



# MP3/WMA/AAC CD Receiver CDA-9886M









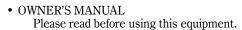












- MODE D'EMPLOI Veuillez lire avant d'utiliser cet appareil.
- MANUAL DE OPERACIÓN
   Léalo antes de utilizar este equipo.

ΕN

FR

ES

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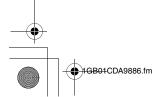
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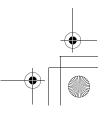
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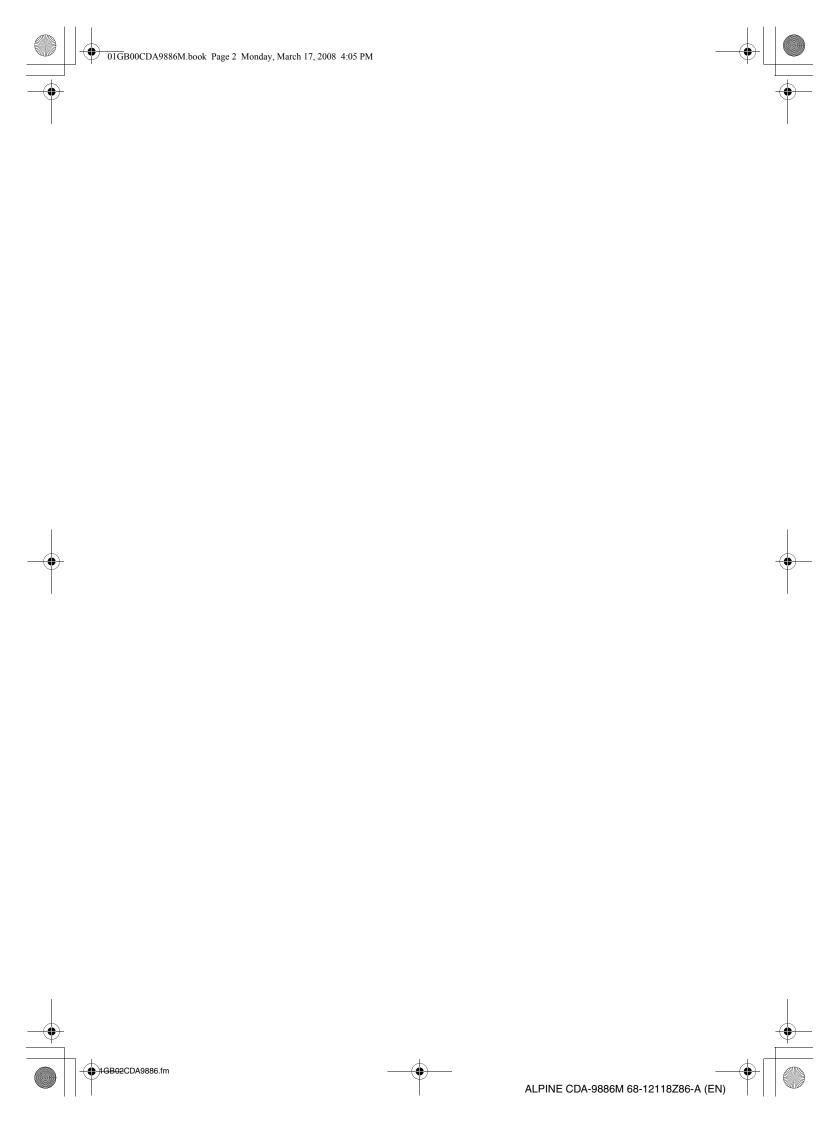
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> Designed by ALPINE Japan 68-12118Z86-A













## •

## **ENGLISH**

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This Owner's Manual describes the unit as already installed in the vehicle.

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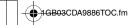
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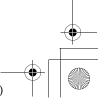
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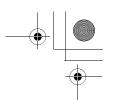
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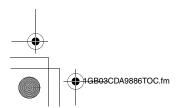


## **Installation and Connections**

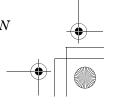
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### **LIMITED WARRANTY**















## 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 VEHICLE 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.

## DO NOT CONNECT A POWER SUPPLY OTHER THAN A DC 12V NEGATIVE GROUND TYPE.

Failure to do so may result in accident or fire.

## 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

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.

## DO NOT PLACE HANDS, FINGERS OR FOREIGN OBJECTS IN INSERTION SLOTS OR GAPS.

Doing so may result in personal injury or damage to the product.

## **!**CAUTION

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

#### HALT USE IMMEDIATELY IF A PROBLEM APPEARS.

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

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

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

## **PRECAUTIONS**

#### **Product Cleaning**

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

#### Temperature

Be sure the temperature inside the vehicle is between  $+60^{\circ}$ C (+140°F) and  $-10^{\circ}$ C (+14°F) before turning your unit on.

#### **Moisture Condensation**

You may notice the CD playback sound wavering due to condensation. If this happens, remove the disc from the player and wait about an hour for the moisture to evaporate.

#### **Damaged Disc**

Do not attempt to play cracked, warped, or damaged discs. Playing a bad disc could severely damage the playback mechanism.

#### 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.





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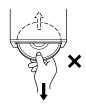






Do not grip or pull out the disc while it is being pulled back into the player by the automatic reloading mechanism.

Do not attempt to insert a disc into the unit when the unit power is off.



#### **Inserting Discs**

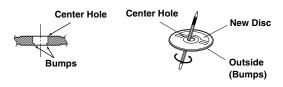
Your player accepts only one disc at a time for playback. Do not attempt to load more than one disc.

Make sure the label side is facing up when you insert the disc. "Error" will be displayed on your player if you insert a disc incorrectly. If "Error" continues to be displayed even though the disc has been inserted correctly, push the RESET switch with a pointed object such as a ballpoint pen.

Playing a disc while driving on a very bumpy road may result in skips, but this will not scratch the disc or damage the player.

#### **New Discs**

To prevent the CD from jamming, "Error" is displayed if discs with irregular surfaces are inserted or if discs are inserted incorrectly. When a new disc is ejected immediately after initial loading, use your finger to feel around the inside of the center hole and outside edge of the disc. If you feel any small bumps or irregularities, this could inhibit proper loading of the disc. To remove the bumps, rub the inside edge of the hole and outside edge of the disc with a ballpoint pen or other such instrument, then insert the disc again.



#### **Irregular Shaped Discs**

Be sure to use round shape discs only for this unit and never use any special shape discs.

Use of special shape discs may cause damage to the mechanism.



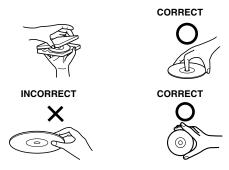
#### **Installation Location**

Make sure this unit will not be installed in a location subjected to:

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

#### **Correct Handling**

Do not drop the disc while handling. Hold the disc so you will not leave fingerprints on the surface. Do not affix tape, paper, or gummed labels to the disc. Do not write on the disc.



#### **Disc Cleaning**

Fingerprints, dust, or soil on the surface of the disc could cause the CD player to skip. For routine cleaning, wipe the playing surface with a clean, soft cloth from the center of the disc to the outer edge. If the surface is heavily soiled, dampen a clean, soft cloth in a solution of mild neutral detergent before cleaning the disc.



#### **Disc Accessories**

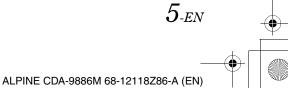
There are various accessories available on the market for protecting the disc surface and improving sound quality. However, most of them will influence the thickness and/or diameter of the disc. Using such accessories can cause the disc to be out of standard specifications and may create operational problems. We recommend not using these accessories on discs played in Alpine CD players.

















#### On handling Compact Discs (CD/CD-R/CD-RW)

- · Do not touch the surface.
- Do not expose the disc to direct sunlight.
- · Do not affix stickers or labels.
- · Clean the disc when it is dusty.
- · Make sure that there are no bumps around the disc.
- · Do not use commercially available disc accessories.

Do not leave the disc in the vehicle or the unit for a long time. Never expose the disc to direct sunlight. Heat and humidity may damage the CD and you may not be able to play it again.

#### To customers using CD-R/CD-RW

- If a CD-R/CD-RW cannot be played back, make sure the last recording session was closed (finalized).
- Finalize the CD-R/CD-RW if necessary, and attempt playback again.

#### About media that can be played

Use only compact discs with the label side showing the CD logo marks below.





If you use unspecified compact discs, correct performance cannot be guaranteed.

You can play CD-Rs (CD-Recordables)/CD-RWs (CD-ReWritables) which have been recorded only on audio devices. You can also play CD-Rs/CD-RWs containing MP3/WMA/AAC formatted audio files.

- Some of the following CDs may not play on this unit:
   Flawed CDs, CDs with fingerprints, CDs exposed to extreme
   temperatures or sunlight (e.g., left in the vehicle or this unit),
   CDs recorded under unstable conditions, CDs on which a
   recording failed or a re-recording was attempted, copy-protected
   CDs which do not conform to the audio CD industry standard.
- Use discs with MP3/WMA/AAC files written in a format compatible with this unit. For details, see pages 12-13.
- ROM data other than audio files contained in a disc will not produce sound when played back.

#### Protecting the USB connector

- Only a USB memory 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 connect it to the unit by using a USB extension cable (sold separately). 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

- To prevent malfunction or damage, note the following points.
   Read the USB memory Owner's Manual thoroughly.
   Do not touch the terminals by hand or metal.
   Do not subject USB memory to excessive shock.
   Do not bend, drop, disassemble, modify or soak in the water.
- Avoid usage or storage in the following locations:
   Anywhere in the vehicle 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.
- USB memory function is not guaranteed. Use USB memory according to the terms of agreement.
- Depending on the settings of the USB memory type, memory state or encoding software, the unit may not play back or display properly.
- A file that is copy-protected (copyright protection) cannot be played back.
- USB memory may take time to start playback. If there is a
  particular file other than audio in the USB memory, it may take
  considerable time before the file is played back or searched.
- The unit can play back "mp3," "wma" or "m4a" file extensions.
- Do not add the above extensions to a file other than audio data. This non-audio data will not be recognized. The resulting playback may contain noise that can damage speakers and/or amplifiers.
- It is recommended to back up important data on a personal computer.
- Do not remove the USB device while playback is in progress.
   Change SOURCE to something other than USB, then remove the USB device to prevent possible damage to its memory.
- 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.
- HD Radio<sup>TM</sup> and the HD Radio Ready logo are proprietary trademarks of iBiquity Digital Corp.
- "MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson."
- "Supply of this product only conveys a license for private, noncommercial use and does not convey a license nor imply any right to use this product in any commercial (i.e. revenuegeneration) 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"
- Manufactured under license from Audyssey Laboratories MultEQ XT is a trademark of Audyssey Laboratories.



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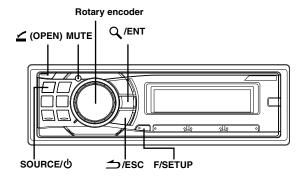








## **Getting Started**



### **Accessory List**

<ul> <li>Head unit</li> </ul>	1
Power cable	1
Mounting sleeve	1
Carrying case	1
Bracket key	2
Cover sheet	1
Screw (M5 × 8)	4
FULL SPEED™ Connection Cable	1
Remote Control	1
Battery (AAA size)	2
Owner's Manual	

## **Turning Power On and Off**

Press SOURCE/ to turn on the unit.

• The unit can be turned on by pressing any other button except (OPEN).

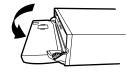
Press and hold SOURCE/ for at least 2 seconds to turn off the unit.

• The first time power is turned on, the volume will start from level 12.

## **Detaching and Attaching the Front Panel**

#### Detaching

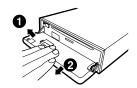
- Turn off the unit power.
- Press **(OPEN)** to open the front panel.



To close the front panel, press the left side until it locks as shown in the figure below.



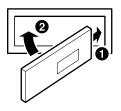
Grasp the front panel firmly, slide to the left 10, and then pull 2 to remove.



- The front panel may become hot in normal usage (especially the connector terminals on the back of the front panel). This is not a
- To protect the front panel, place it in the supplied carrying case.
- When detaching the front panel, do not apply excessive force as it may result in malfunction.
- Do not leave the front panel open, or drive the vehicle with the panel open as it may result in an accident or malfunction.

#### **Attaching**

- 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.

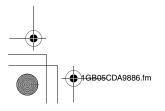


- Before attaching the front panel, make sure that there is no dirt or dust on the connector terminals and no foreign object between the front panel and the main unit.
- Attach the front panel carefully, holding the sides of the front panel to avoid pushing buttons by mistake.

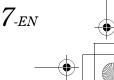
## Initial System Start-Up

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

- Turn off the unit power.
- 2 Press  $\underline{\hspace{0.1cm} \hspace{0.1cm} \boldsymbol{\angle}}$  (OPEN) to open the front panel, and then remove it.
- 3 Press RESET with a ballpoint pen or similar pointed object.



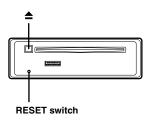












### **Adjusting Volume**

Turn the **Rotary encoder** until the desired sound is obtained.

## **Lowering Volume Quickly**

Activating the Audio Mute function will instantly lower the volume level by  $20\ \mathrm{dB}$ .

#### Press MUTE to activate the MUTE mode.

The audio level will decrease by about 20 dB.

Pressing **MUTE** again will bring the audio back to its previous level.

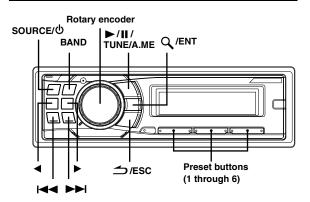
### **Setting the Time and Calendar**

- 1 Press and hold **F/SETUP** for at least 2 seconds to activate the SETUP selection mode.
- 2 Turn the **Rotary encoder** to select the General mode, and then press Q /**ENT**.

Bluetooth\* $^l \leftrightarrow \text{General} \leftrightarrow \text{Display} \leftrightarrow \text{XM*}^2/\text{SIRIUS*}^3 \leftrightarrow \text{HD Radio*}^4 \leftrightarrow \text{Bluetooth}$ 

- \* Displayed only when INT Mute is OFF and the mode is set to other than Bluetooth Audio.
- \*2 Only when XM Radio is connected.
- \*3 Only when SIRIUS Radio is connected.
- \*4 Only when HD Radio is connected.
- Turn the Rotary encoder to select Clock Adjust, and then press Q /ENT.
- 4 Turn the Rotary encoder to set year.
- 5 Press Q/ENT.
- 6 Repeat steps 4 and 5 above to set month, day, hour and minute.
- Press and hold F/SETUP for at least 2 seconds to return to normal mode.
- Pressing  $\triangle$ /ESC returns to the previous SETUP mode.
- $\bullet \ \ \textit{If no operation is performed for 60 seconds, SETUP is canceled.}$
- To synchronize the clock to another clock/watch or radio time announcement, press and hold Q/ENT for at least 2 seconds after setting the "hour". Minutes will reset to 00. If the display shows over "30" minutes when you do this, the time will advance one hour.

## Radio



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

### **Listening to Radio**

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

 $\mathrm{FM1} \rightarrow \mathrm{FM2} \rightarrow \mathrm{AM} \rightarrow \mathrm{FM1}$ 

Press TUNE/A.ME to select the tuning mode.

DX (Distance mode)  $\rightarrow$  LOCAL (Local mode)  $\rightarrow$  MANUAL (Manual mode)  $\rightarrow$  DX

• 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).

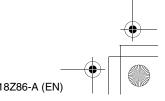
#### Manual mode:

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

- 4 Press I◄◄ or ►►I to tune in the desired station. Holding down I◄◄ or ►►I will change the frequency continuously.
- If Digital Seek is set to ON, the SEEK UP/DOWN functions only stop on digital station frequencies while receiving HD radio. Refer to "Digital Seek ON/OFF Setting" (page 21).















## **Presetting Stations Manually**

- Select the radio band and tune in a desired radio station you wish to store in the preset memory.
- Press and hold, for at least 2 seconds, any one of the preset buttons (1 through 6) into which you wish to store the station.

The selected station is stored.

The display shows the band, preset number and station frequency memorized.

- A total of 18 stations can be stored in the preset memory (6 stations for each band; FM1, FM2 and AM).
- 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.

## **Presetting Stations Automatically**

- 1 Press BAND repeatedly until the desired radio band is displayed.
- 2 Press and hold **TUNE/A.ME** for at least 2 seconds.

The tuner will automatically seek and store 6 strong stations in the selected band. They will be stored into preset buttons 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 repeatedly until the desired band is displayed.
- Press any one of the station preset buttons (1 through 6) that has your desired radio station in memory.

The display shows the band, preset number and frequency of the station selected.

### **Frequency Search Function**

You can search for a radio station by its frequency.

- Press and hold Q /ENT for at least 2 seconds in Radio mode to activate Frequency search mode.
- 2 Turn the **Rotary encoder** to select the desired frequency.
- $3^*$  Press Q /ENT to receive the selected frequency.
- \* Operation is not required during HD Radio reception.
- Press and hold 

  /ESC for at least 2 seconds in the search mode to cancel. Or, the search mode will be canceled if no operation is performed for 10 seconds.

