

# **CDE-110/CDE-110C** CDE-110E/CDE-110UB





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 OWNER'S MANUAL Please read before using this equipment

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# **Operating Instructions**

### **WARNING** INSERTION SLOTS OR GAPS. loing so may result in personal injury or damage to the produc



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

**!** WARNING

DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE. Any function that requires your prolonged attention should only be 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 emergence vehicle sirens or road warning signals (train crossings, etc.) can be dangerous and may result in an accident. LISTENING AT LOUD VOLUME LEVELS IN A CAR MAY ALSO CAUSE HEARING

MINIMIZE DISPLAY VIEWING WHILE DRIVING Viewing the display may distract the driver from looking ahead o

## DO NOT DISASSEMBLE OR ALTER. Doing so may result in an accident, fire or electric shock

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND. (Check with your dealer if you are not sure.) Failure to do so may

### KEEP SMALL OBJECTS SUCH AS BATTERIES OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury. If swallowe 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.

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

# **∴**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 neares

# 

Use a soft dry cloth for periodic cleaning of the product. For more severe stains, please dampen the cloth with water only. Anything

Return it to your Alpine dealer or the nearest Alpine Service

else has the chance of dissolving the paint or damaging the plastic

### Temperature Be sure the temperature inside the vehicle is between $+55^{\circ}\mathrm{C}$

(+131°F) and -10°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

Station for servicing.

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

# If you have problems, do not attempt to repair the unit yourself

## Irregular Shaped Discs any special shape discs.

Bumps

Never Attempt the Following

player by the automatic reloading mechanism

Inserting Discs

New Discs

the disc again.

attempt to load more than one disc.

Do not grip or pull out the disc while it is being pulled back into t

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

Your player accepts only one disc at a time for playback. Do not

Make sure the label side is facing up when you insert the disc.

Playing a disc while driving on a very bumpy road may result in

To prevent the CD from jamming, the LCD is displayed as error if

discs with irregular surfaces are inserted or if discs are inserted incorrectly. When a new disc is ejected immediately after initial

d outside edge of the disc. If you feel any small bumps of

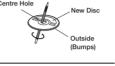
irregularities, this could inhibit proper loading of the disc. To

loading, use your finger to feel around the inside of the centre hole

remove the bumps, rub the inside edge of the hole and outside edg

of the disc with a ballpoint pen or other such instrument, then insert

skips, but this will not scratch the disc or damage the player.



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





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

Do not leave the disc in the car or the unit for a long time. Never

expose the disc to direct sunlight. Heat and humidity may damage

 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 dis-

· Do not use commercially available disc accessorie

the CD and you may not be able to play it again.

About media that can be played

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 playbac

Use only compact discs with the label side showing the CD logo

If you use unspecified compact discs, correct performance canno

temperatures or sunlight (e.g., left in the car or this unit), CDs

recorded under unstable conditions, CDs on which a reco

failed or a re-recording was attempted, copy-protected CD

which do not conform to the audio CD industry standard.

**!**CAUTION

On Handling USB Memory

substances are present.

Alpine accepts no responsibility for lost data, etc., even if data, etc. is lost while using this product.

· To prevent malfunction or damage, note the following points

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 car exposed to direct sunlight or high

Anywhere the possibility of high humidity or corrosive

USB memory may not function correctly at high or low temperature
The USB flash memory supports a maximum of 4 GB per partition.

memory, may not function correctly depending on its type or stat

Depending on the settings of the USB memory type, memory state or encoding software, the unit may not play back or display pages of the USB.

Fix the USB memory in a location where driver operation will

The unit recognizes only one partition.

Use only certified USB memory. Note that even certified USB

USB memory function is not guaranteed. Use USB memory

A file that is copy-protected (copyright protection) cannot be

USB memory may take time to start playback. If there is a

particular file other than audio in the USB memory, it may take

paracidat its often with about in a body literative, it may take considerable time before the file is played back or searched.

The unit can play back "mp3", "wma" or "m4a" file extensions. Do not add the above extensions to a file other than audio data. This non-audio data will not be recognised. The resulting playbac

may contain noise that can damage speakers and/or amplifier

. It is recommended to back up important data on a personal comput

Change SOURCE to something other than USB, then remove the

Do not remove the USB device while playback is in progress

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"MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson."

raumorer its and monison.

"Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e. revenue-generation) real time broadcasting (terrestrial, satellite, cable

and/or any other media), broadcasting/streaming via intern

intranets and/or other networks or in other electronic content

distribution systems, such as pay-audio or audio-on-deman

For details, please visit http://www. mp3lice

ates and/or other countries.

Read the USB memory Owner's Manual thoroughly

Do not touch the terminals by hand or metal.

- Make sure this unit will not be installed in a location subjected to
- High humidity and water

Installation Location

# Correct Handling

INCORRECT

# 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 ngerprints, dust, or soil on the surface of the disc could cause the



# Disc Accessories

CD player to skip. For routine cleaning, wipe the playing surface

the disc surface and improving sound quality. However, most of such accessories can cause the disc to be out of standard specifications and may create operational problems. We ecommend not using these accessories on discs played in Alpine CD players.



About MP3/WMA

international treaty.

### Use discs with MP3/WMA files written in a formation compatible with this unit. For details, see "About MP3/WM/ . ROM data other than audio files contained in a disc will no produce sound when played back.

### Protecting the USB connection terminal . Only a USB memory can be connected to the USB connection terminal on this unit. Correct performance using other USB

- products cannot be guaranteed. A USB hub is not supporte . Do not connect a USB memory over 20 mm wide. Also, avoid . If a USB device is inserted in the unit, it projects out and may b
- a danger while driving. Use a commercially available USB standard extension cable, and connect it in a safe way. 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
- Artist/song name, etc., can be displayed, however characters may not be correctly displayed.

This device may not play back correctly depending on sampling

This device can only display up to 64 characters. (Unicoded f and folder names are up to 32 characters.)

the audio file may not be played back. The tag information may not be correctly displayed, depending

MP3/WMA files are prepared, then written to a CD-R or CD-RW using CD-R writing software. A disc can hold up to 255 files/folders (including Root Folders), and the maximum number of folders is 255.

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

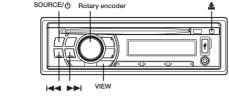
Corresponding File Systems

# This device supports discs formatted with ISO9660 Level 1 or

The maximum nested folder depth is 8 (including the roo

# the specified audio compression format.

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



# Accessory List

- Head unit ..... Power cable... Bolt Stud .. Owner's Manual
- Turning Power On and Off
- Press SOURCE/O to turn on the unit. Press and hold SOURCE/d for at least 2 seconds to turn off the unit.

# Detaching and Attaching the Front Panel

- Detaching 1 Turn off the unit power.
- Press 🛓 (Release) at the upper right side until the
- 3 Grasp the right side of the front panel and pull it out.



. To protect the front panel, place it in the supplied carrying case When detaching the front panel, do not apply excessive force as

# **Getting Started**

Insert the left side of the front panel into the main unit. Align the groove on the front panel with the projections on the main unit.



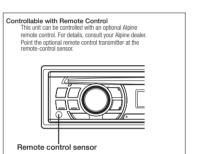
· Before attaching the front panel, make sure that there is no dirt or dust on the connector terminals and no foreign object between the nt panel and the main unit. Attach the front panel carefully, holding the sides of the front panel to

Adjusting Volume Turn the Rotary encoder until the desired sound is Adjusting Volume : 0 ~ 40

# **Setting Time**

- Press and hold VIEW for at least 2 seconds
- 2 Press I◀◀ or ▶►I to adjust the hours while the

- When the hour has been adjusted, press VIEW Press I◀◀ or ▶▶I to adjust the minutes while the
- 5 When the minute has been adjusted, press VIEW.
  - A total of 24 stations can be stored in the p for each band; FM1, FM2, FM3 and AM).



qualizer Presets (Factory's EQ)

6 typical equalizer settings are preset at the factory for a variety of

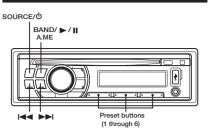
type is displayed.
With each press of the button, the equalizer mode will display

he selected equalizer characteristic.

