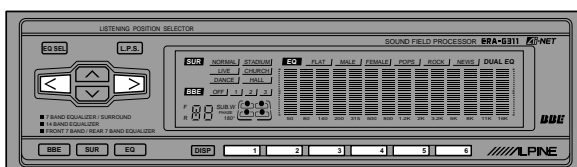




ERA-G311

Sound Field Processor

- OWNER'S MANUAL (page 2- page 35)
Please read this manual to maximize your enjoyment of the outstanding performance and feature capabilities of the equipment, then retain the manual for future reference.



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. Doing so may lead to accident, fire or electric shock.

KEEP SMALL ARTICLES OUT OF THE REACH OF CHILDREN. If swallowed, consult a physician immediately.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES. Failure to do so may result in fire or electric shock.

HALT USE IMMEDIATELY IF A PROBLEM APPEARS. When problems occur such as a lack of sound or video, foreign objects inside the unit, smoke coming out, or noxious odors, stop use immediately and contact the dealer where you bought the equipment. Failure to do so may result in an accident or injury.

DO NOT OPERATE THE EQUIPMENT OR LOOK AT THE SCREEN WHILE DRIVING THE VEHICLE. Operating the equipment may distract the driver from looking ahead of the vehicle and cause accident. Always stop the vehicle in a safe location before operating this equipment.

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 noises could be the cause of accident.

DO NOT USE THIS EQUIPMENT FOR PURPOSES OTHER THAN STATED FOR THE VEHICLE. Failure to do so may result in electric shock or injury.

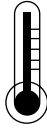
Contents

English

Page	
4	..... Precautions
<hr/> Basic Operation <hr/>	
5	..... Power ON/OFF
5	..... Adjusting Volume/Balance/Fader/Subwoofer
<hr/> Equalizer/Surround Operation <hr/>	
6	..... Band Quantity Switching
6	..... Dual Function
7	..... Equalizer Presets
8	..... Adjusting the Equalizer Settings
9	..... Selecting BBE Mode
10	..... Creating a Custom BBE Curve
11	..... Choosing the Listening Position Selector (L.P.S.)
12	..... Adjusting L.P.S.
13	..... DSP Surround Presets
14	..... Adjusting the Surround Settings
15	..... Memorizing the Equalizer Settings
16	..... Switching Display
<hr/> Remote Control Operation <hr/>	
18	..... Selecting the Factory Preset Equalizer Settings
19	..... Selecting the Factory Preset Surround Modes
20	..... Selecting the BBE Mode
21	..... Recalling the Stored Equalizer Settings
22	..... Choosing the Listening Position Selector (L.P.S.)
23	..... Turning the Defeat Mode On or Off (RUE-4160/RUE-4162 only)
24	..... Customizing the Equalizer Settings
25	..... Adjusting the Surround Settings
26	..... Making the BBE by Yourself
27	..... Storing Custom Equalizer Settings
28	..... Adjusting L.P.S.
29	..... Adjusting the Time Correction
31	..... Storing the Time Correction
32	..... Recalling the Stored Time Correction
34	..... In Case of Difficulty
35	..... Specifications



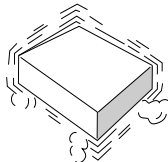
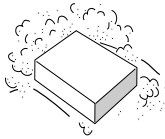
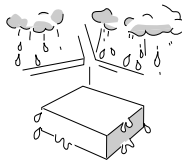
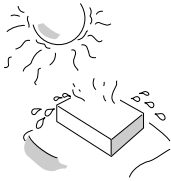
Precautions



+60°C
-10°C

Temperature

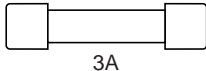
Be sure the temperature inside the vehicle is between +60°C (+140°F) and -10°C (+14°F) before turning your unit on.



Installation Location

Make sure the ERA-G311 will not be exposed to:

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



3A

Replacing Fuses

Replace the fuse with one with the same amperage (3A).

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.

Caution

ERA-G311 allows three different modes of system as "1) 7 Band EQ + Surround + LPS + BBE", "2) 14 Band EQ + LPS + BBE" and "3) 7 Band EQ + 7 Band EQ (Dual EQ) + LPS + BBE".

