

Precautions



Warning

This label is intended to alert the user to the presence of important operating instructions.

Failure to heed the instructions will result severe injury or death.

DO NOT DISASSEMBLE OR ALTER

Attempts to disassemble or alter may lead to an accident, fire and/or electric shock.

KEEP SMALL ARTICLES OUT OF THE REACH OF CHILDREN

Store small articles (batteries, screws, etc.) in places not accessible to children. If swallowed, consult a physician immediately.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES

Replace fuses only with fuses of the same ampere rating. Failure to do so may result in a fire and/or damage to the vehicle.

HALT USE IMMEDIATELY IF A PROBLEM APPEARS

When problems appear, stop using the system immediately and contact the dealer from whom you purchased the equipment. Some problems which may warrant immediate attention include a lack of sound, noxious odors or smoke being emitted from the unit, or foreign objects dropped inside the unit.

DO NOT OPERATE THE REMOTE CONTROL WHILE DRIVING

Do not change settings while driving. If operation requiring a prolonged view of the display is required, stop the vehicle in a safe location before attempting operation.



Caution

This label is intended to alert the user to the presence of important operating instructions.

Failure to heed the instructions can result injury or material damage.

DO NOT BLOCK VENTS OR RADIATOR PANELS

Do not block air vents or heat discharge plates. Blocking them will cause heat to build up inside and may result in fire.

DO NOT RAISE THE VOLUME EXCESSIVELY

Keep the volume at a level where you can still hear outside noises while driving. Driving while unable to hear outside sounds could cause an accident.

DO NOT USE THIS EQUIPMENT OUTSIDE THE VEHICLE

Do not use this equipment for purposes other than those listed for a vehicle. Failure to do so may result in an electric shock or an injury.

KEEP FOREIGN OBJECTS OUT OF THE CD OR CASSETTE COMPARTMENT SLOT

Keep any foreign objects, including fingers, out of the CD or cassette compartment slot.

STOP THE VEHICLE BEFORE CARRYING OUT ANY OPERATION THAT COULD INTERFERE WITH YOUR DRIVING

If loading or unloading a CD or cassette interferes with your driving, stop the vehicle in a safe location before attempting operation.

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

Do not mix new batteries with old batteries and do not replace with other than specified batteries. When inserting the batteries, be sure to observe proper polarity (+ and -) as instructed. Battery rupture or chemical leakage can cause an injury or equipment malfunction.

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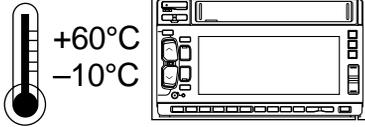
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- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

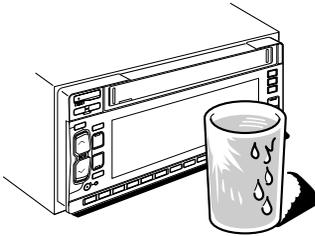


Precautions



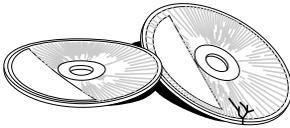
Thermal Protection Circuit

Be sure the temperature inside the vehicle is between +60°C (+140°F) and -10°C (+14°F) before attempting to play a disc. If the temperature is over +60°C (+140°F), the protection circuit functions to stop the CD player, and "HI-TEMP" is displayed.



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.

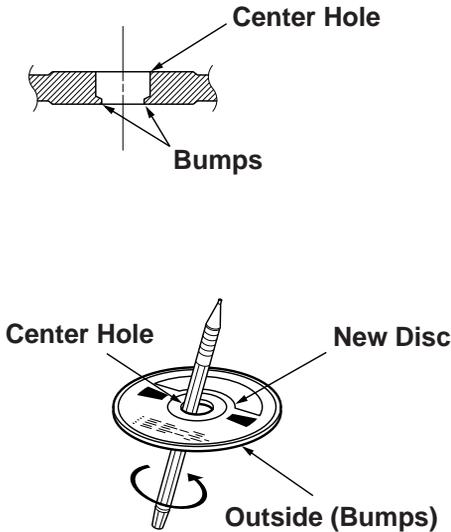
Irregular Shaped Discs

Make sure the discs you use in this unit do not have any irregularities. The outer and inner edges should be round and smooth. Use of irregularly shaped discs may cause damage to the mechanism.

Precautions

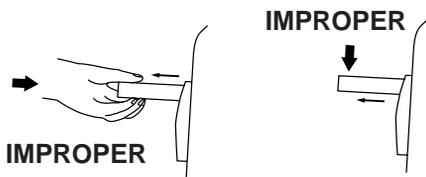
New Discs

As a protective measure, the CD player will automatically eject discs that have either been inserted incorrectly or have irregular surfaces. If a new disc is ejected immediately after loading, use your finger to feel around the outer edge of the CD and its center hole. 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 ball-point pen or other such instrument, then insert the disc again.



Handling Magazine

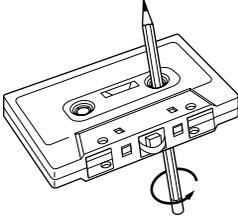
When discs are being exchanged in the 3DA-W882E, the magazine is pushed out from the changer. While this operation is in progress, do not try to pull out the magazine or stop its movement in any way, as this could cause damage to the mechanism. In addition, be aware of the changer's operation so it will not interfere with your driving. For example, before changing gears, check the position of the magazine so as not to hit it while it is changing discs.



CAUTION:

Do not insert anything other than magazine into insertion slot.

Precautions



Tape Slack

Check and make sure any slack in the tape is taken up before inserting the tape into the unit. A loose tape can get caught in the mechanism and cause damage to the unit and the tape itself. Tighten the tape by inserting a pencil or a similar instrument into the spindle hole and turn until all the slack has been taken up.

Excessively Thin Tape

C-120 type cassette tapes are not recommended for use in automobile tape players.

Precision Tape Mechanism

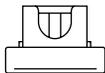
Prevent any foreign objects from entering the cassette opening as the precision mechanism and tape head may be damaged. Never play dirty or dusty tapes – they can damage the tape head.

Tape Head Cleaning

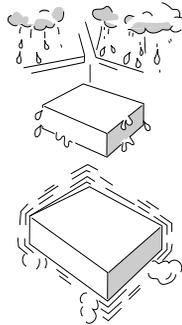
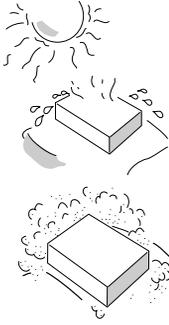
Periodic cleaning (approximately every 20 hours of use) of the tape head with a wet type head-cleaning cassette tape (available at audio stores) is necessary for best performance.

Fuse Replacement

When replacing the fuse(s), the replacement must be of the same amperage as shown on the fuse holder. If the fuse blows more than once, carefully check all electrical connections for shorted circuitry. Also have your vehicle's voltage regulator checked.



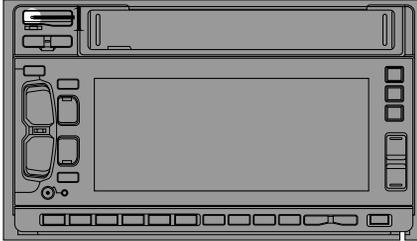
Precautions



Installation Location

Make sure the 3DA-W882E player/receiver will not be exposed to:

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

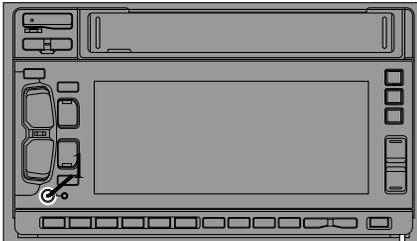


Initial System Start-Up

1

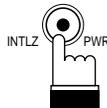


Immediately after installing or applying power to the unit, it should be initialized. At the upper-left corner of the front panel is a small button. Using a pencil or other pointed object, press this reset button to complete the initialization procedure.



Turning Power On and Off

1



Press the PWR button to turn on the unit.

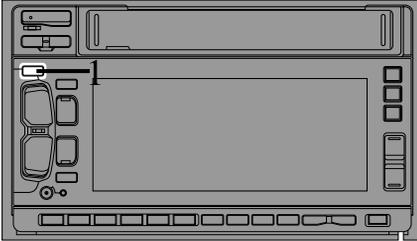
Note: The unit can be turned on by pressing any other button except the eject (▲), O/C and CLK buttons.

The volume level gradually increases to the previous level you were listening to before the unit was turned off.

Press the PWR button again to turn off the unit.



Basic Operation English

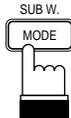


Subwoofer On and Off

This unit is not equipped with a low pass filter. Turn on the Subwoofer Output when an amplifier having the built-in filter is connected to drive your subwoofer.



1



SUBW ON



SUBW OFF

Press and hold the SUB W. button for at least **3** seconds.

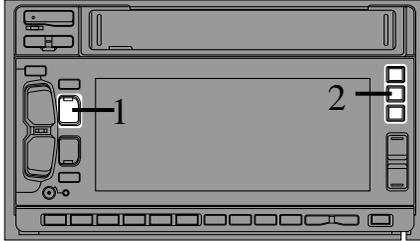
With each press, Subwoofer is toggled On or Off.

Notes:

- Initial mode is "SUBW OFF."
- Leave the "SUBW OFF" as long as the Subwoofer output is not being used.
- When the subwoofer is turned on, the subwoofer output level can be adjusted. For more details, refer to the Adjusting Volume/Balance/Fader section on page 14.