Press SOUND repeatedly until the desired Factory's EQ

 $FLAT(OFF) \rightarrow ROCK \rightarrow POP \rightarrow JAZZ \rightarrow VOCAL \rightarrow CLUB$ 

# Radio



## Listening to Radio

- Press SOURCE/& to select RADIO mode.
- Press any one of the station preset buttons Press BAND/▶/ | repeatedly until the desired radio (1 through 6) that has your desired radio station in

Press BAND/►/II repeatedly until the desired band

Presetting Stations Automatically

Press and hold A.ME for at least 2 seconds

automatically seek and store 6 strong stations in the selected band. They will be stored into preset buttons 1 to 6

. If no stations are stored, the tuner will return to the original station

automatic memory is in progress. The tuner will

in order of signal strength.

Press BAND/ ▶/ | repeatedly until the desired radi

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

Tuning to Preset Stations

### **Presetting Stations Manually**

 $FM1 \rightarrow FM2 \rightarrow FM3 \rightarrow AM \rightarrow FM1$ 

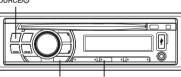
Select the radio band and tune in a desired radio station you wish to store in the preset memor

Press I◀◀ or ▶▶I to tune in the desired station Press and hold I or I for at least 0.5 seconds to see station.

- preset buttons (1 through 6) into which you wish to store the station.
- The display shows the band, preset number and station
- the current station will be cleared and replaced with the new statio

# Other Functions

# source/o



## 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  $\frac{1}{2}$ MP3/WMA files.

Press VIEW. The display will change every time the button is pressed. To scroll text, press 3(SCROLL)

### The display in Radio mode: FREQUENCY → CLOCK → FREQUENCY

The display in CD mode: TRACK NO./ELAPSED TIME  $\,
ightarrow$  TEXT (DISC NAME)\* $^1$   $\,
ightarrow$  TEX

## The display in MP3/WMA mode: FOLDER NO./FILE NO. → ELAPSED TIME → FOLDER NAME

 $\rightarrow$  FILE NAME  $\rightarrow$  ALBUM NAME \*  $^2$   $\rightarrow$  SONG NAME \*  $^2$ /ARTI: NAME \*  $^2$   $\rightarrow$  CLOCK  $\rightarrow$  FOLDER NO./FILE NO. The display in AUX mode:

# $\mathsf{AUX}\:\mathsf{IN}\to\mathsf{CLOCK}\:\to\mathsf{AUX}\:\mathsf{IN}$

Displayed during playback of a disc with CD text \* <sup>2</sup> ID3 tag/WMA tag If an MP3/WMA file contains ID3 tag/WMA tag information, the ID3 tag/WMA tag information is displayed (e.g., song namartist name, and album name). All other tag data is ignored.

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

# Displaying Time

Press VIEW repeatedly until the time is displayed. For details, see "Displaying the Text".

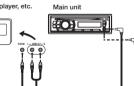
 Selecting any radio or CD function while in the clock priority mod will interrupt the time display momentarily. The function selected will be displayed for about 5 seconds before the time returns to th

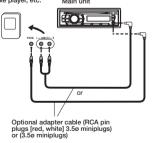
## Using the Front AUX Input Terminal

Connect a portable music player, etc. by simply connecting it to the RCA to 3.5ø mini-phono plug or 3.5ø to 3.5ø mini phono plug).

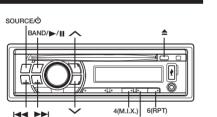
Press SOURCE/也, and select the AUX mode to listen to

the portable device.  $RADIO \rightarrow CD^{+1} \rightarrow USB^{+2} \rightarrow AUX \rightarrow RADIO$ 





# CD/MP3/WMA



Note
\* CDE-110UB does not support WMA.

# Playback

1 Insert a disc with the label side facing up.



 ${\rm RADIO} \rightarrow {\rm CD}^{\,\star\, 1} \rightarrow {\rm USB}^{\,\star\, 2} \rightarrow {\rm AUX} \rightarrow {\rm RADIO}$ Displayed only when a disc has been inserted. Displayed only when USB memory is connected

The mode will change every time the button is pressed

2 While playing back MP3/WMA, press ∧ or ∨

switch to the DISC mode.

Press I◀◀ or ▶▶I to select the desired track (file). Returning to the beginning of the current track (file)

Fast backward:

Press and hold I◄◀.

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

Fast forward:

Press and hold

## Pressing BAND/ ►/ II again will resume play

To eject the disc, press ▲.