When the mode is changed, all systems should be reset to change the program for DSP. This resetting is made automatically when you push the key of switching mode and cause to clear stored memory of presets.

Not to delete your stored presets, please determine the mode you use and have attention not to switch the mode after making your presets.



Basic Operation

Power ON/OFF

The unit is turned OFF/ON from the head unit's Power switch.



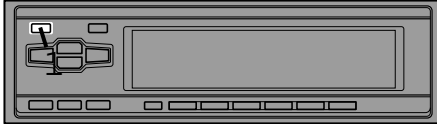
Adjusting Volume/Balance/ Fader/Subwoofer

Make each adjustment on the Head Unit.
For PHASE switching, press and hold the Audio Control button on the Head Unit at least 2 seconds.

Note: Some functions or displays are limited depending on the product used.
If you have any question, consult with the authorized Alpine dealer.

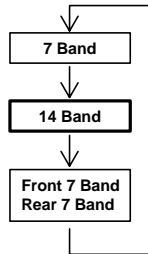


Equalizer/Surround Operation English



Band Quantity Switching

1



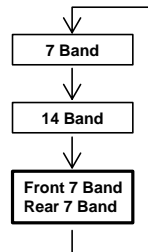
Press and hold the EQ SEL button for at least **4** seconds to switch the equalizer band from 7 to 14 bands.

Note: In the 14 band equalizer mode, the surround cannot be used.



Dual Function

1



Press and hold the EQ SEL button for at least **4** seconds in the 14 band mode to activate the dual mode.

(Front output: 80, 200, 500, 1.2k, 3.2k, 8k, 16 kHz)

Rear output: 50, 140, 315, 800, 2k, 5k, 11 kHz)

Note: In the dual equalizer mode, the surround cannot be used.

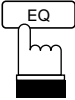
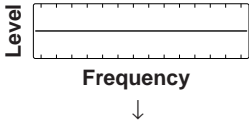

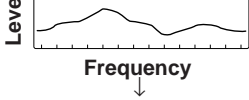
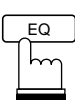
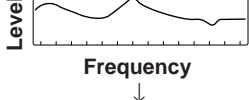

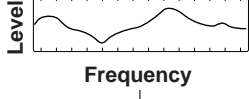
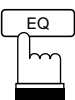
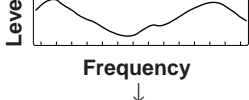
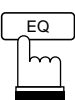
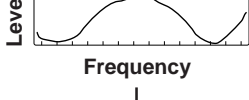


Equalizer/Surround Operation English



Equalizer Presets

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

1	  <p>Level</p> <p>Frequency</p>	Setting 1: FLAT Press the EQ (EQUALIZER) button to select the flat frequency response.
2	  <p>Level</p> <p>Frequency</p>	Setting 2: MALE (VOCAL) Press the EQ button to select the MALE setting.
3	  <p>Level</p> <p>Frequency</p>	Setting 3: FEMALE (VOCAL) Press the EQ button to select the FEMALE setting.
4	  <p>Level</p> <p>Frequency</p>	Setting 4: POPS Press the EQ button to select the POPS setting.
5	  <p>Level</p> <p>Frequency</p>	Setting 5: ROCK Press the EQ button to select the ROCK setting.
6	  <p>Level</p> <p>Frequency</p>	Setting 6: NEWS Press the EQ button to select the NEWS setting.





Equalizer/Surround Operation English



Adjusting the Equalizer Settings

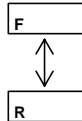
You can modify the Equalizer settings to create a response curve more appealing to your personal taste.

1



Press the EQ (EQUALIZER) button repeatedly to select the Equalizer setting preset which you wish to adjust. The EQ indicator blinks for 5 seconds.

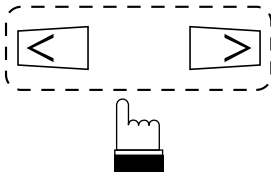
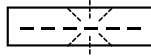
The example shows FLAT mode.



Dual mode

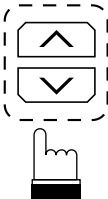
While the EQ indicator is blinking, press the DISP button. The EQ mode will toggle between front or rear.

2



While the EQ indicator is blinking, press the EQ BAND DN (1) or UP (2) button to select the frequency band to adjust. The BAND indicator of the selected frequency will blink.