## Receiving a Multicast Station (HD Radio mode only)

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

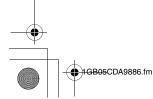
When multicast station is received, the program number and the SPS indicator lights up. Press ◀ or ▶ to select the desired program service.

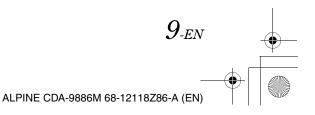
Receiving the Multicast Station Program Service.



Program Service example:

Multicast Radio Station	Program No.	Program Service
87.7 MHz	No.1	MPS: Main Program Service
87.7 MHz	No.2	SPS: Sub-program Service
87.7 MHz	No.3	SPS: Sub-program Service
	1	
	1	
	1	
	1	
87.7 MHz	No.8	SPS: Sub-program Service





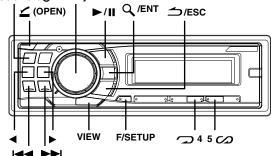






## CD/MP3/WMA/AAC

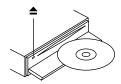
SOURCE/ Rotary encoder



### **Playback**

1 Press <u>✓</u> (OPEN).
The front panel will open.

Insert a disc with the label side facing up.
The disc will be pulled into the unit automatically.



Close the front panel manually.

When a disc is already inserted, press SOURCE/ $\phi$  to switch to the DISC mode.

TUNER  $\rightarrow$  XM/SIRIUS\* $^I$   $\rightarrow$  DISC  $\rightarrow$  USB  $\rightarrow$  iPod\* $^2$ /AUX+\* $^3$   $\rightarrow$  Bluetooth Audio\* $^4$   $\rightarrow$  CHANGER\* $^5$   $\rightarrow$  TUNER

- \*1 Only when XM Radio or SIRIUS Radio is connected.
- \*2 Displayed only when the iPod is connected and AUX+ Setup is set to OFF, refer to "Setting the AUX+ Setup Mode" (page 20).
- \* Displayed only when the AUX+ Setup is set to ON, refer to "Setting the AUX+ Setup Mode" (page 20).
- \*\* Displayed only when Bluetooth IN is set to ADAPTER, refer to "Bluetooth Setting" (page 19).
- \*5 Only when the CD changer is connected.

## 3 While playing back MP3/WMA/AAC, press ✓ or ► to select the desired folder.

Pressing and holding  $\blacktriangleleft$  or  $\blacktriangleright$  will change folders continuously.

#### 4 Press I◄◄ or ▶►I to select the desired track (file).

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

Press ►

#### Fast backward:

Press and hold I

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

Press ►►

#### Fast forward:

Press and hold >> .

5 To pause playback, press ►/II.

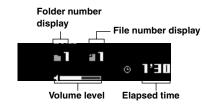
Pressing ▶/II again will resume playback.

## 6 After pressing <u>∠</u> (OPEN) to open the front panel, press <u>A</u> to eject the disc.

- Do not remove a CD during its eject cycle. Do not load more than one disc at a time. A malfunction may result from doing either.
- If the CD does not eject, press and hold **≜** for at least 2 seconds.
- The CD-player can play discs containing audio data, MP3 data, WMA data and AAC data.
- WMA format files that are protected by DRM (Digital Rights Management), AAC format files that have been purchased from iTunes Music Store and files that are copy-protected (copyright protection) cannot be played back on this unit.
- The track display for MP3/WMA/AAC data playback is the file numbers recorded on the disc.
- The playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played back.

#### MP3/WMA/AAC Play Display

The folder number and file number will be displayed as described below.



 Press VIEW to switch the display. See "Displaying the Text" (page 17) for information about display switching.

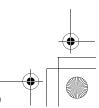






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### Repeat Play

Press 7 4 to play back repeatedly the track being played. The track (file) will be played repeatedly.

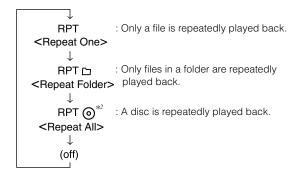
Press 4 again and select off to deactivate repeat play.

#### CD mode:

: Only a track is repeatedly played back. **RPT** <Repeat One> RPT (6)\*/ : A disc is repeatedly played back. <Repeat All> (off)

• If RPT is set to ON during M.I.X. play in CD changer mode, M.I.X. will apply to the current disc only.

#### MP3/WMA/AAC mode:



<sup>\*2</sup> When an MP3 compatible CD changer is connected.

• If a CD changer or an MP3 compatible CD changer is connected: After pressing F/SETUP to select the function mode (RPT/M.I.X.), perform the operation within 5 seconds.

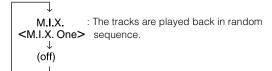
## M.I.X. (Random Play)

#### Press 5 in the play or pause mode.

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

To cancel M.I.X. play, press 5 again.

#### Internal CD mode:

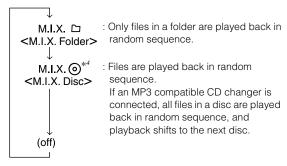


#### CD Changer mode:



- \*3 When a CD changer equipped with the ALL M.I.X. function is
- If M.I.X. is set to ON during RPT (a) (REPEAT ALL) play in CD changer mode, M.I.X. will apply to the current disc only.

#### MP3/WMA/AAC mode:



- \*4 In the USB mode, all files stored in the USB memory are played back in random sequence, and the "MIX" indicator lights up.
- When a song is played back during Random (M.I.X.) play in the USB mode, the song can be played back again randomly even if not all songs on the USB Memory have been played back.
- If a CD changer or an MP3 compatible CD changer is connected: After pressing F/SETUP to select the function mode (RPT/M.I.X.), perform the operation within 5 seconds.

## **Searching for CD Text**

On discs utilizing CD Text, songs can be searched and played by using their recorded titles. For discs without CD Text, searches are made using the track numbers associated with each song.

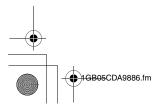
#### Press Q /ENT during play.

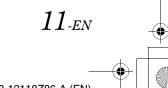
This will set the search mode.

### Turn the Rotary encoder to select the desired track, and then press Q /ENT.

This will play the selected track.

- Press and hold \(\frac{1}{2}\)/ESC for at least 2 seconds in the search mode to cancel. Or, the search mode is canceled if no operation is performed for 10 seconds.
- When CD Text Search is made during M.I.X. play, the M.I.X. play mode will be canceled.





<sup>\*1</sup> When a CD changer is connected.





## •

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

Folder and file names may be searched and displayed during playback.

- 1 During MP3/WMA/AAC playback, press  $\mathbb{Q}$  /ENT to activate the search mode.
- Turn the Rotary encoder to select Folder Name Search mode or File Name Search mode, and then press Q /ENT.

#### Folder Name Search mode

- 3 Turn the Rotary encoder to select the desired folder.
- 4 Press and hold Q /ENT for at least 2 seconds to play back the first file in the selected folder.
- Press and hold \(\to\)/ESC for at least 2 seconds in the search mode to cancel. Or, the search mode is canceled if no operation is performed for 10 seconds.
- To search for files in the Folder Name Search mode, press Q /ENT.
   Files in the folder may be searched.
- Press 

   /ESC to exit Folder Name Search mode in step 3 in order to select File Name Search mode.
- The root folder of disc is displayed as blank.
- When Folder Name Search is made during M.I.X. play, the M.I.X. play mode will be canceled.

#### File Name Search mode

- 3 Press ■ or ▶ to select another Folder.
- 4 Select the desired file by turning the **Rotary** encoder.
- 5 Press Q /ENT to play back the selected file.
- Press and hold 
   \( \sumething \) /ESC for at least 2 seconds in the search mode to cancel. Or, the search mode is canceled if no operation is performed for 10 seconds.
- Press \(\sigma /ESC\) in the search mode to return to the previous mode.
- When File Name Search is made during M.I.X. play, the M.I.X. play mode will be canceled.

### **Quick Search**

You can search for tracks (files).

- 1 Press and hold Q /ENT for at least 2 seconds in the CD/Changer/MP3/WMA/AAC mode to activate Quick Search mode.
- Turn the Rotary encoder to select a desired track (file).

The selected track is played back immediately.

 Press and hold \(\to\)/ESC for at least 2 seconds in the search mode to cancel. Or, the search mode is canceled if no operation is performed for 10 seconds.

### **About MP3/WMA/AAC**

#### **CAUTION**

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

#### What is MP3?

MP3, whose official name is "MPEG-1 Audio Layer 3," is a compression standard prescribed by the ISO, the International Standardization Organization and MPEG which is a joint activity institution of the IEC.

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

#### What is AAC2

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<sup>TM</sup> 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 using software with MP3/WMA/AAC codecs. For details on creating MP3/WMA/AAC files, refer to the user's manual for that software.

MP3/WMA/AAC files that are playable on this device have the file extensions.

MP3: "mp3"

WMA: "wma" (ver. 7.1, 8 and 9 are supported)

AAC: "m4a

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

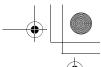














#### Supported playback sampling rates and bit rates

MP3

Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz,

16 kHz, 12 kHz, 11.025 kHz, 8 kHz

Bit rates: 32 - 320 kbps

WMA

Sampling rates: 48 kHz, 44.1 kHz, 32 kHz

48 - 192 kbps Bit rates:

AAC

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

This device may not play back correctly depending on sampling

In the USB mode, the playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played

#### ID3 tags/WMA tags

This device supports ID3 tag v1 and v2, and WMA tag. 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

This device can only display single-byte alphanumeric characters (up to 30 for ID3 tags and up to 15 for WMA tags) and the underscore. For non-supported characters, the display

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

#### Playing back MP3/WMA/AAC

MP3/WMA/AAC files are prepared, then written to a CD-R, CD-RW using CD-R writing software or stored to a USB memory. A disc can hold up to 510 files/folders (including Root Folders), and the maximum number of folders is 255. This unit can recognize at least 100 folders (including root folder) and 100 files per folder stored in USB memory.

Playback may not be performed if a disc or USB memory exceeds the limitations described above.

Do not make a file's playback time more than 1 hour.

#### Media supported

The media that this device can play back are CD-ROMs, CD-Rs, and CD-RWs.

This device also can play back USB memory media.

#### Corresponding File Systems

This device supports discs formatted with ISO9660 Level 1 or Level 2.

Under the ISO9660 standard, there are some restrictions to remember.

The maximum nested folder depth is 8 (including the root directory). The number of characters for a folder/file name is

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

This device can play back discs in Joliet, Romeo, etc., and other standards that conform to ISO9660. However, sometimes the file names, folder names, etc., are not displayed correctly. This device also supports FAT 12/16/32 for USB memory device.

#### Formats supported

HGB05CDA9886.fm

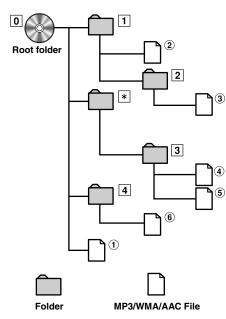
This device supports CD-ROM XA, Mixed Mode CD, Enhanced CD (CD-Extra) and Multi-Session.

This device cannot correctly play back discs recorded with Track At Once or packet writing.

#### Order of files

Files are played back in the order that the writing software writes them to the disc. Therefore, the playback order may not be what is expected. Verify the writing order in the software's

documentation. The playback order of the folders and files is as follows



\* The folder No./ folder Name will not be displayed if no file is contained in the folder.

#### **Terminology**

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.

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

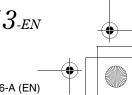
#### Tag

Song information such as track titles, artist names, album names, etc., written into MP3/WMA/AAC files.

#### Root folder

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





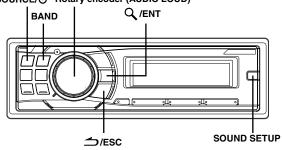






## **Sound Setting**

SOURCE/也 Rotary encoder (AUDIO·LOUD)



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

1 Press Rotary encoder (AUDIO) repeatedly to choose the desired mode.

Each press changes the mode as follows:

 $\mathsf{SUBWOOFER}^* \to \mathsf{BASS} \to \mathsf{TREBLE} \to \mathsf{BALANCE} \to \mathsf{FADER}$ → DEFEAT → VOLUME → SUBWOOFER

Subwoofer level: 0 ~ +15 Bass level: -7 ~ +7 Treble level: -7 ~ +7 Balance: L15 ~ R15 Fader: R15 ~ F15 Defeat: ON/OFF Volume: 0 ~ 35

- If no operation is performed for 5 seconds after selecting the SUBWOOFER, BASS, TREBLE, BALANCE, FADER, VOLUME or DEFEAT mode, the unit automatically returns to normal mode.
- \* When the subwoofer mode is set to OFF, its level cannot be adjusted. Refer to "Turning Subwoofer ON/OFF" (page 16).
- Turn the Rotary encoder until the desired sound is obtained in each mode.

By setting Defeat ON, previously adjusted settings of BASS and TREBLE will return to the factory defaults.

· Depending on the connected devices, some functions and display indications do not work.

## Setting the Subwoofer Level

You can change the Subwoofer Level to create your own tonal preference.

- 1 Press SOUND SETUP to activate the Sound Setting
- Turn the Rotary encoder to select the SUBW. Level Adjustment mode, and then press Q /ENT.

SUBW. Level\* $^I \leftrightarrow \mathsf{Bass}^{*2} \leftrightarrow \mathsf{Treble}^{*2} \leftrightarrow \mathsf{HPF}^{*2} \leftrightarrow \mathsf{Black}$  Out 

- Turn the Rotary encoder to select the desired subwoofer level (0~+15).
- If no operation is performed for 15 seconds, the unit will return to normal mode automatically.
- \* When the subwoofer mode is set to OFF, its level cannot be adjusted. Refer to "Turning Subwoofer ON/OFF" (page 16). The adjustment can also be made by pressing Rotary encoder (AUDIO). Refer to "Adjusting Subwoofer Level/Bass Level/Treble Level/Balance (Between Left and Right)/Fader (Between Front and Rear)/Defeat" (page 14).
- \*2 The function is inoperable when DEFEAT is set to ON.

### **Setting the Bass Control**

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

- 1 Press SOUND SETUP to activate the Sound Setting
- Turn the Rotary encoder to select the Bass Adjustment mode, and then press Q /ENT.

SUBW. Level\*<sup>3</sup>  $\leftrightarrow$  Bass\*<sup>4</sup>  $\leftrightarrow$  Treble\*<sup>4</sup>  $\leftrightarrow$  HPF\*<sup>4</sup>  $\leftrightarrow$  Black Out  $\leftrightarrow$  SUBW. Level

#### **Setting the Bass Center Frequency**

3-1 Press BAND to select the desired bass center frequency.

80 Hz ightarrow 100 Hz ightarrow 200 Hz ightarrow 60 Hz ightarrow 80 Hz Emphasizes the displayed bass frequency ranges.

#### **Setting the Bass Bandwidth**

3-2 Press SOURCE/ to select the desired bass bandwidth.

> Q2  $\rightarrow$  $Q3 \rightarrow Q4$  $(Narrow) \leftarrow \cdots \rightarrow (Wide)$

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









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### **Setting the Bass Level**

#### ${f 3} ext{-}{f 3}^{*5}$ Turn the **Rotary encoder** to select the desired bass level (-7~+7).

You can emphasize or weaken the bass level.

- Press and hold **1/ESC** for at least 2 seconds to return to normal mode.
- If no operation is performed for 15 seconds, the unit will return to normal mode automatically.
- · The bass level settings will be individually memorized for each source (FM, AM, CD, etc.) until the setting is changed. The bass frequency and bass bandwidth settings adjusted for one source are effective for all other sources (FM, AM, CD, etc.).
- · Depending on the connected devices, some functions and display indications do not work. However, Bass Level is still adjustable if an audio processor with the Bass function is connected.
- \*3 When the subwoofer mode is set to OFF, its level cannot be adjusted. Refer to "Turning Subwoofer ON/OFF" (page 16).
- \*4 The function is inoperable when DEFEAT is set to ON.
- \*5 The adjustment can also be made by pressing Rotary encoder (AUDIO). Refer to "Adjusting Subwoofer Level/Bass Level/Treble Level/Balance (Between Left and Right)/Fader (Between Front and Rear)/Defeat" (page 14).

## **Setting the Treble Control**

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

- 1 Press SOUND SETUP to activate the Sound Setting mode.
- Turn the Rotary encoder to select the Treble Adjustment mode, and then press  $\mathbb{Q}$  /ENT.

SUBW. Level\* $^6 \leftrightarrow \mathsf{Bass}^{*7} \leftrightarrow \mathsf{Treble}^{*7} \leftrightarrow \mathsf{HPF}^{*7} \leftrightarrow \mathsf{Black}$  Out ⇔ SUBW. Level

### **Setting the Treble Center Frequency**

3-1 Press **BAND** to select the desired treble center frequency.

10 kHz ightarrow 12.5 kHz ightarrow 15 kHz ightarrow 17.5 kHz ightarrow 10 kHz Emphasizes the displayed treble frequency ranges.

