** to select “Time Correction” in the Sound Field adjustment mode, and then press **Q/ENTER**.

Depending on the X-OVER switch setting on the IMPRINT audio processor (PXA-H100), the speaker to be adjusted differs.

3WAY System

High L / High R / Mid L / Mid R / Low L / Low R

F/R/SUBW. System

Front L / Front R / Rear L / Rear R / Subw. L / Subw. R

- 2 Rotate the **Double Action encoder** to select the speaker, and press **Q/ENTER**.



Selected speakers → SP Front L

- 3 Rotate the **Double Action encoder** to set to the distance of each speaker.

0.0 cm~336.6 cm (0.0 inch~132.7 inch)

- 4 If **Q/ENTER** is pressed, the adjustment value is set, and the speaker selection mode is activated.

- 5 Repeat steps 2 to 4, and set the all speakers.

- During adjustment, if you press in the outer ring and rotate the **Double Action encoder** to the left or right, the speaker changes, and you can adjust the adjacent speaker. If you press then rotate and hold the **Double Action encoder** to the left or right, the speaker continuously changes.
You can also change the speaker by pressing **BAND/TA**.

Adjusting the Crossover Settings

Sound Field Adjustment → X-Over

Before performing the following procedures, refer to “About the Crossover” (page 32).

- 1 Rotate the **Double Action encoder** to select “X-Over” in the Sound Field adjustment mode, and then press **Q/ENTER**.

- 2 Rotate the **Double Action encoder** to select the band, and then press **Q/ENTER**.

If a band is selected, each band screen to be adjusted is displayed.

3WAY System / Normal (L=R)

Setting items:

Low/Mid-Low/Mid-High/High

3WAY System / Individual (L/R)

Setting items:

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

F/R/SUBW. System / Normal (L=R)

Setting items:

Subw./Rear/Front

F/R/SUBW. System / Individual (L/R)

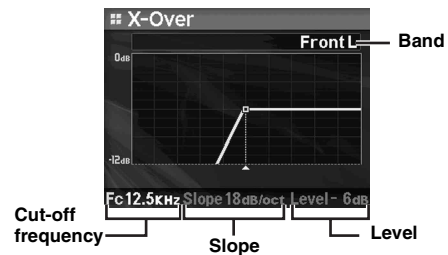
Setting items:

Subw. L/Subw. R/Rear L/Rear R/Front L/Front R

- Depending on the current system, selectable band content differs. Refer to “Setting the Filter type” (page 28) and the setting of the X-OVER switch on the IMPRINT audio processor (PXA-H100).

- 3 Rotate the **Double Action encoder** to adjust the frequency/slope/level.

The currently adjusted item lights up.



- 4 The adjustment content is selected by pressing **Q/ENTER**, and operation shifts to a next adjustment item.

- 5 When the selected band settings are complete, press **BAND/TA**.

The next band adjustment screen is displayed.

- 6 Set all bands by repeating steps 3 to 5.

■ Cut-off frequency (F_c)

Adjustable frequency bands:

3WAY System

Setting items:

Low/Mid-Low L	20 Hz~200 Hz
Mid-High	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 (Tweeter)" (page 27).

*² When User's is selected. Refer to "Setting the Response Slope for the High Range Speaker (Tweeter)" (page 27).

F/R/SUBW. System

Setting items:

20 Hz~200 Hz

■ Slope Adjustment

Adjustable slope: 0*/6/12/18/24 dB/oct

* 0 dB/oct can be set for the High slope only when User's is selected in "Setting the Response Slope for the High Range Speaker (Tweeter)" (page 27). Depending on the response characteristics of the speaker, care should be taken when setting the response slope to 0 dB/oct, as speaker damage may result. With this unit, a message is displayed when the response slope for the high range speaker is set to 0 dB/oct.

■ Level Adjustment

Adjustable output level: -12 to 0 dB.