3

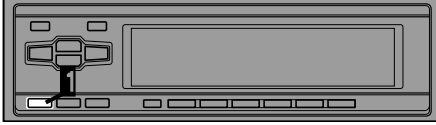


Press the LEVEL DN (>) or LEVEL UP (<) button while the frequency range is blinking to decrease or increase the level respectively. Repeat Steps 2 and 3 to adjust other frequency ranges.

To adjust other Equalizer settings, repeat Steps 1 to 3.



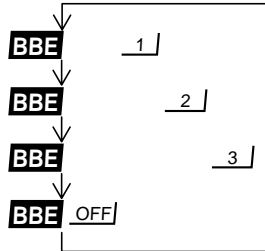
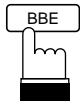
Equalizer/Surround Operation English



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



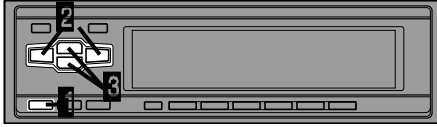
Press the BBE button.

With each press of the button the mode will be changed in the sequence: BBE 1, BBE 2, BBE 3, and BBE OFF. The BBE effect is the highest in BBE 1 mode, will be reduced in BBE 2 mode and will have the least effect in BBE 3 mode.



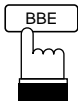


Equalizer/Surround English Operation



Creating a Custom BBE Curve

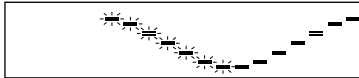
1



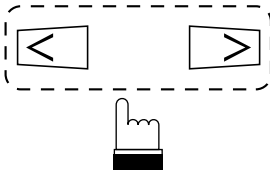
Press the BBE button to select a BBE mode to be adjusted. The BBE indicator will blink for 5 seconds.

2

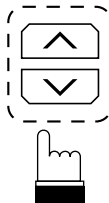
Example: BBE 1



While the BBE indicator is blinking, press the EQ Band up/down ($\times/1$) buttons to select either the high or low frequency bands to be adjusted.



3



Adjust for desired levels by pressing the level UP/DN ($</>$) adjusting buttons while the indicator is blinking.

Adjustments can be made to the other BBE modes by repeating the above procedures for each one you wish to customize.



Equalizer/Surround Operation English



Choosing the Listening Position Selector (L.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

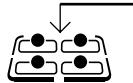


Press the L.P.S. button repeatedly to select the desired listening position.

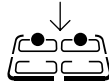
The L.P.S. indicator shows the seat position.



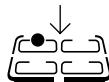
All seats



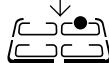
Front seats



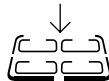
Front left seat



Front right seat



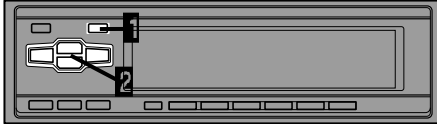
OFF



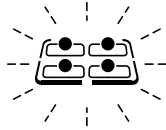


Equalizer/Surround English Operation

Adjusting L.P.S.

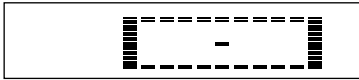


1

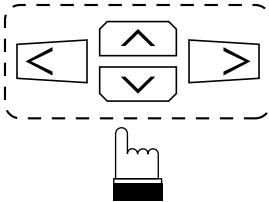


Press the L.P.S. button repeatedly to select the L.P.S. mode you want to adjust. The L.P.S. indicator will blink for 5 seconds.

2



While the L.P.S. indicator is blinking, press the up/down (<, >) and left/right (⏪, ⏩) buttons, to fine tune the time correction for the selected position.





Equalizer/Surround Operation English

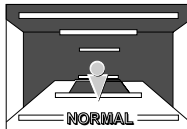
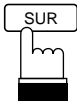


DSP Surround Presets

The ERA-G311 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.

Note: If 14-band equalizer is selected, the DSP Surround function can not be used.