#### **Setting the Treble Level**

#### ${f 3}$ -2 $^{*8}$ Turn the **Rotary encoder** to select the desired treble level (-7~+7).

You can emphasize or weaken the treble level.

- Press and hold **1/ESC** for at least 2 seconds to return to normal mode.
- If no operation is performed for 15 seconds, the unit will return to normal mode automatically.
- The treble level settings will be individually memorized for each source (FM, AM, CD, etc.) until the setting is changed. The Treble frequency settings adjusted for one source are effective for all other sources (FM, AM, CD, etc.).
- Depending on the connected devices, some functions and display indications do not work. However, Treble Level is still adjustable if an audio processor with the Treble function is connected.
- \*6 When the subwoofer mode is set to OFF, its level cannot be adjusted. Refer to "Turning Subwoofer ON/OFF" (page 16).
- $*^{7}$  The function is inoperable when DEFEAT is set to ON.
- $st^8$  The adjustment can also be made by pressing **Rotary encoder** (AUDIO). Refer to "Adjusting Subwoofer Level/Bass Level/Treble Level/Balance (Between Left and Right)/Fader (Between Front and Rear)/Defeat" (page 14).

## Adjusting the High Pass Filter

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

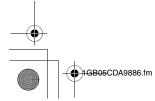
- 1 Press SOUND SETUP to activate the Sound Setting mode.
- Turn the Rotary encoder to select the High Pass Filter (HPF) Adjustment mode, and then press

SUBW. Level\* $^9 \leftrightarrow \mathsf{Bass}^{*10} \leftrightarrow \mathsf{Treble}^{*10} \leftrightarrow \mathsf{HPF}^{*10}$ → Black Out 
→ SUBW. Level

Turn the Rotary encoder to select the High Pass Filter frequency.

OFF  $\leftrightarrow$  80 Hz  $\leftrightarrow$  120 Hz  $\leftrightarrow$  160 Hz

- Press and hold **/ESC** for at least 2 seconds to return to normal mode.
- If no operation is performed for 15 seconds, the unit will return to normal mode automatically
- When an external audio processor is connected, this setting cannot
- \*9 When the subwoofer mode is set to OFF, its level cannot be adjusted. Refer to "Turning Subwoofer ON/OFF" (page 16).
- $*^{10}$  The function is inoperable when DEFEAT is set to ON.











### **Blackout Mode On and Off**

When Blackout mode is turned on, all display indications on this unit will turn off to reduce power consumption. This additional power enhances the sound quality.

- 1 Press SOUND SETUP to activate the Sound Setting mode.
- 2 Turn the **Rotary encoder** to select the Black Out Adjustment mode, and then press Q /ENT.

SUBW. Level\* $^{I1} \leftrightarrow \mathsf{Bass}^{*I2} \leftrightarrow \mathsf{Treble}^{*I2} \leftrightarrow \mathsf{HPF}^{*I2} \leftrightarrow \mathsf{Black}$  Out  $\leftrightarrow$  SUBW. Level

3 Turn the **Rotary encoder** to select the Black Out ON.

OFF (Initial setting)  $\leftrightarrow$  ON

- When Black Out is set to ON, after 5 seconds, all display on the unit will turn off.
- If any button on the unit is pressed during the blackout mode, the function will be displayed for 5 seconds to show the operation before returning to Blackout mode.

To cancel Blackout mode, select OFF in step 3.

\*<sup>11</sup> When the subwoofer mode is set to OFF, its level cannot be adjusted. Refer to "Turning Subwoofer ON/OFF" (page 16). \*<sup>12</sup> The function is inoperable when DEFEAT is set to ON.

## Turning Loudness On/Off

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.

Press and hold **Rotary encoder** (**LOUD**) for at least 2 seconds to activate or deactivate the loudness mode.

"LOUD" indicator lights.

- When an external audio processor is connected, this setting cannot be made.
- The function is inoperable when DEFEAT is set to ON.

### Turning Subwoofer ON/OFF

When the subwoofer is on, you can adjust the subwoofer output level (refer to page 14).

- 1 Press and hold **SOUND SETUP** for at least 2 seconds to activate the Subwoofer selection mode.
- Turn the Rotary encoder to select the Subwoofer mode, and then press Q /ENT.

Subwoofer  $\leftrightarrow$  SUBW. System

3 Turn the **Rotary encoder** to select Subwoofer ON/OFF, and then press Q /ENT.

OFF ↔ ON (Initial setting)

- 4 Press and hold **\_/ESC** for at least 2 seconds to return to normal mode.
- If no operation is performed for 15 seconds, the unit will return to normal mode automatically.

### **Setting the Subwoofer System**

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

- 1 Press and hold **SOUND SETUP** for at least 2 seconds to activate the Subwoofer selection mode.
- 2 Turn the **Rotary encoder** to select the SUBW. System mode, and then press Q /**ENT**.

Subwoofer  $\leftrightarrow$  SUBW. System

3 Turn the Rotary encoder to select Subwoofer System, and then press Q /ENT.

Select either System 1 or System 2 for the desired subwoofer effect.

1 (Initial setting)  $\leftrightarrow$  2

System 1: Subwoofer level changes according the main volume setting.

System 2: Subwoofer level change is different from the main volume setting. For example, even at low volume settings, the subwoofer is still audible.

- 4 Press and hold ⇒/ESC for at least 2 seconds to return to normal mode.
- If no operation is performed for 15 seconds, the unit will return to normal mode automatically.
- This function is inoperable when Subwoofer is set to OFF.

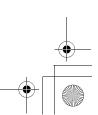






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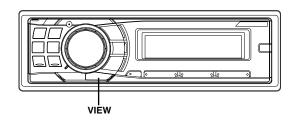








## **Other Functions**



### Displaying the Text

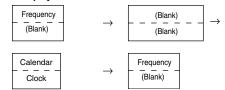
Text information, such as the disc name and the track name, will be displayed if playing a CD text compatible disc. It is also possible to display the folder name, the file name, and the tag, etc., while playing MP3/WMA/AAC files.

#### Press VIEW.

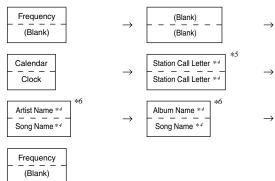
The display will change every time the button is pressed.

• When the Text Scroll is set to Manual, press and hold VIEW for at least 2 seconds, the current text will be scrolled one time (except Radio mode).

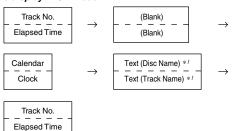
#### The display in Radio mode:



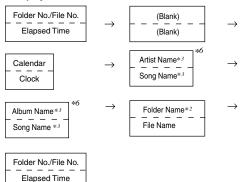
#### The display in HD Radio mode:



#### The display in CD mode:

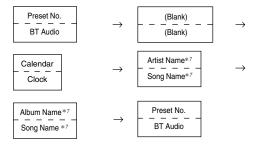


#### The display in MP3/WMA/AAC mode:

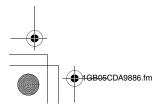


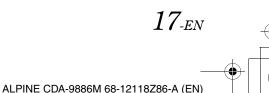
#### The display in Bluetooth Audio mode:

The Following display will be shown only when a telephone or Bluetooth Streaming device with Metadata capabilities is correctly connected with a Bluetooth Interface Module. For details, refer to the Owner's Manual of the Bluetooth Interface Module.



- \* Displayed during playback of a disc with CD Text.
- \*2 The root folder of disc is displayed as blank. The root folder of USB memory is displayed as "ROOT".
- \*3 ID3 tag/WMA tag If an MP3/WMA/AAC file contains ID3 tag/WMA tag information, the ID3 tag/WMA tag information is displayed (e.g., song name, artist name, and album name). All other tag data is ignored.
- \*4 When an HD Radio signal is received, text information such as Radio Station, Artist, etc., is displayed.
- $*^{l} \sim *^{4}$  If there is no text information, nothing will be displayed.
- \*5 RADIO STATION NAME can be switched between "Long" and "Short" in "HD Radio Station Call Setting" (page 21). Displayed in 1 line when "Short" is set, displayed in 2 lines when "Long" is set.
- \*6 When the "Text Scroll" (page 21) is set to "Auto," the display cannot be switched by pressing VIEW. The display contents switch
- \*7 When a Bluetooth Audio signal is received, text information such as artist, album, song is displayed. If there is no text information, "Artist"/"Album"/"Song" will be displayed.











#### About the indication display

When displaying Text, the following indicators are lit according to the mode.

	1	1	1		
Indicator/ Mode	CD Mode	MP3/WMA/ AAC/USB AUDIO Mode	SAT RADIO/HD Radio Mode	iPod Mode/ BT Audio	
	_	Folder Name being displayed	_	_	
4	_	Artist Name being displayed	Artist Name being displayed	Artist Name being displayed	
	_	Album Name being displayed	Album Name being displayed (HD Radio only)	Album Name being displayed	
4	_	File Name being displayed	_	_	
0	Text (Disc Name) being displayed	_	_	_	
	Text (Track Name) being displayed	Song Name being displayed	Song Name being displayed	Song Name being displayed	
IN FO	_	_	Auxiliary Data Field being displayed (XM Radio only)	_	
СН	_	_	Channel NO./ Channel Name being displayed (XM/ SIRIUS only)	_	
CA T.	_	_	Category Name being displayed (XM/ SIRIUS only)	_	
	_	_	ID NO. (XM Radio only)	_	
đ,	_	_	Composer Name being displayed (SIRIUS Radio only)	_	
50	_	_	Station Call Letter being displayed (HD Radio only)	_	
5P5	_	_	SPS being displayed (HD Radio only)	_	

### About "Text"

#### Text:

Text compatible CDs contain text information such as the disc name and track name. Such text information is referred to as "text"

- Some characters may not be displayed correctly with this device, depending on the character type.
- The CD changer must also be CD Text compatible for the Text information to be displayed.
- If there is no TEXT information, the display is blank.
- The text or tag information may not be correctly displayed, depending on the contents.

## **Displaying Time**

#### Press VIEW repeatedly until the time is displayed.

Each press changes the display. For details, see "Displaying the Text" (page 17).

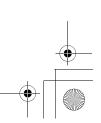
 Selecting any tuner or CD function while in the clock priority mode will interrupt the time display momentarily. The function selected will be displayed for about 5 seconds before the time returns to the display.













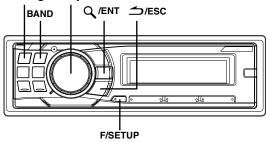




## **SETUP**

You can flexibly customize the unit to suit your own preferences and usage. From the SETUP menu, General Setting, Display Setting, etc., can be modified.

#### SOURCE/d) Rotary encoder



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

- 1 Press and hold **F/SETUP** for at least 2 seconds to activate the SETUP selection mode.
- 2 Turn the **Rotary encoder** to select the desired item, and then press Q /ENT.

Bluetooth\* $^{I} \leftrightarrow$  General  $\leftrightarrow$  Display  $\leftrightarrow$  XM\* $^{2}$ /SIRIUS\* $^{3} \leftrightarrow$  HD Radio\* $^{4} \leftrightarrow$  Bluetooth (e.g. Select General)

- \*I Displayed only when INT Mute is OFF and the mode is set to other than Bluetooth Audio.
- \* Only when XM Radio is connected. For the XM Radio setting, refer to "SAT Radio Receiver (Optional)" (page 22).
- \*3 Only when SIRIUS Radio is connected. For the XM Radio setting, refer to "SAT Radio Receiver (Optional)" (page 22).
- \*4 Only when HD Radio is connected.
- 3 Turn the Rotary encoder to select a setting item, and then press Q /ENT.

(e.g. Select AUX IN)

Bluetooth:

Bluetooth IN

General:

Birthday Set  $\leftrightarrow$  Clock Mode  $\leftrightarrow$  Clock Adjust\* $^5 \leftrightarrow$  Calendar  $\leftrightarrow$  Play Mode  $\leftrightarrow$  Beep  $\leftrightarrow$  INT Mute\* $^6 \leftrightarrow$  AUX+ Setup  $\leftrightarrow$  AUX+ Name\* $^7 \leftrightarrow$  AUX IN GAIN\* $^7 \leftrightarrow$  Digital AUX  $\leftrightarrow$  D.AUX Name\* $^8 \leftrightarrow$  AUX IN  $\leftrightarrow$  AUX Name\* $^9 \leftrightarrow$  Changer Name  $\leftrightarrow$  Power IC  $\leftrightarrow$  Language Set  $\leftrightarrow$  Demo  $\leftrightarrow$  Birthday Set

Display:

 $\begin{array}{l} \text{Dimmer} \leftrightarrow \text{Dimmer Level} \leftrightarrow \text{Scroll Type} \leftrightarrow \text{Text Scroll} \leftrightarrow \\ \text{Font Select} \leftrightarrow \text{BGV Select} \leftrightarrow \text{Opening MSG} \leftrightarrow \text{Dimmer} \end{array}$ 

ΧM

XM ADF

SIRIUS:

Game Alert

HD Radio:

Station Call ↔ Digital Seek ↔ Station Call

- \*5 Refer to "Setting the Time and Calendar" (page 8).
- \*6 Displayed only when Bluetooth IN is OFF.
- \*<sup>7</sup> Displayed only when AUX+ is ON.
- \*8 Displayed only when Digital AUX is ON.
- \*9 Displayed only when AUX IN is ON.

## 4 Turn the **Rotary encoder** to change the setting, and then press Q /ENT.

(e.g. Select AUX IN ON or AUX IN OFF)

- 5 Press and hold F/SETUP for at least 2 seconds to return to normal mode.
- Pressing \(\frac{1}{2}\)/ESC returns to the previous SETUP mode.
- If no operation is performed for 60 seconds, SETUP is canceled.

#### **Bluetooth Setting**

Select Bluetooth from the setup main menu in step2 above. If an optional Bluetooth Box is connected, you can place a hands-free call by a Bluetooth- equipped mobile phone.

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

#### **Setting the Bluetooth IN Connection**

Bluetooth IN ADAPTER / Bluetooth IN OFF (Initial Setting)

Set ADAPTER when the Bluetooth Box is connected.

 If the Bluetooth Box compatible with the Voice Dial function is connected, the Voice Dial function can be used.

#### **General Setting**

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

## Birthday Opening Message Setting (Birthday Set)

By inputting your birthday details, a message can be displayed on that day. Turn the **Rotary encoder** to set "mm" (Month), and then press **Q** /ENT. Turn the **Rotary encoder** again to set "dd" (Date).

#### **Setting the Clock Display (Clock Mode)**

AM (Before noon) 12:00 (12-hour) (Initial setting) / 00:00 (24-hour)

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

#### Setting of Calendar Display Pattern Switching (Calendar) dd/mm/yyyy / yyyy/mm/dd / mm/dd/yyyy (Initial setting)

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

yyyy: shows the year mm: shows the month dd: shows the day ex. dd/mm/yyyy  $\rightarrow$  25/12/2007

## Playing MP3/WMA/AAC Data (Play Mode) CD-DA (Initial setting) / CDDA&MP3/WMA

This unit can play back CDs containing both CD and MP3/WMA/AAC data (created in Enhanced CD (CD Extra) format). However, in some situations, playback of an enhanced CD may be difficult. In this case, you can select playback of a single session only, containing the CD data. When a disc contains both CD and MP3/WMA/AAC data, playback starts from the CD data portion of the disc.

CD-DA: Only the CD data in Session 1 can be played back.

CDDA&MP3/WMA: CD data, MP3/WMA/AAC files in mixed mode, and multi-session discs can be played back.

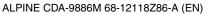
 Perform this setting before inserting a disc. If a disc has already been inserted, remove it first. (If you use an MP3 changer, you have to change discs.)

 $19_{-EN}$ 

















#### 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 / INT Mute OFF (Initial setting)

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

#### **Setting the AUX+ Setup Mode**

#### AUX+ Setup ON / AUX+ Setup OFF (Initial Setting)

An external device (such as a portable music player) can be connected to the iPod Direct connector of this unit. An iPod Direct/RCA Interface cable (optional) is required.

A portable music device and an iPod cannot be connected to the iPod Direct connector at the same time.

AUX+ ON: Set to ON when a portable device is connected. If SOURCE/th is pressed and AUX+ is selected, the

sound of the portable device is input to the unit.

AUX+ OFF: Set to OFF when an iPod is connected.

You can change the AUX+ name display when AUX+ is set to ON. Press Q /ENT when AUX+ is set to ON, and select AUX+ name by turning the Rotary encoder, then press Q /ENT. After that, turn the Rotary encoder to select the desired AUX+ name.

#### Setting the AUX+ Level (AUX IN GAIN)

#### Low (Initial setting ) / High

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

Low: Decreases the external input audio level.

High: Increases the external input audio level.

#### **Setting the External Digital Input**

#### Digital AUX ON / Digital AUX OFF (Initial setting)

When an ALPINE Ai-NET compatible digital audio processor (PXA-H701) and a DVD player (DVE-5207) not compatible with Ai-NET are connected, set Digital AUX to ON to enjoy 5.1-channel surround sound.

