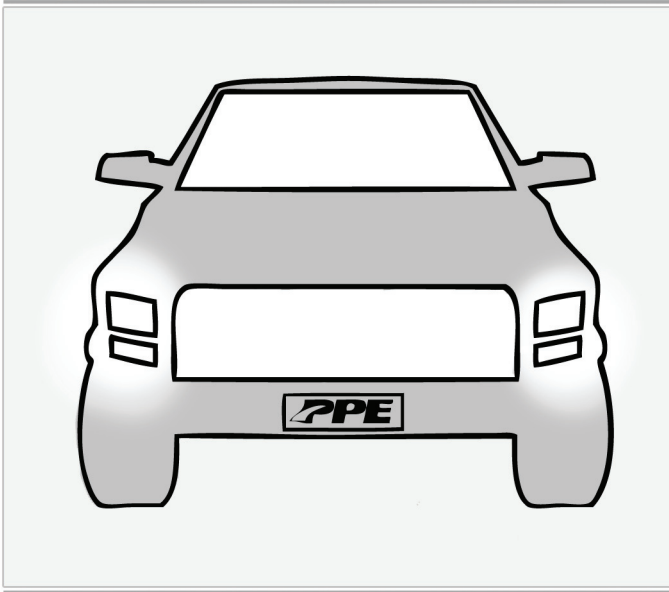


Pacific Performance Engineering, Inc.
www.ppediesel.com

XENON HID



CONVERSION

Installation Guide



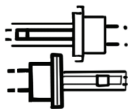
Disconnect Battery Prior to Installation.

Please read users manual before installing.
Check local laws regarding the use of HID lights.
This product is intended for off road use only.

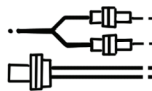
Section 1 – SAFETY INTRUCTIONS

- Do not touch the HID bulb at any time. If the bulb comes into contact with skin clean it with alcohol and allow it to dry before installing.
- Don't look into bulb when turned on, this may cause permanent damage to your eyes.
- After installing the HID bulbs, your headlights must be adjusted. If the head lights are not properly adjusted, you will impair the vision of drivers.
- Please consult the users manual or a professional to adjust your headlights.
- Check that all wires and connectors are not close to hot surfaces. Overheating the wires against a hot surface may cause electrical problems.
- Do not turn lights on and off rapidly. This will shorten the life of your bulbs.
- If your vehicle uses Auto-On headlights, disable them and switch to Manual-On mode.
- Please keep this manual for future reference and warranty.

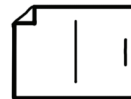
Components



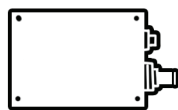
Xenon Bulb



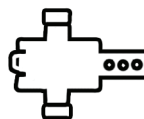
Harness



Installation Manual



Ballast



Mounting Bracket

Section 2 - PRE-INSTALLATION INSTRUCTIONS

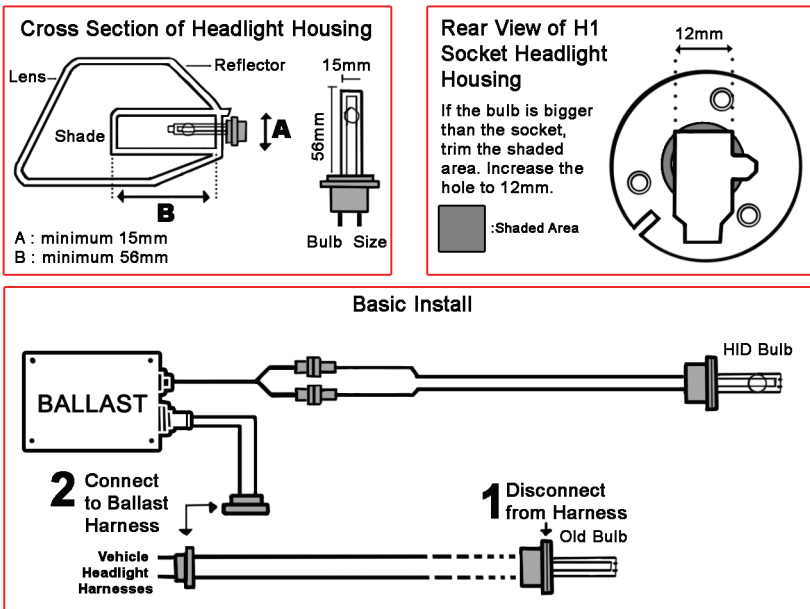
Before installing your kit, please ensure compatibility by plugging in all wires and turning the system on (Check installation diagrams). If bulbs flicker during the test then turn them off immediately. Remember to disable the daytime running lights by removing the DRL relay or the DRL fuse. Any advance installations requiring a relay harness, computer bypass (error cancellation) or resistors/capacitors and should be preformed by a professional. These installations are not covered in this instruction manual.