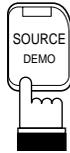
Basic Operation English



Demonstration

Equalizer/surround/BBE demonstration functions are provided in this unit.

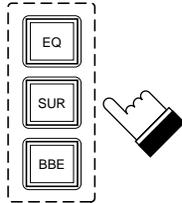
1



Press and hold the DEMO button for at least 2 seconds to activate the DEMO mode. The unit automatically performs the following operations.

- 1 Equalizer scanning operation (set by the manufacturer).
- 2 Surround scanning operation (set by the manufacturer).
- 3 BBE scanning operation.
- 4 Operations 1 – 3 are carried out repeatedly.

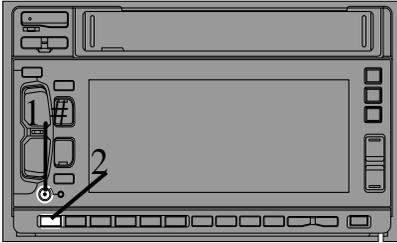
2



To end the DEMO mode, press one of EQ, SUR, and BBE buttons.



Basic Operation English



Sound Guide Function

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

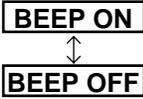
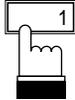


1



Press and hold the PWR button for more than 3 seconds.

2



Press the Preset 1 button and the display shows "BEEP ON."
Pressing the button again turns the Sound Guide function off. "BEEP OFF" will be displayed and no tones will be heard.

3



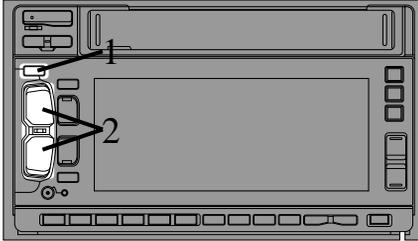
Press the PWR button to activate the normal mode.

Note: The caution beeps for disc change and eject operations of the built-in 3D Shuttle, or for opening and closing of the movable display, will be audible regardless of the BEEP ON or OFF display.



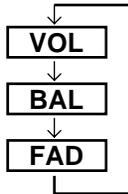
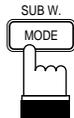
Basic Operation

English



Adjusting Volume/Balance/Fader

1

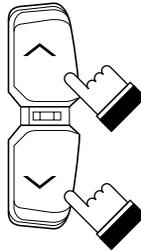


Press and release the MODE button repeatedly to choose the desired mode.

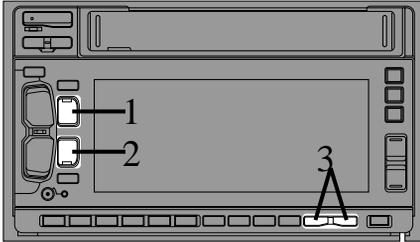
Notes:

- If the or button is not pressed in 5 seconds after selecting the BAL and FAD modes, the unit automatically returns to the VOL mode.
- With the Subwoofer mode turned on, Subwoofer output level can be adjusted.

2

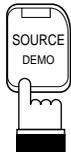


Press the button or until the desired sound is obtained in each mode.



Manual Tuning

1



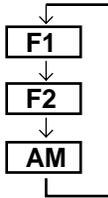
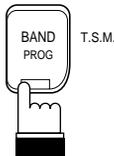
Press the SOURCE button to select the radio mode.



→ TUNER → TAPE → 3D → CD SHUTTLE *

(* Only with the CD shuttle connected.)

2

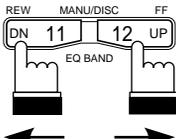


Press the BAND button repeatedly until the desired radio band is displayed.

3

F1 90.10

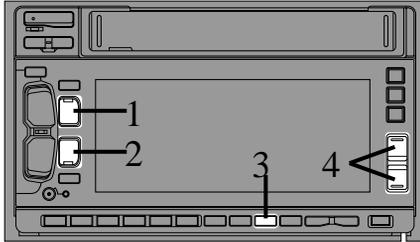
Press the [or] button to move downward or upward one step respectively until the desired station frequency is displayed.



Downward

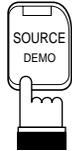
Upward

Note: The "ST" indicator in the display shows that a stereo broadcast is being received.



Automatic Seek Tuning

1

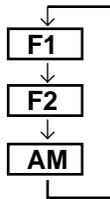
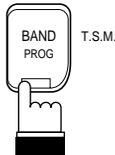


Press the SOURCE button to select the mode.

→ TUNER → TAPE → 3D → CD SHUTTLE *

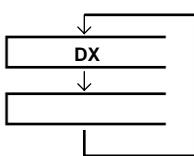
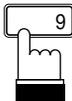
(* Only with the CD shuttle connected.)

2



Press the BAND button repeatedly until the desired radio band is displayed.

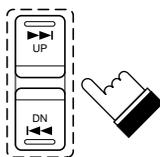
3



Press the 9 (TUNE) button to illuminate the DX indicator in the display. With the DX mode activated, both strong and weak stations will be tuned automatically.

Press again to return to the local mode. The DX indicator will turn off and only strong stations will be tuned.

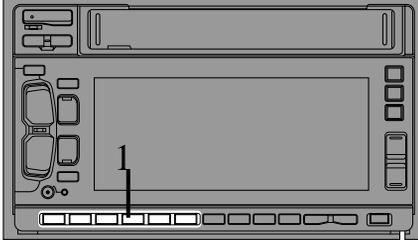
4



F1 90.10

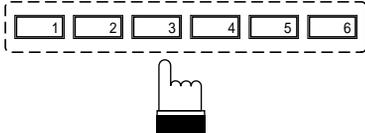
Press the DN (◀◀) or UP (▶▶) button to automatically seek a station downward or upward respectively.

The unit will stop at the next station it finds. Press the same button again to seek next station.



Manual Storing of Station Presets

1



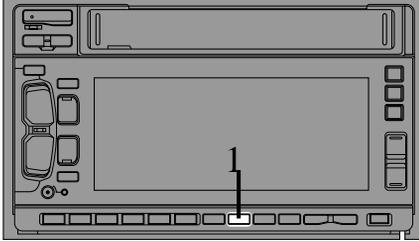
1. Tune in the desired radio station you wish to store in the preset memory.
2. Press and hold any one of the preset buttons (1 through 6) for at least 2 seconds. The frequency display will begin to blink. 
3. Press the preset button into which you wish to store the station while the display is blinking (within 5 seconds).
The display stops blinking once the station has been memorized. The display shows the band, preset No. with a triangle (▲) and the station frequency memorized.
4. Repeat the procedure to store 5 other stations onto the same band.
To use this procedure for other bands, simply select the band desired and follow steps 1 – 3 above.

A total of 24 stations can be stored in the preset memory (6 stations for each band; FM1, FM2, AM and D.A.P.).

Note: 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.

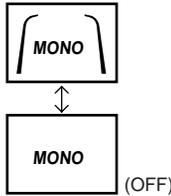
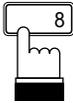


Radio Operation English



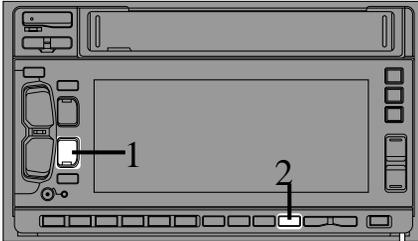
Mono/Stereo Switching

1



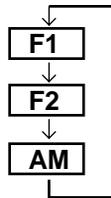
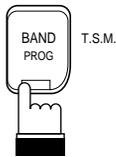
"ST" indicator appears when a stereo station is tuned in.

Press the 8 (MONO) button to switch from stereo to monaural FM reception. This will help in reducing the noise of weak FM Stereo broadcasts. In the monaural mode, the "ST" indicator turns off. Press the 8 (MONO) button again to return to the stereo mode.



Automatic Memory of Station Presets

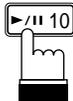
1

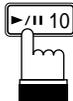


Press the BAND button repeatedly until the desired radio band is displayed.



2



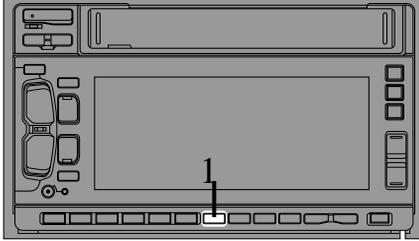
Press the  (A. MEMO) button. The frequency on the display continues to change while the automatic memory is in progress. The tuner will automatically seek and store 6 strong stations in the selected band in order of signal strength.

When the automatic memory has been completed, the tuner goes to the station stored in the preset location No. 1.

Note: If no stations are stored, the tuner will return to the original station you were listening to before the auto memory procedure began.



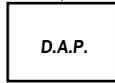
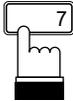
Radio Operation English



Storing into Direct Access Preset (D.A.P.) Band

A combination of radio stations from any band, AM and FM (up to 6 stations) can be manually preset onto the D.A.P. band.

1



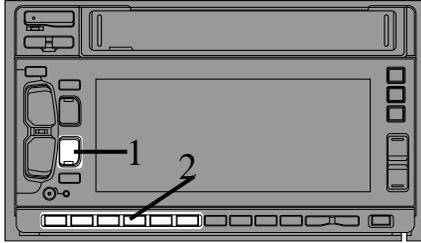
Press the 7 (D.A.P.) button to activate the D.A.P. mode.

Press the BAND button to select FM or AM. The selected band will be displayed. To memorize stations onto the D.A.P. band, follow the steps for the automatic or Manual Storing of Station Presets section above.