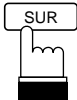
1



NORMAL (Flat)

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

2

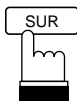


STADIUM

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



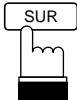
3



LIVE

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

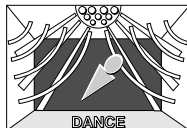
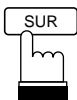
4



CHURCH

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

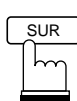
5



DANCE

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

6

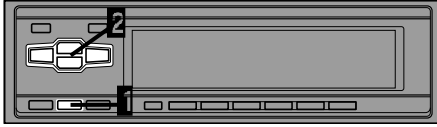


HALL

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



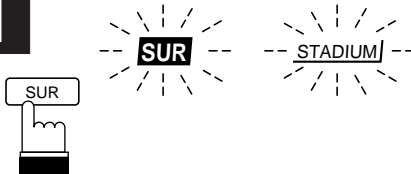
Equalizer/Surround Operation English



Adjusting the Surround Settings

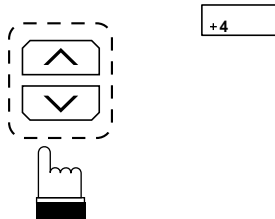
You can adjust the Surround settings for your preference.

1

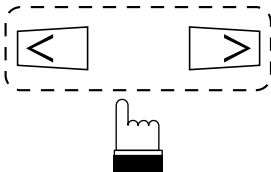


Press the SUR button repeatedly to select the desired surround mode (except NORMAL). The selected surround mode indicator blinks for 5 seconds.

2



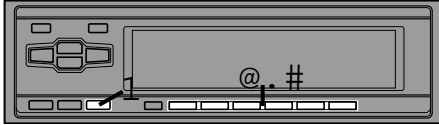
While the surround mode indicator is blinking, press the > or < button to decrease or increase the reverberation level. Adjustments can be made within a range of +4 to -4 steps.



Press the 1 or x button to adjust the initial reverberation time. Adjustments can be made within a range of +4 to -4 steps.

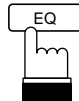


Equalizer/Surround Operation English



Memorizing the Equalizer Settings

1

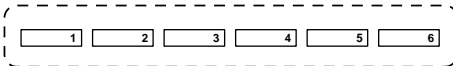


Press the EQ button to select the desired equalizer setting (factory preset or your own) you wish to store in memory.

2



Press and hold any one of the Memory buttons for at least 2 seconds. The Preset indicators blink for 5 seconds showing the unit is ready for storing.

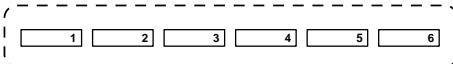


3



Press the Memory button into which you wish to store the selected equalization setting while the Preset indicators are blinking. Repeat Steps 1 to 3 to store other settings.

The example shows the setting has been stored at the Preset 1.

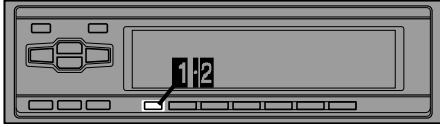


Notes:

- If the band quantity is switched, the memory contents will be cleared.
- You can store the BBE and Surround settings as well as the Equalizer settings in the Presets.
- To recall the curve memorized, press one of the memory buttons you memorized.

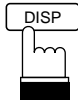


Equalizer/Surround Operation English



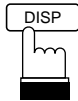
Switching Display

1



Press the DISP button to switch the display. Select one of the display patterns you like.

2



Press and hold the DISP button for more than 2 seconds. The display will toggle between normal or inverted mode.

Example

Normal mode



Reverse mode





Equalizer/Surround Operation English

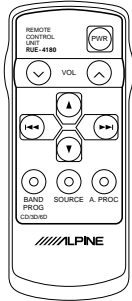
Pattern	Display	Description
1		EQ Pattern
2		Spectrum Analyzer Pattern
3		Peak Hold Pattern
4		Peak Value Increasing Pattern
5		"i" Character Pattern
6		Block Pattern
7		Mirror Pattern
8		Spectrum Dual Stack Pattern
9		Scan Display (Repeats endlessly for 5 seconds from Pattern 2 to Pattern 8.)



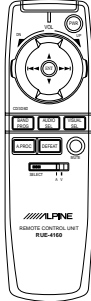


Remote Control Operation

English



RUE-4180



RUE-4160

If an Alpine, Ai-Net compatible head unit is connected to the ERA-G311, some or all of the EQs functions can be controlled from the head unit's remote control.