The CD-player can play discs containing audio data, MP3 data,

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

Repeat Play

Press 6(RPT) again to cancel.

Press and hold 6(RPT) again to cancel.

The folder number and file number will be displayed as described below. 003-002 ++++ Folder number File number display

• Press VIEW to switch the display. See "Displaying the Text" for

The " RPT" indicator lights up, and the track (file) will be

Folder Repeat Play (MP3/WMA)

Press and hold 6(RPT) for at least 2 seconds.

The " ☐ FOLDER" and " ☐ RPT" indicators appear in the display, and only files in the current folder are repeatedly played back.

Press 6(RPT) to repeatedly play back the current track.

### To pause playback, press BAND/ ► / II. WMA)

Press and hold 4(M.I.X.) for at least 2 seconds. The " - FOLDER" and " - M.I.X." indicators appear in the Do not remove a CD during its eject cycle. Do not load more than

# The " DISC IN" indicator lights up when a disc is inserted.

mat files that are protected by DRM (Digital Rights The track display for MP3/WMA data playback is the file

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

Press 4(M.I.X.) in the play mode. The "  $\hfill \mbox{\it CM}$  M.I.X." indicator lights up, and the tracks (files) on the disc will be played back in random sequence. Press 4(M.I.X.) again to cancel.

# Folder M.I.X. (Random Play) (MP3/

Scanning Programs

Press 5(SCAN) again to cancel.

Press and hold 5(SCAN) again to cancel.

Press 5(SCAN) to activate the scan mode.

The first 10 seconds of each track (file) will be played back

Folder Scanning Programs (MP3/WMA)

Press and hold 5(SCAN) for at least 2 seconds

From the next folder, the first 10 seconds of the first file in each folder is played back in sequence.

Standardization Organization and MPEG which is a joint activity institution of the IEC. MP3 files contain compressed audio data. MP3 encoding is apable of compressing audio data at extremely high ratios ducing the size of music files to as much as one-tenth the ginal size. This is achieved while still maintaining near CD with The MD2 feet and the size of the size o Press and hold 4(M.I.X.) again to cancel.

# What is WMA?

Audio data is compressed using software with MP3/WM codecs. For details on creating MP3/WMA files, refer to the ser's manual for that software. MP3/WMA files that are playable on this device have the file extensions "mp3" / "wma" Files with no extension cannot be played back (WMA ver. 7-9 are supported). Protecte

WMA, or "Windows Media™ Audio," is compressed audio da

sound with small file sizes.

files are not supported.

WMA is similar to MP3 audio data and can achieve CD quality

except for private use, duplicating audio data (including

MP3/WMA data) or distributing, transferring, or copying it, whether for free or for a fee, without permission of the coloider is strictly prohibited by the Copyright Act and by

MP3, whose official name is "MPEG-1 Audio Layer 3," is a

## Supported playback sampling rates and bit rates

Order of files Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, Bit rates 8 - 320 kbps

Sampling rates: 48 kHz, 44.1 kHz, 32 kHz

ID3 tags/WMA tags This device supports ID3 tag and WMA tag.

If tag data is in an MP3/WMA file, this device can display the title (track title), artist name, and album name ID3 tag/WMA

For non-supported characters and symbols an asterisk is spiayed. information contains characters other than ID3 tag information

Producing MP3/WMA discs

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

# Under the ISO9660 standard, there are some restrictions to

directory). The number of characters for a folder/file name i

the file names, folder names, etc., are not displayed correct

This device supports Multi-Session.

This device cannot correctly play back discs recorded with

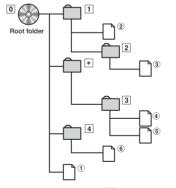
Apple HFS, UDF 1.50, Mixed Mode CD and Enhanced CD (CD

Valid characters for folder/file names are letters A-Z, a-z, numbers 0-9 and symbols. This device also can play back discs in Joliet, Romeo, etc., and

Track At Once or packet writing.

Formats supported

is expected. Verify the writing order in the software's documentation. The playback order of the folders and files is as



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

Terminology

# Bit rate This is the "sound" compression rate specified for encoding. The

so the sound is sampled (recorded) 44,100 times per second. The higher the sampling rate, the higher the sound quality, but also the

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.

