



HID Conversion Kit Installation and FAQ Manual

Professional installation is recommended.
ALL HID KITS ARE INSTALLED AT YOUR OWN RISK!
OPT7 and its affiliates will not be held liable for any damage or cost
associated with installation or hardware.

Interactive Website Available at www.OPT-7.com/support
OPT7 Customer Support Email: Support@OPT-7.com

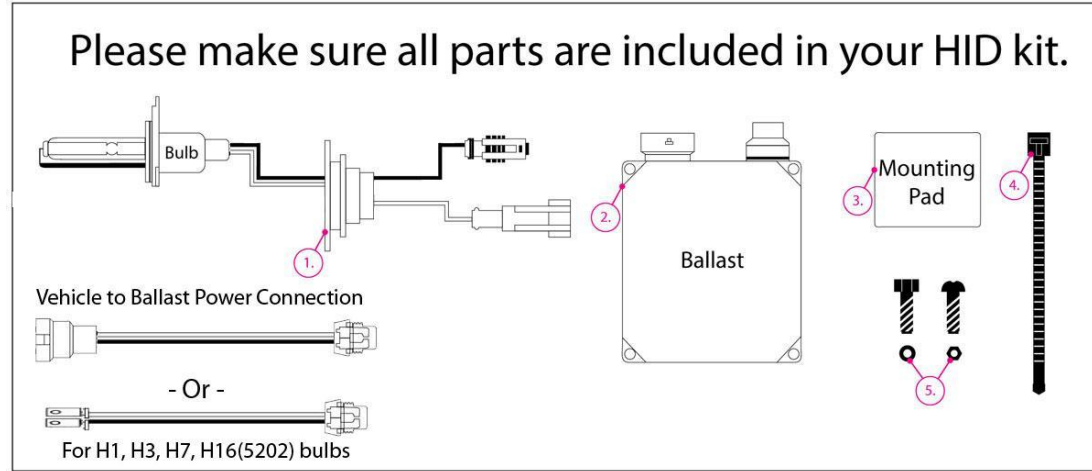
Getting Started



HID Kit Contents

Single Beam/Hi-Lo Kits

1. HID bulb (2)
2. HID ballast (2)
3. 3M double sided tape (2)
4. Zip Ties
5. Mounting hardware
6. Vehicle to Ballast Connection (2)



Bi-Xenon Kits Only

1. Bi-Xenon Hi-Beam Bulb Adapters (2)

Optional Accessories (Sold Separately)

1. Power relay wiring harness
2. ECM warning cancellers/capacitors

All support or technical assistance inquiries should be submitted to: Support@OPT-7.com.

Safety Check and Tips



- Place vehicle into “park” and make sure it is securely in gear.
- Turn off the headlights and ignition.
- Allow adequate time for your vehicle to cool down before installation.
- Examine each component for any possible cracks, loose wiring, or loose bulbs.
- Leave the protective plastic covering on the HID bulbs until you’re about to install the HID bulbs.
- Wear safety glasses and gloves during installation to prevent transferring oils onto the HID bulbs.
- Connect the HID kit one side at a time starting with the battery-side first.
- **IMPORTANT:** Before installing the HID kit, connect everything and activate headlights to test kit.

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Step 1: Removing The Headlight Seal



Open the hood and examine the headlight housing. If your engine bay does not have enough space for installation, you will need to remove the headlights on both sides.

Covered Seal



1. Loosen the seal by tugging on each end.
2. Unplug the headlight connector from the bulb
3. Make a 25mm hole in the seal to allow for cords

Pre-Drilled Seal



1. Unplug the headlight connector from the bulb.
2. Loosen the seal by tugging on each end.

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Step 2: Removing The Bulb



The bulb will be held by one of 3 different kinds of safety latch

A. **Plastic Catch**

Will have a small lever at the top, push down on it while you pull the plug out.

B. **Metal Clip:**

Pinch the metal ends towards bulb and pull out.

C. **Plastic Screw Cap:**

Unscrew by turning it counter-clockwise.