Notes:

- The following display examples appear in the Alpine Ai-compatible head unit displays.
- These displays will differ depending upon the Alpine head unit connected.

Selecting the Factory Preset Equalizer Settings

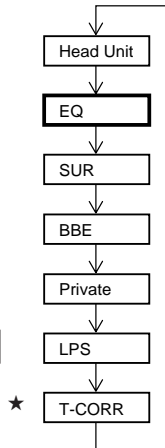
1



RUE-4180

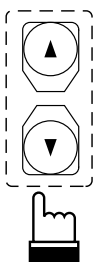


RUE-4160

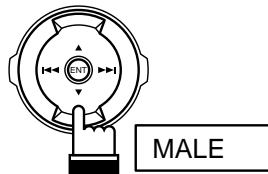


Press the A.PROC button and select the EQ mode. Each press changes the modes as follows:

2



RUE-4180



RUE-4160

Press the Up (8) or Down (9) button to select the desired Equalizer mode, "MALE" for example.



Remote Control Operation

English

Selecting the Factory Preset Surround Modes

Note: If 14-band equalizer is selected, the DSP Surround function can not be used.

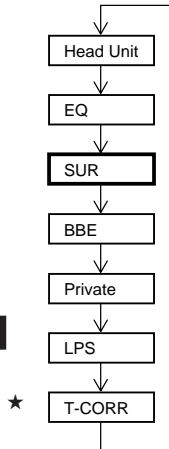
1



RUE-4180



RUE-4160

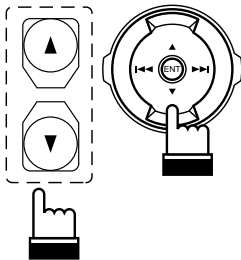


Press the A.PROC button and select the surround mode.

★: Some functions or displays are limited depending on the Head Unit used.

2

STADIUM



RUE-4180

RUE-4160

Press the Up (8) or Down (9) button to select the desired surround mode. "STADIUM" for example.





Remote Control Operation

English

Selecting the BBE Mode

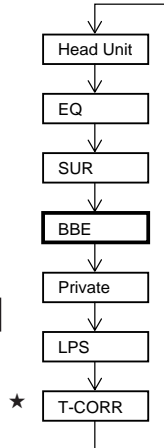
1



RUE-4180



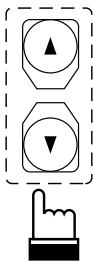
RUE-4160



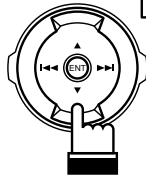
Press the A.PROC (Audio Processor) button to select the BBE mode.

★: Some functions or displays are limited depending on the Head Unit used.

2



RUE-4180



RUE-4160

BBE-1

Press the Up (8) or Down (9) button to select the desired BBE mode.



Remote Control Operation

English

Recalling the Stored Equalizer Settings

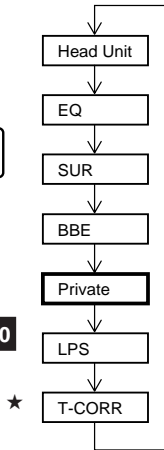
1



RUE-4180



RUE-4160



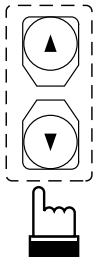
Press the A. PROC button and select the Private mode.

★: Some functions or displays are limited depending on the Head Unit used.

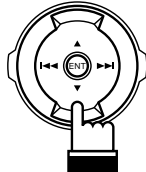
2

1 P-MEMO

Press the Up (8) or Down (9) button to select the stored setting from PRESET 1 to PRESET 6.



RUE-4180



RUE-4160





Remote Control Operation

English

Choosing the Listening Position Selector (L.P.S.)

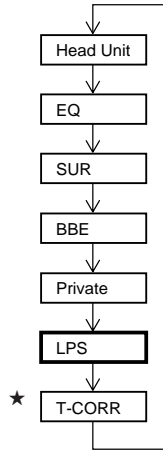
1



RUE-4180



RUE-4160



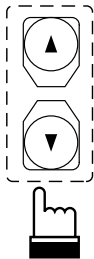
Press the A.PROC button to select the L.P.S. mode.

★: Some functions or displays are limited depending on the Head Unit used.