Rotary encoder (AUDIO)

## (Between Front and Rear) 1 Press Rotary encoder (AUDIO) repeatedly to choose the desired mode.

### Balance : L15 ~ R15 Fader : R15 ~ F15 If no operation is performed for 5 seconds after selecting the BASS. TREBLE, BALANCE or FADER mode, the unit automatically retur

## higher the bit rate, the higher the sound quality, but also the larger obtained in each mode.

Converting music CDs, WAVE (AIFF) files, and other sound files into

# Sound Setting

# Adjusting Bass Level/Treble Level/ Balance (Between Left and Right)/Fader

Each press changes the mode as follows BASS → TREBLE → BALANCE → FADER → Return to norma

# 2 Turn the Rotary encoder until the desired sound is



# \* CDE-110UB does not support WMA.

Displayed only when a disc has been inserted. Displayed only when USB memory is connected

Portable player, etc. Main unit

About "Text"

Some characters may not be displayed correctly with this device,

depending on the character type.

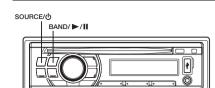
• "NO TEXT" is displayed if text information cannot be displayed on

The text or tag information may not be correctly displayed.

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# **USB** memory (Optional



## Controlling USB memory (Optional)

memory connected, playback of files on the device is controlled from this unit.

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

## \* CDE-110UB does not support WMA.

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

If you connect a USB memory containing MP3/WMA, you can

1 Press SOURCE/(b) to switch to the USB AUDIO

 ${\rm RADIO} \rightarrow {\rm CD^{\star}}^{1} \rightarrow {\rm USB^{\star}}^{2} \rightarrow {\rm AUX} \rightarrow {\rm RADIO}$ 

# \* 1 Displayed only when a disc has been inserted.

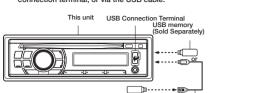
### 2 To pause playback, press BAND/►/Ⅱ. Pressing BAND/►/ II again will resume the pla

- The root folder is displayed as "ROOT" in the Folder Name Search
- controls and modes as playback of CDs containing MP3/WMA. For details, refer to "CD/MP3/WMA".
- source or set to pause.

  The playback time may not be correctly displayed when a VBR

## **USB Memory Connection (Optional)** onnect USB memory

Open the cover of the USB connection terminal. Connect the USB memory directly to the USB



USB memory (Sold Separately) Cable (Sold Separately)

# Remove USB memory

## Carefully, pull out the USB memory from the USB

# cable or the USB connection terminal

- Close the cover of the USB connection terminal.
- Change to a source other than the USB memory mode, then remove the USB memory. If the USB memory is removed in the USB memor
- mode, data may be damaged.

  When removing USB memony, bull it out straight.

  If sound is not output or USB memony is not recognised even when USB memory is connected, remove USB memory once, then connect
- Route the USB cable away from other cables, etc. After removing the USB memory, close the cover of the USB
- The mode will change every time the button is pressed.

### About MP3/WMA File of USB Memory

## Playing back MP3/WMA

- This unit plays back files on a USB memory device with the same
- ying back MP3/WMA MP3/WMA libes are prepared, then stored to a USB memory. This unit can recognise at least 999 folders (including root folder) and 255 files per folder stored in USB memory. Playback may not be performed if a USB memory exceeds the limitations described above.

  Do not make a file's playback time more than 1,000 minutes. · Before disconnecting USB memory, be sure to change to another

### Corresponding File Systems This device supports FAT 12/16/32 for USB memory device.

# 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.
- Check the fuse of the unit; replace with the proper value if

## 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.
- 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 The antenna may not be the proper length. - Make sure the antenna is fully extended; if broken, replace the

- Proadcast 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

### Change the disc. The pick-up lens is dirty. - Do not use a commercially available lens cleaner disc. Consult your nearest Alpine dealer.

The disc is very dirty.

Clean the disc.

- 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).
- 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

### MP3, WMA is not played back. Writing error occurred. The MP3/WMA format is not - Make sure the MP3/WMA has been written in a

# supported format. Refer to "About MP3/WMA", then

## Indication for CD Player

The disc has scratches.

CD ERR3

- Consult your Alpine dealer

- Press the **b**utton and eject the CD

Press the button and eject the CD

If not ejecting, consult your Alpine dealer.