DO NOT THROW AWAY YOUR ORIGINAL BULBS
Store in glove box for emergency use

For quick assistance or questions,
email Support@OPT-7.com.



Step 3 & 4: HID Bulb Preparation



Step 3: HID Bulb Placement

Feed the bulb through the rubber headlight housing seal so that the bulb is inside the seal.

- Did you need to make a hole in the seal?
 - **YES:** Also feed the vehicle power connection to the inside of the seal as well
 - **NO:** You may remove the grommet as it is not necessary

Step 4: Connecting the Bulb to the HID ballast

Due to the wide variety of HID bulb sizes, we have created a series of wiring charts designed to be as comprehensive as possible for an easy install. Some of the diagrams may not appear exactly like the kit you received but the connections points will still be the same.

Note A: About Relays and Capacitors

If you purchased a relay harness and/or capacitor set, always attempt activation **FIRST** before installing with any additional components.

Step 4a: Single / Hi-Lo Beam Installation

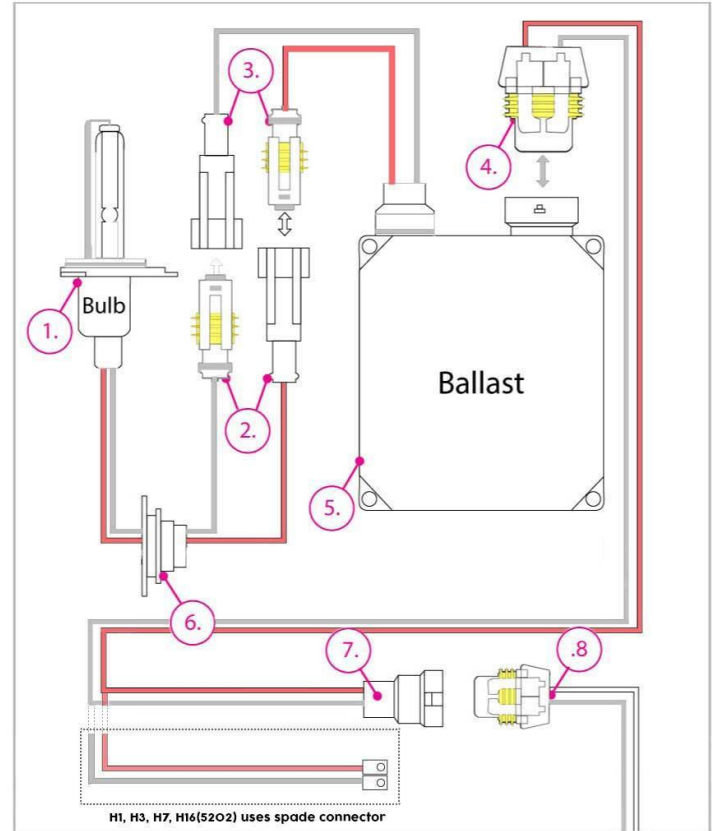


- A. Connect the Bulb plugs (#2) to the Ballast (#3)
- B. Connect the Ballast to Plug & Play wire (#4)
- C. Connect the Plug 'n' Play wire (#7) to the Headlight Power Plug (#8)
- D. Repeat for passenger side

Legend

- | | |
|--------------------------|----------------------|
| 1. Xenon Bulb | 5. HID Ballast |
| 2. Xenon +/- Plugs | 6. Rubber Grommet |
| 3. Ballast +/- Plugs | 7. Plug & Play Wire |
| 4. Ballast Polarity Plug | 8. Headlight Adapter |