To cancel the D.A.P. mode, press the 7 (D.A.P.) button.

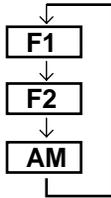
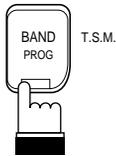


Radio Operation English



Tuning to Preset Stations

1



Press the BAND button repeatedly until the desired band is displayed.



Press the 7 (D.A.P.) button when the station desired was stored using the D.A.P. function.

2

2 F2 **90.10**

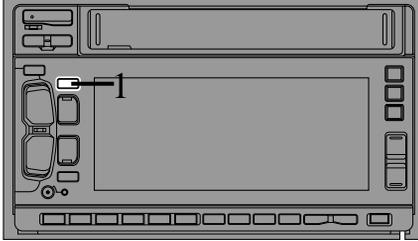


Press the station preset button (1 through 6) that has your desired radio station in memory. The display shows the band, preset number with a triangle and frequency of the station selected.



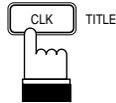
Radio Operation

English

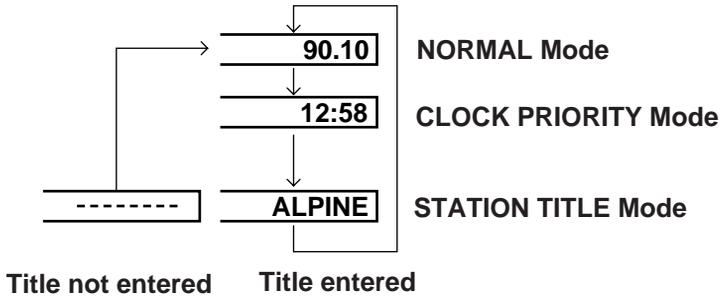


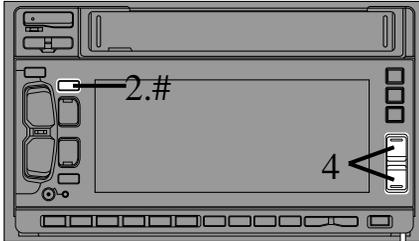
Displaying Station Titles

1



If a title has been entered for the selected station, it can be displayed in place of the frequency. The display will toggle between the frequency and title display with each press of the TITLE button.
(Refer to page 23 to title stations.)





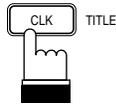
Titling Stations

1

Tune in a station to be titled.

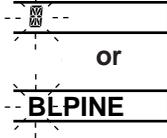
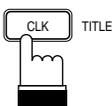


2



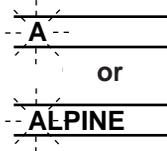
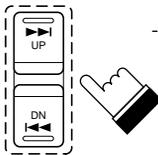
Press the TITLE button twice (once if you are already in the Clock Priority mode) to select the preset station titling mode. "-----" will appear in the display. (Refer to page 22).

3



Press and hold the TITLE button for at least 3 seconds. The first digit will blink.

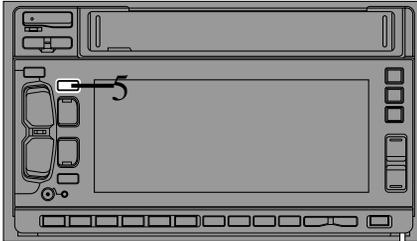
4



Press the DN (◀◀) or UP (▶▶) button to select the desired letter/numeral/symbol available for naming ("A" for example).

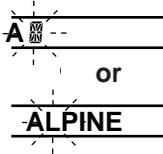
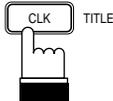


Radio Operation English



Titling Stations (Continued)

5



Press the TITLE button to store the first character. The first character will stop blinking and the display will automatically advance to the next character. When that character begins to blink, you may choose the next letter or symbol of your title.

6

Repeat the steps **4** and **5** above to complete the titling. All 8 character positions should be filled. Use spaces where characters are not needed (for example at the end of a 5 character title, use 3 spaces to complete the title).

7

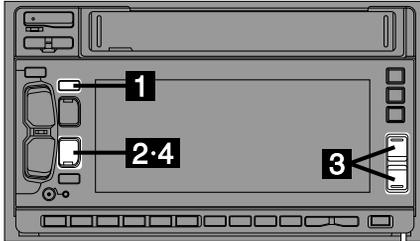
After the last character has been entered (character number 8), the title will automatically be stored.

Notes:

- When you want to erase a title, enter the " " symbol into all spaces. When the title memory is used up, the display shows "FULL DATA." Storing new station titles after the "FULL DATA" message has been displayed, causes previously stored titles to be erased. The new station titles will replace the old titles beginning with the first one created.
- A total of 24 titles for AM and FM stations may be entered.

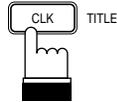


Radio Operation English



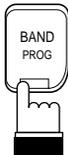
Searching Titled Stations (Title Search Menu)

1



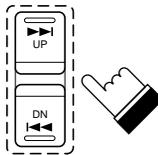
Press the TITLE button to activate the Title Display mode.

2



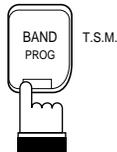
Press and hold the T.S.M. button for at least 2 seconds while the station title is displayed. The titled station in memory blinks in the display.

3



Press the DN (◀◀) or UP (▶▶) button to select the desired station title.

4



Press the T.S.M. button to play the selected station.
The unit will automatically search the station and will play that station.



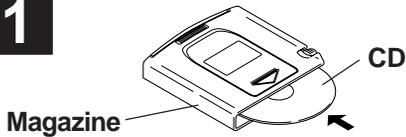


CD Operation

English

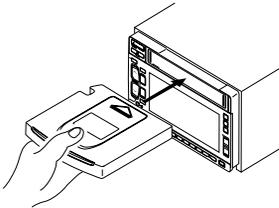
Preparation for Playback

1



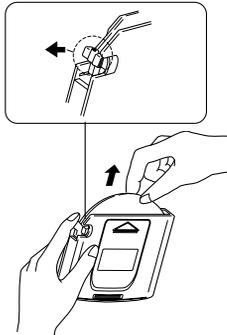
Insert your discs (up to 3) into the disc slots of the CD magazine with the label side facing up.

2



Insert the CD magazine all the way into the 3DA-W882E with the arrow pointing toward the unit as shown here.

3



To remove discs from the CD magazine, first find the lever corresponding to the CD you would like to remove. Push the lever away from the magazine. The disc will come halfway out from the CD magazine. Carefully grasp the edge of the disc as shown and remove.

Note: Hold the disc so you will not leave fingerprints on the disc surface (refer to "Disc Care" section).

Notes:

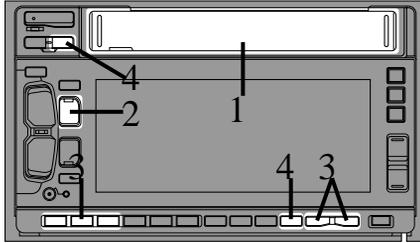
1. Do not insert heat-deformed discs into the CD magazine.
2. Do not forcibly remove the CD magazine by hand.
3. Only one disc can be inserted in each housing slot. Attempting to insert another disc may cause damage.
4. Only compact discs containing the mark shown can be used.
5. 3-inch (8cm) CD's cannot be used.

COMPACT
disc
DIGITAL AUDIO



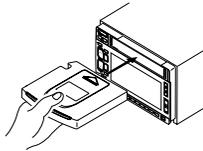
CD Operation

English



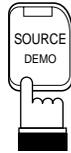
Normal Play and Pause

1



Insert the magazine all the way as instructed on top of the magazine.

2



Press the SOURCE button repeatedly to select the 3D mode.

→ TUNER → TAPE → 3D → CD SHUTTLE *

(* Only with the CD shuttle connected.)

3

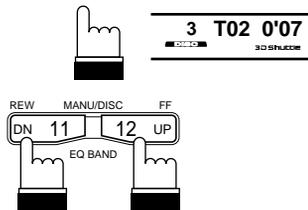


Press one of the preset number buttons (1 - 3) to select a disc set in the magazine. The disc can also be selected with the disc select switch.

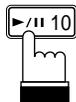
The selected disc number is displayed and the playback starts.

The preset number switches 1 - 3 are corresponding to the disc No. 1 - 3.

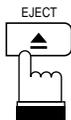
or



4



Press the button to pause the CD play. To resume playback, press the button again.



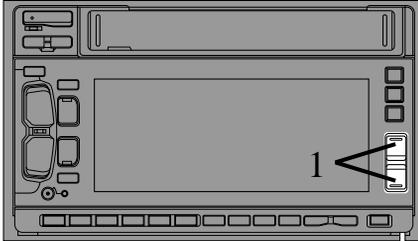
Press the eject () button to eject the magazine.





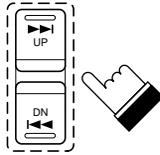
CD Operation

English

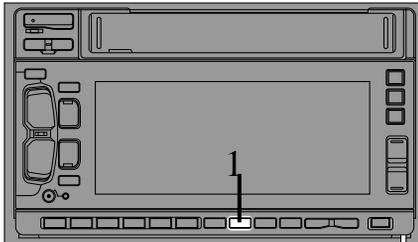


Fast Forward and Backward

1

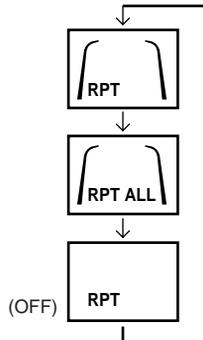
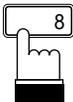


Press and hold the DN (◀◀) or UP (▶▶) button to quickly move backward or forward until you reach the desired section of the track.