You can change the Digital AUX name display when Digital AUX is set to ON. Press Q. /ENT when Digital AUX is set to ON, and select Digital AUX name by turning the Rotary encoder, then press Q. /ENT. After that, turn the Rotary encoder to select the desired Digital AUX name.

- Press SOURCE/も, and select the D.Aux mode, and adjust the volume, etc.
- After input selection is completed, turn the ignition off and back on again. Setting of the optical digital input switch is completed.
- Depending on the connected audio processor, DVD player sound may continue to be output, even though the source is changed to another one. If this occurs, set the DVD player's power to OFF.

## Setting the AUX Mode (V-Link)

#### AUX IN ON / AUX IN OFF (Initial setting)

You can input TV/video sound by connecting an optional Ai-NET/RCA Interface cable (KCA-121B) or Versatile Link Terminal (KCA-410C) to this component.

You can change the AUX Name display when AUX IN is set to ON. Press Q /ENT when AUX IN is set to ON, and select AUX Name by turning the Rotary encoder, and then press Q /ENT.

After that, turn the **Rotary encoder** to select the desired AUX name. 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/O to select AUX mode and then press BAND to select your desired device.

#### **Changer Name Setting**

#### Changer (Initial Setting) / USB / Portable

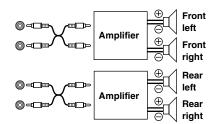
This setting is used when the head unit is connected to the USB Adapter for MP3 (KCA-620M). You can set the name to be displayed on the unit depending on the device to which the USB Adapter for MP3 (KCA-620M) is connected.

#### **Connecting to an External Amplifier**

#### Power IC ON (Initial setting) / Power IC OFF

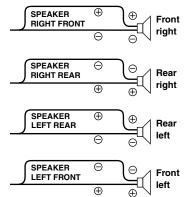
When an external amplifier is connected, sound quality can be improved by stopping the power supply of the built-in amplifier.

Power IC OFF: Use this mode when the line output of this unit is used to drive an external amplifier. In this setting, the head unit's internal amplifier is turned OFF and can not drive speakers.



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

#### Speakers

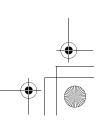


 No sound is produced by the system when the power output is set to OFF



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#### **Setting the Language Font**

#### Language 1 (Initial Setting) / Language 2

Two types of font can be selected.

Language 1: Normal Font Language 2: European Font

#### Demonstration

#### Demo ON / Demo OFF (Initial setting)

This unit has a demonstration feature for the display.

• To quit Demo mode, set to Demo OFF.

### **Display Setting**

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

#### **Dimmer Control**

#### Dimmer Auto (Initial setting) / Dimmer Manual

Set the Dimmer control to Auto 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.

#### **Dimmer Level Setting**

#### Lev1 (Initial setting) / Lev2 / Lev3

In the Dimmer Level setting, three levels are available, the highest level (Lev3) being the dimmest when the vehicle headlights are on.

#### Scroll Type Setting

#### TYPE1 / TYPE2 (Initial setting)

Choose from two scrolling methods. Select the type you prefer.

> TYPF1 · The characters scroll from right to left, one

> > character at a time, until the entire title has

TYPE2: Words are built up from left to right, a single character at a time. When the display is full, it is

cleared and the subsequent words are displayed the same way until all words of the title have been shown.

#### Scroll Setting (Text Scroll)

#### Text Scroll Auto / Text Scroll Manual (Initial setting)

This CD player can scroll the disc and track names recorded on CD-TEXT discs, as well as text information of MP3/WMA/AAC files, folder names, tags, HD Radio and SAT Radio.

Text Scroll Auto: CD text information, folder and file names,

HD and SAT Radio text are scrolled continuously. In addition, all tag information is automatically rotated in the display continuously, without pressing the VIEW

button.

Text Scroll Manual: The above information is scrolled only when

a disc is loaded, a channel or track is

changed, etc.

· In parts of the display, scrolling may not occur, or scroll content may

#### **Switching the Character Font**

#### Font Select TYPE 1 (Initial setting) / Font Select TYPE 2

Two types of font can be selected. You can select the font type you like.

#### Switching the Animation Display Type (BGV Select)

BGV Select OFF (Initial setting) / BGV Select TYPE 1 / TYPE 2 / TYPE 3 / TYPE 4

You can select your favorite animation display for background from 4

#### **Opening Message ON/OFF Setting**

#### Opening MSG ON / Opening MSG OFF (Initial setting)

This unit includes a special message feature with various patterns, which when enabled displays opening messages for certain occasions. For example, when you turn this unit on December 25th (according to the unit's date setting), a Christmas greeting is displayed if the Opening Message is set to ON.

#### **Tuner Setting (Only when HD Radio is connected)**

HD Radio is selected on the setup main menu in step 2.

#### **HD Radio Station Call Setting**

#### Station Call Short (Initial setting) / Station Call Long

In the HD Radio mode, the number of display characters for the HD Radio station name can be selected.

Short: 7 characters (FM)

4 characters (AM)

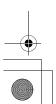
Long: 56 characters

#### **Digital Seek ON/OFF Setting**

#### Digital Seek ON / Digital Seek OFF (Initial Setting)

ON: SEEK UP/DOWN is used only for Digital Radio Station. OFF: SEEK UP/DOWN is used for all Radio Stations.











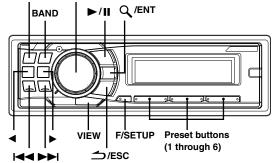






## **SAT Radio Receiver** (Optional)

SOURCE/ Rotary encoder



SAT Receiver:

XM or SIRIUS Receiver

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

SIRIUS Receiver: Verify the features of the connected SIRIUS Receiver Box. Not all SIRIUS Receivers have identical functions and some may not be performed on this unit. For details about functions, refer to the SIRIUS Receiver's Owner's Manual.

## **Receiving Channels with the SAT Radio** Receiver (Optional)

#### About SAT Radio

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

To receive SAT Radio, the separately sold XM Direct  $^{\text{\tiny TM}}$  or SIRIUS Satellite Radio Tuner and an appropriate Ai-NET Interface Adapter will be required. For details, consult you nearest Alpine dealer.

- \* XM and its corresponding logos are trademarks of XM Satellite
- \* SIRIUS and its corresponding logos are trademarks of SIRIUS Satellite Radio Inc.
- · The SAT Receiver controls on this unit are operative only when a SAT
- Press SOURCE/ to activate the SAT Radio mode.
- Press BAND to select one of the three SAT Radio Preset Bands.

Each press changes the band:

XM mode:

 $XM 1 \rightarrow XM 2 \rightarrow XM 3 \rightarrow XM 1$ 

SIRIUS 1  $\rightarrow$  SIRIUS 2  $\rightarrow$  SIRIUS 3  $\rightarrow$  SIRIUS 1

- Press ✓ or ▶ to select desired category.
- Press I◀◀ or ▶▶I to select the desired channel. Holding down I◀◀ or ▶▶ will change channels continuously
- When using the optional remote control (RUE-4190, etc.), an SAT Radio Channel can be directly called up with the numeric keypad of
  - 1 While in XM or SIRIUS Radio mode, enter the Channel number you want to call up with the numeric keypad on
  - 2 Press Enter on the remote control within 5 seconds to receive the Channel.

### **Checking the SAT Radio ID Number**

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

This number is an 8 character (for XM Radio) or 12 character (for SIRIUS Radio) alphanumeric number. It is printed on a label found on the SAT Receiver.

It can also be displayed on the screen of this unit in the following way.

While receiving a SAT Radio band, press I◀◀ or ▶►I to select channel "0" for XM.

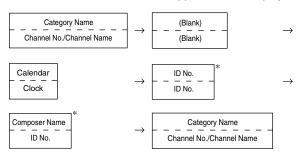
The unit alternately displays channel No. "0" for 2 seconds. then the ID number is displayed.

Demonstration (page 21) becomes nonfunctional.

To cancel the ID number display, select the channel other than "0."

#### SIRIUS:

- 1 While receiving a SAT Radio band, press I◀◀ or ▶►I to select channel "255" for SIRIUS.
- Press VIEW until the ID No. appears in the display.

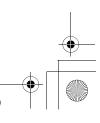


- To cancel the ID number display, select the channel to other than "255".
- You cannot use "O", "S", "I", or "F" for the ID Number (XM radio Receiver only).
- You can check the ID number printed on a label on your third party, SAT Radio Receiver package.
- \* When the "Text Scroll" (page 21) is set to "Auto," the display cannot be switched by pressing VIEW. The display contents switch















## Storing Channel Presets

- 1 Press BAND to select the desired band you want to store.
- After tuning in the desired channel, press and hold, for at least 2 seconds, any one of the preset buttons (1 through 6) into which you wish to store the channel.

The selected station is stored.

- 3 Repeat the procedure to store up to 5 other channels onto the same band.
- To use this procedure for other bands, simply select the band desired and repeat the procedure.
- A total of 18 channels can be stored in the preset memory for either XM or SIRIUS. 6 Channels are stored in each band (XM1, XM2 and XM3 for XM; SIRIUS1, SIRIUS2 and SIRIUS3 for SIRIUS).
- If you store a channel in a preset memory which already has a station, the current channel will be cleared and replaced with the new one.

## **Receiving Stored Channels**

- 1 Press **BAND** to select the desired band.
- 2 Press the channel preset button that has your desired satellite channel in memory.

## Storing the desired Sports Team (SIRIUS only)

Store a favorite team from one of the available leagues SIRIUS covers. Once stored, game times and scores for that team are announced using the interruption ALERT display while receiving other programming. To receive these announcements, refer to page 23.

This function becomes effective after performing the following two operations.

#### Storing while receiving a game broadcast

- 1 Select the channel broadcasting your favorite team's game.
- Press F/SETUP to activate the Memory/Delete selection mode.
- 3 Turn the Rotary encoder to select the Memory mode, and then press Q /ENT.

 $\mathsf{Memory} \leftrightarrow \mathsf{Delete} \leftrightarrow \mathsf{Memory}$ 

- Turn the Rotary encoder to select the desired team for the game being broadcast, and then press Q /ENT.
- Turn the Rotary encoder to select interruption type, and then press Q /ENT.

Game Update (Initial setting)  $\leftrightarrow$  Game Initial

Game Update: The ALERT display interrupts by game

progress (change of score, game result, etc.).

The ALERT display interrupts when the game

begins.

## 6 Press and hold \(\textit{\$\rightarrow\$/ESC}\) for at least 2 seconds to return to normal mode.

- If you try to store when the memory area is full, "Memory Full" is displayed. If you want to replace a team that's already been saved in step 4, turn the Rotary encoder to select "Replace YES", and then press Q /ENT.
- If no operation is performed for 10 seconds, the setting mode is canceled.

#### **Game Alert Setup**

- Press and hold F/SETUP for at least 2 seconds to enter the SETUP mode.
- Turn the Rotary encoder to select the SIRIUS item, and then press Q /ENT.

 $\begin{array}{l} \mathsf{Bluetooth}^{*I} \leftrightarrow \mathsf{General} \leftrightarrow \mathsf{Display} \leftrightarrow \mathsf{XM}^{*2} / \mathsf{SIRIUS}^{*3} \leftrightarrow \\ \mathsf{HD} \ \mathsf{Radio}^{*A} \leftrightarrow \mathsf{Bluetooth} \end{array}$ 

- \* Displayed only when INT Mute is OFF and the mode is set to other than Bluetooth Audio.
- \*2 Only when XM Radio is connected.
- \*3 Only when SIRIUS Radio is connected.
- \*4 Only when HD Radio is connected.
- $\mathfrak{Z}$  Press  $\mathfrak{Q}$  /**ENT** to activate the Game Alert mode.
- 4 Turn the **Rotary encoder** to select the desired league, and then press Q /ENT.
- 5 Turn the **Rotary encoder** to select a team you want to store, and then press Q /ENT.
- 6 Turn the **Rotary encoder** to select an interruption type, and then press Q /**ENT**.

UPDATE (Initial setting)  $\leftrightarrow$  INITIAL

UPDATE: The ALERT display interrupts by game progress

(change of score, game result, etc.).

INITIAL: The ALERT display interrupts when the game

begins.

- Press and hold F/SETUP for at least 2 seconds to cancel the SETUP mode.
- Pressing **\(\sigma\)/ESC** returns to the previous SETUP mode.
- If no operation is performed for 60 seconds, SETUP is canceled.
- In this mode, a total of 4 teams can be stored in the preset memory (one team per league).

## Storing the desired Song / Artist (SIRIUS only)

A stored song title or artist name is announced whenever a matching title or artist is found on another channel. The interruption ALERT is displayed while listening to a program on another channel. For receiving interruption information, refer to "Recalling the stored information (SIRIUS only)" (page 24).

Press F/SETUP to activate the Memory/Delete selection mode when a Song or the song of an Artist you want to store is being broadcast.





Game Initial:







Turn the Rotary encoder to select the Memory mode, and then press Q /ENT.

Memory ↔ Delete

- 3 Turn the **Rotary encoder** to select the Song Memory or Artist Memory, and then press Q /ENT.
- If you try to store when the memory area is full, "Memory Full" is displayed. If you want to replace a Song title or Artist name that's already been saved in step 3, turn the Rotary encoder to select "Replace YES", and then press \( \Q \text{/ENT.} \)
- If no operation is performed for 10 seconds, the setting mode is canceled.

## Recalling the stored information (SIRIUS only)

Whenever the stored sports team, song(s) or artist(s) are playing, an interruption ALERT appears in the display of the unit.

#### If more than 2 alert are found

- 1 Turn the Rotary encoder to select the desired information.
- 2 Press Q /ENT.
- If no operation is performed for 10 seconds, the unit returns to normal mode.
- Only a single sports team, song or artist can be displayed as an interruption ALERT. For example, both song and artist cannot be displayed as an ALERT at the same time.

## Canceling the stored Alert Memory (SIRIUS only)

- 1 During usual reception, press F/SETUP to activate the Memory/Delete selection mode.
- 2 Turn the Rotary encoder to select the Delete mode, and then press  $\mathbb{Q}$  /ENT.

 $\mathsf{Memory} \leftrightarrow \mathsf{Delete} \leftrightarrow \mathsf{Memory}$ 

The Memory List appears after DELETE MODE has been displayed

- 3 Turn the **Rotary encoder** to select a list you want to delete, and then press Q /ENT.
- 4 Turn the **Rotary encoder** to select Delete YES, and then press Q /ENT.

 $\mathsf{Delete}\:\mathsf{NO} \: \leftrightarrow \: \mathsf{Delete}\:\mathsf{YES}$ 

Select "Delete NO" the unit will return to the Memory List display.

- 5 Press and hold \(\textit{\$\textit{\$\sigma}/\text{ESC}\$ for at least 2 seconds to return to normal mode.}\)
- If no operation is performed for 10 seconds, the setting mode is canceled.

### **Search Function**

You can search for programs by Category, Channel, Artist or Song.

- 1 Press Q /ENT in the XM or SIRIUS mode.
- Turn the Rotary encoder to select Search mode, and then press Q /ENT.

Category 

Channel 

Artist\* 

Song\* 

Category

\* SIRIUS Only.

### **Category Search mode**

- 3 Turn the **Rotary encoder** to select the desired Category, and then press Q /**ENT**.
- 4 Turn the **Rotary encoder** to select the desired Channel Name, and then press Q /**ENT**.
- While in Category Search mode, press 

   /ESC to return to the selecting search mode.
- If ALERT interruption occurs in the search mode, the search mode is canceled.

#### Channel/Artist/Song Search mode

- 3 Turn the Rotary encoder to select the desired Channel/Artist/Song Name, and then press Q /ENT.
- While in Channel Search mode, press 

  or 

  to select another Category.
- While in Channel/Artist/Song Search mode, press 

  /ESC to return
  to the selecting search mode.
- The Search mode is canceled if you press and hold \(\to\)/ESC for at least 2 seconds, or no operation is performed for 10 seconds in Channel/Artist/Song Search mode.
- If ALERT interruption occurs in the search mode, the search mode is canceled

### **Quick Search Function**

You can search for all channels in numerical order.

- 1 Press and hold Q /ENT for at least 2 seconds in XM or SIRIUS mode to activate Quick Search mode.
- 2 Turn the **Rotary encoder** to select the desired Channel within 10 seconds.

The selected Channel is received.

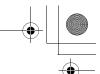














## **Receiving Weather or Traffic Information** from SAT Radio

- 1 Select the SAT Radio Channel for your local traffic/ weather information.
- Press and hold ▶/II for at least 2 seconds in the SAT mode.

The received weather or traffic channel is stored.

- Press and hold BAND for at least 2 seconds. The stored Weather or Traffic channel will be recalled.
- Press and hold BAND for at least 2 seconds. Returns to normal mode
- · Stored channels can also be recalled by pressing and holding BAND for at least 2 seconds.
- Channel other than Weather or Traffic can also be stored and recalled.

## Instant Replay Function (SIRIUS only)

In SIRIUS mode, the current channel is saved using the Instant Replay memory function. Use this function to pause the channel content at any time. When playback is continued, it will begin at the position it was paused. This function can be used to store up to 44 minutes of audio.