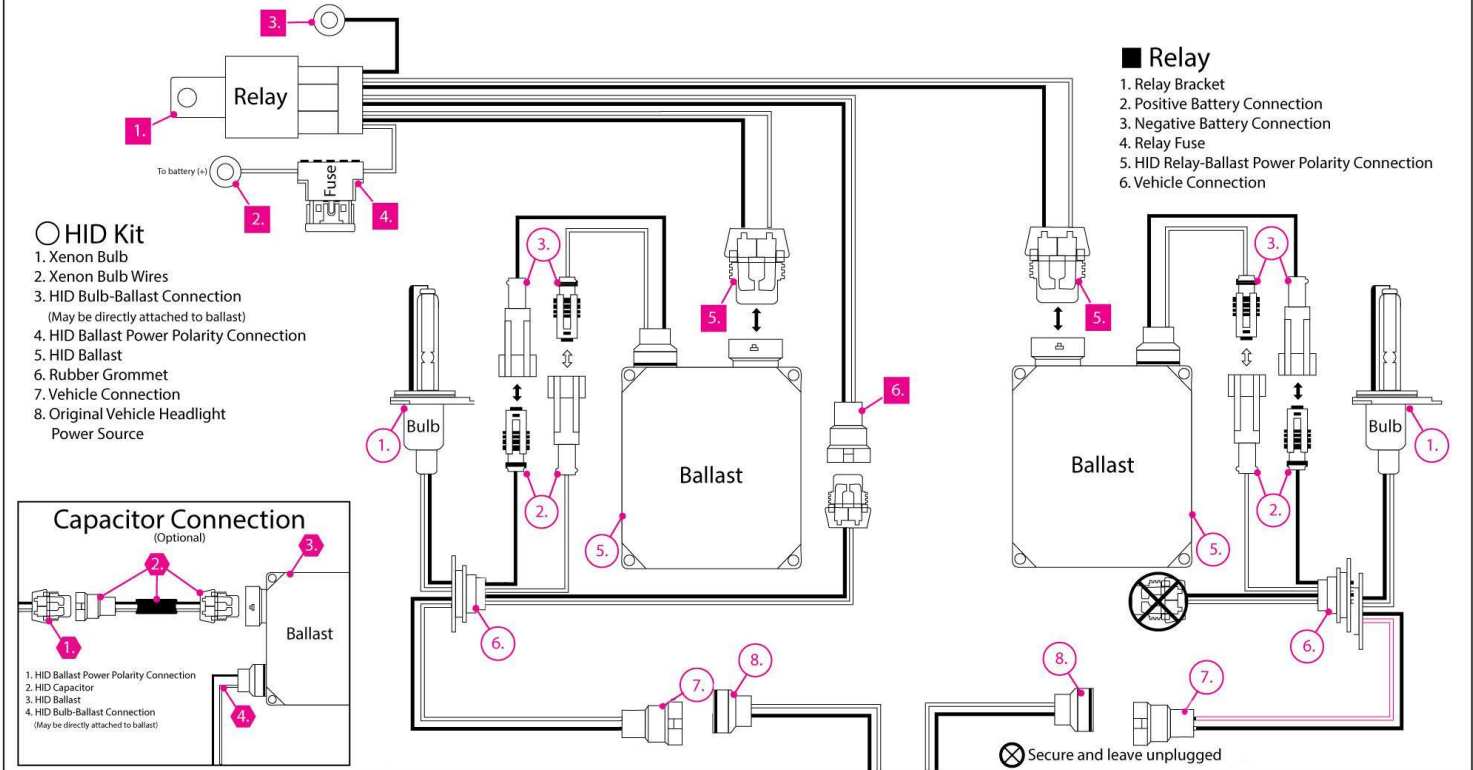
*Some bulbs may not have a plug connection. Instead, 2 spade prongs must be inserted into the vehicle power plug



