

# Installation guide

Universal HID single beam  
Relay Wiring Harness  
with load resistors



# Useful information

## Using a relay harness with Daytime Running Lights

Although a relay should stop flickering caused by DRLs, the lifespan of the HID bulbs will be affected if your DRL circuit is wired with reverse polarity or DRLs run at voltage lower than 6.5V. We do advise to disable DRLs to prolong the lifespan of the HID bulbs. Be aware that it is illegal to disable DRLs in some states. Please be sure to consult with your local Department of Transportation.

### **DRLs can be disabled in 3 ways:**

- You can disable DRLs on the vehicle's computer if possible.
- You can pull out the DRL fuse in the fuse box.
- Refer to a mechanic for professional assistance.

## Using a relay harness with Automatic Lights

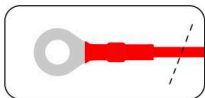
Although a relay should prevent any misfires of your HID kit and avoid color issues with HID bulbs, the lifespan of the HID Kit will be affected. We do advise to disable Auto Lights and operate your headlights manually. It will prolong the lifespan of the HID Kit.

- To disable Automatic Lights, you need to turn your Auto Switch to "Manual" position.

## Using a relay harness with Alarm Flashing Lights

Although the HID ballasts will receive full power directly from the battery, they will not be fully warmed up. Thus, the lifespan of the HID ballasts will be affected. We do advise to disable Alarm Flashing Lights. The alarm feature itself will still be enabled. You may also set it to flash a different bulb to prolong the lifespan of the HID ballasts.

- Usually you can disable this feature in vehicle's computer security settings or set it to flash a different bulb. You may also need to refer to your aftermarket alarm system installer.



If you need to extend the power wire, you will need to use a 12 - 16-gauge wire. The thicker the wire is, the better it transfers electricity.

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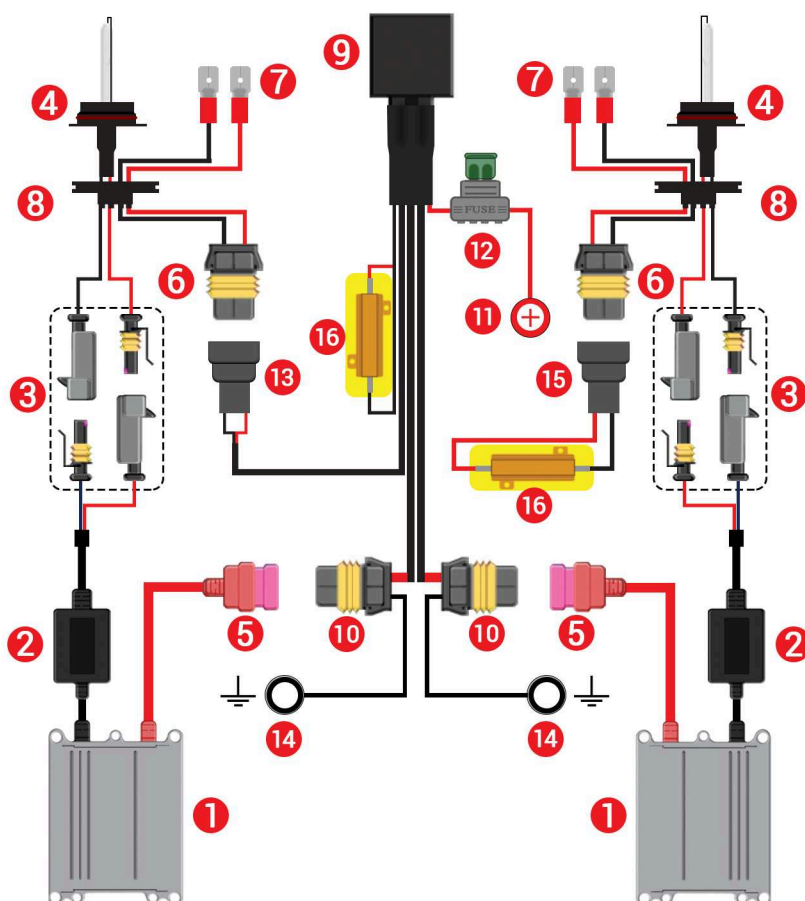
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## H1/ H3 / H3C / D2HS / D2HR / H11B

### WIRING DIAGRAM

- ① HID ballast
- ② Igniter
- ③ AMP connectors
- ④ HID bulb
- ⑤ Ballast input
- ⑥ Ballast feed
- ⑦ Factory plug
- ⑧ Rubber grommet
- \* ⑨ Control box
- ⑩ Ballast feed
- ⑪ Positive bolt | 12v
- ⑫ Fuse box
- ⑬ Relay input
- ⑭ Negative bolt | ground
- ⑮ Resistor input
- ⑯ Resistors

\* These items from the list are not included into the regular kit



For D2 series, this relay harness can be used only for aftermarket HID kits. Be advised, that it cannot be used with factory D2 ballasts. Professional installation is highly recommended.