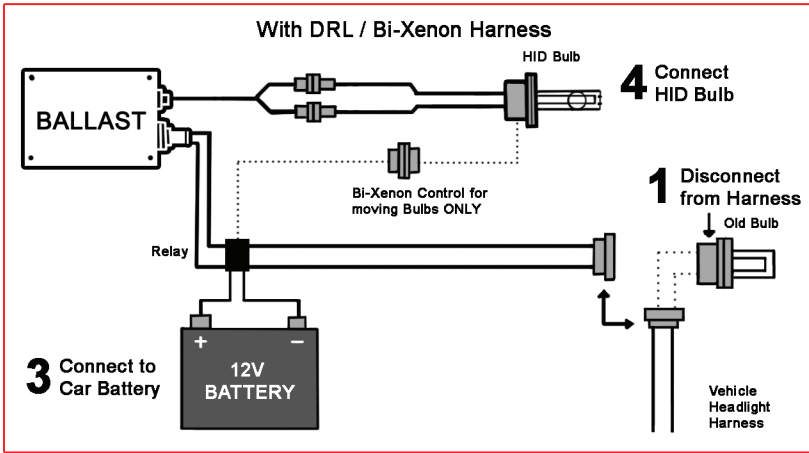
The resistor harnesses can become extremely hot during operational use, so make sure they are not in contact with anything metal. Proper installation of the harnesses should have them suspended between two points.

*Daylight Running Lights (DRL) operate at a lower voltage. That will cause damage to HID's.

CHECKING THE INTERIOR SIZE OF HOUSING

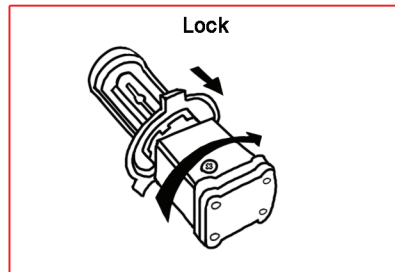
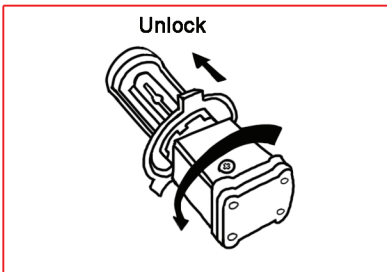
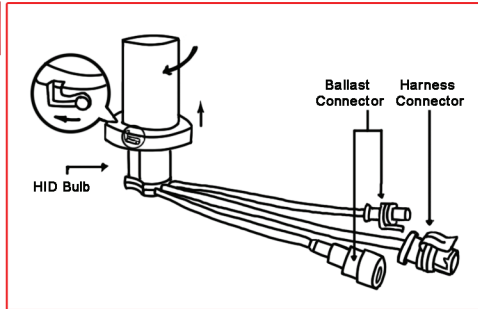
HID bulbs require a diameter of 15mm and an interior depth of 56mm. The kit may not be installed on a vehicle if the bulb size does not fit inside the housing.





How to Install the Bulb

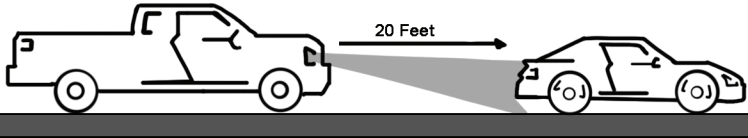
1. Take off bulb case turning clockwise.
2. Remove bulb shade by turning counter clockwise then pull upwards.
3. Remove bottom part of bulb case.
4. Insert bulb shade into headlight housing and clip into place.
5. Take note of notch inside shade to match up with bulb while inserting bulb into bulb shade. Turn clockwise to lock bulb.
6. Plug connectors to ballast and harness.



1. Make sure the bulb is placed in the Lock position before installing.
2. Insert the bulb into the housing and clip into place. *9004 / 9007 installation may require that the screws holding the retainer clip be loosened in order to fit.
3. Remember that the bulb only fits in one way. Do not turn the bulb past the locking position as this may prevent the bulb from activating the high beam mechanism. Do not turn too little either. The bulb should be securely in place.

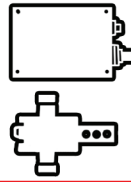
How to Adjust your Headlights

1. Park on a level surface 20ft. behind another car and turn on your headlights.
2. Make sure the cut off of the beam is just above the bumper on the car in front.
3. To make sure the headlights are evenly adjusted, point your car at a flat wall about 20ft. away and adjust the lights to line up.