Step 4b: Single Beam with Relay



Single Beam HID Installation Diagram and Instructions with Relay

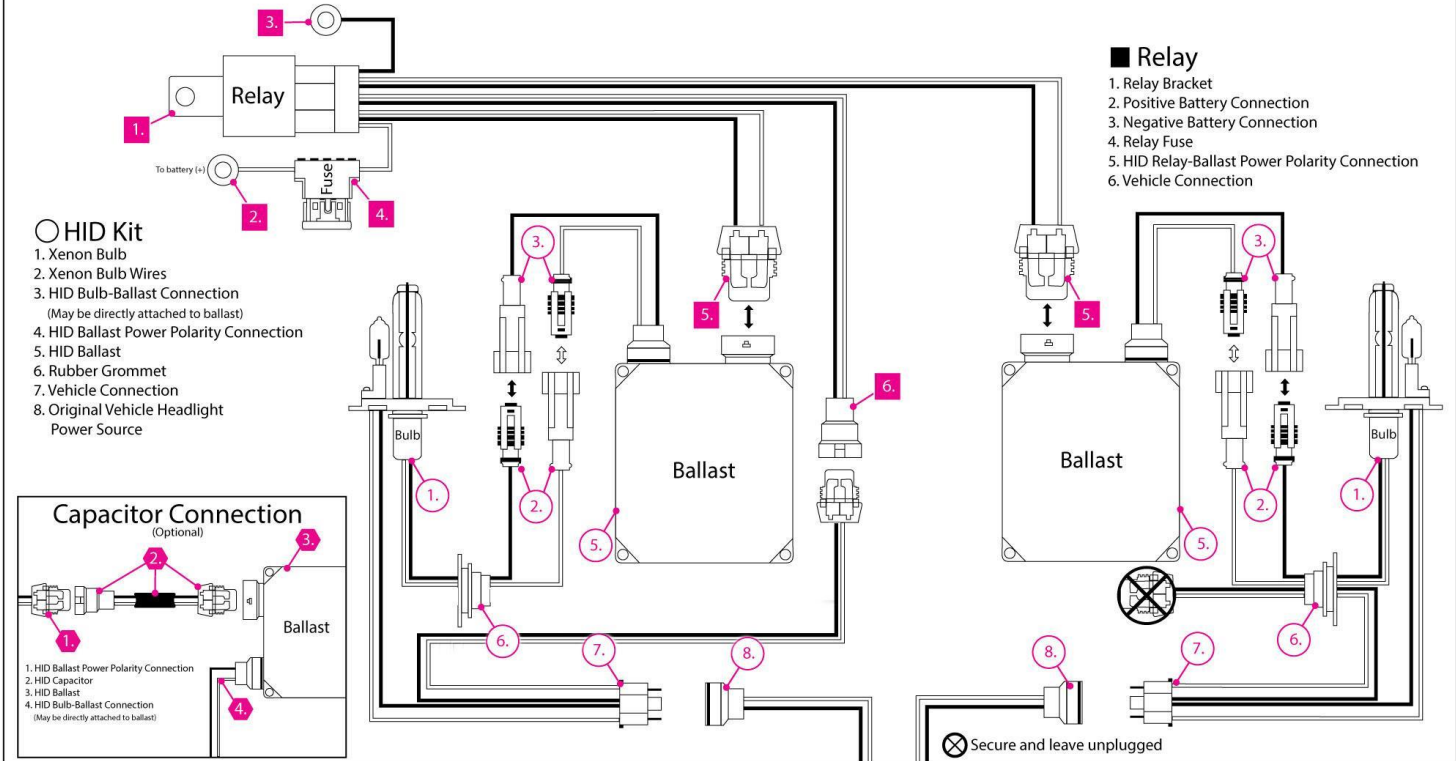


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Step 4c: Hi-Lo Beam with Relay