Repeat Play

1



Press the 8 (RPT) button to play back repeatedly the track being played. The unit enters the Repeat mode and the track will be played repeatedly.

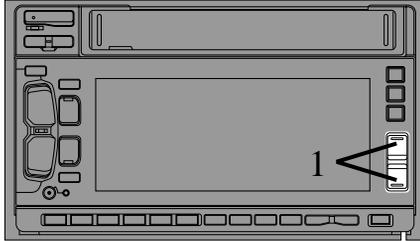
Press the 8 (RPT) button again to deactivate the repeat play.

Note: If the RPT ALL mode is selected, the unit repeatedly plays back all tracks on the disc selected.



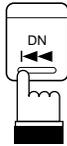
CD Operation

English

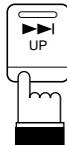


Music Sensor (Skip)

1



Momentarily press the DN (◀◀) button once to return to the beginning of the current track. If you wish to access a track further back, repeatedly press until you reach the desired track.



Press the UP (▶▶) button once to advance to the beginning of the next track. If you wish to access a track further ahead, press repeatedly until the desired track is reached. (The example shows the Music Sensor operation starting from track No. 4.)

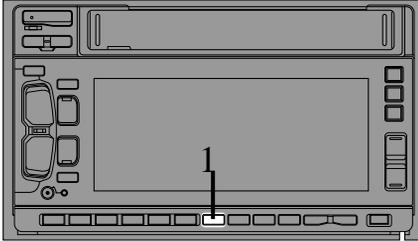
Note: The music sensor feature is functional in the play or pause mode.





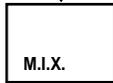
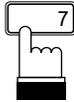
CD Operation

English



M.I.X. (Random Play)

1



(OFF)

Press the 7 (M.I.X.) button in the play or pause mode. The unit enters the M.I.X. mode and the tracks on the disc will be played back in a random sequence. After all the tracks on the disc have been played back once, the player will load the next disc and begin a new random sequence until the M.I.X. mode is canceled.

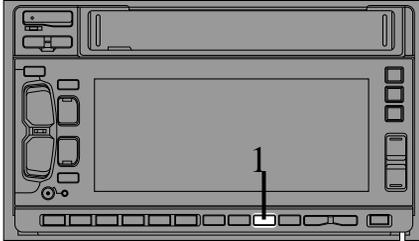
To cancel M.I.X. play, press the 7 (M.I.X.) button again.

Note: If a CD Shuttle equipped with the ALL M.I.X. function is connected, ALL M.I.X. will also be selectable. In this mode, the tracks on all the CD's in the current magazine will be included in the random playback sequence.



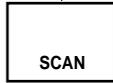
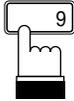
CD Operation

English



Scanning Programs

1



(OFF)

Press the 9 (SCAN) button to activate the Scan mode. The first 10 seconds of each track will be played back in succession.

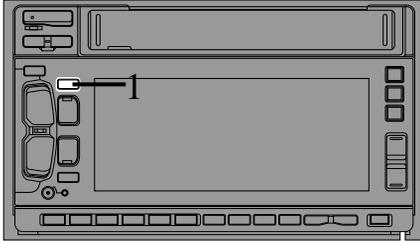
To stop the Scan, press the 9 (SCAN) button to deactivate the Scan mode.





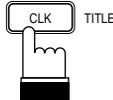
CD Operation

English

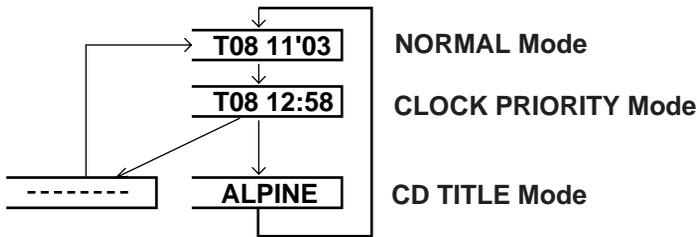


To display CD Titles

1

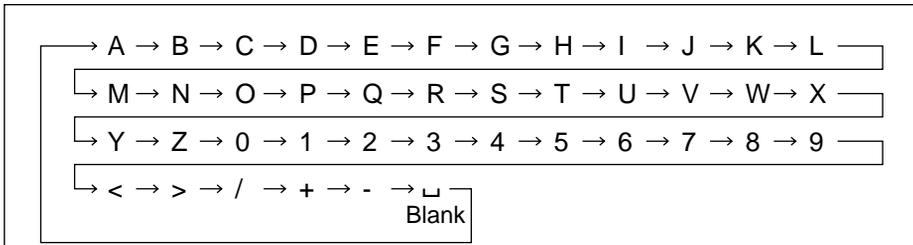


In the 3D/CD Shuttle mode, after a title has been entered for a CD, it can be displayed by pressing the TITLE button. The display will toggle between Normal, Clock and CD Title with each press of the CLK/TITLE button (see example below). (Refer to page 33 to title the disc.)



Title not entered Title entered

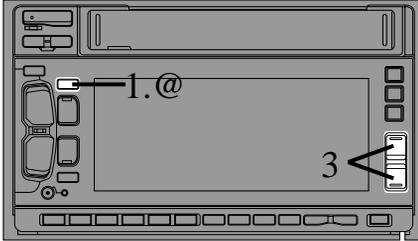
Characters and Symbols





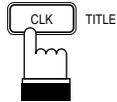
CD Operation

English



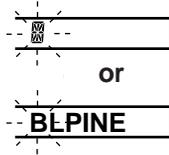
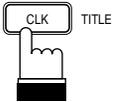
Titling Disc

1



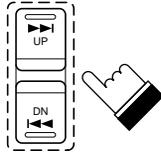
Press the TITLE button to select the disc-titling mode. (Refer to page 32).

2



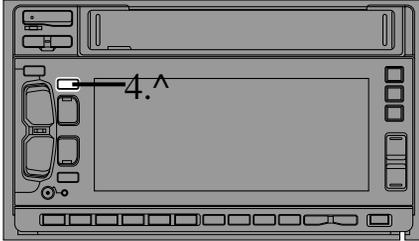
Press and hold the TITLE button for at least 3 seconds. The first digit will blink.

3



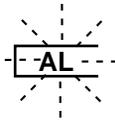
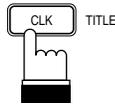
Press the DN (◀◀) or UP (▶▶) button to select the desired letter/numeral/symbol available for naming ("A" for example).





Titling Disc (Continued)

4



Press the TITLE button to store the first character. The first character will stop blinking and the display will automatically advance to the next character. When that character begins to blink, you may choose the next letter or symbol of your title.

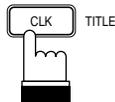
5

Repeat the steps 3 and 4 above to complete the titling. Pressing the TITLE button after entering the eighth character, automatically stores the title into memory.

In case of storing a title of less than 8 characters:

For example, after 3rd digit character is completed, 4th digit character is blinking. Then, go to step 3 .

6



Press and hold the TITLE button for at least 3 seconds to record the title.

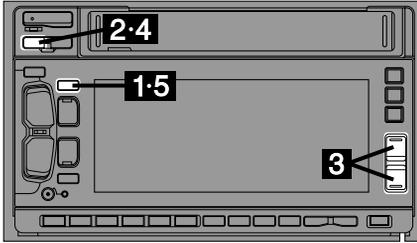
Notes:

- When the display shows "FULL DATA", the memory is full and no input is accepted. In order to input new titles, old titles must be deleted first. Refer to the section "Erasing Disc Title" on page 35 to delete titles.
- The 3D Shuttle can memorize up to 30 CD titles maximum.
- The CD Shuttle memory capacity depends upon the model being used.
- In the case of the 3D Shuttle, the memorized titles will be erased if the battery power lead is disconnected, keep this in mind when touching power cables.



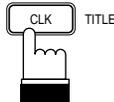
CD Operation

English



Erasing Disc Title

1



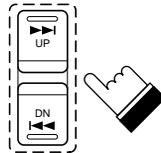
Press the TITLE button to select the disc titling mode. Then, press and hold for at least 3 seconds.

2



Press and hold the O/C button for at least 3 seconds to activate the title scanning mode. The title in the display will blink, for example "ALPINE".

3



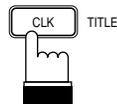
Press the DN (◀) or UP (▶) button repeatedly until the disc title you want to erase is displayed.

4



Press and hold the O/C button for at least 3 seconds to erase the disc title displayed.

5



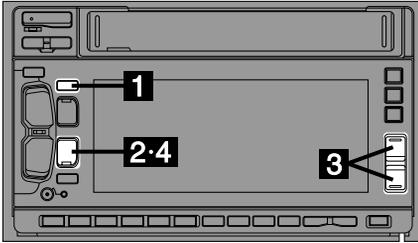
Press and hold the TITLE button for at least 3 seconds to cancel the disc title erasing mode.





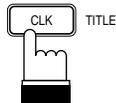
CD Operation

English



Searching Titled Discs (Title Search Menu)

1



Press the TITLE button to activate the Title Display mode.

2

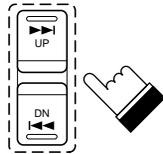


T.S.M.



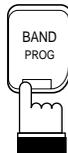
Press and hold the T.S.M. button while the title is displayed.
The title in memory blinks in the display.

