MANUFACTURER'S LIMITED TWO YEAR

WARRANTY

LEGACY SOUND CORP. warrants this unit to be free from defective material or workmanship and will repair or replace this unit or any part thereof if it proves defective in normal use or service within two (2) years from the date of original purchase.

Our obligation under this warranty is limited to repairing or replacing, at our discretion, the defective instrument or any part thereof when it is returned, transportation prepaid to the Legacy Service Center at the address below. This warranty will be considered void if the unit has been tampered with, improperly serviced, subjected to abuse or misuse or if installed in a commercial vehicle. This warranty does not cover accidental damage. When returning this unit for service, please include \$15.00 for return postage and handling. Send your unit to:

IMPORTANT: Pack carefully in original carton if possible. We are not responsible for damage incurred in returning items for repair. A letter stating your exact street address, daytime phone number, and the problem you are experiencing should be included. You must also enclose a copy of the original receipt as proof of date of purchase.

LEGACY SERVICE CENTER 1600 63rd Street Brooklyn, NY 11204

FOR YOUR PROTECTION Completely and immediately mail the Product Registration Card so that we may contact you directly in the event a safety notification is issued in accordance with the 1972 Consumer Product Safety Act, or for other reasons Legacy may deem

TECHNICAL SUPPORT HOTLINE
Our technical department will gladly answer any questions
you may have about our products. They cannot, however
tell you the status of a repair, or handle other customer

1-800-934-2277

Monday through Thursday, 9AM to 5PM Friday 9AM to 2PM Eastern.





LA438 LA538 **LA638 LA738** LA838 LA938 LA1038 LA1438 LA1838 LA2038

HIGH SPEED CAR AMPLIFIER

USER'S MANUAL

American Legacy amplifier !

Legacy amps are some of the most advanced car amplification products available. These quality audio products are designed and engineered to afford you years of uncompromised musical service. Legacy has utilized the latest electronic technologies in order to deliver a superb listening experience.

This innovative system has been designed utilizing a 12 V DC Negative Ground power supply. The LEGACY Series amps incorporate two to eight MOSFETS in the different models.

This design produces enough available voltage to supply the main amplifier sections, and still have a huge amount of reserve voltage for peak "high demand" situations.

The Legacy line has been designed to ensure adequate headroom for even the most demanding peaks and dynamic ranges found on today's CD's and recordings. Used properly, these amplifiers will provide you with years of listening pleasure.

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- MONO-BRIDGED SPEAKER CONNECTIONS
- TROUBLESHOOTING
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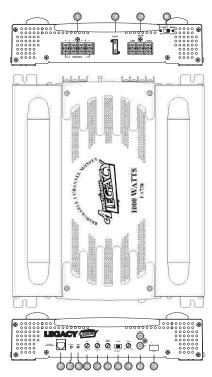
American Legacy Amplifier Features

- LED Light Bar with Hold or Scan
 Soft turn on/off circuit
 Variable gain control
 Remote turn on/off
 Hi/low level inputs
 Power on LED indicator

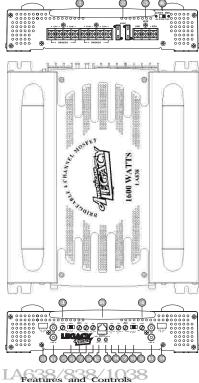
- Fully adjustable electronic crossover network
 Remote control Bass boost (0 +18dB @ 60Hz)
 2 ohm stereo stable
 Bridgeable into 4 ohms
 MOSFET PWM power supplies
 LED protection indicator