High / Low HID Installation Diagram and Instructions with Relay



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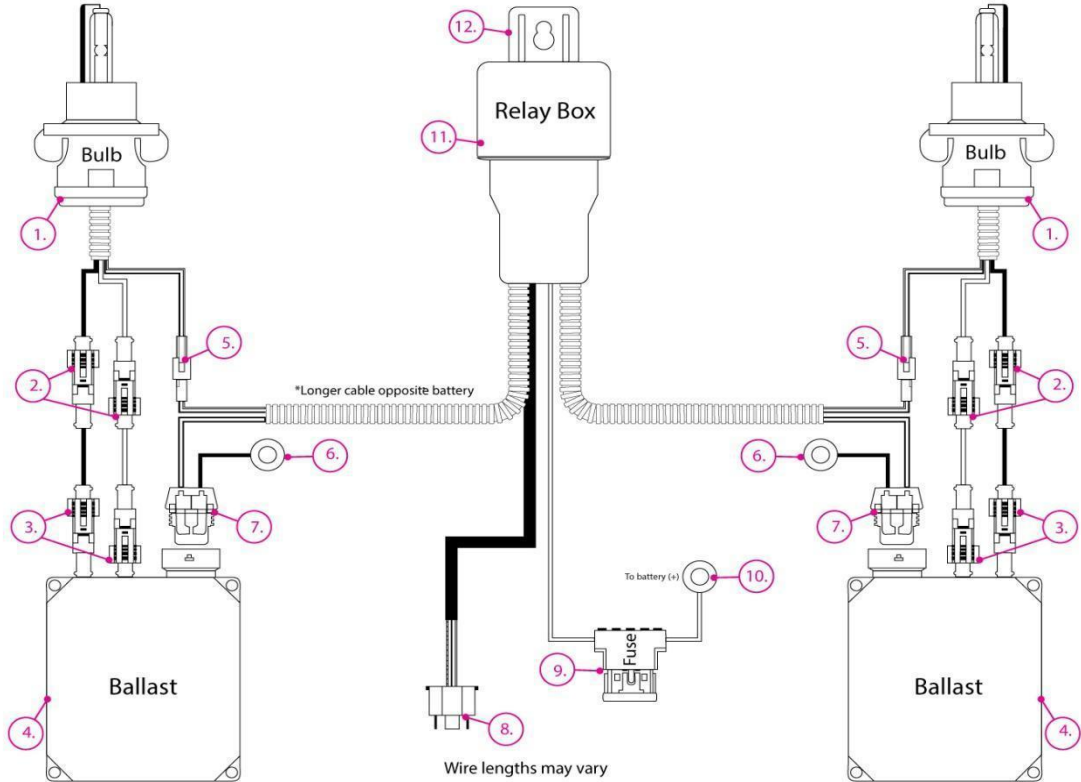
Step 4d: Bi-Xenon Beam with Control Wire



○ HID Kit

1. Xenon Bulb
2. Xenon Bulb Wires
3. HID Bulb-Ballast Connection
(May be directly attached to ballast)
4. HID Ballast
5. Jump Wires
6. Chassis
7. HID Relay-Ballast Power Polarity Connection
8. Vehicle Connection
9. Relay Fuse
10. Positive Battery Connection
11. Relay Box
12. Relay Bracket

*Only use this diagram if your kit included a Control Wire



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Step 5-7: Mounting the HID kit



Step 5: Testing the HID Kit

1. Activate headlight with the car OFF
2. Check lights
3. Then activate headlights with the car ON

If you see anything other than beautiful non-flickering HID light, please see our troubleshooting guide before further installation

Step 6: Installing the HID bulb

1. Using gloves, remove the plastic wrapping and dust shield from the bulb.
2. **DO NOT TOUCH BULB GLASS**
3. Insert the bulb into the housing
4. Re-secure the bulb retainer/clip
5. Re-install headlight housing cover

Step 7: Mounting the Ballasts

Locate a mounting location that is away from heat sources such as the battery, radiator, or engine.

Using Double-Sided Tape

- Clean the area well before application.

Installation is now complete!

For in-depth Troubleshooting 24/7, check out our automated troubleshooting guide by scanning the QR Code



or visit
www.OPT-7.com/support

Visit our interactive troubleshooting guide: www.OPT-7.com/support

Bulbs Won't Fit

- **Check for correct bulb size/fitment**
 - Double-check your bulb size with the Sylvania Lamp Replacement Guide available at Sylvania.com.
 - Compare the mounting tabs against your original bulb
- **Special bulb adapter** If possible reuse the adapter from the stock bulb. If not, contact us for assistance.

