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You can read the recommendations in the user guide, the technical guide or the installation guide for ALPINE PXE-H650. You'll find the answers to all your questions on the ALPINE PXE-H650 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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PXE-H650

Audio Processor
OWNER'S MANUAL



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Manual abstract:

Here is what this symbol means. Understanding it is important for reading the Manual. · Meaning of Symbol: WARNING This symbol means there is something that could cause serious injury or death to you or other people. DO NOT DISASSEMBLE OR ALTER Attempts to disassemble or alter this product can lead to accidental fires or electrical shock. KEEP SMALL ARTICLES OUT OF THE REACH OF CHILDREN Keep small articles (wire-ties, etc.) out of reach of children. If swallowed, consult a physician immediately. USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND Use only in cars with a 12 volt negative () ground electrical system. (Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL Before doing any electrical wiring, disconnect the cable from the negative () terminal of the battery. Failure to do so may result in electric shock or injury due to electrical shorts. KEEP ELECTRICAL CABLES TOGETHER TO AVOID OPERATING HAZARDS Dress the wiring to keep them from interfering with the operation of the steering wheel, gear lever, brake pedals, etc. DO NOT CUT AWAY INSULATION FROM ANY WIRE TO POWER OTHER EQUIPMENT Tapping power from wiring to supply voltage to another piece of equipment could exceed the current carrying capacity of that wire. This could result in fire or electric shock.

DO NOT INSTALL IN LOCATIONS WHICH MIGHT HINDER VEHICLE OPERATION Do not install in locations which might create hazards for the vehicle occupants or hinder vehicle operation (such as the steering wheel or gear shift) by obstructing forward vision or hampering movement etc. DO NOT DAMAGE PIPES OR WIRING WHEN DRILLING HOLES When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, tanks or electrical wiring. Failure to take such precautions may result in fire. DO NOT USE NUTS OR BOLTS IN THE BRAKE SYSTEM FOR INSTALLATION OR GROUND CONNECTIONS Never use safety-related parts such as bolts or nuts in the steering or brake systems or tanks to make wiring installations or ground connections. Using such parts could disable control of the vehicle and cause fire etc.

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 EQUIPMENT OR LOOK AT THE SCREEN 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.

HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS The wiring and installation of this unit requires special technical skill and experience. To ensure safety, always contact the dealer where you purchased this unit to have the work done. DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST Avoid installing the unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may cause smoke or fire. MAKE THE CORRECT CONNECTIONS Failure to make the correct connections can cause fire or accident to occur. ARRANGE THE WIRING SO IT IS NOT CRIMPED OR PINCHED Route the cables and wiring so as not to be crimped by moving parts like seat rails or to make contact with sharp spots which could damage the wiring.

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

Temperature Be sure the temperature inside the vehicle is between +60°C (+140°F) and 10°C (+14°F) before turning your unit on. Fuse Replacement When replacing the fuse(s), the replacement must be of the same amperage as shown on the fuse holder. If the fuse(s) blows more than once, carefully check all electrical connections for shorted circuitry. Also have your vehicle's voltage regulator checked. Maintenance If you have problems, do not attempt to repair the unit yourself. Return it to your Alpine dealer or the nearest Alpine Service Station for servicing.

Installation Location Make sure the PXE-H650 will not be exposed to: · Direct sun and heat · High humidity · Excessive dust · Excessive vibrations

CONTENTS Warnings

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5 SETUP CD - Contents

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..22 4 FEATURES/DESCRIPTION The Alpine PXE-H650 is a versatile processor that takes an OK sounding factory system turns it into a high-end, audiophile system. The PXE-H650 utilizes advanced sound tuning of the factory equipment to correct the acoustical problems inherent in the vehicle. Using AntEQ™ to remove any factory pre-equalization, Audyssey MultEQ™ flattens the frequency response inside the vehicle's interior and adjusts the overall response to a preselected target curve. Once sound levels are balanced, and the system is tuned for optimum response, the addition of Alpine amplifiers and speakers give significant improvement over your factory hardware. Additional amps for tweeters and subwoofers provide a quality, bi-amped system extending the system's response far beyond what a normal factory system is capable of. It's easy to upgrade from factory to Alpine! **WARNING** It is dangerous and illegal for the driver to watch Video/TV while driving any vehicle. The driver may be distracted from looking ahead and an accident could occur.
Features: AntEQ and MultEQ (Imprint technology) AUX Input (Audio) 5-Channel Factory Head Unit Input (Speaker or Line Level) 6.