- While adjusting the X-Over, you should consider the frequency response of the connected speakers.
- During adjustment, if you press in the outer ring and rotate the **Double Action encoder** to the left or right, the band changes, and you can adjust the adjacent band. If you press then rotate and hold the **Double Action encoder** to the left or right, the band continuously changes.
- **About the F/R/SUBW. / 3WAY system**
You can switch to F/R/SUBW. / 3WAY system mode with the X-OVER switch on the PXA-H100. For details, refer to the Owner's Manual of PXA-H100.

Storing and Recalling the Adjusted Contents

User 1 / User 2 / User 3 / User 4 / User 5 / User 6

The contents of all adjusted items (in manual mode) can be stored together into a preset. Up to 6 presets can be used.

■ Storing the Adjusted Contents

1 Rotate the Double Action encoder to select "User Preset", and then press Q/ENTER.

The User Preset screen is displayed.

2 Rotate the Double Action encoder to select a preset number, and then press and hold Q/ENTER for at least 2 seconds.

Adjusted/set contents are stored in the selected preset number.

■ Recall the adjusted contents


The stored contents can be recalled in "Storing and Recalling the Adjusted Contents" (page 30).

1 Rotate the Double Action encoder to select "User Preset", and then press Q/ENTER.

The User Preset screen is displayed.

2 Rotate the Double Action encoder to select a preset number, and then press Q/ENTER.

Adjusted/set contents of the selected preset number are recalled.

- The User Preset screen can be recalled in the normal mode by pressing and holding  (PRESET) for 2 seconds.
- The stored contents are not deleted even when resetting the unit or disconnecting the battery.
- The function is inoperable when Defeat is set to ON.

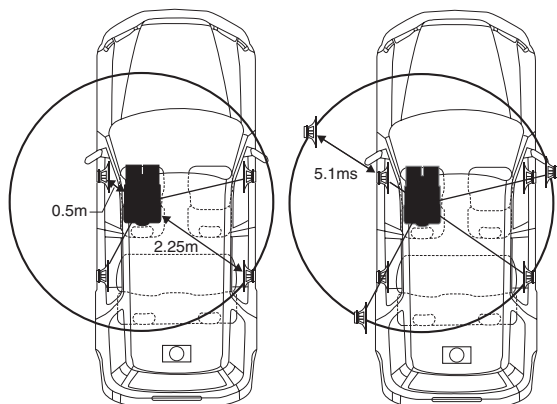
About Time Correction

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 = $1.75 \div 343^{*1} \times 1,000 = 5.1 \text{ (ms)}$

**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 meters) between your head and the various speakers.
- 2** Calculate the difference between the distance correction value to the farthest speaker and the other speakers.

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

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

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	69.7
2	0.2	6.8	2.7	53	5.3	180.2	71.0
3	0.3	10.2	4.0	54	5.4	183.6	72.4
4	0.4	13.6	5.4	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	76.4
7	0.7	23.8	9.4	58	5.8	197.2	77.7
8	0.8	27.2	10.7	59	5.9	200.6	79.1
9	0.9	30.6	12.1	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	83.1
12	1.2	40.8	16.1	63	6.3	214.2	84.4
13	1.3	44.2	17.4	64	6.4	217.6	85.8
14	1.4	47.6	18.8	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	89.8
17	1.7	57.8	22.8	68	6.8	231.2	91.1
18	1.8	61.2	24.1	69	6.9	234.6	92.5
19	1.9	64.6	25.5	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	96.5
22	2.2	74.8	29.5	73	7.3	248.2	97.8
23	2.3	78.2	30.8	74	7.4	251.6	99.2
24	2.4	81.6	32.2	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	103.2
27	2.7	91.8	36.2	78	7.8	265.2	104.5
28	2.8	95.2	37.5	79	7.9	268.6	105.9
29	2.9	98.6	38.9	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	109.9
32	3.2	108.8	42.9	83	8.3	282.2	111.2
33	3.3	112.2	44.2	84	8.4	285.6	112.6
34	3.4	115.6	45.6	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	116.6
37	3.7	125.8	49.6	88	8.8	299.2	117.9
38	3.8	129.2	50.9	89	8.9	302.6	119.3
39	3.9	132.6	52.3	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	123.3
42	4.2	142.8	56.3	93	9.3	316.2	124.6
43	4.3	146.2	57.6	94	9.4	319.6	126.0
44	4.4	149.6	59.0	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	130.0
47	4.7	159.8	63.0	98	9.8	333.2	131.3
48	4.8	163.2	64.3	99	9.9	336.6	132.7
49	4.9	166.6	65.7				
50	5.0	170.0	67.0				