During SIRIUS reception, press ▶/|| to select the Instant Replay mode.

"Instant Replay" is displayed, and the received station is stored.

Press ▶/|| again to activate the play mode.

The stored contents are played back.

During REPLAY playback:

Fast rewind: Press and hold ◄◄

Fast forward: Press and hold ▶▶

Returning to the beginning of the current song: Press ◄◄ Advancing to the beginning of the next song: Press ▶▶.

- If you continue to press Fast forward until the end, the INSTANT REPLAY mode is canceled, and the unit will change to usual
- Press **1/ESC** for at least 2 seconds to cancel the **INSTANT REPLAY mode.**

The unit returns to usual SIRIUS broadcasting mode.

Time display example during REPLAY playback (Instant Replay Mode only)

#### **Play Position Indicator**



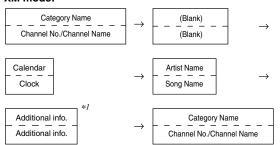
### **Changing the Display**

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

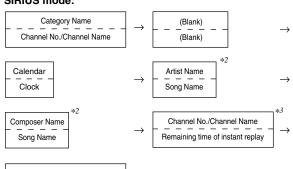
#### In XM or SIRIUS mode, press VIEW.

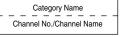
Each time you press this button, the display changes as shown below.

#### XM mode:

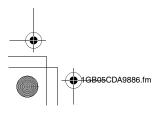


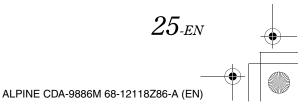
#### SIRIUS mode:





- \* When ADF is turned OFF, this information is not displayed (see "Setting the Auxiliary Data Field Display (XM only)" on page 26). Displayed in 1 line when text amount is small.
- \*2 When the "Text Scroll" (page 21) is set to "Auto," the display cannot be switched by pressing VIEW. The display contents switch alternately.
- \*3 Displayed only during instant replay.
- When the "Text Scroll" (page 21) is set to "Auto," the display scrolls continuously. When the "Text Scroll" is set to "Manual," the display scrolls only once after any function is performed (PRESET, BAND, SEARCH, etc.). "Channel No.", "Calendar" and "Clock" displays
- Depending on the model, the display may differ from the one shown











## Setting the Auxiliary Data Field Display (XM only)

The XM Auxiliary Data Field (ADF) display can be switched on or off. There is no ADF function for the SIRIUS receiver.

- 1 Press and hold **F/SETUP** for at least 2 seconds to activate the SETUP selection mode.
- Turn the Rotary encoder to select the XM mode, and then press Q /ENT.

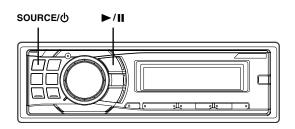
 $\begin{array}{l} {\rm Bluetooth}*^I \leftrightarrow {\rm General} \leftrightarrow {\rm Display} \leftrightarrow {\rm XM}*^2/{\rm SIRIUS}*^3 \leftrightarrow \\ {\rm HD} \ {\rm Radio}*^4 \leftrightarrow {\rm Bluetooth} \end{array}$ 

- \* Displayed only when INT Mute is OFF and the mode is set to other than Bluetooth Audio.
- \*2 Only when XM Radio is connected.
- \*3 Only when SIRIUS Radio is connected.
- \*4 Only when HD Radio is connected.
- 3 Press Q /ENT to activate the XM ADF mode.
- 4 Turn the **Rotary encoder** to select XM ADF ON/ OFF, and then press Q /ENT.

When setting to ON, Auxiliary Data Field is displayed by pressing VIEW (refer to the "Changing the Display" section on page 25.).

- Press and hold F/SETUP for at least 2 seconds to return to normal mode.
- Pressing **\(\sigma\)/ESC** returns to the previous SETUP mode.
- If no operation is performed for 60 seconds, SETUP is canceled.

## **USB** memory (Optional)



## **Controlling USB memory (Optional)**

A USB memory device may be connected to this unit. With a USB memory device connected to this unit, the audio files will be playable from this unit.

 The controls on this unit for USB memory operation are operative only when a USB memory is connected.

## Playing MP3/WMA/AAC Files with the USB memory (Optional)

If you connect a USB memory device containing MP3/WMA/AAC, these files are playable on this unit.

1 Press **SOURCE**/ $\oplus$  to switch to the USB mode.

TUNER  $\to$  XM/SIRIUS\* $^I$   $\to$  DISC  $\to$  USB  $\to$  iPod\* $^2$ /AUX+\* $^3$   $\to$  Bluetooth Audio\* $^4$   $\to$  CHANGER\* $^5$   $\to$  TUNER

- \*1 Only when XM Radio or SIRIUS Radio is connected.
- \*2 Displayed only when the iPod is connected and AUX+ Setup is set to OFF, refer to "Setting the AUX+ Setup Mode" (page 20).
- \*3 Displayed only when the AUX+ Setup is set to ON, refer to "Setting the AUX+ Setup Mode" (page 20).
- \* Displayed only when Bluetooth IN is set to ADAPTER, refer to "Bluetooth Setting" (page 19).
- \*5 Only when the CD changer is connected.
- 2 To pause playback, press ▶/Ⅱ.

Pressing ▶/II again will resume the playback.

- The root folder is displayed as "ROOT" in the Folder Name Search mode.
- This unit plays back files in the USB memory with the same controls and modes as playback of CDs containing MP3/WMA/AAC. For details, refer to "CD/MP3/WMA/AAC" on pages 10 to 13.
- Before disconnecting USB memory, be sure to change to another source or set to pause.
- The playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played back.

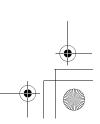




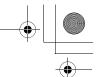


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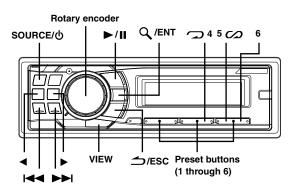












An iPod<sup>®</sup> can be connected to this unit by using the proprietary ALPINE FULL SPEED<sup>TM</sup> Connection Cable (KCE-422i) (supplied). When this unit is connected by using the cable, the controls on the iPod are not functional.

- Set AUX+ Setup to OFF when an iPod is connected (refer to "Setting the AUX+ Setup Mode" on page 20).
- If the Bluetooth Box and an iPod are connected at the same time, be sure to disconnect the iPod from the Bluetooth Box while turning ACC to OFF.

#### iPods usable with this unit

- The unit can be used with the fourth generation and above iPod, iPod photo, iPod mini or iPod nano. iPod Shuffle cannot be used. however.
- This unit does not support iPod's video playback function.
- Touch wheel or scroll wheel type iPods without the dock connector cannot be connected to the unit.
- The unit can be used with the following iPod.

Fourth generation iPod Fifth generation iPod

iPod photo

iPod mini

First generation iPod nano

Second generation iPod nano

 If the unit is used with iPod software versions of iTunes earlier than 7.1.0.59, correct function and performance are not guaranteed.

## **Playback**

1 Press **SOURCE**/ $\oplus$  to switch to the iPod mode.

TUNER  $\to$  XM/SIRIUS\* $^I$   $\to$  DISC  $\to$  USB  $\to$  iPod\* $^2$ /AUX+\* $^3$   $\to$  Bluetooth Audio\* $^4$   $\to$  CHANGER\* $^5$   $\to$  TUNER

\*1 Only when XM Radio or SIRIUS Radio is connected.

\* Displayed only when the iPod is connected and AUX+ Setup is set to OFF, refer to "Setting the AUX+ Setup Mode" (page 20).

\*3 Displayed only when the AUX+ Setup is set to ON, refer to "Setting the AUX+ Setup Mode" (page 20).

\*4 Displayed only when Bluetooth IN is set to ADAPTER, refer to "Bluetooth Setting" (page 19).

\*5 Only when the CD changer is connected.

Press I◄◄ or ▶►I to select the desired song.

Return to the beginning of the current song:
Press ◄◄.

Fast backward through the current song:

Press and hold I

Advance to the beginning of the next song:

Press ►►I.

Fast forward through the current song:

Press and hold

3 To pause playback, press ►/II.

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

- A song playing on the iPod while it is connected to this unit will continue to play from where it was paused after disconnection.
- If you listen to an episode from a selected podcast or audiobook, the episode can be changed by pressing 

  or

  or

  or

  or

  .

### Searching for a desired Song

An iPod can contain hundreds of songs. By using file tag information and keeping these songs organized in playlists, this unit's search functions will ease song searches.

Each music category has its own individual hierarchy. Use the Playlist/ Artist/Album/Song/Podcast/Genre/Composer/Audiobook search mode to narrow searches based on the table below.

Hierarchy 1	Hierarchy 2	Hierarchy 3	Hierarchy 4	
Playlist	Playlist Song —		_	
Artist*	Album*	Song	_	
Album*	Song	_	_	
Song	_	_	_	
Podcast	Podcast Episode —		_	
Genre*	Genre* Artist* Album*		Song	
Composer*	Composer* Album* Sc		_	
Audiobook	_	_	_	

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 Q /ENT to activate the search selection mode.
- Turn the Rotary encoder to select the Artist search mode, and then press Q /ENT.

 $\begin{array}{l} \mathsf{Playlist} \leftrightarrow \mathsf{Artist} \leftrightarrow \mathsf{Album} \leftrightarrow \mathsf{Song} \leftrightarrow \mathsf{Podcast} \leftrightarrow \mathsf{Genre} \\ \leftrightarrow \mathsf{Composer} \leftrightarrow \mathsf{Audiobook} \leftrightarrow \mathsf{Playlist} \end{array}$ 

- 5 Turn the Rotary encoder to select the desired Artist, and then press Q /ENT.
- 4 Turn the **Rotary encoder** to select an album, and then press Q /ENT.
- 5 Turn the Rotary encoder to select a song and press Q /ENT.

The selected song is played back.

- After pressing and holding \(\times\) /ENT for at least 2 seconds while in
  each hierarchy (except Song and Audiobook hierarchy), all songs of
  the selected hierarchy are played back.
- After selecting [ALL] in the search mode with "\*", press and hold
  Q /ENT for at least 2 seconds to play back all songs in the iPod or
  selected search mode.
- While in the search mode, if you press and hold \(\simeg)/ESC\) for at least 2 seconds, or no operation is performed for 10 seconds, the search mode is canceled.















•

- In the search mode, pressing 

  /ESC will return to the previous mode.
- When search is made during M.I.X. play, the M.I.X. play mode will be canceled.
- "NO SONG" will be displayed if there is no song in the selected playlist in the playlist search mode.
- "No Podcast" will be displayed if there is no podcast data in the iPod in the PODCAST search mode.
- "No Audiobook" will be displayed if there is no audiobook data in the iPod in AUDIOBOOK search mode.
- If "iPod name" stored in the iPod is selected in the desired playlist search mode and Q /ENT is pressed, you can search for all songs in the iPod. Also, if you press and hold Q /ENT for at least 2 seconds, all songs in the iPod are played back.
- · Depending on the iPod, podcast search is not supported.
- If any one of the preset buttons (1 through 6) is pressed in the search mode, a search can be made quickly by skipping to the specified location. For details, refer to "Direct Search Function" on page 28.

### **Quick Search**

You can search a song from all songs in the iPod without selecting an album, artist, etc.

- 1 Press and hold Q /ENT for at least 2 seconds to activate the Quick Search mode.
- Turn the Rotary encoder to select a desired song. The selected song is played back immediately.
- While in the search mode, if you press and hold \(\to\)/ESC for at least 2 seconds, or no operation is performed for 10 seconds, the search mode is canceled.
- If many songs are in iPod, it takes time to search for songs.
- If any one of the preset buttons (1 through 6) is pressed in the search mode, a search can be made quickly by skipping to the specified location. For details, refer to "Direct Search Function" on page 28.
- This function is inactive during repeat (RPT) playback.

### **Direct Search Function**

The unit's direct search function can be used to search for an album, song, etc., more efficiently. In Playlist/Artist/Album/Song/Podcast/Genre/Composer/Audiobook mode, you can quickly target any song.

## In the search mode, press any one of the **preset buttons (1 through 6)** to quickly skip over a designated percent of your song content.

Song search example:

If there are 100 songs in your iPod, they are divided into 6 groups using percentages (shown below). These groups are assigned to preset buttons 1 through 6.

#### Example 1:

Suppose the song you are searching for is located at around the middle (50%) of your library: press button 4 to jump to the 50th song and turn the Rotary encoder to find the desired song.

#### Example 2:

Suppose the song you are searching for is located near the end (83%) of your library: press button 6 to jump to the 83rd song and turn the Rotary encoder to find the desired song.

	All 100 songs (100%)					
	0%	17%	33%	50%	67%	83%
Preset buttons	1	2	3	4	5	6
Songs	First	17th	33rd	50th	67th	83rd
	song	song	song	song	song	song

## Select Playlist/Artist/Album/Genre/ Composer

Playlist/Artist/Album/Genre/Composer can be easily changed. For example, if you listen to a song from a selected album, the album can be changed.

## Press ◀ or ▶ select the desired Playlist/Artist/Album/ Genre/Composer.

- If the song search mode was used to select a song, this function is inactive.
- If an album is selected during an artist search, other albums by that artist are searchable.
- This function is inactive during shuffle (M.I.X.) playback.

## Random Play Shuffle (M.I.X.)

The Shuffle function of the iPod is displayed as M.I.X. on this unit.

#### **Shuffle Albums:**

The songs on each album are played back in proper order. Upon completion of all the songs on the album, the next album is selected randomly. This continues until all albums have been played.

#### **Shuffle Songs:**

Song shuffle randomly plays back songs within a selected category (playlist, album, etc.). The songs within the category are played just once until all songs have been played.

#### 1 Press **5** 🐼.

The songs are played back in random sequence.

M.I.X.  $\Box$   $\rightarrow$  M.I.X.  $\rightarrow$  (off)  $\rightarrow$  M.I.X.  $\Box$  (Shuffle Albums) (Shuffle Songs)

## 2 To cancel M.I.X. play, select (off) with the above procedure.

 If a song is selected in the album search mode before selecting M.I.X. play, the songs will not play back randomly even when Shuffle Albums is selected.

#### Shuffle ALL:

Shuffle ALL plays all songs in the iPod randomly. Any one song does not play back again until all songs have been played back.

#### 1 Press 6.

The songs are played back in random sequence.

## 2 To cancel M.I.X. play, select (off) with the above procedure.

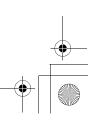
 If Shuffle ALL is selected, the selected songs being played back in the search mode are canceled.





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### Repeat Play

Only Repeat One is available for the iPod.

#### Repeat One:

A single song is repeatedly played back.

#### Press 7 4.

The song is played back repeatedly.  $\rightarrow$  (off)  $\rightarrow$  RPT

(Repeat One)

#### To cancel repeat play, select (off) with the above procedure.

During repeat playback, no other songs are selectable by pressing **|◀|** *or* **▶|**.

### Displaying the Text

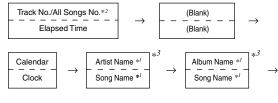
You can display the tag information of a song in the iPod.

#### Press VIEW.

Each press changes the display.

• When the Text Scroll is set to Manual, press and hold VIEW for at least 2 seconds, the current text will be scrolled one time.

#### iPod mode:





\*1 TAG information

If the "Text Scroll" (page 21) is set to "Auto," the tag information will scroll automatically.

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

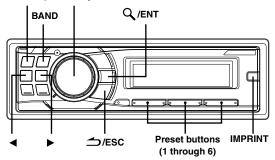
- \*2 The numbers of all songs displayed vary depending on the songs selected by the search.
- \*3 When the "Text Scroll" (page 21) is set to "Auto," the display cannot be switched by pressing VIEW. The display contents switch
- Only alphanumeric characters (ASCII) can be displayed.
- If the artist, album or song name, created in iTunes, has too many characters, songs may not be played back when connected to the adapter. Therefore, a maximum of 250 characters is recommended. The maximum number of characters for the head unit is 128
- Some characters may not be correctly displayed.
- The display is blank when text information is not compatible with this

## **IMPRINT Operation** (Optional)

Alpine introduces IMPRINT - the world's first technology that thoroughly eliminates in-vehicle acoustic problems that normally degrade sound quality, which enables us to experience music the way the artist intended, refer to "About IMPRINT" (page 36). When the IMPRINT audio processor (PXA-H100) (sold separately) is connected to this unit, MultEQ and the following sound adjustment can

#### SOURCE/ტ Rotary encoder

be performed.



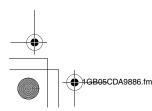
## **Changing MultEQ mode**

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

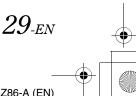
#### Press and hold IMPRINT for at least 2 seconds to change MultEQ mode.

MultEQ Off (Manual Mode) → Curve 1 (MultEQ-1) → Curve 2 (MultEQ-2) → MultEQ Off (Manual Mode)

- · The Curve mode can be selected only when curve 1 and curve 2 are
- When using MultEQ, MX, X-OVER, T.Correction, Factory's EQ, SUBW. Phase, SUBW. Channel, TW Setup, EQ Mode, Filter Type, Parametric EQ and Graphic EQ are set automatically. They are no longer user adjustable.
- When an external audio processor is connected, the MultEQ function cannot be used.