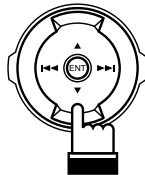
2

LPS ALL

Press the Up (8) or Down (9) button to select the desired listening position.



RUE-4180



RUE-4160



Remote Control Operation

English

Turning the Defeat Mode On or Off (RUE-4160/RUE-4162 only)

1



Press the DEFEAT button to skip the BBE/Surround circuit and get flat equalizer setting. The display **DEFEAT** is shown on the Head Unit side.

2



To cancel the DEFEAT mode, press the DEFEAT button a second time.





Remote Control Operation

English

The remote control operations (RUE-4185/ RUE-4160/RUE-4162) described in the following sections are applicable to full Ai-NET compatible units only (TDA-7558, etc.).

Notes:

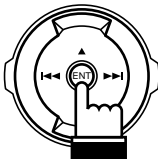
- The following display examples appear in the Alpine Ai-compatible head unit displays.
- These displays will differ depending upon the Alpine head unit connected.

Customizing the Equalizer Settings

1

Select the equalizer characteristic to be adjusted. Refer to page 18 "Selecting the Factory Preset Equalizer Settings".

2

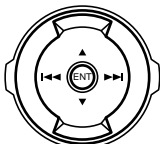


RUE-4160

50 0

Press the ENT button to enter the frequency adjustment mode. The first frequency band will be displayed for 5 seconds.

3



RUE-4160

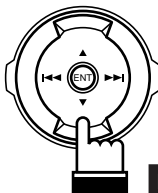
2.0K 0

While in the frequency adjustment mode, press the C or F button to display the frequency to be adjusted.

Changes to the frequency band selected must be made within 5 seconds, otherwise the unit will return to normal mode.



4



RUE-4160

2.0K +6

While the frequency is still displayed, press the 8 or 9 button to adjust for the desired level. If you want to adjust more, repeat the steps above.

Note: In the dual mode, press the BAND/PROG button to switch Front/Rear.



Remote Control Operation

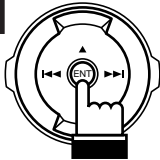
English

Adjusting the Surround Settings

1

Select the surround mode to be adjusted. Refer to page 19 "Selecting the Factory Preset Surround Modes".

2

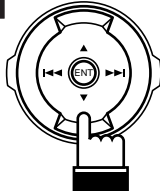


SR LEVEL ± 0

Press the ENT button to activate (for 5 seconds) the adjustment mode.

RUE-4160

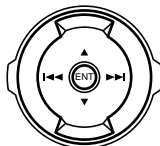
3



SR LEVEL +3

During the adjustment mode, press the 8 or 9 button to adjust for the desired level.

RUE-4160



SR TIME -1

Press the \square or \square button to adjust the reverb-
eration time.



RUE-4160





Remote Control Operation

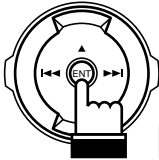
English

Making the BBE by Yourself

1

Select the BBE mode you desire to adjust referring to the Page 20 "Selecting the BBE mode".

2

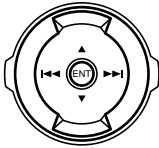


BBE - L +2

RUE-4160

Press the ENT button, and the BBE band will be displayed for 5 seconds.

3



BBE - L +2



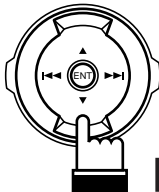
BBE - H +2



RUE-4160

While the BBE band is displayed, press the \uparrow or \downarrow button to display the band (L/H) to be adjusted.

4



RUE-4160

While the band is still displayed, press the Up (8) or Down (9) button to adjust for the desired level.



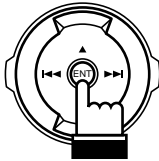
Remote Control Operation

English

Storing Custom Equalizer Settings

1 Customize the equalizer settings as described on page 24 "Customizing the Equalizer Settings".

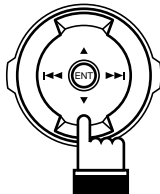
2 Press and hold the ENT button at least 2 seconds.