The shortest relay's wire with the ballast feed should be connected on the battery's side



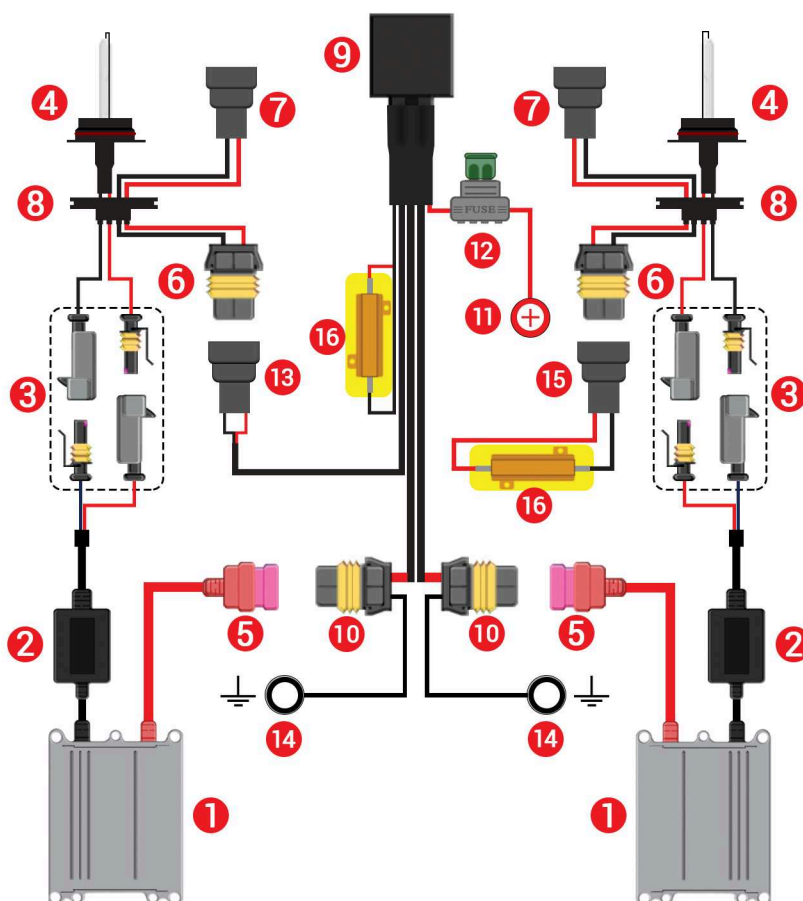


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## H8 / H9 / H11 / 9005 / 9006 / H10 / H12 / 880 / 881 WIRING DIAGRAM

- ① HID ballast
- ② Igniter
- ③ AMP connectors
- ④ HID bulb
- ⑤ Ballast input
- ⑥ Ballast feed
- ⑦ Factory plug
- ⑧ Rubber grommet
- \* ⑨ Control box
- ⑩ Ballast feed
- ⑪ Positive bolt | 12v
- ⑫ Fuse box
- ⑬ Relay input
- ⑭ Negative bolt | ground
- ⑮ Resistor input
- ⑯ Resistors

\* These items from the list are not included into the regular kit



The shortest relay's wire with the ballast feed should be connected on the battery's side