About the Crossover

Crossover (X-OVER):

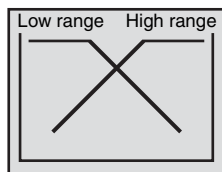
This unit is equipped with an active crossover. The crossover limits the frequencies delivered to the outputs. Each channel is controlled independently. Thus, each speaker pair can be driven by the frequencies for which they have been optimally designed.

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.

F/R/SUBW. 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

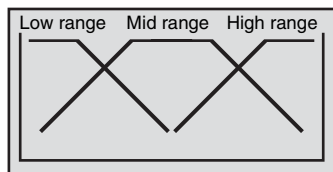


(Different from actual display)

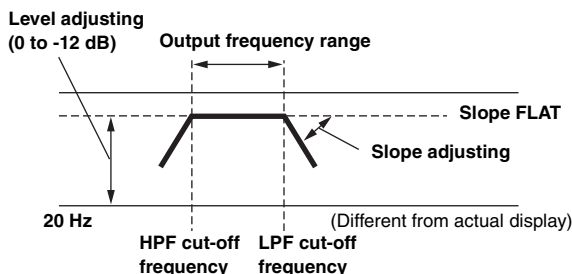
3WAY mode

	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 (Tweeter)" (page 27).



(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 (0 dB/oct) 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.

Information

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 consult your authorized Alpine dealer.

Basic

No function or display.

- Vehicle's ignition is off.
 - If connected following instructions, the unit will not operate with the vehicle's ignition off.
- Improper power lead (Red) and battery lead (Yellow) connections.
 - Check power lead and battery lead connections.
- Blown fuse.
 - Check the fuse 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 ball-point pen or other pointed article.

Radio

Unable to receive stations.

- No antenna or open connection in 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 the 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.

MP3/WMA/AAC

MP3, WMA or AAC is not played back.

- Writing error occurred. The MP3/WMA/AAC format is not compatible.
 - Make sure the MP3/WMA/AAC has been written in a supported format. Refer to "About MP3/WMA/AAC" (pages 18-19), then rewrite in the format supported by this device.

Audio

The sound is not output from the speakers.

- Unit has no output signal of the internal amplifier.
 - Power IC is switched to "On" (page 23).

iPod/iPhone

iPod/iPhone does not play and no sound is output.

- The iPod/iPhone has not been recognised.
 - Reset this unit and the iPod/iPhone. Refer to "Initial System Start-Up" (page 6). To reset the iPod/iPhone, refer to the Owner's Manual of the iPod/iPhone.

Indication for iPod/iPhone Mode

Current Error

- Abnormal current is run to the USB connector device (an error message may be displayed if the USB device that is not compatible with the unit is connected).
 - Attempt to connect another iPod/iPhone.

USB Device Error

- An iPod/iPhone that is not supported by the unit is connected.
 - Connect an iPod/iPhone that is supported by the unit.
 - Reset the iPod/iPhone.

No USB Device

- An iPod/iPhone is not connected.
 - Make sure the iPod/iPhone is correctly connected and the cable is not excessively bent.

No Song

- There are no songs in the iPod/iPhone.
 - Download songs to the iPod/iPhone and connect to this unit.

No Support

- Text information that is not supported on the unit has been input.
 - Use an iPod/iPhone in which text information is input that is supported on the unit.

Error 01

- Communication error
 - Turn the ignition key off, and then set to ON again.
 - Verify in the display after reconnecting the iPod/iPhone to the iPod Dock interface cable and to the USB cable.
 - Reset the iPod/iPhone.

Error 02

- Caused by the iPod/iPhone Software Version not being compatible with this unit.
 - Update the iPod/iPhone Software Version to be compatible with this unit.