## Adjusting Subwoofer Level/Bass Level/ Treble Level/Fader (Between Front and Rear)/Balance (Between Left and Right)/ Black Out in MultEQ mode

You can change these settings to create your own preference in MultEQ (Curve 1 or Curve 2) mode.

- 1 Press IMPRINT to activate the MultEQ adjustment
- Turn the Rotary encoder to select the desired item, and then press Q /ENT.

SUBW. Level\* $^I \leftrightarrow$  Bass Level  $\leftrightarrow$  Treble Level  $\leftrightarrow$  Fader\* $^2 \leftrightarrow$  Balance  $\leftrightarrow$  Black Out\* $^3 \leftrightarrow$  SUBW. Level

3 Turn the Rotary encoder to change the setting as below, and then press Q /ENT.

Subwoofer level: 0 ~ +15 Bass level: -7~+7 Treble level: -7~+7 Fader: R15 ~ F15 Balance: L15 ~ R15 Black Out: ON/OFF

- If no operation is performed for 60 seconds after selecting the SUBW. Level, Bass Level, Treble Level, Fader, Balance or Black Out mode, the unit automatically returns to normal mode.
- \*I When the subwoofer mode is set to OFF, its level cannot be adjusted, and the subwoofer ON/OFF cannot be adjusted in MultEQ (Curve 1 or Curve 2) mode.
- \*2 If you set the 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) switch of the IMPRINT audio processor (PXA-H100) to 2.2ch (3WAY), you cannot adjust the FADER mode. For details, refer to the Owner's Manual of PXA-H100.
- \*3 When Blackout mode is turned on, all display indications on this unit will turn off to reduce power consumption. This additional power enhances the sound quality.
  - If any button on the unit is pressed during the blackout mode, the function will be displayed for 5 seconds to show the operation before returning to Blackout mode.
- Depending on the connected devices, some functions and display indications do not work.

## **Adjusting Sound Setting in Manual Mode**

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

Use steps 1 to 4 to select one of the Sound menu modes to modify. See the applicable section below for details about the selected item.

Press **IMPRINT** to activate the Sound menu selection mode.

Turn the Rotary encoder to select the desired item, and then press Q /ENT.

Subwoofer  $\leftrightarrow$  SUBW. System\* $^l$   $\leftrightarrow$  SUBW. Phase\* $^l$   $\leftrightarrow$  SUBW. Channel\* $^l$   $\leftrightarrow$  Factory's EQ  $\leftrightarrow$  TW Setup\* $^l$   $\leftrightarrow$  Filter Type  $\leftrightarrow$  Media Xpander  $\leftrightarrow$  MX Level\* $^l$   $\leftrightarrow$  EQ Mode  $\leftrightarrow$  TCR Parameter  $\leftrightarrow$  Sound Field\* $^l$   $\leftrightarrow$  Black Out  $\leftrightarrow$  Subwoofer (e.g. Select Subwoofer)

- \*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 2.2ch (3WAY) mode is set. For details, refer to the Owner's Manual of PXA-H100.
- \*\* This function is inoperable when Media Xpander is set to OFF.

  \*\* In step 2, three sound adjustment items (Parametric EQ/Graphic EQ,
  T.Correction, X-Over) can be selected in Sound Field Adjustment
  mode, turn the Rotary encoder to select the desired item, and then
  press \( \infty \) /ENT to continue to step 3.
- Turn the **Rotary encoder** to change the setting, and then press Q /ENT.

(e.g. Select Subwoofer ON or Subwoofer OFF)

- 4 Press and hold **\_\_/ESC** for at least 2 seconds to return to normal mode.
- 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 **\(\sigma\)/ESC** returns to the previous Sound menu mode.
- If no operation is performed for 60 seconds, Sound menu mode is canceled

#### **Turning Subwoofer ON/OFF**

When the subwoofer is on, you can adjust the subwoofer output level (refer to page 14).

OFF ↔ ON (Initial setting)

#### **Setting the Subwoofer System**

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

1 (Initial setting)  $\leftrightarrow$  2

System 1: Subwoofer level changes according to the main volume setting.

System 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**

PHASE 0° (Initial setting)  $\leftrightarrow$  PHASE 180°

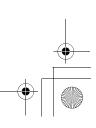
The subwoofer output phase is toggled SUBWOOFER NORMAL (0°) or SUBWOOFER REVERSE (180°). To adjust the level, turn the **Rotary encoder**.



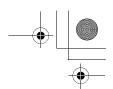












## Setting the Subwoofer Channel (SUBW. Channel)

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

STEREO (Initial setting) ↔ MONO
STEREO: Subwoofer stereo (L/R) output

MONO: Subwoofer monaural output

#### **Equalizer Presets (Factory's EQ)**

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 preset number in "Adjusting the Graphic Equalizer Curve" (page 32) or "Adjusting the Parametric Equalizer Curve" (page 32).

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

Depending on the response characteristics of the speaker, care should be taken when setting the response slope of the high range speaker to FLAT in 2.2ch (3WAY) mode (see "Adjusting the Crossover Settings" on page 32), as speaker damage may result.

 $\mathsf{MAKER'S} \ (\mathsf{Initial} \ \mathsf{setting} \ ) \ \longleftrightarrow \ \mathsf{USER'S}$ 

MAKER'S: As protection from possible speaker damage, FLAT cannot be set for the response slope of the high

range speaker in 2.2ch (3WAY) mode.

USER'S: The FLAT setting is possible in 2.2ch (3WAY) mode

#### **Setting the Filter type**

 $\mathsf{NORMAL} \ (\mathsf{Initial} \ \mathsf{setting}) \ \longleftrightarrow \ \mathsf{INDIVIDUAL}$ 

NORMAL (L=R): Left and right speakers are adjusted

equally.

INDIVIDUAL (L/R): Left and right speakers are individually

adjusted.

#### **Turning Media Xpander ON/OFF**

When the Media Xpander is on, you can adjust the Media Xpander level (refer to page 31).

OFF (Initial setting)  $\leftrightarrow$  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, will be able to reproduce the music clearly even in vehicles with a lot of road noise.

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

#### FM (MX level 1 to 3):

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

#### CD (MX level 1 to 3):

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.

#### CMPM/SAT (MX level 1 to 3):

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

#### DVD (Video CD) (MOVIE MX level 1 to 2):

The dialogue portion of a video is reproduced more clearly.

#### (DVD MUSIC):

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 (MX level 1):

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

- Each music source, such as FM radio, CD, and MP3/WMA/AAC can have its own MX setting.
- On disks with both MP3/WMA/AAC and CD-DA, 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 Non Effect sets MX mode of each music source to OFF.
- The function is inoperable when DEFEAT is set to ON.
- There is no MX mode for AM radio.
- If an audio processor with the MX function (PXA-H701, etc.) is connected, its own MX processing is applied to the music source. Since the processor MX settings may not match the head unit, the audio processor needs to be adjusted. For details, refer to the Owner's Manual of the audio processor.
- "CMPM" is applied for MP3/WMA/AAC and iPod.
- "SAT" is applied for XM radio and SIRIUS radio.

#### Setting EQ mode

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

Parametric EQ (Initial setting)  $\leftrightarrow$  Graphic EQ

PEQ: 5-band Parametric EQ GEQ: 7-band Graphic EQ

## Setting the Time Correction Unit (TCR Parameter)

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

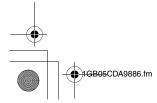
TCR Parameter<cm> (Initial setting) ↔ TCR Parameter<inch>

#### **Blackout Mode On and Off**

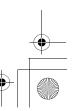
When Blackout mode is turned on, all display indications on this unit will turn off to reduce power consumption. This additional power enhances the sound quality.

OFF (Initial setting)  $\leftrightarrow$  ON

- When Blackout mode is set to ON, in 5 seconds after returning to normal mode, all displays on the unit will turn off.
- If any button on the unit is pressed during the blackout mode, the function will be displayed for 5 seconds to show the operation before returning to Blackout mode.













#### **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**

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 31).

1 After selecting Parametric EQ from the Sound Field Adjustment mode, press **BAND** to select the band to be adjusted.

 $Band1 \rightarrow Band2 \rightarrow Band3 \rightarrow Band4 \rightarrow Band5 \rightarrow Band1$ 

2 Press or ▶ to select frequency bands.

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

20112 to 20 ki i2 (iii 1/3 octave step

Band-1: 20 Hz~80 Hz (63 Hz) Band-2: 50 Hz~200 Hz (150 Hz)

Band-3: 125 Hz~3.2 kHz (400 Hz)

Band-4: 315 Hz~8 kHz (1 kHz)

Band-5: 800 Hz~20 kHz (2.5 kHz)

3 Turn the **Rotary encoder** to adjust the level.

Adjustable level: -6 to +6 dB

4 Press SOURCE/ to set the bandwidth (Q).

Adjustable bandwidth: 1, 1.5, 3

- 5 To adjust another band, repeat steps 1 to 4 and adjust all bands.
- The frequencies of adjacent bands cannot be adjusted within 4 steps.
- While adjusting the Parametric EQ, you should consider the frequency response of the connected speakers.

#### **Adjusting the Graphic Equalizer Curve**

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 31).

1 After selecting Graphic EQ from the Sound Field Adjustment mode, press BAND to select the band to be adjusted.

Band1  $\rightarrow$  Band2  $\rightarrow$  Band3  $\rightarrow$  Band4  $\rightarrow$  Band5  $\rightarrow$  Band6  $\rightarrow$  Band7  $\rightarrow$  Band1

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

 $\label{eq:continuous} 2 \quad \text{Turn the $\textbf{Rotary encoder}$ to adjust the level.}$ 

Adjustable output level: -6 to +6 dB

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

#### **Adjusting the Time Correction**

Before performing the following procedures, refer to "About Time Correction" (page 34).

After selecting Time Correction from the Sound Field Adjustment mode, press BAND to select a speaker to be adjusted.

#### 2.2ch (3WAY) System

#### 4.2ch (FRONT/REAR/SUBW.) System

Turn the Rotary encoder to adjust the distance (0.0 to 336.6cm).

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

Refer to "Time Correction Value List" on page 34.

3 Repeat steps 1 and 2 to set another speaker. By setting these values to make its sound reach the listening position at the same time as the sound of other speakers.

### **Adjusting the Crossover Settings**

Before performing the following procedures, refer to "About the Crossover" (page 35).

#### 2.2ch (3WAY) System

After selecting X-Over from the Sound Field Adjustment mode, press **BAND** to select the band to be adjusted.

#### 2.2ch (3WAY) System / NORMAL (L=R)

Setting items:

LOW / MID-L / MID-H / HIGH

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

Setting items:

LOW-L / LOW-R / MID-L-L / MID-L-R / MID-H-L / MID-H-R / HIGH-L / HIGH-R

2 Press ✓ or ➤ to select the desired cut-off frequency (Crossover Point).

Adjustable frequency bands:

#### 2.2ch (3WAY) System

Setting items:

LOW / MID-L 20 Hz~200 Hz MID-H 20 Hz~20 kHz

HIGH (1 kHz~20 kHz)\*<sup>1</sup>/(20 Hz~20 kHz)\*<sup>2</sup>











<sup>\*</sup>I When Maker's is selected, refer to "Setting the Response Slope for the High Range Speaker (TW Setup)" (page 31).

<sup>\*2</sup> When User's is selected, refer to "Setting the Response Slope for the High Range Speaker (TW Setup)" (page 31).







Press SOURCE/(b) to adjust the slope.

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

- \* FLAT can be set for the HIGH slope only when User's is selected in "Setting the Response Slope for the High Range Speaker (TW Setup)" (page 31). Depending on the response characteristics of the speaker, care should be taken when setting the response slope to FLAT, as speaker damage may result. With this unit, a message is displayed when the response slope for the high range speaker is set to FLAT.
- Turn the Rotary encoder to adjust the output level. Adjustable output level: -12 to 0 dB.
- Repeat steps 1 to 4 to make adjustment to the other

#### 4.2ch (FRONT/REAR/SUBW.) System

After selecting X-Over from the Sound Field Adjustment mode, press BAND to select the band to be adjusted.

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

Settina items:

LOW (SUB-W) / MID (REAR) / HIGH (FRONT)

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

Settina items:

LOW (SUB-W)-L / LOW (SUB-W)-R / MID (REAR)-L / MID (REAR)-R / HIGH (FRONT)-L / HIGH (FRONT)-R

Press or ▶ to select the desired cut-off frequency (Crossover Point).

Adjustable frequency bands:

#### 4.2ch (FRONT/REAR/SUBW.) System

Setting items:

20 Hz~200 Hz

Press SOURCE/ to adjust the slope.

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

- Turn the Rotary encoder to adjust the output level. Adjustable output level: -12 to 0 dB.
- Repeat steps 1 to 4 to make adjustment to the other bands.
- While adjusting the X-over, you should consider the frequency response of the connected speakers.
- About the 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) system You can switch to 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) system mode with the 2.2ch (3WAY)/4.2ch (FRONT/REAR/SUBW.) switch on the PXA-H100. For details, refer to the Owner's Manual of PXA-H100.

#### **Storing the Sound Field Adjustment Settings**

The Sound Field Adjustment Settings containing Parametric EQ/ Graphic EQ Adjustment, Time Correction and X-Over settings can be stored in the preset memory.

- When the settings of Sound Field Adjustment have been completed, select any one of the preset buttons (1 through 6) in any item of the Sound Field adjustment mode (e.g. X-Over), press and hold the desired preset buttons for at least 2 seconds.
- Turn the Rotary encoder to select PROTECT YES/NO, and then press Q /ENT to store the adjusted contents.

PROTECT YES (Initial setting) ↔ PROTECT NO

- · If YES is selected, the adjusted contents are protected and stored into the preset buttons. When you want to store the parameter into a protected preset button, "Replace NO/YES" can be selected.
- ${\it If NO is selected, the preset is stored.}$
- While perform this operation, all adjusted contents of Parametric EQ/Graphic EQ, Time Correction and X-Over will be stored in the preset buttons.
- The stored contents are not deleted even when resetting the unit or disconnecting the battery.
- The stored contents can be recalled by performing operation in "Recalling the Stored Sound Field Adjustment Settings" (page 33).

#### **Recalling the Stored Sound Field Adjustment** Settings

The stored Sound Field Settings contain Parametric EQ/Graphic EQ Adjustment, Time Correction and X-Over settings that are stored in the preset memory.

- 1 After selecting any item of the Sound Field Adjustment mode (e.g. X-Over), press any one of the preset buttons (1 through 6) that has your desired characteristic in memory to recall the stored
- Press the preset buttons again to return to the Sound Field Adjustment mode.
- While performing this operation, all adjustment contents of Parametric EQ/Graphic EQ, Time Correction and X-Over stored in the preset buttons will be recalled.















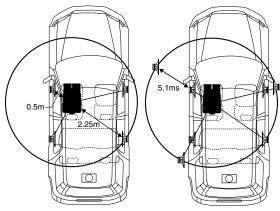


#### **About Time Correction**

The distance between the listener and the speakers in a vehicle 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 zero or a low value.



The sound is not balanced because the distance between the listening position and the various speakers is different.

The difference in distance between the front left speaker and the rear right speaker is 1.75 m (68-7/8").

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

Conditions:

Farthest Speaker – listening position : 2.25 m (88-9/16") Front left speaker – listening position : 0.5 m (19-11/16") Calculation: L = 2.25 m – 0.5 m = 1.75 m (68-7/8") Time correction = 1.75  $\div$  343\* $^{1}$  × 1000 = 5.1 (ms)

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.