3



Press the DN (◀◀) or UP (▶▶) button to select the desired disc title.

4



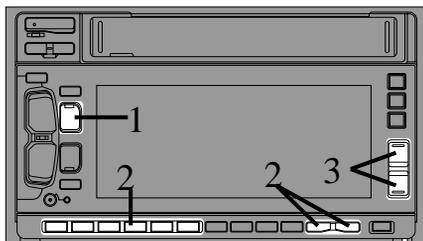
T.S.M.

Press the T.S.M. button to play the selected disc.
The unit will automatically search the disc and will play that disc.

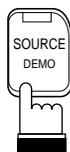
English CD Shuttle Operation

Operation of 6-Disc Shuttle (Option)

If an Ai-NET applicable CD Shuttle made by ALPINE is connected, this unit can operate the CD Shuttle.



1



Press the SOURCE button to activate the CD Shuttle mode.

The mode will change each time the button is pressed.

→ TUNER → TAPE → 3D → CD SHUTTLE *

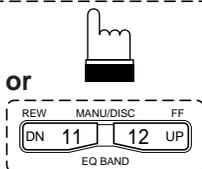
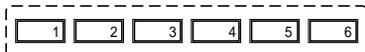
(* Only with the CD Shuttle connected)

2

5 T01
CD changer

Press one of the buttons 1 – 6 to select a disc set in the CD Shuttle. The disc can also be selected with the disc select switch.

The disc No. selected is displayed.



3

5 T05 0'16

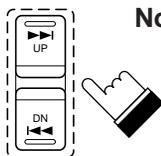
Disc Track Elapsed
No. No. time for
playback

Press the DN (◀◀) or UP (▶▶) button lightly to specify a music number (track number).

The playback will begin.

Notes:

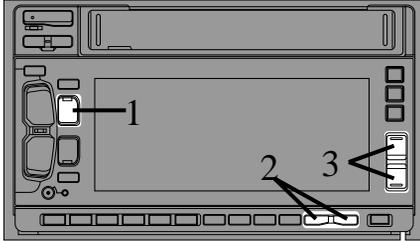
- The CD shuttle can be operated in the same way as this unit.
- The preset switch numbers 1 – 6 are corresponding to the disc No. 1 – 6.



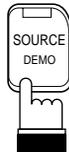
English CD Shuttle Operation

Operation of 12-Disc CD Shuttle (Option)

If an Ai-NET applicable CD Shuttle made by ALPINE is connected, this unit can operate the CD Shuttle.



1

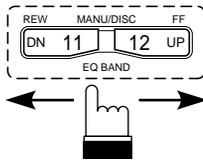


Press the SOURCE button to activate the CD Shuttle mode.
The mode will change each time the button is pressed.

→ TUNER → TAPE → 3D → CD SHUTTLE *

(* Only with the CD Shuttle connected)

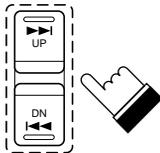
2



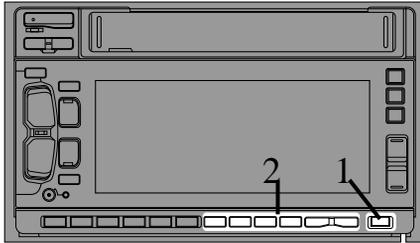
Press the Disc Select button to select a disc set in the CD Shuttle. The disc can also be selected with the Disc Select switch. The disc No. selected is displayed. The disc can be selected directly if you use the function switch. (Refer to page 39.)

Disc No. 1 ↔ 2 ↔ 6 ↔ 11 ↔ 12

3



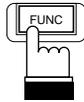
Press the DN (◀◀) or UP (▶▶) button lightly to specify a music number (track number).



How to Use the Function Mode

When the 12-disc CD Shuttle is connected, a disc can be directly selected.

1



Press the FUNC button. The FUNC indicator lights up and the unit enters the FUNC mode.

2



Press one of 7 - 12 buttons and select a disc set in the CD Shuttle magazine.

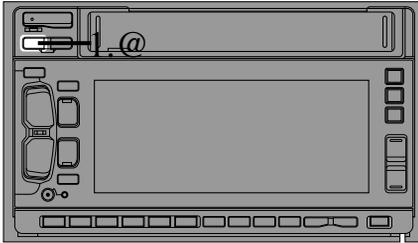
Notes:

- One of discs 1-6 can be selected by pressing one of the buttons 1 - 6 regardless of the FUNC mode.
- If a disc is selected by pressing one of the buttons 1 - 12 during the FUNC mode, the FUNC mode is released.



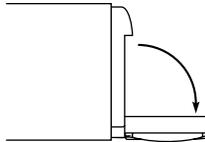
Cassette Player Operation

English



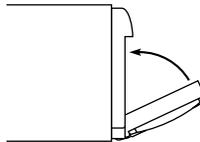
Opening and Closing of the Movable Display

1



Press the O/C button.
The movable display opens.

2



To close the movable display, press the O/C
button again.

Notes:

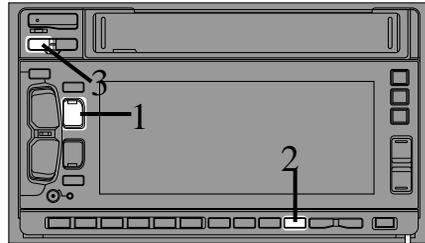
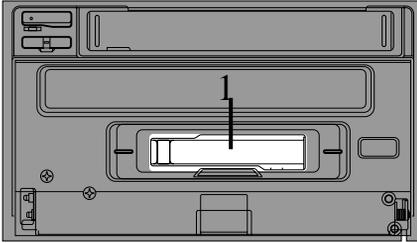
- When the movable display is opened, do not place any object on the display and be careful not to bump or apply any pressure to the door while it is open. This can cause damage to the mechanism.
- Under low ambient temperature conditions, the display may be dark for a short period immediately after the power is turned on. Once the LCD has warmed up, the display will return to normal.



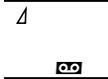
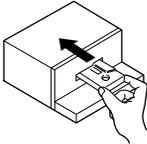
Cassette Player Operation

English

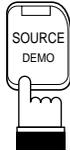
Playback



1



When a tape cassette is inserted with the movable display opened, the display closes automatically and the playback starts.

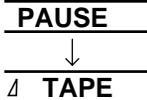
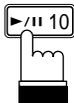


When a cassette is already inserted, press the SOURCE button to select the TAPE mode. The mode will change each time the button is pressed.

→ TUNER → TAPE → 3D → CD SHUTTLE *

(*Only with a CD Shuttle connected.)

2



Press the  button to pause the tape playback.
Press again to resume tape playback.

3



Pressing the O/C button stops the playback and ejects the cassette. The movable display will open automatically.

Notes:

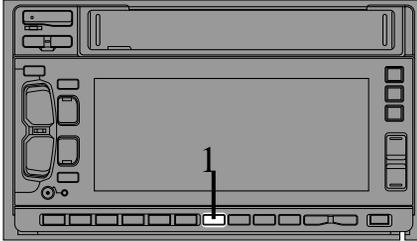
- Make sure the cassette tape is fully inserted into the mechanism before pressing the O/C button to close the movable display.
- After a cassette tape is inserted, the tape bias is automatically set. For high bias tapes (metal, CrO₂, etc.) MTL will be displayed.





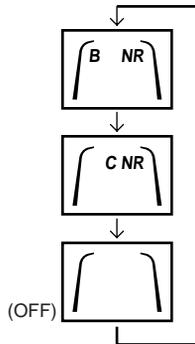
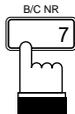
Cassette Player Operation

English



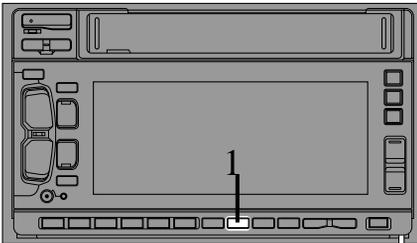
Dolby B/C NR (Noise Reduction)

1



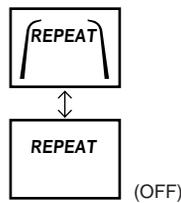
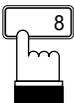
Press the 7 (B/C NR) button in the tape mode to select the Dolby B NR or C NR to play a Dolby B NR or C NR encoded tape respectively. The B or C indicator appears in the display to show your selection. A reduction in tape hiss should also be noticed, with a properly encoded tape.

To deactivate the Dolby NR mode, press the 7 (B/C NR) button until the B NR and C NR indicators disappear.



Repeat Play

1



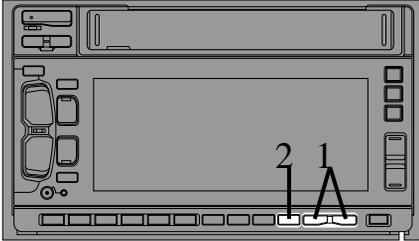
Press the 8 (RPT) button and the unit enters the Repeat mode. The current program will be played back repeatedly.

Press the 8 (RPT) button to stop the repeat play.



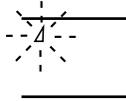
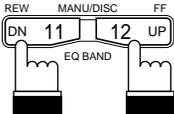
Cassette Player Operation

English



Fast Forward and Rewind

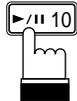
1



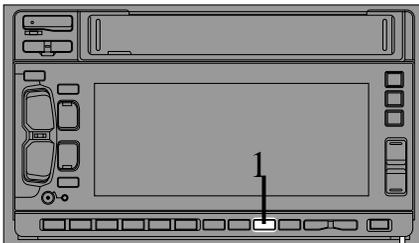
Press the REW or FF ([or]) button during tape play to fast rewind or forward the tape respectively.