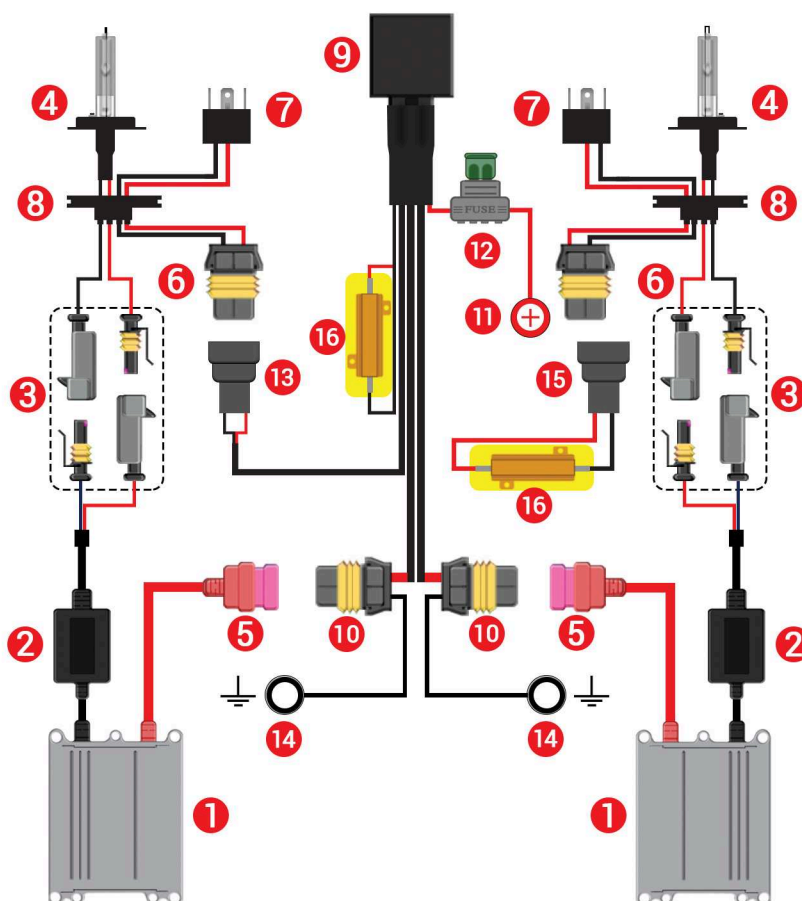


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## H4 (Single beam) WIRING DIAGRAM

- ① HID ballast
- ② Igniter
- ③ AMP connectors
- ④ HID bulb
- ⑤ Ballast input
- ⑥ Ballast feed
- ⑦ Factory plug
- ⑧ Rubber grommet
- \* ⑨ Control box
- ⑩ Ballast feed
- ⑪ Positive bolt | 12v
- ⑫ Fuse box
- ⑬ Relay input
- ⑭ Negative bolt | ground
- ⑮ Resistor input
- ⑯ Resistors

\* These items from the list are not included into the regular kit



The shortest relay's wire with the ballast feed should be connected on the battery's side

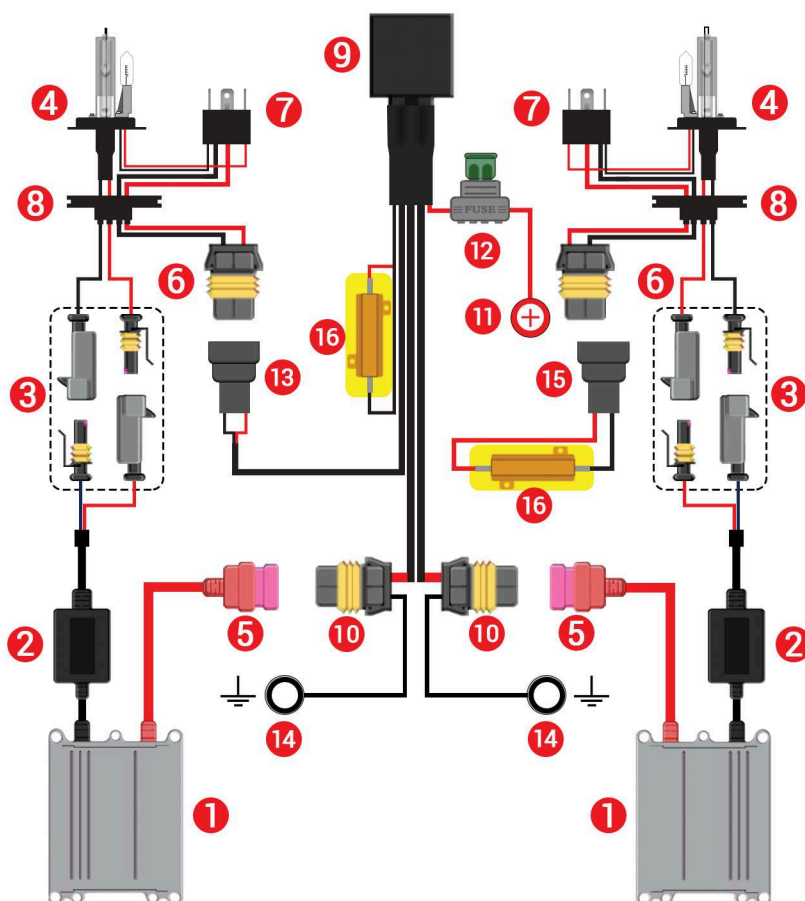


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## H4 (Low xenon / High halogen) WIRING DIAGRAM