Error 03

- The iPod/iPhone is not verified.
 - Reset the iPod/iPhone.
 - Try another iPod/iPhone.
-

Indication for USB memory

Current Error

- Abnormal current is run to the USB connector device (an error message may be displayed if the USB device that is not compatible with the unit is connected).
USB memory is a malfunction or it is shorted.
 - Connect another USB memory.
-

USB Device Error

- A USB device that is not supported by the unit is connected.
 - Connect a USB device that is supported by the unit.
-

No USB Device

- A USB memory is not connected.
 - Make sure the USB memory device is correctly connected and the cable is not excessively bent.
-

No Song

- No song (file) is stored in the USB memory.
 - Connect the USB memory device after storing songs (files).
-

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.
-

No Support

- Text information that is not recognizable by the unit has been input.
 - Use a USB memory device with input text information that is supported by the unit.
-

Indication for Portable audio player Mode

Current Error

- Abnormal current is run to the USB connector device (an error message may be displayed if the USB device that is not compatible with the unit is connected).
 - Attempt to connect another Portable audio player.
-

USB Device Error

- A Portable audio player that is not supported by the unit is connected.
 - Attempt to connect another Portable audio player.
-

No USB Device

- A Portable audio player is not connected.
 - Make sure the Portable audio player is correctly connected and the cable is not excessively bent.
-

No Song

- There are no songs in the Portable audio player.
 - Download songs to the Portable audio player and connect to this unit.
-

No Support

- Text information that is not supported on the unit has been input.
 - Use a Portable audio player in which text information is input that is supported on the 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.
 - Verify in the display after reconnecting the Portable audio player to the connection cable.
-

Error 02

- Caused by the Software Version not being compatible with this unit.
 - Update the Portable audio player Software Version. For details, refer to the Owner's Manual of player.
 - Reset the Portable audio player.
-

Indication for CD Changer

High Temperature

- Protective circuit is activated due to high temperature.
 - The indication will disappear when the temperature returns to normal operating 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.
-

Specifications

FM TUNER SECTION

Tuning Range	87.5-108.0 MHz
Mono Usable Sensitivity	0.7 μ V
Alternate Channel Selectivity	80 dB
Signal-to-Noise Ratio	65 dB
Stereo Separation	35 dB
Capture Ratio	2.0 dB

MW TUNER SECTION

Tuning Range	531-1,602 kHz
Sensitivity (IEC Standard)	25.1 μ V/28 dB

LW TUNER SECTION

Tuning Range	153-281 kHz
Sensitivity (IEC Standard)	31.6 μ V/30 dB

USB SECTION

USB requirements	USB 1.1/2.0
Max. Power Consumption	500mA
File System	FAT 12/16/32
MP3 Decoding	MPEG-1/2 AUDIO Layer-3
WMA Decoding	Windows Media™ Audio (WMDRM10 is supported)
AAC Decoding	AAC-LC format “.m4a” file
Number of Channels	2-Channel (Stereo)
Frequency Response*	5-20,000 Hz (\pm 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.

GENERAL

Power Requirement	14.4 V DC (11-16 V allowable)
Maximum Power Output	50 W \times 4
Maximum Pre-Output Voltage	2 V/10 k ohms
Weight	1.0 kg (2 lbs. 3 oz)

CHASSIS SIZE

Width	178 mm (7")
Height	50 mm (2")
Depth	156 mm (6-1/8")

NOSEPIECE SIZE

Width	170 mm (6-3/4")
Height	46 mm (1-13/16")
Depth	28 mm (1-1/8")

DETACHABLE FRONT PANEL SIZE

Width	108 mm (4-1/4")
Height	46 mm (1-13/16")
Depth	30 mm (1-3/16")

- *Windows Media and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.*
- *iPod is a trademark of Apple Inc., registered in the U.S. and other countries.*
- *iPhone is a trademark of Apple Inc., registered in the U.S. and other countries.*
- *“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.*
- *Audyssey MultEQ XT is a registered trademark of Audyssey Laboratories Inc.*
- *The BLUETOOTH® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Alpine Electronics, Inc. is under license.*
- *“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>”*
- *“Uni-Type™” is a style of Universal design font developed by a joint research between LIM Corporation Ltd., and Chiba University Faculty of Engineering.*
- *“Uni-Type™” is the trademark registered by LIM Corporation Ltd.*

- *Due to continuous product improvement, specifications and design are subject to change without notice.*

Installation and Connections

Before installing or connecting the unit, please read the following and pages 3 and 4 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 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 SHIFT LEVER.