The tape side indicator (/ or \) blinks. When the end of the tape is reached in the rewind mode, the player stops automatically and begins playing from the beginning of the same side. When the end of the tape is reached in the fast forward mode, the player stops automatically and begins playing from the beginning of the opposite side.

2



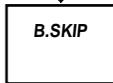
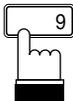
Press the 0 button to stop fast rewinding or forwarding to resume tape play. The tape side indicator stops blinking.



Blank Skip (B.SKIP)



1



(OFF)

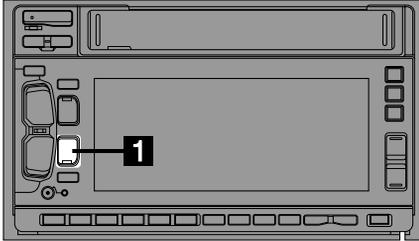
Press the 9 (B.SKIP) button during tape play to skip over parts of the tape without sound lasting 15 seconds or longer. The Blank Skip function will be highlighted in the display.

Pressing the button again cancels the blank skip mode.



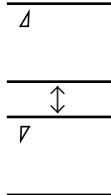
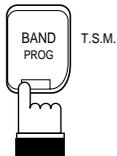
Cassette Player Operation

English



Manual Reverse

1

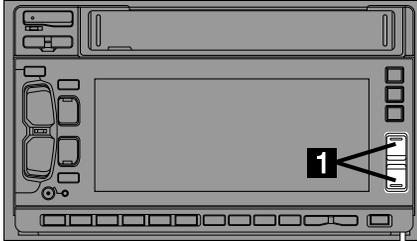


Press the PROG button during tape play to change the direction of play. The tape side indicators (Δ and ∇) change to show which side of the cassette is being played.



Cassette Player Operation

English

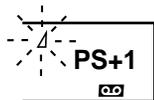
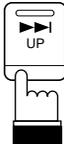


Program Sensor (P.S.)

1



Press the P.S. DN button once to return to the beginning of the current selection being played. If you wish to return to a selection further back, press repeatedly until the number of selections you would like to skip is shown in the display. The display will show PS-1 with the first press and will increase by one with each successive press up to PS-9. The tape indicator will blink showing the direction of your search.



Press the P.S. UP button once to advance to the beginning of the next selection. If you wish to advance to a selection further ahead, press repeatedly until the number of selections you would like to skip is shown in the display. The display will show PS+1 with the first press and will increase with each successive press up to PS+9. The tape indicator will blink showing the direction of your search during searching operation.

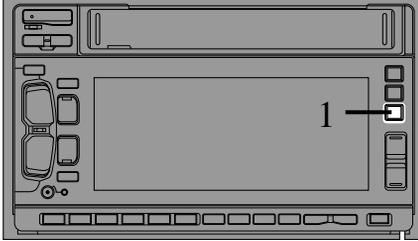
Notes:

- The program sensor feature is functional in the tape play mode only.
- You can advance to the 9th (max.) program or return to the 8th (max.) programme.





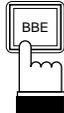
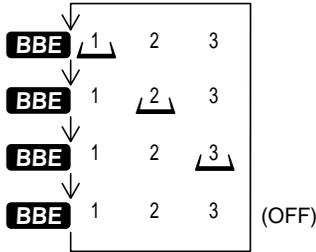
Equalizer/Surround Operation English



Selecting BBE Mode

The BBE (Barcus Berry Electronics) processor installed in this unit is designed to correct the phase distortion inherent in most loudspeaker designs. Ensuring the phase integrity of the signal driving the speakers improves the accurate reproduction of the sound. When used in conjunction with the equalizer and sound field effects, optimum sound space enhancement can take place.

1



Press the BBE button.

With each press of the BBE button the mode will change from the highest effect (BBE 1) to the least effect (BBE 3). BBE2 will be somewhere in-between.

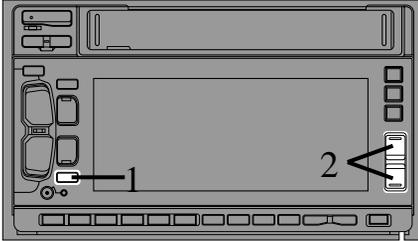
Note: The BBE processor is most effective when used in conjunction with the other surround effects.

Notes:

- The mode currently set is displayed by pressing the BBE/SUR/EQ button once. Then, the effect is changed by each successive press (within 5 seconds).
- While this making this adjustment, other operations will not be accepted.
- When turning the unit power on for the first time after resetting, each mode is set to default.



Equalizer/Surround Operation English

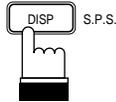


Sound Position Selector (S.P.S.)

This feature gives the user the ability to adjust the time delay of the 4 main speakers to provide the ideal sound stage for each listener in the car. The staging can be optimized for the front passenger, driver, front passenger and driver, or front and rear passengers and driver.

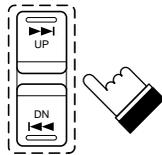
1

Press the S.P.S. button for at least 2 seconds.



2

Press the DN (◀◀) or UP (▶▶) button within 5 seconds of above operation to select the preferable position.

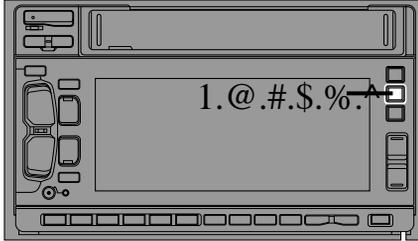


SPS-1	SPS-2	SPS-3	SPS-4	SPS OFF
Front right seat	Front left seat	Front seats	All seats	(OFF)





Equalizer/Surround Operation English



DSP Surround Presets

The 3DA-W882E employs DSP (Digital Signal Processing) to duplicate mathematically various listening environments. Six typical surround settings are provided for a variety of musical source material as follows.

1



NORMAL (Flat)

Press the SUR (SURROUND) button to select the Surround OFF (Flat) mode.

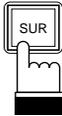
2



STADIUM

Press the SUR button to select the mode which duplicates the acoustics of a large outdoor stadium.

3



LIVE

Press the SUR button to select the mode which duplicates the acoustics of a small, intimate concert hall with few reflections.

4



HALL

Press the SUR button to select the mode which duplicates the acoustics of a large concert hall with limited reflections.

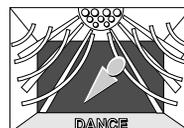
5



CHURCH

Press the SUR button to select the mode which duplicates the acoustics of a large cathedral with high ceilings and many reflections.

6

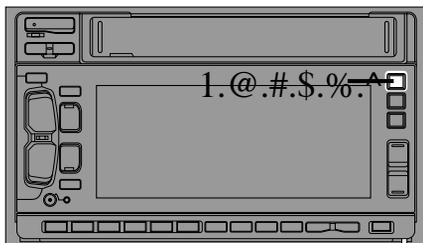


DANCE

Press the SUR button to select the mode which duplicates the acoustics of a dance hall with moderate reflections.



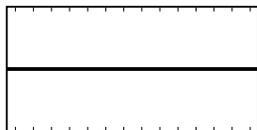
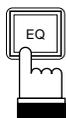
Equalizer/Surround Operation English



Equalizer Presets

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

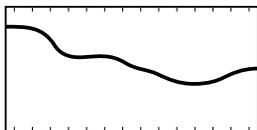
1



Setting 1: FLAT

Press the EQ (EQUALIZER) button to select the flat frequency response.

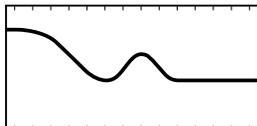
2



Setting 2: MALE (VOCAL)

Press the EQ button to select the MALE setting.

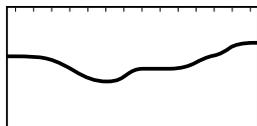
3



Setting 3: FEMALE (VOCAL)

Press the EQ button to select the FEMALE setting.

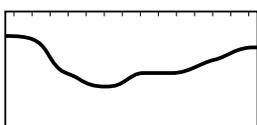
4



Setting 4: POPS

Press the EQ button to select the POPS setting.

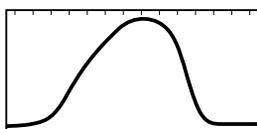
5



Setting 5: ROCK

Press the EQ button to select the ROCK setting.

6



Setting 6: NEWS

Press the EQ button to select the NEWS setting.

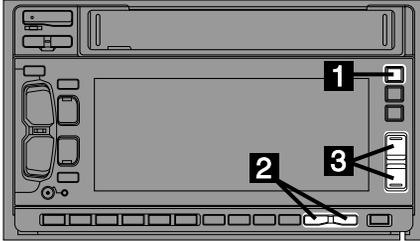




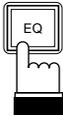
Equalizer/Surround Operation English

Adjusting the Equalizer Settings

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

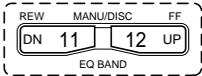


1



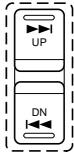
Press the EQ (EQUALIZER) button repeatedly to select the Equalizer setting preset which you wish to adjust.
The example shows FLAT mode.

2



Within 5 seconds after the operation of **1**, press the EQ BAND DN () or UP () button to select the frequency band to adjust.
The BAND indicator of the selected frequency will blink.