One or Both Sides Fail to Light Up

- **Check Fuses:** The headlight fuse may be blown. Common occurrence with some HID kit installs. Check your vehicle fuse box and replace with a 15 amp fuse if needed.
- **Power Polarity Flip:** Locate the power connection to the ballast, unplug it, flip it over, plug it back in, and try again. If successful, simply wrap the connection with electrical tape. (Vehicle Reference on)
- **Swap Test:** If only one side is failing, simply swap the bulb or the ballast one at a time from the non-working side to the working side. If the problem follows the ballast or the bulb, then you may need a replacement ballast or bulb.

If the problem persists, please contact us as your vehicle may require a relay or replacement part

Known Vehicles with Reverse Polarity (Flip)



- Acura Integra (94 - 01)
- Acura MDX (Most models)
- Cadillac CTS (2003 - 2007)
- Cadillac (Most models and Years)
- Chevrolet Silverado (Most years)
- Chevrolet Suburban (All years)
- Chevrolet Tahoe (All years)
- Chevrolet Colorado (All years)
- Dodge Avenger (2007 - present)
- Dodge Charger (2006 - present)
- Dodge Ram (2004 - present): Fog lights
- Eagle Talon
- GMC Canyon
- GMC Sierra
- GMC Jimmy (95 - 06)
- Honda Accord (Most years)
- Honda Pilot (1st Gen: 2003 - 2008)
- Lexus SC300 (1991 - 2000)
- Lexus (Most models): Low beams and fog lights
- Mitsubishi Evolution 9
- Nissan Altima (2002 - 2006) - Fog lights
- Pontiac GTO - The fog lights
- Pontiac Trans Am (2002, may apply to all F-Style Chassis): Fog Lights
- Saturn LS (00 - 05)
- Scion (All models, most years)
- Subaru WRX (2002 - 2003)
- Toyota Corolla (03 - present)
- Toyota Camry (All years)
- Toyota Matrix (2002 - Present)
- Toyota Highlander (01 - 07)
- VW Jetta (2009) - Fog lights

Visit our interactive troubleshooting guide: www.OPT-7.com/support

Lights Flicker/Flash Intermittently

DRL & Auto On Features: Turn off the daytime running lights and/or auto-light on feature to prevent those features from affecting the operation of or even damaging your HID system.

If the problem persists, please contact us as your vehicle may require a relay or replacement part

WARNING TIPM. Dodge, Chrysler, and Jeep Owners!

Several American makes use a Totally Integrated Power Module (TIPM), a device that regulates and controls almost all of the electrical components in the vehicle.

When any HID kit is installed into these vehicles, it's VERY important that they are installed perfectly with a power relay harness. Without a relay harness, you risk serious damage to the TIPM or at the very least, a poor functioning product.

If the problem persists, please contact us: support@opt-7.com

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Low or High Beam Does Not Activate (Bi-Xenon Kits)

- **Power Polarity Flip:** Locate the power connection to the ballast, unplug it, flip it over, plug it back in, and try again. If successful, simply wrap the connection with electrical tape.
- **Polarity Manual Reconfiguration:**

All Dual Beam Power Harnesses have 3 terminals. One terminal for the low beam setting, one terminal for the high beam setting and one terminal for the ground.

While 99% of the time our configuration matches the OEM configuration, there may be times when they do not match. If that is the case, the symptom that presents will be the low beam operating normally while the high beams do not or vice versa.

*When switching from low to high beam the HID bulb will move (telescopic movement); if the bulb does not move when changing the settings from low to high beam or vice versa then the issue is likely related to the jump wire connection

The guide to re-configure the terminal position is detailed here:



Visit our interactive troubleshooting guide: www.OPT-7.com/support

“Bulb Out Warning” Indicator Turns On

Your vehicle may require a pair capacitors.

Car Fuse Continuously Pops

Check Fuse: Make sure you are using 15 amp fuses.

If the problem persists, your vehicle may require an HID relay.