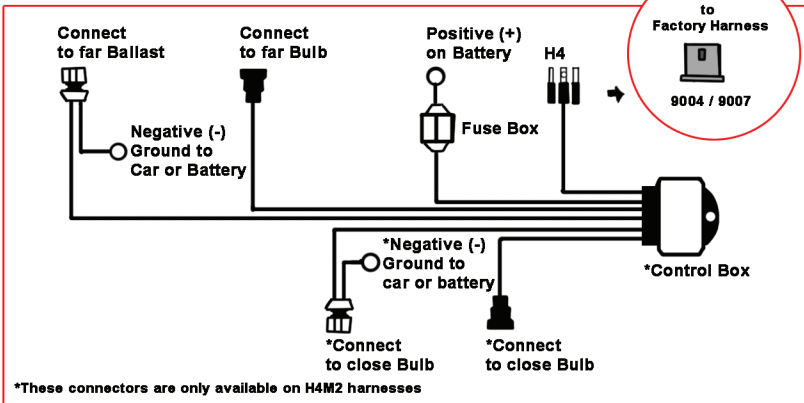
*We recommend you have your HID Kit installed and adjusted by a professional for best performance.

Mounting Ballast

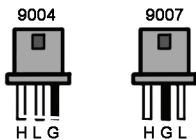


- A. Mount the Ballast onto the Bracket.
- B. Use cable ties to secure the Ballast if needed.
- C. Find suitable location to mount the Ballast that is away from heat, engine belts and fans.

H4M & 9004/ 9007M Wire Diagram

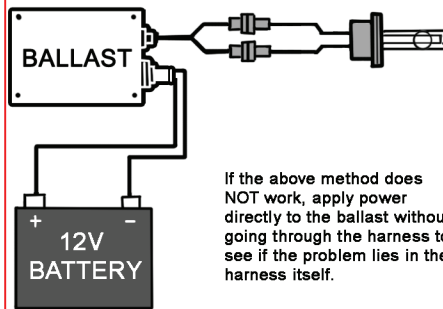


9004 / 9007 Wire Diagram



H = High Beam
L = Low Beam
G = Ground

Orange = Ground
White = Low
Blue = High



If the above method does NOT work, apply power directly to the ballast without going through the harness to see if the problem lies in the harness itself.

Section 4 - TROUBLESHOOTING GUIDE

Before troubleshooting, follow this basic inspection procedure.

- Check the car battery terminals. Are they tight, loose, lots of corrosion?
- Check all connections between the bulb, ballast, factory headlight plug(s) and all power / grounds wires.
- Check your vehicles fuses as well as any other fuses on your relay harness (if you are using one).
- Check that your battery / charging systems are in good condition & holding a charge.
- Clean all connections points with alcohol and allow them to dry. Afterwards, re- attach the kit to your vehicle and test. This may fix your problem.

PROBLEM: My HID lights flicker when car is on and the lights are turned on.

SOLUTION: If both sides are flickering then your car most likely needs a relay harness to give the bulbs a steady stream of power. You can purchase this relay harness from us or 714 - 985 - 4825.

*Note: If your vehicle is a newer model Dodge (2005 and up) or German made vehicle (BMW, Mercedes etc.) then you may need a capacitor in addition to this relay harness. You can research HID installation for your particular vehicle online and find more there.

PROBLEM: I have Daytime Running Lights equipped on my vehicle, but may HID kit doesn't work with them.

SOLUTION: You must disable the Daytime Running Lights or Auto-On Switch function before installing your kit. HID kits require a steady stream of 12 volts to function properly and Daytime Running Lights operate on 7 volts. This disparity may cause your kit to not function properly or worse, shorten the life of your kit. If you have Daytime Running Lights, please follow your car's service manual to disconnect the Daytime Running Lights by disconnecting the fuse or wiring scheme. HID kits also require a lot of power for the initial ignition and Auto-On Switch lights turn on just BEFORE your car starts. So to avoid damaging your kit, always remember to start your engine before turning on your HID system. If you have Auto-On Switch headlights, please switch the function to manual mode.

PROBLEM: My kit was working fine at first but now one of the sides is flickering when I turn the lights on.

SOLUTION: Disconnect all connectors immediately. Clean every Connector with alcohol and wait for all parts to dry. After everything is dry, make sure all connectors are making contact and are securely connected. Next, change your headlight fuses (both sides) from 10 or 15 amps to a 23 or 30 amp fuse. If you only have one fuse to regulate both headlights change it from a 20 amp to a 30 amp fuse.

PROBLEM: Only one of my bulbs is turning on but I installed both sides exactly the same.

SOLUTION: There are 3 possibilities here.