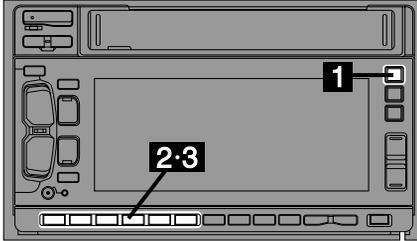
3



Press the LEVEL DN () or LEVEL UP () button while the frequency range is blinking to decrease or increase the level respectively.
Repeat Steps **2** and **3** to adjust other frequency ranges.
To adjust other Equalizer settings, repeat Steps **1** to **3**.



Equalizer/Surround Operation English



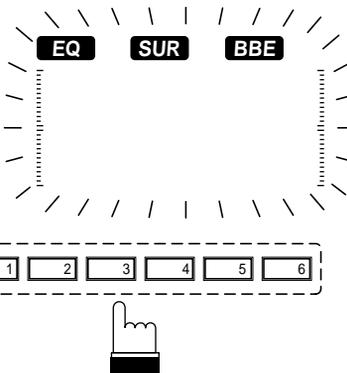
Memorizing the Equalizer Settings

1



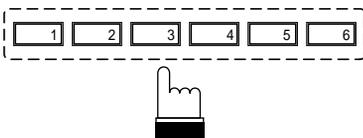
Press the EQ button to select the desired equalizer setting (factory preset or your own) you wish to store in memory.

2



Within 5 seconds after operating step **1**, press and hold any one of the Preset buttons (1 – 6) for at least **2** seconds. The indicators blink for 5 seconds showing the unit is ready for storing.

3



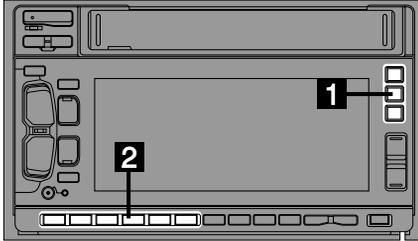
While the indicators are blinking, press the Preset button (1 – 6) into which you wish to store the selected equalization setting. Repeat Steps **1** to **3** to store other settings. The example shows the setting has been stored at the Preset 2.

Note: You can store the BBE and Surround settings as well as the Equalizer settings in the Presets.



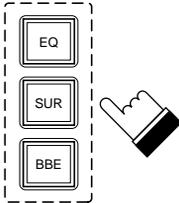


Equalizer/Surround Operation English



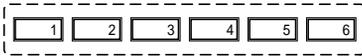
Recalling the Memorized Equalizer/Surround Settings

1

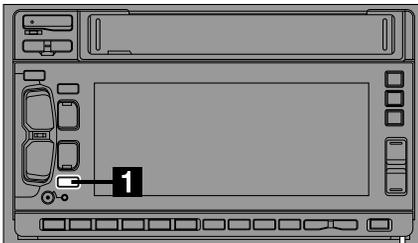


Press the desired mode button, EQ, SUR or BBE.

2

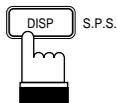


To recall your preset, pressing one of the preset switches (1 - 6) within 5 seconds after the operation in Section 1. This provides sound characteristics of your own design.



Switching the Display Modes

1



Press the DISP (DISPLAY) button to select the desired Display pattern mode.

Each press changes the display patterns as shown in page 53.

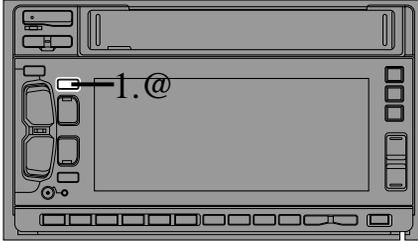


Equalizer/Surround Operation English

Pattern	Display	Description
1		EQ Pattern
2		Spectrum Analyzer Pattern
3		Peak Hold Pattern
4		Peak Value Increasing Pattern
5		"i" Character Pattern
6		Block Pattern
7		Mirror Pattern
8		Spectrum Dual Stack Pattern
9		Scan Display (Repeats from DISP2 to DISP8 for every 5 seconds endlessly.)
10	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>CD</p> </div> <div style="text-align: center;"> <p>TAPE</p> </div> <div style="text-align: center;"> <p>RADIO</p> </div> </div>	Operation Mode Display Displays each mode of operation.



Clock Operation English

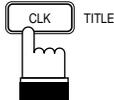


Displaying Time

1

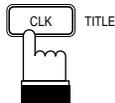
12:00

Press the CLK (Clock) button to display the time. The unit displays the time.

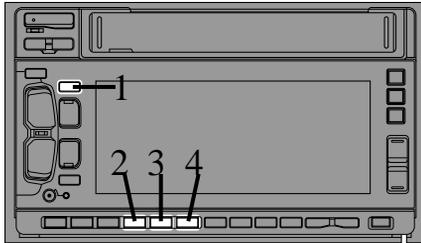


Note: Selecting any tuner or CD function while in the clock mode will interrupt the time display momentarily. The function selected will be displayed for about 5 seconds before the time returns to the display. The time will be displayed even with power to the head unit turned off, as long as the ignition key is on.

2

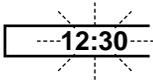
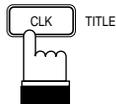


Press the CLK (Clock) button to turn off the time and to show other functions.



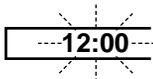
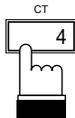
Setting Time

1



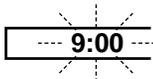
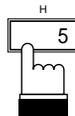
Make sure you are in the Clock mode by pressing the Clock button (see page 54). Then, press and hold the CLK (Clock) button for at least 3 seconds. The time indication will begin to blink.

2



To set the time to the nearest hour, press the CT button while the time indication is blinking. For example, if the time shown in the display is 9:35, the CT function will change it to 10:00. If the display shows 9:29, the CT function will set the time to 9:00.

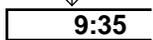
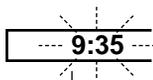
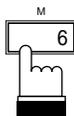
3



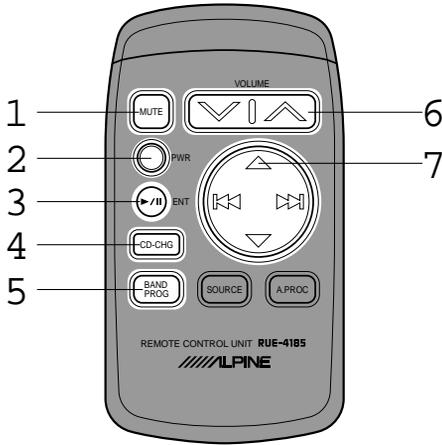
Example: To adjust to 9:35

Press the "H" button to adjust the hours while the time indication is blinking.

4



Press the "M" button to adjust the minutes while the time indication is blinking. The time automatically sets after 5 seconds of inactivity. It can be manually set by pressing the CLK button immediately after making adjustments. The time display stops blinking when set.



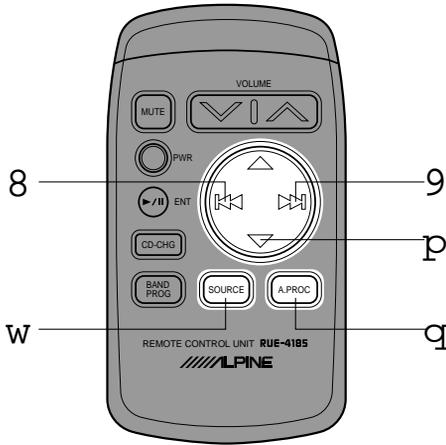
Controls

- ① **Mute Button**
Press the button to lower the volume by 20 dB instantly. Press the button again to cancel.
- ② **Power Switch**
Press the switch to turn the power on/off.
- ③ **▶/|| Button**
Press the button to switch between the Play and Pause modes for the tape player or CD.
- ④ **CD Changer Button**
Press the button to change to the CD changer operation.
- ⑤ **Band/Program Button**
Radio mode: BAND Button
Tape mode: Program Button
- ⑥ **Volume Adjustment Buttons**
To increase the volume level.....
Press the ▲ button

To decrease the volume level.....
Press the ▼ button
- ⑦ **▲ Button**
Radio mode: Pressing the button will select, in ascending order, stations programmed into the radio's presets as shown below.

→1 →2 ...6

Tape mode: Pressing the button enters the Program Sensor Up mode. This allows for music selection towards the end of the tape. See page 45 for Program Sensor operation.
3D/CD Shuttle mode: DISC Select (UP) Button
Press the button to select a disc in ascending order.
Equalizer/Surround mode: After calling each mode with the A. PROC button, press the ▲ button to select each mode.



⑧ **◀◀ Button**
Radio mode: SEEK (DN) Button
Tape mode: REW Button
3D/CD Shuttle mode: Press the button to go back to the beginning of the current track.

⑨ **▶▶ Button**
Radio mode: SEEK (UP) Button
Tape mode: FF Button
3D/CD Shuttle mode: Press the button to advance to the beginning of the next track.

⑩ **▼ Button**
Radio mode: Pressing the button will select, in descending order, stations programmed into the radio's presets as shown below.

→6 →5 ...1

Tape mode: Pressing the button enters the Program Sensor Down mode. This allows for music selection towards the beginning of the tape. See page 45 for Program Sensor operation.

3D/CD Shuttle mode: DISC Select (DN) Button

Press the button to select a disc in descending order.

Equalizer/Surround mode: After calling each mode with the A. PROC button, press the ▼ button to select each mode.

⑪ **A. PROC Button**
 Press the button to switch between the Equalizer/Surround modes.