1 Channel Analog Line Level Outputs (Front 1/2, Rear, Subwoofer) 3 Custom Parametric EQ Bands Crossover: Front 1/2 HP, Front 2 LP, Rear HP, Sub LP 7-Channel Time Correction Source-Tone Memory 2 User Presets IR Remote Control for Source, Sub Level, Muting, Bal/Fad and User Presets 5 **CAUTION** Input Level Adjustment The overall sound quality of the PXE-H650 is determined by the adjustments made by the Digital Signal Processor. The accuracy of these adjustments are directly affected by the input to the processor. Therefore, it is very important that the output from the factory radio be properly set so the PXE-H650 receives the correct audio level (not so high that it's distorted and not so low that it's noisy). This ensures that the DSP chip in the unit can see every detail of the audio signal.



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This important step is done during the initial stages of the Set Up sequence. The input to the PXE-H650 is equipped with an auto-ranging circuit. This keeps the DSP input at a constant level for better noise immunity and signal processing. It is suggested that the factory head unit volume level be set at about 2/3 to 3/4 of its maximum volume. This position should be remembered (mark the control in some way or remember the Volume number in the display) so if it is ever moved, it can be returned easily to the same position. Other functions such as factory EQ settings or position settings must also be turned off.

Balance and Fader positions must be centered. SETUP CD - Contents H650 Setup Disc 1. Track - Auto range setup This track is used with auto ranging to set input levels 2. Track - AntEQ setup This track is used with AntEQ for factory pre-equalization removal 3. Track - Adjust Amp Levels This track is used by the installer to make coarse adjustments to amplifier levels.

6 REMOTE CONTROL 4 2 5 3 1 6 7 Remote Function Call-outs 1 AUX Source Select 2 Factory H/U Select 3 Volume UP 4 User Preset 1 5 Subwoofer DN 6 Subwoofer UP 7 Volume DN 8 User Preset 2 9 Treble EQ UP/DN 10 Midrange EQ UP/DN 11 Bass EQ UP/DN 12 Balance Left (CLEAR) 13 Balance Right (DONE) 14 Fader Rear (CANCEL) 15 Fader Front (MEASURE) C Mute Center (both BAL and FAD) 8 9 10 15 11 12 14 13 7 MAIN CHASSIS 8

WIRING/CONNECTIONS Front Panel Chassis 1 USB Port - USB cable required for PC control/setup (PC software on supplied CD) 2 MULTEQ LED - Output for included LED; EQ Status indicator during setup 3 RESET - Press & Release button for: Clear settings, Factory Reset, or Redo MultEQ setup Rear Panel Chassis 4 POWER SUPPLY Harness (6-Pin) · Ground (BLK) Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using a sheet metal screw. · Battery (YEL) This is a constant +12V for the main unit. It will remain powered even when the Ignition key position is OFF. It draws minimal current to maintain processor memory.

· Remote OUT (BLU/WHT) This output can turn on external amplifiers. The signal goes high after the PXE-H650 audio mute is OFF. · Remote ON (BLU/WHT) If the OEM head unit is not turning on the EQ using the AUTO RANGING INPUT, use this wire. Connect this wire to the 'Auto Turn On' lead of the Factory head unit or a switched 12 VDC source (Ignition). · Remote Control (WHT/BRN) This input provides a means by which an external source, connected to AUX, is controlled. 5 REMOTE IR INPUT (2.5mm mini-phono) - Input for external remote eye (included) 6 WIRED REMOTE INPUT (3.5mm mini-phono) - Input for steering wheel control (factory option); Note: Using this input disables the factory head unit steering wheel controls. 7 AUX PRIMARY SOURCE - Turn this switch ON, if a factory radio source is not being used. This accommodates an aftermarket radio using the AUX INPUT.