- ① HID ballast
- ② Igniter
- ③ AMP connectors
- ④ HID bulb
- ⑤ Ballast input
- ⑥ Ballast feed
- ⑦ Factory plug
- ⑧ Rubber grommet
- \* ⑨ Control box
- ⑩ Ballast feed
- ⑪ Positive bolt | 12v
- ⑫ Fuse box
- ⑬ Relay input
- ⑭ Negative bolt | ground
- ⑮ Resistor input
- ⑯ Resistors

\* These items from the list are not included into the regular kit



The shortest relay's wire with the ballast feed should be connected on the battery's side

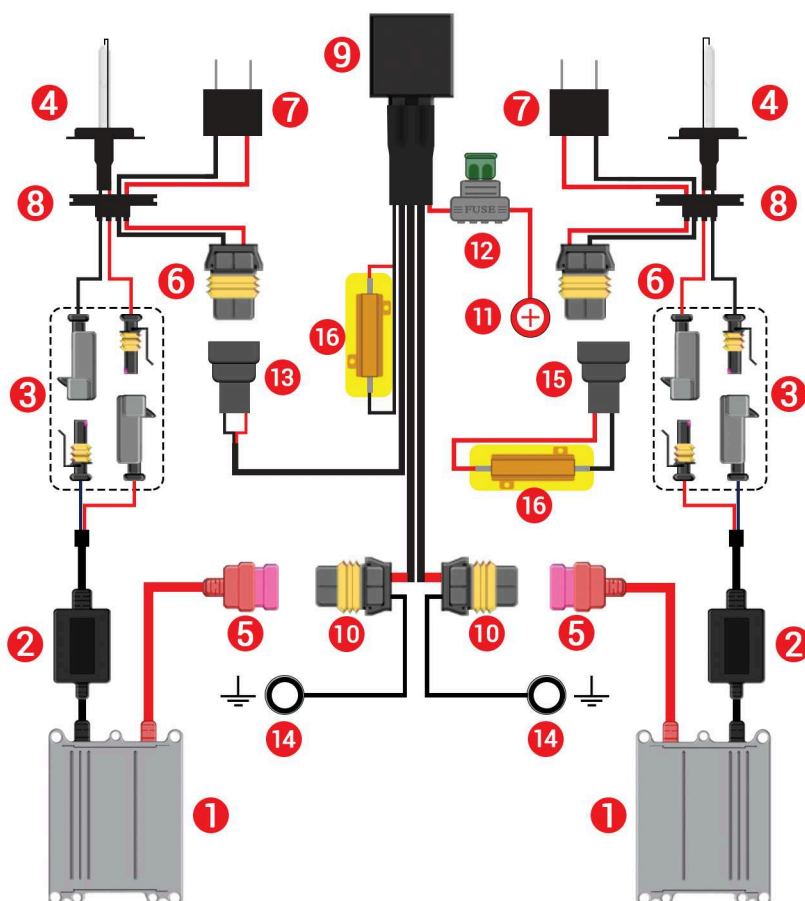


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## H7 (Single beam) WIRING DIAGRAM

- ① HID ballast
- ② Igniter
- ③ AMP connectors
- ④ HID bulb
- ⑤ Ballast input
- ⑥ Ballast feed
- ⑦ Factory plug
- ⑧ Rubber grommet
- \* ⑨ Control box
- ⑩ Ballast feed
- ⑪ Positive bolt | 12v
- ⑫ Fuse box
- ⑬ Relay input
- ⑭ Negative bolt | ground
- ⑮ Resistor input
- ⑯ Resistors

\* These items from the list are not included into the regular kit



The shortest relay's wire with the ballast feed should be connected on the battery's side