Specifications	LA438 2CH amplifier	LA538 2CH amplifier	LA638 4CH amplifier	LA738 2CH amplifier	LA838 4CH amplifier	LA938 2CH amplifier	LA1038 4CH amplifier	LA1438 2CH amplifier	LA1838 2CH amplifier	LA2038 2CH amplifier
OUTPUT POWER RMS @ 4 OHMS RMS @ 2 OHMS MAX OUTPUT BRIDGE MODE FREQUENCY RESPONSE	2 X 60W	2 X 50W 2 X 75W 2 X 400W 1 X 800W	4 X 35W 4 X 55W 4 X 250W 2 X 250W+500W 0R 2 X 500W	2 X 75W 2 X 125W 2 X 500W 1 X 1000W	4 X 50W 4 X 75W 4 X 400W 2 X 400W+800W 0R 2 X 800W	2 X 90W 2 X 150W 2 X 600W 1 X 1200W	4 X 75W 4 X 115W 4 X 500W 2 X 500W+1000W 0R 2 X 1000W	2 X 125W 2 X 200W 2 X 800W 1 X 1600W	2 X 150W 2 X 225W 2 X 1000W 1 X 2000W	2 X 200W 2 X 300W 2 X 1200W 1 X 2400W
•	TUHZ-3U KHZ									
INPUT IMPEDANCE LOW LEVEL INPUTS HIGH LEVEL INPUTS	10 k-Ohms — 100 Ohms —									1
INPUT SENSITIVITY LOW LEVEL INPUTS	250 mV									
HIGH LEVEL INPUTS	2.5V									
POWER SUPPLY VOLTAGE	14.4 VDC/NEG (GD (10.5-16V)								
MATCHING SPEAKER IMPEDANCE STEREO MODE BRIDGED MODE	2-4 OHMS 4-8 OHMS	2-4 OHMS 4-8 OHMS	2-4 OHMS 4-8 OHMS	2-4 OHMS 4-8 OHMS	2-4 OHMS 4-8 OHMS	2-4 OHMS 4-8 OHMS	2-4 OHMS 4-8 OHMS	2-4 OHMS 4-8 OHMS	2-4 OHMS 4-8 OHMS	2-4 OHMS 4-8 OHMS
MAXIMUM CURRENT DRAW	15 A	15 A	20 A	20 A	30 A	30 A	40 A	30 A	40 A	50 A
DIMENSIONS, W x H x L, inches (mm)	11 X 2.7 X 8.2 (279 X 69 X 209			11 X 2.7 X 12 (279 X 69 X 305)		11 X 2.7 X 13.5 (279 X 69 X 343)	11 X 2.7 X 17 (279 X 69 X 432)		11 X 2.7 X 17 (279 X 69 X 432)	
NET WEIGHT, LBS (KG)	5.7 (2.5)	6.2 (2.8)	8.1 (3.7)	7.5 (3.4)	9.5 (4.3)	8.4 (3.8)	10.6 (4.8)	9.2 (4.2)	10.6 (4.8)	11.4 (5.2)





LA438/538/738/938/1438/1838/2038



LA438

LA538

LA738

Making Power Connections

- 1. Connect the +12V terminal directly to the car battery (+) terminal.
- 2. Connect the GROUND terminal directly to the car battery (-) terminal OR to a good clean, paint-free chassis ground point.
- 3. To ensure a good ground, and to prevent "motor-boating" noise in the system, make an additional connection from the car battery (-) terminal to the chassis of the stereo unit, using 12 gauge minimum wire.
- Connect the REMOTE terminal to an external switch for positive 12V turnon-off. This may be connected to the head unit power antenna lead.

Installation Precautions

This amplifier comes complete with all mounting harware required. Please remember that this is a high-power unit, which generates considerable electrical energy and heat. Therefore, be sure to install the unit in a place with sufficient airflow, a minimum of dust, and no moisture. Allow enough space around the cooling first to permit reasonable airflow and cooling.

Electrical Connections

(all models)

- · Before you drill or cut any holes, investigate your car's layout very carefully. Take care when you work near the gas tank, fuel lines, hydraulic line
- Do not operate the amplifier when it is unmounted. Attach all audio system components securely within the automobile to prevent damage, especially in an accident.
- Do not mount this amplifier so that the wire connections are unprotected or in a pinched condition, or likely to be damaged by nearby objects. Be sure to select a location inside your vehicle which has adequate ventilation.
- Before making or breaking power connections in your system, disconnect the vehicle battery. Confirm that your head unit or other equipment is turned off while connecting the input jacks and speaker terminals.
- If you need to replace the power fuse, only replace it with a fuse identical to that supplied with the system. Using a fuse of a different type or rating may result in damage to your system which isn't covered by the manufacturer's warranty.

Setting Up and Turning On Your New Amplifier

After all electrical connections have been made, and physical installation is complete, turn on your stereo and listen for the amplifier to turn on. If there are any unusual noises from the speakers, turn the stereo off and recheck ALL wiring.

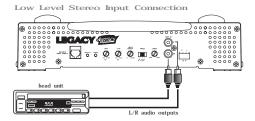
Assuming the amplifier turn on normally, you may have to adjust the LEVEL control(s) to match the output levels from your head unit. Follow these steps:

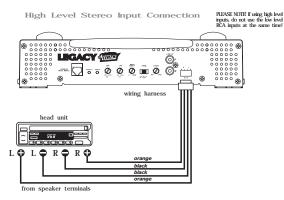
- 1. Set the volume control on your head unit to about the 2/3 position
- 2. Adjust the amplifier LEVEL control(s) to an average listening position
- 3. Turn the head unit volume all the way down, and listen for background noise
- 4. Start your vehicle, and again, listen for background noise.
- 5. By fine tuning the LEVEL control(s), you can reduce background and engine noise, if present.