8 CLIP - This LED is ON whenever the AUX source is over the input limit. 9 AUX INPUT LEVEL - Use this trimmer control to adjust the AUX INPUT below clipping. 10 AUX INPUT - Use this input for an auxiliary source or an aftermarket head with line outputs. 11 MIC - 3.5mm T/S jack for included microphone 12 AUTO RANGING INPUT - Use this input for the factory head unit. This input is 'auto ranging' to handle a wide range of factory head unit outputs. It will accept speaker or line level outputs. It has 5 input pairs for Front & Rear Left +/-, Right +/-, and Subwoofer +/- 13 RCA OUTPUT - 2 Front L/R Pairs, 1 Rear L/R Pair, 1 Subwoofer Mono Front L1/R1 For Factory High-pass Output Front L2/R2 For Factory Low-pass Output (or Full Range Output) Rear L/R For Factory Rear, Full Range Output Subwoofer For Factory Subwoofer Output Note: OUTPUT: INPUT: F enough level to provide a good signal for accurate processing to take place. The PXE-H650 utilizes an auto-ranging circuit for the Factory Head Unit input.

This enables considerable flexibility in making output adjustments of the factory head unit. Once the level is set, the factory volume control (and others) should not be changed. Volume will be controlled through the PXE-H650 using the supplied remote control. Play Track 1, "Autorange Setup," of the Setup CD loaded in Step 2 above. 4.

"ENTER TO SETUP" This is displayed when the PXE-H650 is Powered UP for the first time (or after a 'FACTORY RESET' is performed). Press "ENTER" to initiate SETUP sequence. SETUP continues with Auto Ranging level setting ("CHECKING INPUTS"). "CHECKING INPUTS" - Checking and setting input levels from the head unit Before AntEQ begins analyzing the factory radio's output, proper signal levels are required. The Auto-ranging process is completed when "ENTER TO START ANTEQ" is displayed.

Play Track 2, "AntEQ Setup", of the Setup CD loaded in Step 2 above. 6. "ENTER TO START ANTEQ" - Continue with AntEQ processing Press ENTER to continue to the AntEQ procedure. Whatever levels were set during auto-ranging are now used as the baseline response for AntEQ. 11 5. BASIC OPERATION 7. "AntEQ SAVING" - AntEQ completes and saves the resulting filters. AntEQ has flattened out any equalization that is inherent in the factory radio. This is in preparation for the MultiEQ process in the upcoming steps. After completing this process, the settings are saved and recalled when required for new settings.

2-Way Output Settings 8. "2-WAY OUTPUT" - Following "AntEQ SAVING" If the FRONT Output is configured as a 2-Way system, select 'Y' at the prompt and press "ENTER." The default 'N' assumes only a single, full range Front (Front L2/R2). If 'Y' is selected, the crossover is set in Step 9 below. If 'N' is selected, skip to the AMP LEVELS adjustments. FRONT 1 is turned OFF and FRONT 2 is set as a Full Bandwidth output. WARNING: Output of the PXE-H650 is not muted at this point. Make sure volume levels are at reasonable levels. 9. "FRONT 1 HPF" - Set the High-pass crossover point The FRONT 1 high-pass crossover is set to 5 kHz by default.

This also selects the FRONT 2 Low-pass crossover at the same point. Use the or button to change the value in the HPF field. Values available for each crossover are listed in the "ADJUSTMENTS & RANGES" section. Press "ENTER" to continue. WARNING: Output of the PXE-H650 is not muted at this point.

Make sure volume levels are at reasonable levels. Amplifier Levels 10. "ADJUST XOVER + AMP LEVELS" - Make adjustments to match amp levels Play Track 3 of the PXE-H650 Setup Disc in the Factory Head unit. This is a Pink Noise signal to facilitate the trimming of the amplifier level controls.

WARNING: Output of the PXE-H650 is not muted at this point.

Make sure volume levels are at reasonable levels.



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While listening to the system, use the amp's level controls to match the output of each of the speakers. Level matching does not have to be exact as the MultEQ processing will make the final tweaks to the system. Matching levels as closely as possible makes MultEQ's job a little easier and faster. Typical coarse amp levels are: 12 o'clock (middle position on gain controls) for Front and Rear amp input levels, 9 o'clock (or 1/4 position) for Subwoofer amp input level. 12 11. After all adjustments have been made, press "ENTER" to continue to MultEQ calibration. BASIC OPERATION MultEQ Calibration At this point in the process, a baseline response curve has been created and stored for your specific vehicle. This curve ensures that the MultEQ algorithms are working with a reasonably neutral sounding curve. This eliminates all the peaks and dips in the source unit, making MultEQs job much easier.

