

FutureVisionHID.com

The Future of Performance Lighting

Congratulations on your purchase of the finest HID conversion kits available! This guide is intended to illustrate a typical step-by-step installation of our Driving Light HID conversion kit. The vehicle illustrated is a 2003 Ford Mustang, but the overall installation of the system will be similar in any vehicle. *Professional installation of our HID lighting systems is always recommended as these systems generate high voltages in excess of 20,000 volts!*

Your kit should have included the following items:

- (2) Waterproof digital ballasts
- (2) Genuine heavy duty laser calibrated Xenon bulbs
- Mounting hardware
- Installation diagram

If your kit did not include all of the above items, please contact us before attempting installation!

CAUTION: At no time during the installation should you touch or make contact with the Xenon bulbs. By doing so, the oil from your hands could damage them! Keep them in their protective foam covers until you are ready to install them in the driving light housings.

STEP 1 – Safety first!

Disconnect the negative (-) battery cable and move the cable far enough away from the battery that it does not accidentally touch the negative (-) battery post during the installation.

STEP 2 – Determine suitable locations for the ballasts

Please note that some ballasts have a small box connected to it; this is the ignitor. The wiring from the ballasts and ignitors CANNOT be extended. Therefore, it is best to choose a location for each near the respective driving light housings that will allow the harnesses from the ignitors to reach the Xenon bulbs.

STEP 3 – Remove the stock driving light bulbs

This will vary by vehicle. When in doubt, consult your vehicle's service manual for instructions on how to do this.

Once you have removed the stock bulbs, this will allow you to verify if the OEM wiring harness will easily reach the area that you plan to locate the ballasts. In this vehicle, the harnesses are quite long, so this is not a problem.

Remove the stock bulb by twisting it counterclockwise ⇒



STEP 4 – Install the Xenon bulbs

Install the Xenon bulbs in the driving light housings, being careful not to touch or come in contact with the glass!

Use the provided foam covers to protect the stock bulbs with before storing them.

Install the Xenon bulb by twisting it clockwise ⇒



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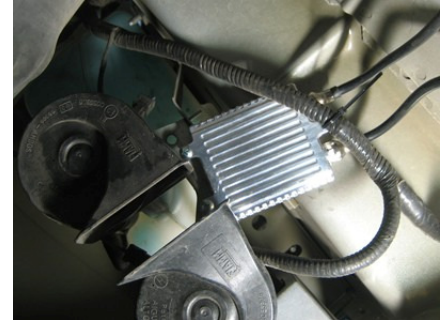
STEP 5 – Mount the ballasts*

The ballasts are mounted under the chassis and just behind the driving light housings.

CAUTION: It is **extremely important** to take note of wiring harnesses, vacuum lines, hoses, A/C lines, etc. on the other side of the chosen mounting surface! In this vehicle, the battery is directly above the chassis on the driver's side, so the ballast on this side had to be mounted differently.



Shown is the ballast on the passenger side mounted to the underneath of the chassis with the provided screws.



Shown is the ballast on the drivers' side – one side screwed to the horn bracket, the other tied to a wiring harness.

Notes: (1) Some ballasts have a clear or blue protective film on them to protect them in shipping. Be sure and remove this film before using double sided tape to mount them with. Double sided tape is not recommended when mounting the ballasts from underneath the vehicle as shown here. (2) Although these components are waterproof, mount them so that their cables exit downward whenever possible. (3) The cables from these units have EXTREMELY high voltage present on them when in use. **NEVER attempt to connect or disconnect them with the system in operation or you risk a serious shock!*

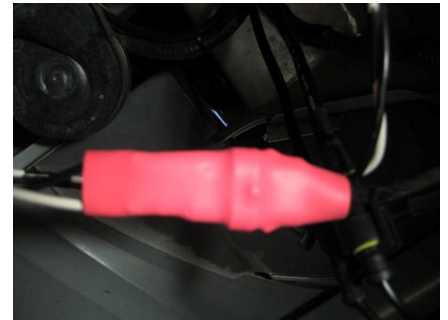
STEP 6 – Connect the ballasts to the OEM harnesses

The factory male plug that connected to the OEM bulb on this vehicle is slightly different than the female plug on the ballast. Therefore, it is necessary to use the supplied adapter to connect them together.

In some vehicles, this step will not be necessary as the plugs will mate up perfectly. **BE SURE** the spacing between pins on the plugs is identical before attempting to plug them together!



*Plug the pin with the black wire into the ground pin on the factory plug. Plug the pin with the white wire into the power pin on the factory plug.***



Cover the exposed connections with heat shrink tubing. This will provide electrical insulation as well as keeping the pins seated in the connector.

***Note: In this vehicle, the ground pin in the factory plug is also black but your vehicle may be different. When in doubt, verify this with a digital multimeter – the power pin will read +12 VDC with the ignition switch ON and the driving lights ON. If you get these connections backwards you will not damage the ballasts, but the lighting system will not work until you reverse the connections.*

STEP 7 – Plug the ballasts into the Xenon bulbs.

STEP 8 – Reconnect the negative (-) battery cable.

STEP 9 – Test the system by turning the driving lights ON. It may take 10 to 20 seconds for them to reach full brightness.

STEP 10 – Now that you have verified that the driving lights work correctly, tie up the harnesses to keep them out of harms way and away from moving components.



Shown is the completed installation on the drivers' side. Note that the ignitor is secured to the factory wiring harness.



Shown is the completed installation on the passenger side.