1. The polarity of one of the kit does not match your stock harness. The plug going into the ballast needs to be reversed. You can test this without harming your vehicle or the ballast / bulb.
2. A fuse controlling the lights on this side might be blown. Check the fuse- box in your vehicle to make sure the fuse is still good. If you have a 10 amp fuse you may need to replace it with a 20 amp fuse to fix the problem. If you have a 15 amp fuse you may want to replace it with a 30 amp fuse.
3. There is a defective bulb or ballast. Instructions to test for defective parts are shown in section 5.

PROBLEM: The color output of the two bulbs doesn't match.

SOLUTION: The level of the headlights housings are not even. Follow the instructions in your owner's manual to adjust the height. For newly installed bulbs there is a chance that the colors will be different for the first few hours while the bulbs are burned in. After a few hours of proper use the lights will burn at a normal color. Also be sure to make sure your lenses are both clean. Some dirty lenses reflect light differently and will cause HID bulbs to look different colors.

PROBLEM: My car's harness has 3 open slots, but the kit I received only has 2 connection prongs.

SOLUTION: The kit you purchased is a single beam HID kit. Single beams means that you will have the low beam function but not the high beam function. Plug the power (red) wire into low beam socket, and the ground (black) wire into your ground socket.

PROBLEM: Both sides do not turn on.

SOLUTION: It is extremely unlikely that an entire kit is not working. This is most likely a polarity problem. To fix this issue, follow these steps:

1. Make sure the power to the lights is off.
2. Disconnect the wire going into the ballast for power.
3. Switch the plug by flipping it around and reconnecting it into the ballast (this may be tight fit but will not harm the plug or the ballast). Once you have made this change on both sides of your lights, re-ensure that all connections are tight and secure. Turn on your lights and your problem should be solved!

PROBLEM: One or both of my lights flicker for a bit when I first turn them on, then they light up normally.

SOLUTION: If the bulbs eventually work normally, that means they are still functioning properly. What you want to consider is installing a relay harness for your HID Kit, which solves this issue.

PROBLEM: My HID High / Low kit doesn't go to high beam, stays in high beam only, or has the low and high beams reversed.

SOLUTION: The wires have been connected incorrectly. Sometimes manufacturers change the placement of the low, high and ground connectors in their vehicle's sockets. This has no affect on halogen bulbs, but does affect HID operation. Look at the wires on the harness.

White= Low beam, Orange= Ground, Blue= High beam. Make sure theses are aligning properly with the low/ high/ ground sockets on your vehicle. This will allow proper operation of your bi- xenon bulbs.

PROBLEM: My HID High / Low kit will not go into high beam even after fixing the wiring connections.

SOLUTION: The bulb has been turned too tightly in the housing. Please ensure that you have screwed in the bulb only tight enough to lock it in place. Over- tightening the bulb will prevent the bulb from going into high beam position.

PROBLEM: One or two of my ballasts was working intermittently; I have to turn on and off the light switch a few times to get my HIDs to turn on. How do I fix this?

SOLUTION: Sometimes vehicles not equipped with HIDs from the manufacturer cannot handle the initial 12,000 volt burst of power or your wiring harness cannot send a steady stream of power. If this is the case, we strongly recommend a relay harness to prevent damage to your kit as turning the kit on and off can shorten the lifespan of your kit.

If troubleshooting does not fix your problem, test the kit by applying power to the ballast directly to see if the problem is with the kit or the vehicle.

Section 5 - TESTING FOR DEFECTIVE PARTS

If you have tried the troubleshooting guide and still have bulbs not working, check which part needs to be sent in for warranty:

1. Make note of which side of your vehicle is having a problem.
2. Swap over the bulb from the working side.
3. If it works then the bulb is defective.
4. If it doesn't work then the ballast is defective.

Section 6 - WARRANTY INFORMATION

Warranty period is 1 year from date of purchase.

Warranty only applies to original purchaser. We recommend you retain all records of original purchase to validate your warranty. A valid RMA # (issued by your original retailer) will be required in order to claim any warranty. Shipping and handling charges are not covered by warranty. Only defective parts need to be sent in for warranty.

Physical damage is NOT covered by the warranty.

Contact your retailer or PPE for instructions on claiming warranty.

Section 7 - CHART

GMC	2001-2007	Sierra Classic	(High Beam)	9005
GMC	2001-2007	Sierra Classic	(Low Beam)	9006
GMC	2001-2007	Sierra Denali Classic	(High Beam)	9005
GMC	2001-2007	Sierra Denali Classic	(Low Beam)	9005
GMC	2007.5-2009	Sierra Classic	(High Beam)	9005
GMC	2007.5-2009	Sierra	(Low Beam)	H11
Chevy	2001-2007	Silverado Classic	(High Beam)	9005
Chevy	2001-2007	Silverado Classic	(Low Beam)	9006
Chevy	2007.5-2009	Silverado	(High Beam)	9005
Chevy	2007.5-2009	Silverado	(Low Beam)	H11



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