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

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

#### Time Correction Value List

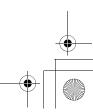
Time Difference (ms)	Distance (cm)	Distance (inch)	Delay Number	Time Difference (ms)	Distance (cm)	Distance (inch)
0.0	0.0	0.0	51	5.1	173.4	68.3
0.1	3.4	1.3	52	5.2	176.8	69.7
0.2	6.8	2.7	53	5.3	180.2	71.0
0.3	10.2	4.0	54	5.4	183.6	72.4
0.4	13.6	5.4	55	5.5	187.0	73.7
0.5	17.0	6.7	56	5.6	190.4	75.0
0.6	20.4	8.0	57	5.7	193.8	76.4
0.7	23.8	9.4	58	5.8	197.2	77.7
0.8	27.2	10.7	59	5.9	200.6	79.1
0.9	30.6	12.1	60	6.0	204.0	80.4
1.0	34.0	13.4	61	6.1	207.4	81.7
1.1	37.4	14.7	62	6.2	210.8	83.1
1.2	40.8	16.1	63	6.3	214.2	84.4
1.3	44.2	17.4	64	6.4	217.6	85.8
1.4	47.6	18.8	65	6.5	221.0	87.1
1.5	51.0	20.1	66	6.6	224.4	88.4
1.6	54.4	21.4	67	6.7	227.8	89.8
1.7	57.8	22.8	68	6.8	231.2	91.1
1.8	61.2	24.1	69	6.9	234.6	92.5
1.9	64.6	25.5	70	7.0	238.0	93.8
2.0	68.0	26.8	71	7.1	241.4	95.1
2.1	71.4	28.1	72	7.2	244.8	96.5
2.2	74.8	29.5	73	7.3	248.2	97.8
2.3	78.2	30.8	74	7.4	251.6	99.2
2.4	81.6	32.2	75	7.5	255.0	100.5
2.5	85.0	33.5	76	7.6	258.4	101.8
2.6	88.4	34.8	77	7.7	261.8	103.2
2.7	91.8	36.2	78	7.8	265.2	104.5
2.8	95.2	37.5	79	7.9	268.6	105.9
2.9	98.6	38.9	80	8.0	272.0	107.2
3.0	102.0	40.2	81	8.1	275.4	108.5
3.1	105.4	41.5	82	8.2	278.8	109.9
3.2	108.8	42.9	83	8.3	282.2	111.2
3.3	112.2	44.2	84	8.4	285.6	112.6
3.4	115.6	45.6	85	8.5	289.0	113.9
3.5	119.0	46.9	86	8.6	292.4	115.2
3.6	122.4	48.2	87	8.7	295.8	116.6
3.7	125.8	49.6	88	8.8	299.2	117.9
3.8	129.2	50.9	89	8.9	302.6	119.3
3.9	132.6	52.3	90	9.0	306.0	120.6
4.0	136.0	53.6	91	9.1	309.4	121.9
4.1	139.4	54.9	92	9.2	312.8	123.3
4.2	142.8	56.3	93	9.3	316.2	124.6
4.2	146.2	57.6	94	9.4	319.6	126.0
4.4	149.6	59.0	95	9.5	323.0	127.3
4.5	153.0	60.3	96	9.6	326.4	128.6
						130.0
						131.3
						131.3
			שט	5.5	JJ0.0	132.7
4.6 4.7 4.8 4.9 5.0	3	156.4 7 159.8 3 163.2 9 166.6	6 156.4 61.6 7 159.8 63.0 8 163.2 64.3 9 166.6 65.7	6 156.4 61.6 97 7 159.8 63.0 98 8 163.2 64.3 99 9 166.6 65.7	6 156.4 61.6 97 9.7 7 159.8 63.0 98 9.8 8 163.2 64.3 99 9.9 9 166.6 65.7	6     156.4     61.6     97     9.7     329.8       7     159.8     63.0     98     9.8     333.2       8     163.2     64.3     99     9.9     336.6       9     166.6     65.7







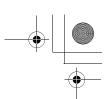




 $<sup>*^{</sup>I}$  Speed of sound: 343 m/s (765 mph) at  $20^{\circ}C$ 







## About the Crossover

#### Crossover (X-OVER):

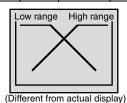
This unit is equipped with an active crossover. The crossover limits the frequencies delivered to the outputs. Each channel is controlled independently. Thus, each speaker pair can be driven by the frequencies for which they have been optimally designed.

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

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

## 4.2ch (FRONT/REAR/SUBW.) mode

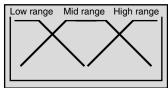
	Cut-off frequency (1/3 octave steps)		Slope		Level
	HPF	LPF	HPF	LPF	
Low range speaker		20 Hz - 200 Hz		FLAT, 6, 12, 18, 24 dB/oct.	0 to -12 dB
Rear high range speaker	20 Hz - 200 Hz		FLAT, 6, 12, 18, 24 dB/oct.		0 to -12 dB
Front high range speaker	20 Hz - 200 Hz		FLAT, 6, 12, 18, 24 dB/oct.		0 to -12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



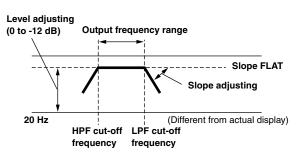
2.2ch (3WAY) mode

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

\* Only when selecting User's in "Setting the Response Slope for the High Range Speaker (TW Setup)" (page 31).

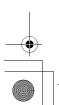


(Different from actual display)



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

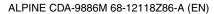
We are not responsible for damage or malfunction of speakers caused by using the crossover outside the recommended value.

















## **About IMPRINT**

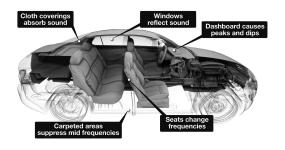


## **VISION VS. REALITY**

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

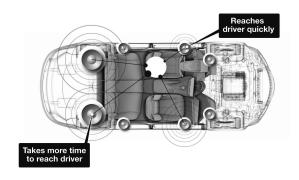
## VEHICLES ARE TERRIBLE LISTENING SPACES

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



## **INTRODUCING IMPRINT**

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



### **HOW IMPRINT IS DIFFERENT**

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

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

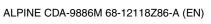




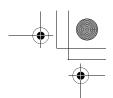




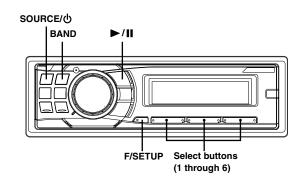








## Changer (Optional)



## **Controlling CD 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-400C (Multi-Changer Switching device) or the KCA-410C (Versatile Link Terminal) multiple changers can be controlled by this unit.

See "Multi-Changer Selection (Optional)" on page 37 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 SOURCE/ to activate the CHANGER mode.

- The source indicator varies depending on the connected source.
- Press BAND to switch the Disc mode in the Changer mode.

## 2 Press F/SETUP to activate Disc Select mode.



## 3 Press the disc select buttons (1 through 6) corresponding to one of the discs loaded in the CD Changer.

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

- After selecting the desired disc, you can operate in the same way as for the CD player of this unit. For details, please see the CD/MP3/ WMA/AAC section.
- \* When a 12-disc CD changer is connected.

## Playing MP3 Files with the CD Changer (Optional)

If you connect a changer compatible with MP3, you can play CD-ROMs, CD-Rs, and CD-RWs containing MP3 files on this unit.

- 1 Press SOURCE/也 to switch to the MP3 Changer mode.
- Press any one of the disc select buttons (1 through 6) corresponding to one of the discs loaded in the CD Changer.
- 3 To pause playback, press ►/II.

  Pressing ►/II again will resume playback.
- The unit can play discs containing both audio data and MP3 data.
- For operating MP3 with an MP3 compatible CD Changer, refer to "CD/MP3/WMA/AAC" pages 10 to 13.

## **Multi-Changer Selection (Optional)**

Alpine's Ai-NET system will support up to 6 CD Changers. When operating two or more changers, the KCA-400C (Multi-Changer Switching device) must be used. If you use 1 Switching device, you can connect up to 4 CD Changers. If you use 2 Switching devices, you can connect up to 6 CD Changers. When using KCA-410C (Versatile Link Terminal), you can connect two changers and two external outputs (AUX).

## 1 Press **SOURCE**/ $\phi$ on this unit to activate the CD Changer mode.

Alternatively, press **SOURCE** on the remote control (RUE-4202) to activate the CD Changer mode.



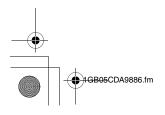
## 2 Press BAND on this unit or the RUE-4202 to activate the CD Changer Selection mode.

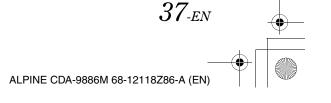
The CD Changer Selection mode remains active for a few seconds.

## 3 Press BAND until the desired CD Changer indicator appears on the display.

Alternatively press BAND on the Remote Control until the desired changer indicator appears on the display.

- If the selected CD Changer is not connected, the display will show "NO CHANGER (No.)".
- To operate the selected changer, see "CD/MP3/WMA/AAC" (pages 10 to 13).
- For further details about the external input (AUX) when using KCA-410C, see "Setting the AUX Mode (V-Link)" on page 20.



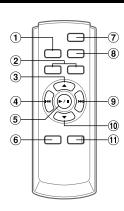








## **Remote Control**



## **Controls on Remote Control**

1 Source Button

Press this button to select the audio source.

2 Volume Adjustment Buttons

To increase the volume level: Press the \( \bar{\Lambda} \) button

To decrease the volume level: Press the  $\boxed{\mathbf{V}}$  button

③ ▲ Button

Radio mode: Pressing this button will select, in ascending order, stations programmed into the radio's presets as shown below.

$$\boxed{1} \rightarrow \boxed{2} \dots \boxed{6} \rightarrow \boxed{1}$$

CD Changer mode: DISC Select (UP) button Press this button to select a disc in ascending order.

MP3/WMA/AAC mode: Folder Select (UP) button Press this button to select the folder.

MP3 compatible CD changer mode:
Folder Select (UP) / DISC Select (UP) button
Press this button to select a folder in ascending order. Press
and hold this button to select a disc in ascending order.
iPod mode: Switches Playlist/Artist/Album/Genre/Composer.

Radio mode: SEEK (DN) Button CD/iPod mode: Press this button to go back to the beginning of the current track.

⑤ ▶/|| Button

Press this button to switch between the Play and Pause modes for CD.

#### 6 Audio Processor Button

Each press of the button changes the audio processor mode.

For details, refer to "Operating the Audio Processor" as shown below.

Press the button to activate the external audio processor mode when the external audio processor is connected.\*

\* For the operation of external audio processor, refer to the Owner's Manual of the external audio processor you purchased. When the IMPRINT audio processor (PXA-H100) (sold separately) is connected, refer to "IMPRINT Operation (Optional)" on page 29.

## 7 Power Button

Press this button to turn the power on/off.

### **8** Band Button

Radio mode: BAND Button

Press this button and the band will change.

Changer mode: To switch the changer.

## 9 ▶► UP Button

Radio mode: SEEK (UP) button CD/iPod mode: Press this button to advance to the beginning of the next track.

#### 10 ▼ Button

Radio mode: Pressing this button will select, in descending order, stations programmed into the radio's presets as shown below.

$$\boxed{\mathbf{6}} \rightarrow \boxed{\mathbf{5}} \dots \boxed{\mathbf{1}} \rightarrow \boxed{\mathbf{6}}$$

CD Changer mode: DISC Select (DN) button
Press this button to select a disc in descending order.
MP3/WMA/AAC mode: Folder Select (DN) button
Press this button to select the folder.

MP3 compatible CD changer mode:
Folder Select (DN) / DISC Select (DN) button
Press this button to select a folder in descending order.
Press and hold this button to select a disc in descending order.

iPod mode: Switches Playlist/Artist/Album/Genre/Composer.

## 11 Mute Button

Press this button to lower the volume by 20 dB instantly. Press this button again to cancel.

## **Operating the Audio Processor**

1 Press A.PROC to select the mode.

Normal mode  $\rightarrow$  Time Correction  $\rightarrow$  X-OVER  $\rightarrow$  Normal mode

Z Press ▲ or ▼ to select the item.

Time Correction mode/Crossover (X-OVER) mode: Select from MEMORY 1 through 6.

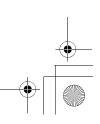




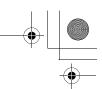


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## **Battery Replacement**

Applicable battery: Use two "AAA" sized dry batteries or equivalent.

## 1 Opening the battery cover

Slide out the battery cover while firmly pressing in the direction of the arrow.



## 2 Replacing the battery

Insert the batteries, observing the polarities as illustrated.



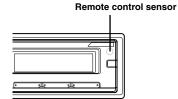
## 3 Closing the cover

Slide the cover as illustrated until a click is heard.



## Controllable With Remote Control

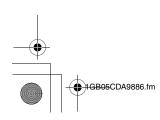
Point the remote control transmitter at the remote control sensor

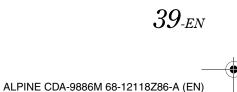


## Connectable to Remote Control Interface Box

This unit may be controlled from the vehicle's audio controls. An optional Alpine Remote Control Interface Box must be used. For details, contact your Alpine dealer.

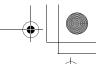














## **Information**

## 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 ballpoint 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.

## CD

## CD Player/Changer not functioning.

- Out of operating temperature range  $+50^{\circ}$ C ( $+120^{\circ}$ F) for CD.
  - Allow the vehicle's interior (or trunk) temperature to cool.

### CD playback sound is wavering.

- Moisture condensation in the CD Module.
  - Allow enough time for the condensation to evaporate (about 1 hour).

### CD insertion not possible.

- · A CD is already in the CD player.
  - Eject the CD and remove it.
- · The CD is being improperly inserted.
  - Make sure the CD is being inserted following instructions in the CD Player Operation section.

### Unable to fast forward or backward the CD.

- · The CD has been damaged.
  - Eject the CD and discard it; using a damaged CD in your unit can cause damage to the mechanism.

### CD playback sound skips due to vibration.

- · Improper mounting of the unit.
  - Securely re-mount the unit.
- The disc is very dirty.
- Clean the disc.
- The disc has scratches.
  - Change the disc.
- · The pick-up lens is dirty.
  - Do not use a commercially available lens cleaner disc. Consult your nearest Alpine dealer.

### CD playback sound skips without vibration.

- · The disc is dirty or scratched.
- Clean the disc; damaged disc should be replaced.

## Error displays (built-in CD player only).

- · Mechanical error.
- Press . After the error indication disappears, insert the disc again. If the above-mentioned solution does not solve the problem, consult your nearest Alpine dealer.

#### CD-R/CD-RW playback not possible.

- Close session (finalization) has not been performed.
  - Perform finalization and attempt playback again.

## 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 12-13), 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 20).

## iPod

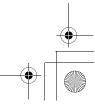
### iPod does not play and no sound is output.

- The iPod has not been recognized.
  - Reset this unit and the iPod. Refer to "Initial System Start-Up" (page 7). To reset the iPod, refer to the Owner's Manual of the iPod.

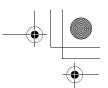


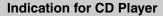
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## No Disc

- No CD is inserted.
- Insert a CD.
- Although a disc is inserted, "No Disc" is displayed and the unit does not start to play or eject the disc.
  - Remove the disc by following these steps:
     Press the ≜ button again for at least 2 seconds.
     If the disc still does not eject, consult your Alpine dealer.

## **Error**

- · Mechanism error.
  - Press the <u>▲</u> button and eject the CD.
     If not ejecting, consult your Alpine dealer.
  - When the error indication remains after ejecting, press the button again.
    - If the error indication still does not turn off after pressing the 
      button for a few times, consult your Alpine dealer.
- When "Error" is displayed:

If the disc cannot be ejected by pressing  $\triangle$ , press the RESET switch (refer to page 7) and press  $\triangle$  again.

If the disc still cannot be ejected, consult your Alpine dealer.

## **PROTECT**

- A copy-protected WMA file was played back.
- You can only play back non-copy-protected 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.

## **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.

## **Indication for SAT Receiver Mode**

## **ANTENNA**

- The XM or SIRIUS antenna is not connected to the XM or SIRIUS radio module.
  - Check whether the XM or SIRIUS antenna cable is attached securely to the XM or SIRIUS radio module.

## **UPDATING**

- Radio is being updated with latest encryption code.
- Wait until encryption code is being updated. Channels 0 and 1 should function normally.

## NO SIGNAL

(XM mode)

## **Acquiring Signal**

(SIRIUS mode)

- XM or SIRIUS signal is too weak at the current location.
- Wait until the vehicle reaches a location with a stronger signal.

## **LOADING**

- · Radio is acquiring audio or program information.
- Wait until the radio has received the information.

## OFF AIR

(XM mode)

## Acquiring Signal

(SIRIUS mode)

- The channel currently selected has stopped broadcasting.
  - Select another channel.

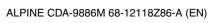


















- The user has selected a channel number that does not exist or is not subscribed to.
  - The unit will revert back to the previously selected channel.
- There is no artist name/feature, song/program title, or additional information associated with the channel at that time.
  - No action needed.

## Error

- · If an error or other problem occurs.
  - Change channels or consult your Alpine dealer.

## **Indication for iPod Mode**

## No iPod

- · The iPod is not connected.
  - Make sure the iPod is correctly connected (refer to "Connections").
     Make sure the cable is not bent excessively.

## NO SONG

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

## Error 01

- Communication error
- Turn the ignition key off, and then set to ON again.
- Check the display by reconnecting between the iPod and this unit, using the iPod cable.

## Error 02

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

## **Indication for USB memory**

## **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.

## **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 Unit**

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

## **NO FILE**

- · 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.

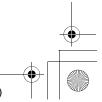
## PROTECT

- A copy-protected WMA file was played back.
  - You can only play back non-copy-protected files.