1. "ENTER TO START MULTEQ" - Prepare vehicle for calibration Make sure the MultEQ LED and microphone are connected (TIP: LED is OFF if no mic connected). The MultEQ LED is Green and blinks at 1Hz when LED and Microphone are properly connected. The microphone should be placed in the primary listening position (normally the driver's seat). This position is saved as PRESET 1 and is used as the reference for all further DSP calculations. @@The MultEQ LED blinks slowly (1 Hz) during normal operation. 2. @@@@Position the Mic in location 1 and exit the vehicle. Close all windows. Press MEASURE on the remote control to begin (see Page 7).

4. @@@@Press the reset button after correcting any problems. Navigate to "RECALIBRATE MULTEQ" in the display. @@@@The MultEQ LED illuminates a steady green. @@Make any necessary corrections to position, etc.

It will then be necessary to restart the calibration sequence. @@Press "ENTER" to select this option. The "2-WAY OUTPUT" screen is displayed. Configure this setting the same as previous MultEQ sequence. @@@@Repeat Step 5 above for this new position.

Continue this process for up to 5 more microphone positions. 4 calibrated positions is the minimum for proper MultEQ response. 6 positions is recommended for optimal results. @@NOTE: Mic Position 1 is stored in PRESET 1. Mic Position 2 is stored in PRESET 2. @@@@From the Main Menu, four options are available. @@The current levels and AntEQ settings are not changed. @@This returns the processor to the last MultEQ baseline response. @@The entire calibration procedure must be redone. ·CANCEL: Press ENTER at this display to return to PXE-H650 STANDBY mode.

Demo Mode Overview ·Demo mode will allow the user to audition MultEQ/AntEQ ON and OFF with the press of a single button on the remote control. Demo Mode ·Press the MODE button once on the PXE-H650 to reach the Demo mode screen on the LCD. Press the "ENTER" button once to enter the Demo mode. At this time, "DEMO MODE ON" appears in the display. Press the Fader "REAR" button to turn OFF MultEQ/ AntEQ, while pressing the Fader "FRONT" button turns MultEQ/AntEQ ON. ·While in the Demo mode, all remote controller buttons are locked out except: Volume UP, Volume DOWN, HU and AUX source switch buttons, and MUTE (if AUX PRIMARY SOURCE switch is ON then HU source switch button is also locked out). ·Press the "ENTER" button again to turn off the Demo mode and resume normal operation. At this time, "DEMO MODE OFF" appears in the display. 15 SOUND

CUSTOMIZATION Introduction Each output of the PXE-H650 has a 3-Band, parametric equalizer, up to 10 ms of time correction and customizable crossover points for High-pass, Low-pass and Subwoofer. Experimentation with the sound is encouraged, as a simple press of the RESET button and selecting "CLEAR SETTINGS" will return all settings back to their original, corrected levels before customization began.

The following procedure explains the steps necessary to customize the Parametric EQ, Time Delay and Crossover. Use the same procedure described below, for each of the channels being modified. Pressing "ENTER" gets you into the program screen mode, which will allow current values to then be changed. Navigate to "SAVE SETTINGS" screen and press ENTER to store changes in memory. Parametric Equalizer The Equalizer uses 3 Bands for each of the 7 channels to customize the tone of the music.

Each Source Input to the PXE-H650 has its own EQ. Each of the Bands (Bass, Mid and Treble) is adjusted in a similar manner. The following steps use the Bass Band as an example. Use the same steps to make changes to the Mid and Treble Bands as well. Equalizer 1.

2. Press MODE to enter Custom Tuning mode. With "PRESET 1" in the display, use the or buttons to choose the MIC position to modify or to choose the EQ Adjustment mode. (PRESET 1 or PRESET 2) a) PRESET 1 refers to the Primary Mic position. PRESET 2 refers to the Second mic position. b) Upon making the Mic Position selection, use the button to move to the next selection mode. The next parameter to modify (Crossover, or Time Delay) is selected as described following EQ Adjustment. * Use the button to return to the PRESET selection mode. EQ Adjustment a) Use the or buttons to select "CUSTOM AUX EQ" or "CUSTOM HU EQ." b) The user can also use these buttons to select "CROSSOVER" or "TIME DELAY" when in the PRESET 1 or PRESET 2 menus (in 2b above).