⑫ **Audio Select Button**
 Press to select the audio source.

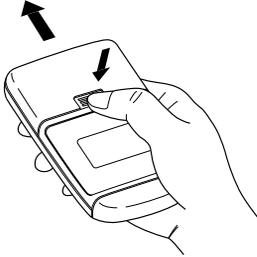
Remote Control English

Battery Replacement

Applicable battery: Use two UM-4 or equivalent.

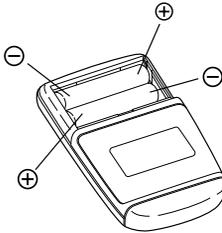
Opening the battery cover

Slide out the battery cover while firmly pressing outward.



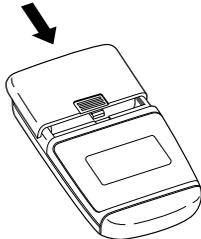
Replacing the battery

Put the batteries in the case as illustrated.



Closing the cover

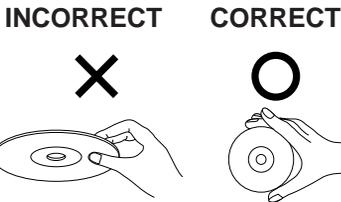
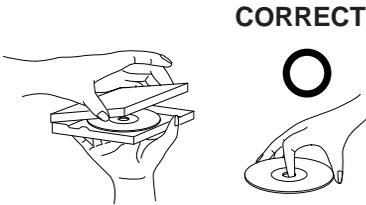
Push the cover as illustrated until a click is heard.



Disc Care

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 on the disc. Do not write on the disc.



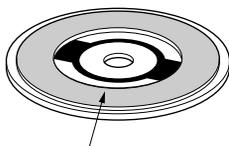
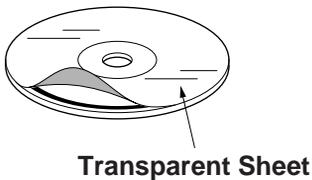
Disc Cleaning

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 centre 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.



In Case of Difficulty English

If you encounter a problem, please review the items in the following check list. 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.

Initial Turn-on After Installation

Symptom	Cause and Solution
No function or display.	<ul style="list-style-type: none">• Car's ignition is off.<ul style="list-style-type: none">– If connected per instructions, the unit will not operate with the car's ignition off.• Improper connection of power leads.<ul style="list-style-type: none">– Check connections of the power leads.• Blown fuse.<ul style="list-style-type: none">– Check the fuses on the Battery leads; replace with the proper value if necessary.

Radio Mode

Symptom	Cause and Solution
Unable to receive stations.	<ul style="list-style-type: none">• No antenna or open connection in cable.<ul style="list-style-type: none">– Make sure the antenna is properly connected; replace the antenna or cable if necessary.
Unable to tune stations in the seek mode.	<ul style="list-style-type: none">• You are in a weak signal area.<ul style="list-style-type: none">– Make sure the tuner is in the DX mode.• If the area you are in is not known to be a weak signal area, the antenna may not be grounded and connected properly.<ul style="list-style-type: none">– Check your antenna connections; make sure the antenna is properly grounded at its mounting location.• The antenna may not be the proper length.<ul style="list-style-type: none">– Make sure the antenna is fully extended; if broken, replace the antenna with a new one.
Broadcast is noisy.	<ul style="list-style-type: none">• The antenna is not the proper length.<ul style="list-style-type: none">– Extend the antenna fully; replace it if it is broken.• The antenna is poorly grounded.<ul style="list-style-type: none">– Make sure the antenna is grounded properly at its mounting location.

CD Mode

Symptom	Cause and Solution
CD not functioning.	<ul style="list-style-type: none">• Out of operating temperature range +50°C (+120°F) for CD.<ul style="list-style-type: none">– Allow the car's interior (or trunk) temperature to cool.
CD playback sound is wavering.	<ul style="list-style-type: none">• Moisture condensation in the CD Module.<ul style="list-style-type: none">– Allow enough time for the condensation to evaporate (about 1 hour).
Unable to Fast-Forward or Backward.	<ul style="list-style-type: none">• The CD has been damaged.<ul style="list-style-type: none">– Eject the CD and discard; using a damaged CD in your unit can cause damage to the transport.
Sound skips due to vibration.	<ul style="list-style-type: none">• Improper mounting.<ul style="list-style-type: none">– Securely re-mount the unit.• Disc is very dirty.<ul style="list-style-type: none">– Clean the disc.• Disc has scratches.<ul style="list-style-type: none">– Change the disc.
Sound skips without vibration.	<ul style="list-style-type: none">• Dirty or scratched disc.<ul style="list-style-type: none">– Clean the disc: damaged discs should be replaced.

Tape Mode

Output sounds dull.	<ul style="list-style-type: none">• The tape head needs cleaning.<ul style="list-style-type: none">– Clean the tape head.• Incorrect Dolby NR in use.<ul style="list-style-type: none">– Check Dolby NR switch setting.
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Indication for 3D Head Unit

Indication	Cause and Solution
HI TEMP	<ul style="list-style-type: none"> • Protective circuit is activated due to high temperature. <ul style="list-style-type: none"> – The indicator will disappear when the temperature returns to within operation range.
T - - - -	<ul style="list-style-type: none"> • No disc is loaded. <ul style="list-style-type: none"> – Select a disc.
NO MAGZN	<ul style="list-style-type: none"> • No magazine is loaded. <ul style="list-style-type: none"> – Insert a magazine.
ERROR	<ul style="list-style-type: none"> • Malfunction in the unit. <ul style="list-style-type: none"> – Press the eject button and remove the CD from the CD magazine. Inspect the CD for any deformities or irregularities (see pages 6 – 7). If there appears to be no problems with the disc, insert the CD back into the magazine. When the "ERROR" indication disappears from the display, insert the magazine into the unit. If the magazine does not eject, consult your Alpine dealer. • Magazine ejection not possible. <ul style="list-style-type: none"> – Press the magazine eject button. If the magazine does not eject, consult your Alpine dealer. • Magazine ejects without CD. <ul style="list-style-type: none"> – Press the eject button to activate the eject function. Insert an empty CD magazine into the 3D Shuttle to receive the disc left inside the unit. If the CD cannot be removed, consult your Alpine dealer.

Indication for CD Shuttle

Indication	Cause and Solution
HI TEMP	<ul style="list-style-type: none"> • Protective circuit is activated due to high temperature. <ul style="list-style-type: none"> – The indicator will disappear when the temperature returns to within operation range.
ERROR-01	<ul style="list-style-type: none"> • Malfunction in the CD Shuttle. <ul style="list-style-type: none"> – 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. <ul style="list-style-type: none"> – Press the magazine eject button. If the magazine does not eject, consult your Alpine dealer.
ERROR-02	<ul style="list-style-type: none"> • A disc is left inside the CD Shuttle. <ul style="list-style-type: none"> – Press the EJECT button to activate the eject function. When the CD Shuttle finishes the eject function, insert an empty CD magazine into the CD Shuttle to receive the disc left inside the CD Shuttle.
NO MAGZN	<ul style="list-style-type: none"> • No magazine is loaded into the CD Shuttle. <ul style="list-style-type: none"> – Insert a magazine.
NO DISC	<ul style="list-style-type: none"> • No indicated disc. <ul style="list-style-type: none"> – Choose another disc.

Specifications

English

FM TUNER SECTION

Tuning Range	87.5 – 108.0 MHz
Mono Usable Sensitivity	9.3 dBf (0.8 μ V/75 ohms)
50 dB Quieting Sensitivity	13.5 dBf (1.3 μ V/75 ohms)
Alternate Channel Selectivity	80 dB
Signal-to-Noise Ratio	65 dB
Stereo Separation	35 dB
Capture Ratio	2.0 dB

AM TUNER SECTION

Tuning Range	531 – 1,602 kHz
Usable Sensitivity	22.5 μ V/27.0 dB

CD SECTION

Frequency Response	5 – 20,000 Hz (\pm 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	95 dB
Channel Separation	85 dB (at 1 kHz)

Specifications

English

TAPE PLAYER SECTION

Tape Speed 1-7/8 ips (4.8 cm/sec) $\pm 0.7\%$

Wow & Flutter 0.06%

Tape Signal-to-Noise Ratio

 With Dolby B NR On/Off 68/60 dB

 With Dolby C NR On/Off/ 75/60 dB

Frequency Response

 With Alpine Test Tape 30 – 20,000 Hz (± 3 dB)

EQUALIZER SECTION

Number of Bands 7

Equalizer Centre Frequency Range 63/160/400 Hz/1/2.5/6.3/16 kHz,
 ± 12 dB for each range

Specifications

English

REMOTE CONTROL

Battery Type	"AAA" sized dry battery
Battery Quantity	2
Dimensions (W x H x D)	56mm (2-1/4") x 14mm (9/16") x 105mm (4-1/8")
Weight (without battery)	50 g (1 oz)

GENERAL

Power Requirement	14.4V DC (11 – 16V (allowable))
Maximum Power Output*	40W x 4
Output Voltage	500 mV/10k ohms
Maximum Pre-Output Voltage	2V/10k ohms
Weight	3 kg (6 lbs. 9 oz)

CHASSIS SIZE

Width	178mm (7")
Height	100mm (3-15/16")
Depth	156mm (6-1/8")

NOSEPIECE SIZE

Width	170mm (6-3/4")
Height	96mm (3-3/4")
Depth	19mm (3/4")

* Under maximum operating voltage and input signal, into 4 ohms.

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