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## **Specifications**

## **FM TUNER SECTION**

Tuning Range 87.7-107.9 MHzMono Usable Sensitivity  $9.3 \text{ dBf } (0.8 \,\mu\text{V}/75 \text{ ohms})$  50 dB Quieting Sensitivity  $13.5 \text{ dBf } (1.3 \,\mu\text{V}/75 \text{ ohms})$ Alternate Channel Selectivity 80 dBSignal-to-Noise Ratio 65 dBStereo Separation 35 dBCapture Ratio 2.0 dB

### **AM TUNER SECTION**

Tuning Range 530-1,710 kHz Sensitivity (IEC Standard) 22.5  $\mu$ V/27 dB

### **CD PLAYER SECTION**

Frequency Response 5-20,000 Hz (±1 dB)
Wow & Flutter (% WRMS) Below measurable limits
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)

### **USB SECTION**

USB requirements USB 1.1/2.0

Max. Power Consumption 500 mA

USB Class Mass Storage
File System FAT 12/16/32

MP3 Decoding MPEG-1/2 AUDIO Layer-3 WMA Decoding Windows Media<sup>TM</sup> Audio AAC Decoding AAC-LC format ".m4a" file Number of Channels 2-Channel (Stereo) Frequency Response\* 5-20,000 Hz (±1 dB) **Total Harmonic Distortion** 0.008% (at 1 kHz) Dynamic Range 95 dB (at 1 kHz) 105 dB Signal-to-Noise Ratio Channel Separation 85 dB (at 1 kHz)

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

## **PICKUP**

Wave length 795 nm Laser power CLASS I

## REMOTE CONTROL

 Battery Type
 AAA batteries (2 pcs.)

 Width
 42 mm (1-21/32")

 Height
 121 mm (4-25/32")

 Depth
 23 mm (29/32")

 Weight
 50 g (1.8 oz)

#### **GENERAL**

 $\begin{array}{c} \mbox{Power Requirement} & 14.4 \mbox{ V DC} \\ & (11\mbox{-}16 \mbox{ V allowable}) \\ \mbox{Power Output} & 18 \mbox{ W RMS} \times 4^* \end{array}$ 

\*Primary amplifier ratings per CEA-2006 Standard
• Power output: measured at 4 Ohms and ≤ 1% THD+N

S/N: 80 dBA (reference: 1 W into 4 Ohms)
 Maximum Pre-Output Voltage 4 V/10 k ohms
 Bass +14/-14 dB at 100 Hz
 Treble ±14 dB at 10 kHz

1.6 kg (3 lbs. 8 oz)

### **CHASSIS SIZE**

Weight

 Width
 178 mm (7")

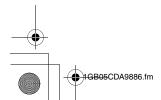
 Height
 50 mm (2")

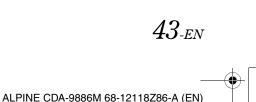
 Depth
 160 mm (6-1/4")

### **NOSEPIECE SIZE**

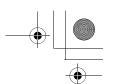
Width 170 mm (6-3/4") Height 46 mm (1-13/16") Depth 24 mm (15/16")

 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 4 to 6 of this manual thoroughly for proper use.

## **⚠** Warning

### MAKE THE CORRECT CONNECTIONS.

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

## DO NOT CONNECT A POWER SUPPLY OTHER THAN A DC 12V NEGATIVE GROUND TYPE.

Failure to do so may result in accident or fire.

## 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 GEARSHIFT.

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, gear 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

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 CDA-9886M. This will reduce any chance of damage to the unit in case of a short-circuit.
- Be sure to connect the color coded leads according to the diagram. Incorrect connections may cause the unit to malfunction or damage to the vehicle's electrical system.
- When making connections to the vehicle's electrical system, be aware of the factory installed components (e.g. on-board computer). Do not tap into these leads to provide power for this unit. When connecting the CDA-9886M to the fuse box, make sure the fuse for the intended circuit of the CDA-9886M 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 CDA-9886M 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**

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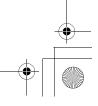
Please record the serial number of your unit in the space provided below and keep it as a permanent record. The serial number or the engraved serial number is located on the bottom of the unit.

SERIAL NUMBER:
INSTALLATION DATE:
INSTALLATION TECHNICIAN:
PLACE OF PURCHASE:

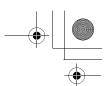








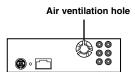


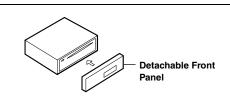




#### Caution

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



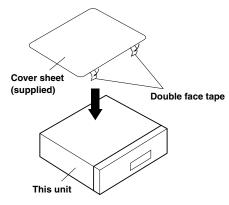


#### Caution

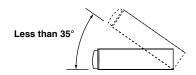
When you install this unit in your vehicle, do not remove the detachable front panel.

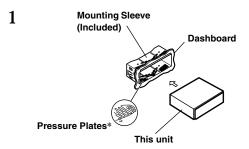
If the detachable front panel is removed during installation, you might press too hard and warp the metal plate that holds it in place.

• Stick the supplied cover sheet on the surface of the unit.



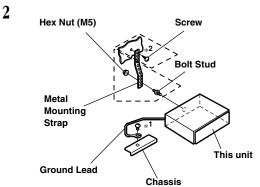
 The main unit must be mounted within 35 degrees of the horizontal plane, back to front.





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

Remove the mounting sleeve from the main unit (see "Removal" on page 46).

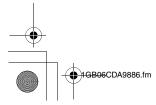


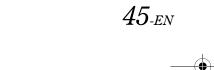
Reinforce the head unit with the metal mounting strap (not supplied). Secure the ground lead of the unit to a clean metal spot using a screw ( $^{*I}$ ) already attached to the vehicle's chassis.

For the screw marked "\*2", use an appropriate screw for the chosen mounting location.

Connect each input lead coming from an amplifier or equalizer to the corresponding output lead coming from the left rear of the CDA-9886M. Connect all other leads of the CDA-9886M according to details described in the CONNECTIONS section.

Slide the CDA-9886M into the dashboard until it clicks. This ensures that the unit is properly locked and will not accidentally come out from the dashboard.





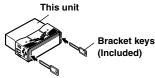






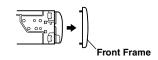
### Removal

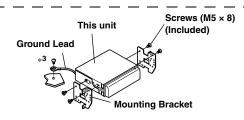
- 1. Remove the detachable front panel.
- 2. Insert the bracket keys into the unit, along the guides on either side. The unit can now be removed from the mounting sleeve.



3. Pull the unit out, keeping it unlocked as you do so.

## <JAPANESE VEHICLE>



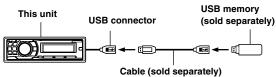


 Secure the ground lead of the unit to a clean metal spot using a screw (\*3) already attached to the vehicle's chassis.

## USB memory Connection (sold separately)

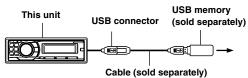
## **Connect USB memory**

Connect USB memory to USB cable.



## Remove USB memory

Pull out USB memory squarely from the USB cable.

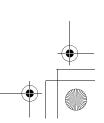


- When removing USB memory, pull it out straight.
- If sound is not output or USB memory is not recognized even when USB memory is connected, remove USB memory once, then connect it again.
- Change to a source other than the USB memory mode, then remove the USB memory. If the USB memory is removed in the USB memory mode, data may be damaged.
- Route the USB cable away from another cables, etc.





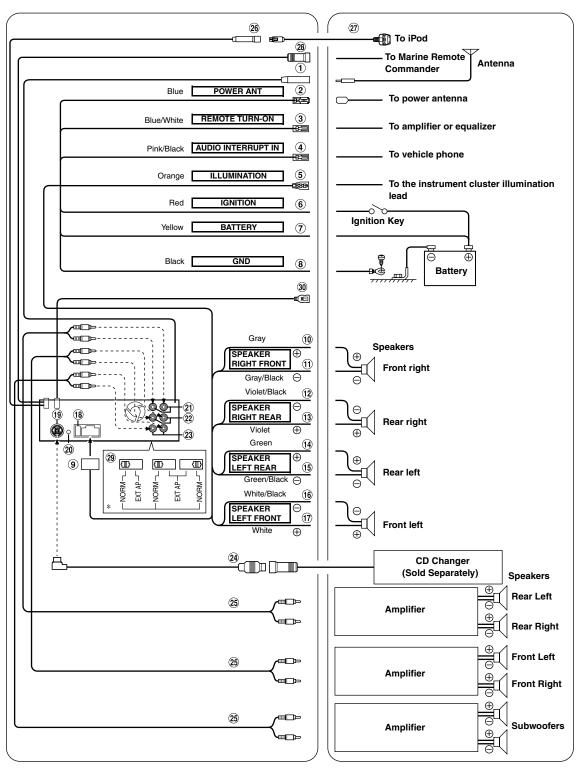




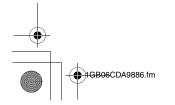


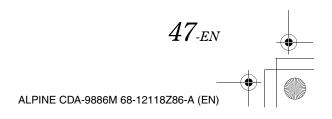


## **Connections**



<sup>\*</sup> The label is attached on the bottom of the unit.











### 1 Antenna Receptacle

## 2 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.

## 3 Remote Turn-On Lead (Blue/White)

Connect this lead to the remote turn-on lead of your amplifier or signal processor. When an IMPRINT audio processor PXA-H100 (sold separately) is connected, use the Remote Turn-on Lead of PXA-H100 to connect to your amplifier or signal processor. For details, refer to the Owner's Manual of PXA-H100.

## 4 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.

#### (5) Illumination Lead (Orange)

This lead may be connected to the vehicle's instrument cluster illumination lead. This will allow the backlighting of the CDA-9886M to dim whenever the vehicle's lights are turned on.

### 6 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.

## 7 Battery Lead (Yellow)

Connect this lead to the positive (+) post of the vehicle's battery.

## 8 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.

- 9 Power Supply Connector
- 10 Right Front (+) Speaker Output Lead (Gray)
- 11) Right Front (-) Speaker Output Lead (Gray/Black)
- 12 Right Rear (-) Speaker Output Lead (Violet/Black)
- (1) Right Rear (+) Speaker Output Lead (Violet)
- (4) Left Rear (+) Speaker Output Lead (Green)
- (I) Left Rear (–) Speaker Output Lead (Green/Black)
- 16 Left Front (-) Speaker Output Lead (White/Black)
- 17 Left Front (+) Speaker Output Lead (White)
- (18) Fuse Holder (10A)

#### 19 Ai-NET Connector

Connect this to the output or input connector of another device (CD Changer, IMPRINT audio processor, Equalizer, HD Radio TUNER MODULE, etc.) equipped with Ai-NET.

- Be sure to set "Setting the Connected Head Unit (MODEL SETUP)" to "CD CHG", when the DHA-S690 is connected.
- Interface adapter for iPod<sup>®</sup> (KCA-420i) is not recommended for use with this product.
- You can input TV/video sound by connecting an optional Ai-NET/ RCA Interface cable (KCA-121B) to this component.

## 20 Steering Remote Control Interface Connector

To steering Remote control interface box.

### 21 Rear Output/Input RCA Connectors

It can be used as Rear Output or Input RCA Connectors. RED is right and WHITE is left.

### Front Output/Input RCA Connectors

It can be used as Front Output or Input RCA Connectors. RED is right and WHITE is left.

### 23 Subwoofer RCA Connectors

RED is right and WHITE is left.

#### 24 Ai-NET Cable (Included with CD Changer)

#### 25 RCA Extension Cable (sold separately)

#### 26 iPod Direct Connector

Control iPod signals

Connect this to an iPod or to an optional Bluetooth Box. To use a hands-free mobile phone, an optional Bluetooth Box connection is required. For details on connection, refer to the Owner's Manual of the Bluetooth Box. You can also connect this to an external device (such as a portable player) by using iPod Direct/RCA Interface cable (sold separately).

\* Refer to "Setting the AUX+ Setup Mode" (page 20).

AUX+ ON: When the external device is connected.

AUX+ OFF: When an iPod is connected.

## ② FULL SPEED™ Connection Cable (KCE-422i) (supplied)

### **28** Marine Remote Commander Connector

This connector is used to connect the Marine Remote Commander (sold separately).

For details about connections, consult your nearest Alpine dealer.

## 29 System Switch

When connecting a processor or divider using Ai-NET, place the three swithes in the EXT AP position. When no device is connected, leave the switch in the NORM position.

- · Do not make the three switches to different settings.
- Be sure to turn the power off to the unit before changing the switch position.

## 30 USB Connector

Connect USB cable

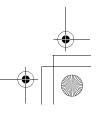
### To prevent external noise from entering the audio system.

- Locate the unit and route the leads at least 10 cm away from the vehicle 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 vehicle 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.

















## LIMITED WARRANTY

ALPINE ELECTRONICS OF AMERICA, INC. AND ALPINE OF CANADA INC. ("Alpine"), are dedicated to quality craftsmanship and are pleased to offer this Warranty. We suggest that you read it thoroughly. Should you have any questions, please contact your Dealer or contact Alpine at one of the telephone numbers listed below.

## • PRODUCTS COVERED:

This Warranty covers Audio Products and Related Accessories ("the product"). Products purchased in the Canada are covered only in the Canada. Products purchased in the U.S.A. are covered only in the U.S.A.

## • LENGTH OF WARRANTY:

This Warranty is in effect for one year from the date of the first consumer purchase.

#### WHO IS COVERED:

This Warranty only covers the original purchaser of the product, who must reside in the United States, Puerto Rico or Canada.

#### • WHAT IS COVERED:

This Warranty covers defects in materials or workmanship (parts and labor) in the product.

### • WHAT IS NOT COVERED:

This Warranty does not cover the following:

- ① Damage occurring during shipment of the product to Alpine for repair (claims must be presented to the carrier).
- ② Damage caused by accident or abuse, including burned voice coils caused by over-driving the speaker (amplifier level is turned up and driven into distortion or clipping). Speaker mechanical failure (e.g. punctures, tears or rips). Cracked or damaged LCD panels. Dropped or damaged hard drives.
- ③ Damage caused by negligence, misuse, improper operation or failure to follow instructions contained in the Owner's manual.
- ④ Damage caused by act of God, including without limitation, earthquake, fire, flood, storms or other acts of nature. Any cost or expense related to the removal or reinstallation of the product.
- § Service performed by an unauthorized person, company or association.
- 6 Any product which has the serial number defaced, altered or removed.
- ② Any product which has been adjusted, altered or modified without Alpine's consent.
- (8) Any product not distributed by Alpine within the United States, Puerto Rico or Canada.
- (9) Any product not purchased from an Authorized Alpine Dealer.

## ◆ HOW TO OBTAIN WARRANTY SERVICE:

- ① You are responsible for delivery of the product to an Authorized Alpine Service Center or Alpine for repair and for payment of any initial shipping charges. Alpine will, at its option, repair or replace the product with a new or reconditioned product without charge. If the repairs are covered by the warranty, and if the product was shipped to an Authorized Alpine Service Center or Alpine, Alpine will pay the return shipping charges.
- ② You should provide a detailed description of the problem(s) for which service is required.

- 3 You must supply proof of your purchase of the product.
- (4) You must package the product securely to avoid damage during shipment. To prevent lost packages it is recommended to use a carrier that provides a tracking service.

### HOW WE LIMIT IMPLIED WARRANTIES:

ANY IMPLIED WARRANTIES INCLUDING FITNESS FOR USE AND MERCHANTABILITY ARE LIMITED IN DURATION TO THE PERIOD OF THE EXPRESS WARRANTY SET FORTH ABOVE AND NO PERSON IS AUTHORIZED TO ASSUME FOR ALPINE ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT.

### ● HOW WE EXCLUDE CERTAIN DAMAGES:

ALPINE EXPRESSLY DISCLAIMS LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES CAUSED BY THE PRODUCT. THE TERM "INCIDENTAL DAMAGES" REFERS TO EXPENSES OF TRANSPORTING THE PRODUCT TO THE ALPINE SERVICE CENTER, LOSS OF THE ORIGINAL PURCHASER'S TIME, LOSS OF THE USE OF THE PRODUCT, BUS FARES OR OTHERS COSTS RELATING TO THE CARE AND CUSTODY OF THE PRODUCT. THE TERM "CONSEQUENTIAL DAMAGES" REFERS TO THE COST OF REPAIRING OR REPLACING OTHER PROPERTY WHICH IS DAMAGED WHEN THIS PRODUCT DOES NOT WORK PROPERLY. THE REMEDIES PROVIDED UNDER THIS WARRANTY ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS.

## HOW STATE/PROVINCIAL LAW RELATES TO THE WARRANTY:

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state and province to province. In addition, some states/provinces do not allow limitations on how long an implied warranty lasts, and some do not allow the exclusion or limitation of incidental or consequential damages. Accordingly, limitations as to these matters contained herein may not apply to you.

### • IN CANADA ONLY:

This Warranty is not valid unless your Alpine audio product has been installed in your vehicle by an Authorized Installation Center, and this warranty stamped upon installation by the installation center.

## • HOW TO CONTACT CUSTOMER SERVICE:

Should the product require service, please call the following number for your nearest Authorized Alpine Service Center.

AUDIO 1-800-ALPINE-1 (1-800-257-4631) NAVIGATION 1-888-NAV-HELP (1-888-628-4357)

Or visit our website at; http://www.alpine-usa.com

**ALPINE ELECTRONICS OF AMERICA, INC.,** 19145 Gramercy Place, Torrance, California 90501, U.S.A. **ALPINE ELECTRONICS OF CANADA, INC.,** 777 Supertest Road, Toronto, Ontario M3J 2M9, Canada

Do not send products to these addresses.

Call the toll free telephone number or visit the website to locate a service center.