The following BASS adjustment procedures are similar in nature to the MID and TREBLE adjustments. Substitute "MID" or "TREB" for "BASS" and perform the same procedure mentioned below for "BASS." 3. 16 SOUND CUSTOMIZATION 4. Select the EQ Band to adjust. a) Use the or button to make the selection. In this example, "BASS" (or "MID" or "TREB"). b) Once the Band has been selected, Press "ENTER" to begin making the adjustments. Modify 3 different EQ parameters: LEVEL, Q, and Fc. Use the or buttons to choose the parameter to modify.

Use the or buttons to change the parameter. a) LEVEL is adjustable from -6 dB to +6 dB using the or buttons. This adjustment will effectively lower by 25% or increase by 400%, the output at the center frequency. The LEVEL changes in 1 dB steps. b) Q (Q-factor) is adjustable from 0.

5 (wide band) to 2.0 (narrow band). The Q determines how much the frequencies below and above the center frequency are affected by the LEVEL adjustment in 'a.' Use the or buttons to choose a Q-factor from 0.5 to 2.

0 in steps of 0.5. c) Fc (center Frequency) is adjustable from 30 to 150 Hz. This is the point of maximum effect for the EQ LEVEL adjustment. All frequencies above and below Fc are affected to a lesser degree, depending on the Q setting. The frequencies are selectable using the or buttons. They vary for each band and are listed below. BASS EQ: Fc = 30, 40, 50 60, 80, 100, 125, 150 (Hz) MID EQ: Fc = 500, 750, 1k, 1.



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5k, 2k, 3k, 4k, 5k (Hz) TREB EQ: Fc = 6k, 7.5k, 10k, 12.

5k, 15k, 17.5k (Hz) d) Upon completing the adjustment, press ENTER to save values and exit back to the "CUSTOM EQ" HU or AUX sub-menu headings of BASS, MID or TREB EQ. e) Use the MODE button at any point, to return to the previous sub-menu. 5. Crossover Overview The PXE-H650 crossover allows custom cut-off points for the high-pass and low-pass filters of the Front and Rear speakers and the Subwoofer. This is especially useful when the factory speakers have been upgraded to handle a much wider audio bandwidth. Crossover 1. 2. Press MODE twice to enter Custom Tuning mode. Navigate to the right with the right cursor button.

With "PRESET 1" in the display, use the or buttons to choose the MIC position to modify. a) PRESET 1 refers to the Primary Mic position. PRESET 2 refers to the Secondary position. b) Upon making the Mic Position selection, use the button to move to the next selection mode. The next parameter to modify (Crossover, or Time Delay) is selected as described below.

* Use the button to return to the PRESET selection mode. 17 3. Crossover Adjustment a) Use the or button to make the selection. In this example, "CROSSOVER" b) The user can also use these buttons to select "TIME DELAY." The following "FRONT 2" adjustment procedures will be similar in nature to adjustments for the other channels.

Just substitute "FRONT 1," "REAR," or "SUBWOOFER," for "FRONT 2." The procedure is the same with only the parameters slightly different, as shown at the end of this section. 4. Enter the Channel select mode by using the button. "FRONT 1" is displayed. a) Use the or button to choose a channel. In this example, "FRONT 2." Note: Use the same procedure to select any of the other channels. b) User can also use the button to return to the previous level with "CROSSOVER" or "TIME DELAY" selections. c) Once the channel has been selected, Press "ENTER" to begin making the adjustment.

Modify 2 different Crossover parameters: LEVEL and Fc (cut-off Frequency). Once Fc is selected, the Crossover becomes active. Use the or buttons to choose the parameter to modify. Use the or buttons to change the parameter. a) LEVEL is adjustable from -15 dB to +15 dB using the or buttons. This adjustment changes the LEVEL in 1 dB steps. The range for this parameter remains the same for ALL Channels in ALL modes. b) The Fc adjustment depends on the output mode. The or buttons select the frequency. The frequency range of FRONT 2 changes based on the FRONT 1 configuration.