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

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, shift lever, brake pedals, etc. can be extremely hazardous.

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 iDA-X305S. This will reduce any chance of damage to the unit in case of a short-circuit.
- Be sure to connect the colour 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 iDA-X305S to the fuse box, make sure the fuse for the intended circuit of the iDA-X305S 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 iDA-X305S 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.

IMPORTANT

Please record the serial number of your unit in the space provided below and keep it as a permanent record. The serial number or the engraved serial number is located on the bottom of the unit.

SERIAL NUMBER: _____

INSTALLATION DATE: _____

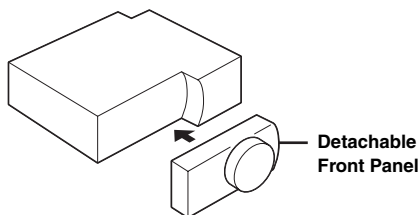
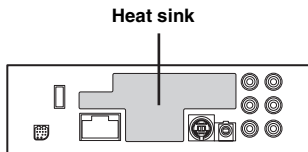
INSTALLATION TECHNICIAN: _____

PLACE OF PURCHASE: _____

Installation

Caution

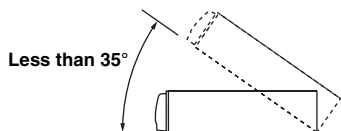
Do not block the unit's heat sink, thus preventing air circulation. If blocked, heat will accumulate inside the unit and may cause a fire.



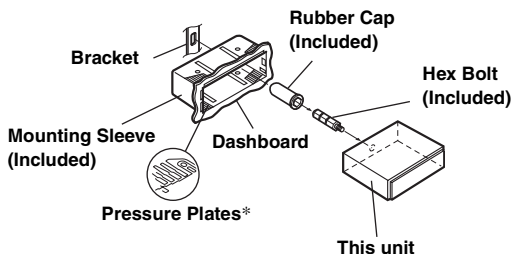
Caution

When you install this unit in your car, do not remove the detachable front panel. If the detachable front panel is removed during installation, you might press too hard and warp the metal plate that holds it in place.

- The main unit must be mounted within 35 degrees of the horizontal plane, back to front.



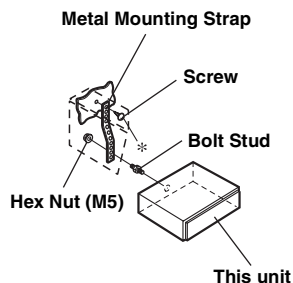
1



* If the installed mounting sleeve is loose in the main unit, the pressure plates may be bent slightly to remedy the problem.

Remove the mounting sleeve from the main unit (see "Removal" on page 38). Slide the mounting sleeve into the dashboard and fix it with the metal shackles.

2

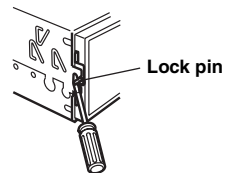


When your vehicle has the Bracket, mount the long hex bolt onto the rear panel of the iDA-X305S and put the Rubber Cap on the hex bolt. If your vehicle does not have the Mounting Support, reinforce the head unit with the metal mounting strap (not supplied). Connect all the leads of the iDA-X305S according to details described in the CONNECTIONS section.

- For the screw *, provide a proper screw to the chassis installing location.