If not ejecting, consult your Alpine dealer.

CD ERR1

## CD playback sound is wavering. Allow enough time for the condensation to evaporate (about

- Allow the vehicle's interior (or trunk) temperature to cool

CD Player not functioning.

- CD ERR2
- CD insertion not possible A CD is already in the CD player. - Eject the CD and remove it. Make sure the CD is being inserted following instructions in
- 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
  - CD ERR4
  - A sampling rate/bit rate not supported by the unit is used. - Use a sampling rate/bit rate that is supported by the unit.

A copy-protected WMA file was played back.

## CD ERR5

- You can only play back non-copy-protected files

# Indication for USB memory

## USB ERR1

- No song (file) is stored in the USB memory
- · A USB device that is not supported by the unit is connected. - Connect a USB device that is supported by the unit.

# USB ERR2

 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. Disconnect the USB memory device and turn off the power and turn on Connect another USB memory.

## USB ERR3

Turn the ignition key off, and then set to ON again.

# USB ERR4

A sampling rate/bit rate not supported by the unit is used.
 Use a sampling rate/bit rate that is supported by the unit.

### USB ERR5 A copy-protected WMA file was played back.

Test volage 14.4 V, Negative Less than 2.1 A (CD mode;

50 W × 4 (at 1 kHz) Power Output 18 W x 4 (1kHz, 1 %, 4 4-8 ohms

Pre-Output Voltage\* Pre-Output Impedance\*  $178\times50\times160~\text{mm}$ Dimensions (W  $\times$  H  $\times$  D)

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

### **⚠** Caution oughly for proper use. HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS.

**Installation and Connections** 

### Before installing or connecting the unit, please read the following and "Operating Instructions" of this manual

### **∕!\ Warning** MAKE THE CORRECT CONNECTIONS Failure to make the proper connections may result in fire or product

# USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND. (Check with your dealer if you are not sure.) Failure to do so may

### BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL. Failure to do so may result in electric shock or injury due to

### PINCHED BY A SHARP METAL EDGE. electrical shorts. Route the cables and wiring away from moving parts (like the seat DO NOT ALLOW CABLES TO BECOME ENTANGLED IN rails) or sharp or pointed edges. This will prevent crimping an 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. SURROUNDING OBJECTS.

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

### DO NOT SPLICE INTO ELECTRICAL CABLES. Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.

DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES. When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or 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 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

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

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

# Please record the serial number of your unit in the space provided below and keep it as a permanent record. The serial number or the

SERIAL NUMBER:

INSTALLATION DATE: INSTALLATION TECHNICIAN: \_ PLACE OF PURCHASE:

each other or to the vehicle body.

doubt, consult your Alpine dealer.

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.

SECURELY.

JSE SPECIFIED ACCESSORY PARTS AND INSTALL THEM

Be sure to use only the specified accessory parts. Use of other than

ARRANGE THE WIRING SO IT IS NOT CRIMPED OR

DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR

Be sure to disconnect the cable from the (-) battery post before installing your CDE-110/110C/110E/110UB. This will reduce any chance of damage to the unit in case of a short-circuit.

. Be sure to connect the colour coded leads according to the

diagram. Incorrect connections may cause the unit to malfunction or damage to the vehicle's electrical system

. When making connections to the vehicle's electrical system, be

computer). Do not tap into these leads to provide power for this

unit. When connecting the CDE-110/110C/110E/110UB to the fus

110C/110E/110UB has the appropriate amperage. Failure to do

so may result in damage to the unit and/or the vehicle. When in

The CDE-110/110C/110E/110UB 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

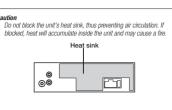
Be sure to connect the speaker (–) leads to the speaker (–)

Avoid installing the unit in locations with high incidence of

**Precautions** 

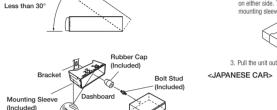
terminal. Never connect left and right channel speaker cables to

# Installation

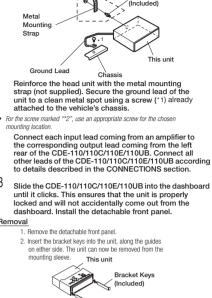




/hen you install this unit in your car, do not remove the might press too hard and warp the metal plate that holds it in