Once FRONT 1 is activated (Fc selected), FRONT 2 changes from a High-pass crossover to a Band-pass crossover. This is to accommodate the 2-way output mode. The Fc changes as follows: Output Mode 2 or 4 CH, w/wo Sub FRONT 1 NA FRONT 2 HPF: 50 - 200 Hz @ -12 dB/oct LPF: 200 - 5k Hz @ -12 dB/oct; HPF: 50 - 200 Hz @ -12 dB/oct REAR HPF: 50 - 200 Hz @ -12 dB/oct HPF: 50 - 200 Hz @ -12 dB/oct SUB LPF: 50 - 200 Hz; -12/-24 dB/oct LPF: 50 - 200 Hz; -12/-24 dB/oct 5. 2-Way, 4-CH, 6-CH; w/wo Sub HPF: 200 - 5 kHz @ -12 dB/oct c) For the Subwoofer Channel, a third parameter is available.

Use the or buttons to toggle between the 12 dB/oct or 24 dB/oct crossover slopes.

d) Upon completing the adjustment, press ENTER to exit back to the "CROSSOVER" sub-menu. e) If all CROSSOVER adjustments have been completed, use the button to return to the PRESET selection mode. Press ENTER again to exit and save the adjustments. f) Use the MODE button at any point, to return to the previous sub-menu to make additional adjustments. "SAVE SETTINGS" stores changes in memory.

18 Time Delay Overview MultEQ determines the default delay during initial Setup. However, there may be times when the delay needs to be tweaked or temporarily modified. Be advised, any changes made causes deviation from MultEQ's default specs and no longer conforms to its ideal sound stage. All channels have delays adjustable from 0 to 10ms in 0.1ms steps. Time Delay 1. 2. Press MODE twice to enter Custom Tuning mode. With "PRESET 1" in the display, use the or buttons to choose the MIC position to modify. a) PRESET 1 refers to the Primary Mic position.

PRESET 2 refers to the Second mic position. b) Upon making the Mic Position selection, use the button to move to the next selection mode. The next parameter to modify (Crossover, or Time Delay) is selected as described below. * Use the button to return to the PRESET selection mode. c) Use the or buttons to choose TIME DELAY. d) Press the button to move to the Channel selection mode. e) Use the or buttons to select a Channel to modify (FRONT LEFT 1/RIGHT 1, FRONT LEFT 2/RIGHT 2, REAR LEFT,RIGHT, SUBWOOFER). Use the button to return to the PRESET selection mode. Time Correction a) With the desired channel selected, press ENTER, to begin the adjustment. b) Use the or buttons to change the delay (from 0 to 10ms) for each channel.

c) Upon completing the adjustment, press ENTER to exit back to the "TIME DELAY" sub-menu. d) If all "TIME DELAY" adjustments have been completed, use the button to return to the PRESET selection mode. Press ENTER again to exit and save the adjustments. Selecting "SAVE SETTINGS" stores changes in memory. e) Use the MODE button at any point, to return to the previous sub-menu.

to make additional adjustments. 3. NOTES: · Customization alters the MultEQ post-calibration settings. Doing this may or may not result in an improvement of the overall sound quality. · If setup includes a 2-Way output, the FRONT 1 High-pass and FRONT 2 Low-pass cut-off frequencies should not be altered during customization.

If these crossover points must be changed, the MultEQ calibration must also be rerun. 19 20 MOUNTING 237.6mm 114.9 mm ADJUSTMENTS & RANGES 3 Band Parametric Q

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Impedance Frequency Response THD SNR GENERAL Power Requirement Operating Current Operating Temperature Dimensions Weight VALUE 16 Vrms
1.5 Vrms (AUX PRIMARY OFF) 2.5 Vrms (AUX PRIMARY ON) < 1k 20 Hz to 20 kHz < 0.



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2% 82 dB 12.0 VDC (11-16 VDC allowable) < 700 mA +14°F to +140°F -10°C to +60°C) 252mm x 38mm x 149mm 1.0kg/35.

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..... x 1 NOTES: Due to continuous product improvements, specifications and design are subject to change without notice. 22 TYPICAL OEM SYSTEM 23 TYPICAL AFTERMARKET SYSTEM 24 NOTES LIMITED WARRANTY 26 27 R ALPINE ELECTRONICS, INC. Tokyo office; 1-1-8 Nishi Gotanda, Shinagawa-ku, Tokyo 141-8501, Japan Tel.: (03) 3494-1101 ALPINE ELECTRONICS OF AMERICA, INC. 19145 Gramercy Place, Torrance, California 90501, U.

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