3

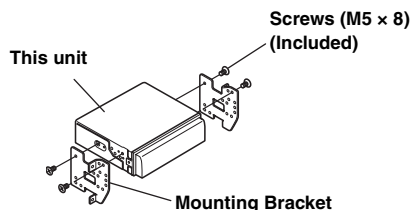
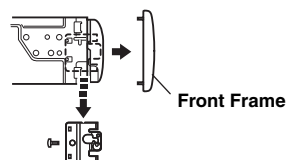
Slide the iDA-X305S into the dashboard. When the unit is in place, make sure the locking pins are fully seated in the down position. This can be done by pressing firmly in on the unit while pushing the locking pin down with a small screwdriver. This ensures that the unit is properly locked and will not accidentally come out from the dashboard. Install the detachable front panel.



Removal

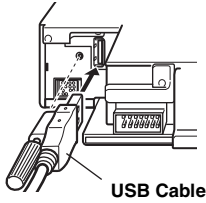
- Remove the detachable front panel.
- Use a small screwdriver (or similar tool) to push the locking pins to the "up" position (see above drawing). As each pin is unlocked, gently pull out on the unit to make sure it does not re-lock before unlocking the second pin.
- Pull the unit out, keeping it unlocked as you do so.

<JAPANESE CAR>



USB cable connection

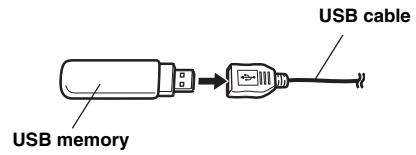
Insert a USB cable into the unit, and fix with a lock screw.



USB memory Connection (sold separately)

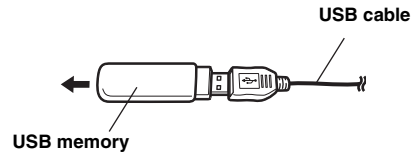
Connect USB memory

Connect USB memory to USB cable.



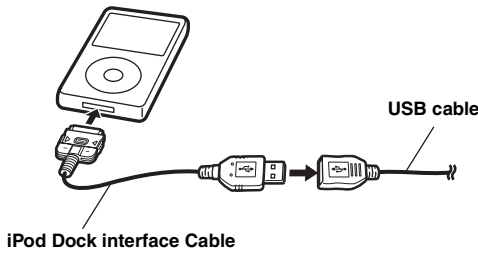
Remove USB memory

Pull out USB memory squarely from the USB cable.



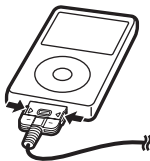
iPod/iPhone Connection (sold separately)

Connect USB cable to an iPod/iPhone with iPod Dock interface cable.



Remove the iPod/iPhone

Remove the iPod/iPhone from iPod Dock interface cable.

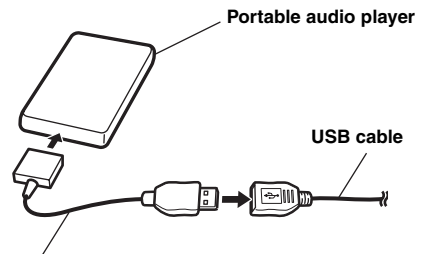


- After changing the unit to a source other than the iPod, remove the iPod/iPhone. If the iPod/iPhone is removed in the iPod mode, data may cause damage.
- If sound is not output or the iPod/iPhone is not recognised even when the iPod/iPhone is connected, remove the iPod/iPhone once, then connect it again, or reset the iPod/iPhone.
- Before connecting the iPod/iPhone to this unit, set the EQ function of iPod/iPhone to OFF.
- Do not leave the iPod/iPhone in a vehicle for a long time. Heat and humidity may damage the iPod/iPhone and you may not be able to play it again.

Portable Audio Player Connection (sold separately)

Connect Portable audio player

Connect the cable supplied with a Portable audio player to the USB cable.