RUE-4160

P MEMORY

3 Press the 8 or 9 button to select the curve to be stored from PRESET 1 to PRESET 6.

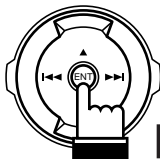


RUE-4160

P-1 MEMORY
P-2 MEMORY
P-3 MEMORY
P-4 MEMORY
P-5 MEMORY
P-6 MEMORY



4 Press the ENT button to store the curve. If you want to store more, repeat the steps above.



RUE-4160

P 1 MEMORY

Note: Each operation should be made within 5 seconds.



Remote Control Operation

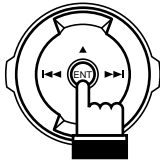
English

Adjusting L.P.S.

1

Select the L.P.S. mode to be adjusted. Refer to page 22 "Choosing the Listening Position Selector (L.P.S.)".

2

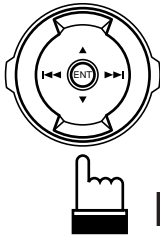


LPS F

Press the ENT button to activate (for 5 seconds) the L.P.S. adjustment mode.

RUE-4160

3



Press the 8, 9, c or f button to adjust for the desired position.

RUE-4160



Remote Control Operation

English

Adjusting the Time Correction

Time Correction:

The distance between the listener and the speakers in a car vary widely due to the special conditions of the mobile environment. This difference in the distances from the speakers to the listener creates a shift in the sounds image and frequency characteristics. This is caused by the time delay between the sound reaching the listener's right versus the left ear.

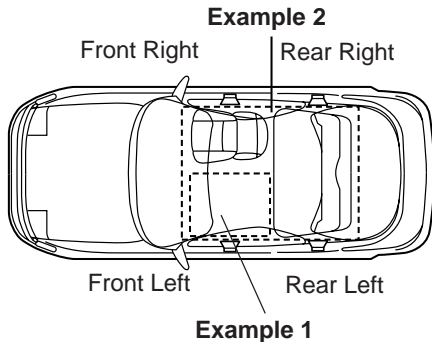
To correct this, the ERA-G311 is able to delay the audio signal to the speakers closest to the listener. This effectively creates a perception of increased distance for those speakers. The listener can be placed at an equal distance between the left and right speakers for optimum staging.

The adjustment will be made for each speaker in a step of 0.1mS.

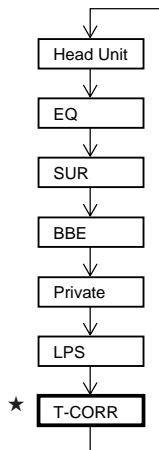
Example 1. Listening Position: Front Left Seat

Adjust the time correction level of the front left speaker to a high value and the rear right to zero or a low value. (See the Illustration.)

Example 2. Listening Position: All Seats
Adjust the time correction level of each speaker to almost the same level. (See the Illustration.)



1



Press the A. PROC to activate the mode T-CORR.



★: Some functions or displays are limited depending on the Head Unit used.

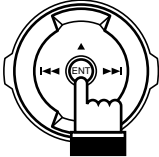


Remote Control Operation

English

Adjusting the Time Correction (Continued)

2



TC F L 0.0

RUE-4160

Press the ENT button to activate the time correction mode. The time correction value will be displayed for 5 seconds.

3



RUE-4160

TC F L 0.0

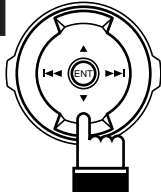
TC F R 0.0

TC R L 0.0

TC R R 0.0

Press the BAND/PROG button to select the channel to be adjusted.

4



RUE-4160

TC F R 5.0

Press the 8 or 9 button to adjust the time correction value.
To advance to the next band, repeat the steps 3 and 4 .



Remote Control Operation

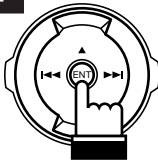
English

Storing the Time Correction

1

Adjust the time correction value referring to page 29 "Adjusting the Time Correction".

2

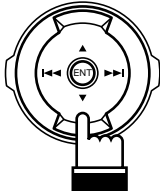


RUE-4160

TC MEMORY

Press and hold the ENT button at least 2 seconds.

3

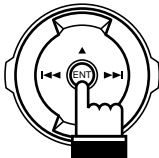


RUE-4160

TC-1 MEMORY
TC-2 MEMORY
TC-3 MEMORY
TC-4 MEMORY
TC-5 MEMORY
TC-6 MEMORY

Press the 8 or 9 button to select the time correction value to be stored from PRESET 1 to PRESET 6.