These adjustments should only be made once. After that, use the head unit volume control to adjust the system volume, not the LEVEL control(s).

CAUTION: Never turn the LEVEL control(s) up any higher than you need to get clear sound at 2/3 volume on the head unit

Electrical Wiring and Installation

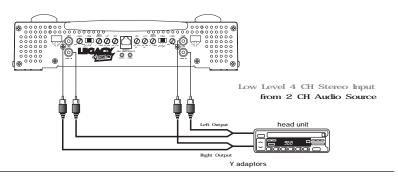


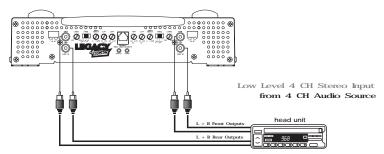


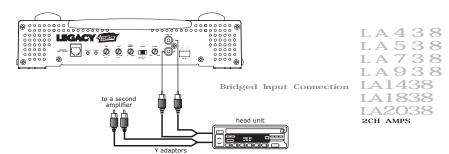


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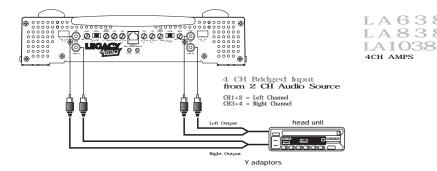




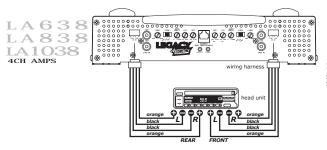




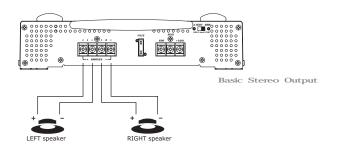




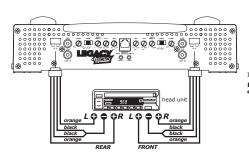
Input Connections Input Connections



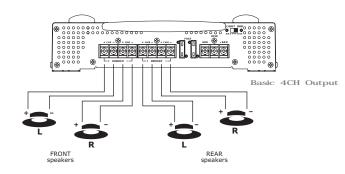
High Level 4 CH Stereo Input from 4CH Audio Source floating ground connection



LA438 LA538 LA738 LA938 LA1438 LA1838 LA2038 2CH AMPS



High Level 4 CH Stereo Input from 4CH Audio Source common ground correction

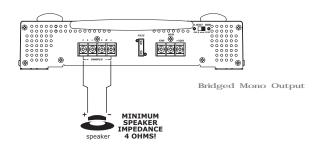


LA638 LA838 LA1038 4CH AMPS

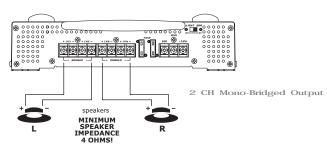




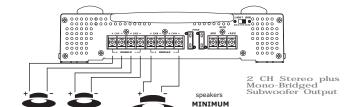








Speaker Connections



SPEAKER IMPEDANCE 4 OHMS!

YES!

LA638 LA838 LA1038 4CH AMPS

- Amplifier will not power up.

 Check for good ground connection.

 Check that there is battery power on the + terminal.

 Check that there is battery power on the + terminal.

 Check all fuses.

 Check that Protection LED is not it. if it is lit, shut off amplifier
 - briefly and then repower it.

High hiss or engine noise (alternator whine) in

- Disconnect all RCA inputs to the amplifier(s) if hiss/noise disappears, then plug in the component driving the amplifier and unplug its inputs. If hiss/noise disappears, go on until the faulty/noisy component is found.
- It is best to set the amplifier's input level as insensitive as possible. The best subjective S/N ratio is obtainable this way. Try to drive as high a signal level from the head unit as possible.

Protection IED comes on when the amplifier is

- Protection IED comes on when the ampuner is powered up.

 Check for shorts on speaker leads.
 Check that the volume control on the head unit is turned down low.
 Remove speaker leads, and reset the amplifier. If the Protection LED still comes on, then the amplifier is faulty.

- Amplifier(s) gets very hot.

 Check that the minimum speaker impedance for that model is correct.

 Check for speaker shorts.

 Check that there is good airflow around the amplifier. In some applications, an external cooling fan may be required.
- Distorted sound:

 Check that the Level control(s) is set to match the signal level of the head unit.

 Check that all crossover frequencies are properly set.

 Check for shorts on the speaker leads.

High squeal noise from speakers.

This is almost always caused by a poorly-grounded RCA patch cord.



NO!



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