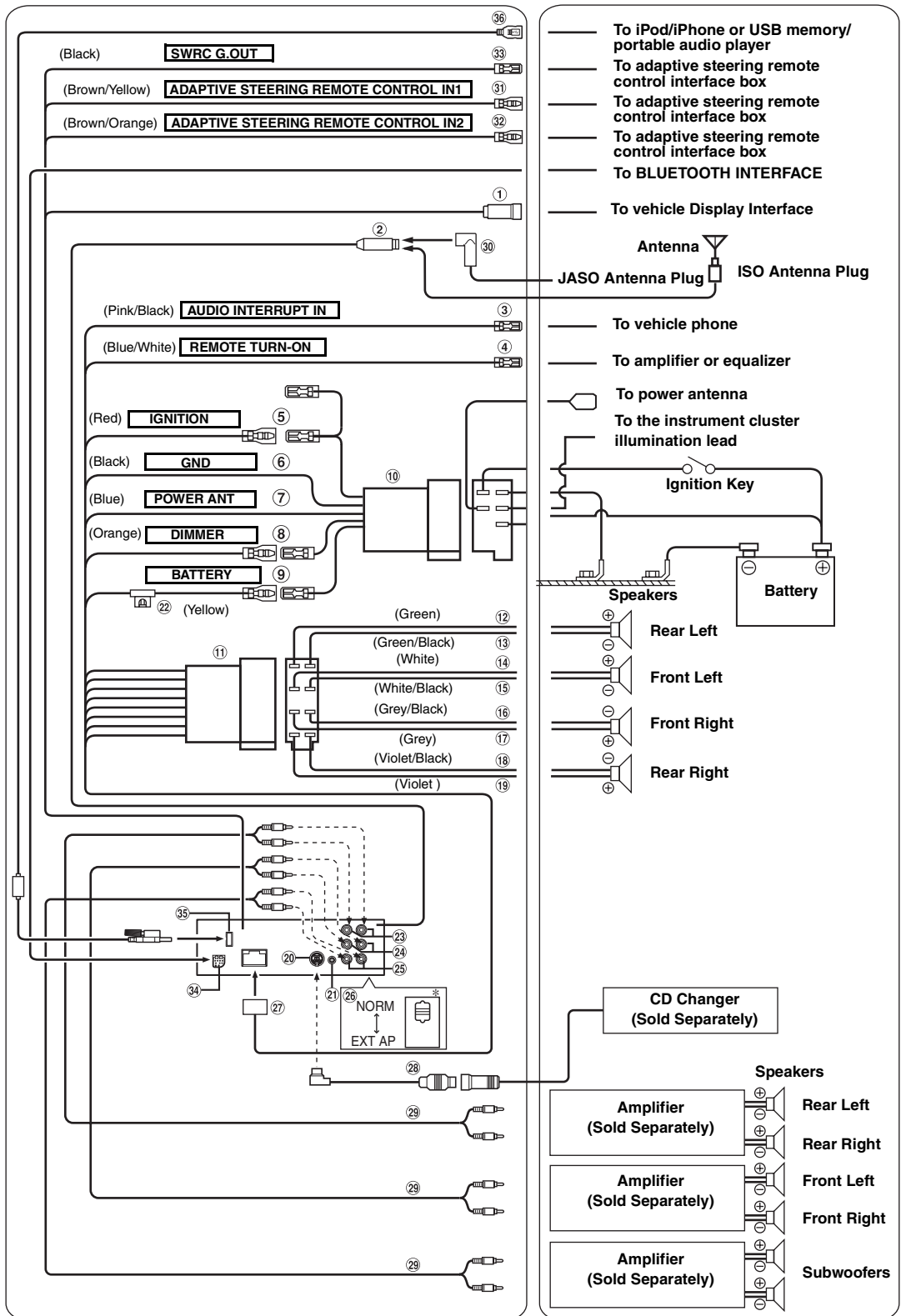
Supplied cable for the Portable audio player

Remove Portable audio player

Disconnect the Portable audio player from the supplied player cable.

- Refer also to the Owner's Manual of the Portable audio player.

Connections



* The system switch is located on the bottom of the unit.