4



RUE-4160

TC 1 MEMORY

Press the ENT button to store the time correction value. If you want to store more, repeat the steps above.



Note: Each operation should be made within 5 seconds.



Remote Control Operation

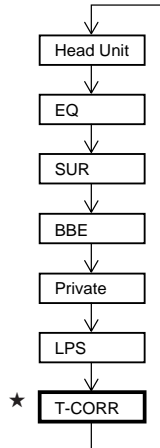
English

Recalling the Stored Time Correction

1



RUE-4160



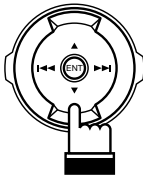
Press the A. PROC button to select the time correction mode.

★: Some functions or displays are limited depending on the Head Unit used.

2

TC 1 \equiv MEMORY

Press the 8 or 9 button to select the stored time correction from PRESET 1 to PRESET 6.



RUE-4160



Remote Control Operation

English

Remote Control Operation		Model	TDA-7638E TDA-7537E TDA-7536E CDA-7939E	CDA-7949E TDA-7558E CVA-1000E	TDA-7664E TDA-7562E TDA-7553E TDA-7551E TDA-7556E/EG TDA-7554E TDA-7552E TDA-7549E TDA-7548E TDA-7547E CDA-7846E CDA-7843E 3DA-7987E	Remote Control
Page 18	Selecting the Factory Preset Equalizer Settings					RUE-4180/RUE-4185 RUE-4160/RUE-4162
Page 19	Selecting the Factory Preset Surround Modes					RUE-4180/RUE-4185 RUE-4160/RUE-4162
Page 20	Selecting the BBE Mode					RUE-4180/RUE-4185 RUE-4160/RUE-4162
Page 21	Recalling the Stored Equalizer Settings					RUE-4180/RUE-4185 RUE-4160/RUE-4162
Page 22	Choosing the Listening Position Selector (L.P.S.)					RUE-4180/RUE-4185 RUE-4160/RUE-4162
Page 23	Turning the Defeat Mode On or Off					RUE-4160/RUE-4162
Page 24	Customizing the Equalizer Settings	7 Band Mode				RUE-4185/RUE-4160 RUE-4162
		14 Band Mode				RUE-4185/RUE-4160 RUE-4162
		Dual Mode				RUE-4185/RUE-4160 RUE-4162
Page 25	Adjusting the Surround Settings					RUE-4185/RUE-4160 RUE-4162
Page 26	Making the BBE by Yourself					RUE-4185/RUE-4160 RUE-4162
Page 27	Storing Custom Equalizer Settings		*1			RUE-4185/RUE-4160 RUE-4162
Page 28	Adjusting L.P.S.					RUE-4185/RUE-4160 RUE-4162
Page 29	Adjusting the Time Correction					RUE-4185/RUE-4160 RUE-4162
Page 31	Storing the Time Correction		*1			RUE-4185/RUE-4160 RUE-4162
Page 32	Recalling the Stored Time Correction					RUE-4185/RUE-4160 RUE-4162

*1: CDA-7939E only



If you encounter a problem, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected or consult your authorized Alpine dealer.

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 following instructions, the unit will not operate with the car's ignition off.• Improper power lead connections.<ul style="list-style-type: none">– Check power lead connections.• Blown fuse.<ul style="list-style-type: none">– Check the fuses on the battery leads; replace with the proper value if necessary.

Specifications

Number of Bands	14
Equalizer Center Frequency Range	50/80/140/200/315/500/800/ 1.2k/2k/3.2k/5k/8k/11k/16kHz
Frequency Response (+1, -1 dB)	20 Hz – 20 kHz
Signal-to-Noise Ratio	100 dBA
Boost/Cut Range	±10 dB
Subwoofer Level Control	0 to +15 dB
Input Impedance	10k ohms MIN.
Output Impedance	1k ohm MAX.
Power Requirement	11 – 16 V DC Negative Ground
Dimensions (W x H x D)	178mm (7") x 50mm (2") x 120mm (4-3/4")
Weight	925g (2 lbs. 1 oz)

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

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