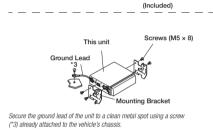


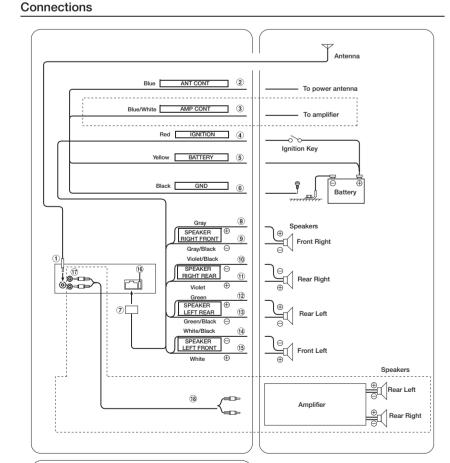
Remove the mounting sleeve from the main unit (see

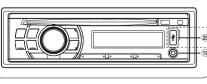


3. Pull the unit out, keeping it unlocked as you do so

**\*** 







- Antenna Receptacle 2 ANT CONT Lead (Blue)
- if applicable. This lead should be used only for controlling the vehicle's power
- Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is

- 3 AMP CONT Lead (Blue/White) Connect this lead to the remote turn-on lead of your amplifier or signal processor.
- 6 Ground Lead (Black)
- Power Supply Connector
- 10 Right Rear (-) Speaker Output Lead (Violet/Black) Right Rear (+) Speaker Output Lead (Violet)

- 16 Fuse Holder (15A)
- 4 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 (+)12\times only when the ignition is turned on or in the accessory
- Battery Lead (Yellow) t this lead to the positive (+) post of the vehicle's
- 8 Right Front (+) Speaker Output Lead (Gray) 9 Right Front (-) Speaker Output Lead (Gray/Black)

- - 19 Front AUX Input Terminal

Connect USB memory (sold separately)

To prevent external noise from entering the audio system.

• If you add an optional noise suppressor, connect it as far away from the unit as possible. Your Alpine dealer carries various noise you do do in opinion in loss adjoined so it is a fair and in the fair as possible. Four Alpine dealer knows best about noise prevention measures so consult your dealer for further information.

 Your Alpine dealer knows best about noise prevention measures so consult your dealer for further information.

13

15 Left Front (+) Speaker Output Lead (White)

RED is right and WHITE is left. (8) RCA Extension Cable (sold separately)

> available converter cable. 20 USB Connection Terminal

17 Rear Output RCA Connectors

. Locate the unit and route the leads at least 10 cm away from the car harness. Keep the battery power leads as far away from other leads as possible.
 Connect the ground lead securely to a bare metal spot (remove any paint, dirt or grease if necessary) of the car chassis.

12 Left Rear (+) Speaker Output Lead (Green) (Green/Black) Left Rear (-) Speaker Output Lead (Green/Black) 14 Left Front (-) Speaker Output Lead (White/Black)

This terminal allows for input of audio from an external device (such as a portable player), using a commerciall

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Specifications

87.5-108.0 MHz / 87.7-107.9 MHz

531-1,602 kHz / 530-1,710 kHz

28 dB/µV (S/N 20 dB)

1 bit DAC System

Semiconductor lase

20-20,000 Hz (±1 dB)

0.01% (at 1 kHz)

1.1/2.0 Full Speed

85 dB

500 mA

2.0 V

3-beam Photo Detector Pick

5 dB/µV (S/N 30 dB)

30-15,000 Hz (±3 dB)

30 dB

62 dB

(CDE-110C/110E/110UB) / (CDE-110)

FM RADIO SECTION

Tuning Range

Usable Sensitivity

Frequency Response

Stereo Separation

IF Rejection Ratio

Image Rejection Ratio

Signal-to-Noise Ratio

AM RADIO SECTION

Tuning Range

Usable Sensitivity

Sampling Range

DA Converter

Light Source

Laser Power

Frequency Response

Signal-to-Noise Ratio

Channel Separation

USB requirements

Maximum Supply Compatibility

USB SECTION

Front AUX input

Input Impedance

Allowable external input

Total Harmonic Distortion

Pick-up Type

CD PLAYER SECTION

14

16

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