- ① Vehicle Display Interface Connector**
Outputs Vehicle Display Interface control signals. Connect this to the optional Vehicle Display Interface box. For details about connections, consult your nearest Alpine dealer.
- ② Antenna Receptacle**
- ③ Audio Interrupt In Lead (Pink/Black)**
Connect this lead to the Audio Interface output of a cellular phone which provides ground shorting when a call is received.
- ④ Remote Turn-On Lead (Blue/White)**
Connect this lead to the remote turn-on lead of your amplifier or signal processor.
- ⑤ 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.
- ⑥ 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.
- ⑦ 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.*
- ⑧ Dimmer Lead (Orange)**
This lead may be connected to the vehicle's instrument cluster illumination lead. This will enable the vehicle's dimmer control to dim the backlighting of the unit.
- ⑨ Battery Lead (Yellow)**
Connect this lead to the positive (+) post of the vehicle's battery.
- ⑩ ISO Power Supply Connector**
- ⑪ ISO Connector (Speaker Output)**
- ⑫ Left Rear (+) Speaker Output Lead (Green)**
- ⑬ Left Rear (-) Speaker Output Lead (Green/Black)**
- ⑭ Left Front (+) Speaker Output Lead (White)**
- ⑮ Left Front (-) Speaker Output Lead (White/Black)**
- ⑯ Right Front (-) Speaker Output Lead (Grey/Black)**
- ⑰ Right Front (+) Speaker Output Lead (Grey)**
- ⑱ Right Rear (-) Speaker Output Lead (Violet/Black)**
- ⑲ Right Rear (+) Speaker Output Lead (Violet)**
- ⑳ Ai-NET Connector**
Connect this to the output or input connector of other product (CD changer, Equalizer, etc.) equipped with Ai-NET.
- *Be sure to set "Setting the Connected Head Unit (MODEL SETUP)" to "DVD CHG", when the DHA-S690 is connected.*
 - *Interface adapter for iPod (KCA-420i) is not recommended for use with this product.*
- ㉑ Steering Remote Control Interface Connector**
To steering remote control interface box. For details about connections, consult your nearest Alpine dealer.
- ㉒ Fuse Holder (10A)**
- ㉓ Rear Output/Input RCA Connectors**
It can be used as Rear Output or Input RCA Connectors. RED is right and WHITE is left.
- ㉔ Front Output/Input RCA Connectors**
It can be used as Front Output or Input RCA Connectors. RED is right and WHITE is left.
- ㉕ Subwoofer Output RCA Connectors**
RED is right and WHITE is left.
- ㉖ System Switch**
When connecting a processor using Ai-NET, place this switch in the EXT AP position. When no device is connected, leave the switch in the NORM position.
- *When the IMPRINT audio processor is connected, set to EXT AP position.*
 - *Be sure to turn the power off to the unit before changing the switch position.*
- ㉗ Power Supply Connector**
- ㉘ Ai-NET Cable (Included with CD Changer)**
- ㉙ RCA Extension Cable (sold separately)**
- ㉚ ISO/JASO Antenna Adaptor (sold separately)**
An ISO/JASO antenna adaptor may be required, depending on the vehicle.
- ㉛ Adaptive Steering Remote Control In 1 Lead (Brown/Yellow)**
To adaptive steering remote control interface box. For details about connections, consult your nearest Alpine dealer.
- ㉜ Adaptive Steering Remote Control In 2 Lead (Brown/Orange)**
To adaptive steering remote control interface box. For details about connections, consult your nearest Alpine dealer.
- ㉝ Steering Wheel Remote Control G.OUT (Black)**
To adaptive steering remote control interface box. For details about connections, consult your nearest Alpine dealer.
- ㉞ BLUETOOTH Interface Connector**
Connect this to an optional BLUETOOTH INTERFACE (KCE-400BT).
To use a hands-free mobile phone, an optional BLUETOOTH INTERFACE connection is required. For details on connection, refer to the Owner's Manual of the BLUETOOTH INTERFACE. You can input the audio of an external device, (such as a Portable audio player) 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.
- ㉟ USB Connector**
Connect USB cable.
- ㊱ USB cable**
Connect this to an USB memory/portable audio player or to an iPod/iPhone. To use an iPod/iPhone, iPod Dock interface cable connection is required.
- *Use the supplied USB cable. If a USB cable other than the supplied is used, correct performance cannot be guaranteed.*
 - *Route the USB cable away from other cables.*

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.