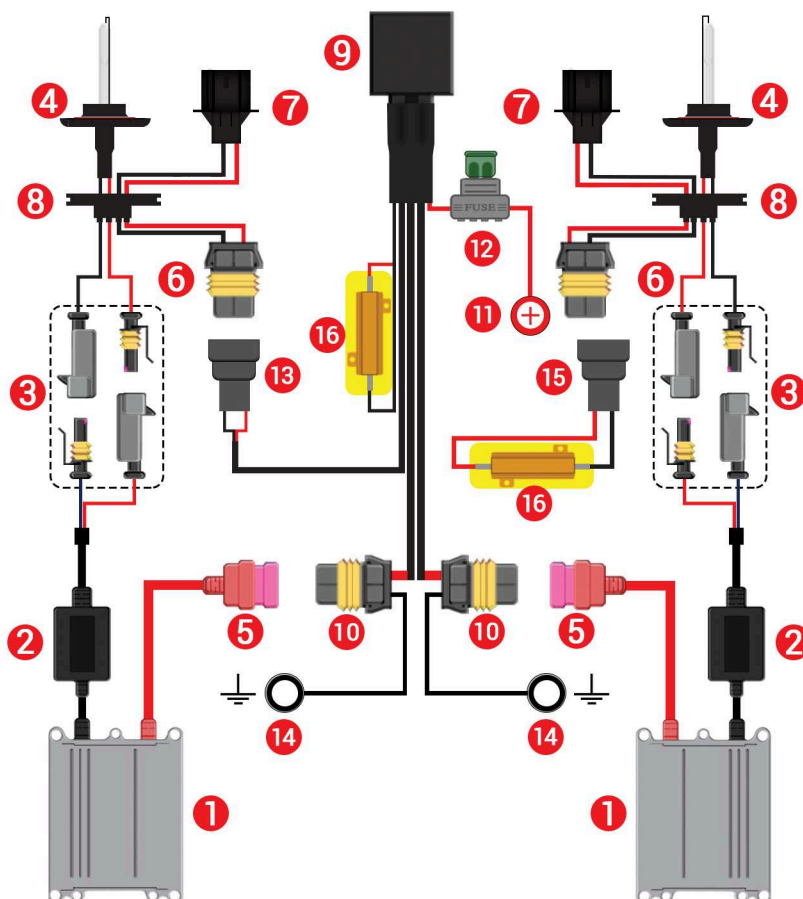


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## H13 (Single beam) WIRING DIAGRAM

- ① HID ballast
- ② Igniter
- ③ AMP connectors
- ④ HID bulb
- ⑤ Ballast input
- ⑥ Ballast feed
- ⑦ Factory plug
- ⑧ Rubber grommet
- \* ⑨ Control box
- ⑩ Ballast feed
- ⑪ Positive bolt | 12v
- ⑫ Fuse box
- ⑬ Relay input
- ⑭ Negative bolt | ground
- ⑮ Resistor input
- ⑯ Resistors

\* These items from the list are not included into the regular kit



The shortest relay's wire with the ballast feed should be connected on the battery's side



!

## H13 (Low xenon / High halogen)

### WIRING DIAGRAM

- 
- Legend:**
- 1 HID ballast
  - 2 Igniter
  - 3 AMP connectors
  - 4 HID bulb
  - 5 Ballast input
  - 6 Ballast feed
  - 7 Factory plug
  - 8 Rubber grommet
  - \* 9 Control box
  - 10 Ballast feed
  - 11 Positive bolt | 12v
  - 12 Fuse box
  - 13 Relay input
  - 14 Negative bolt | ground
  - 15 Resistor input
  - 16 Resistors
- \* These items from the list are not included into the regular kit*
- The diagram illustrates a dual-channel HID system. A central control box (9) is connected to two identical ballast assemblies. Each assembly includes a ballast (10), an igniter (2), and an AMP connector (3). The ballast feed (6) from the control box connects to the ballast input (5) of the ballast. The ballast feed (10) from the ballast connects to the ballast input (5) of the igniter. The igniter (2) is connected to the HID bulb (4) via the AMP connector (3). The system is powered by a 12V source (11) connected to a fuse box (12). The fuse box (12) is connected to the positive bolt (11) and the negative bolt (14) which is grounded. The control box (9) is also connected to the positive bolt (11) and the negative bolt (14). The control box (9) is connected to the ballast feed (6) and the ballast input (5) of the ballast. The control box (9) is connected to the ballast feed (10) and the ballast input (5) of the igniter. The control box (9) is connected to the HID bulb (4) via the AMP connector (3). The control box (9) is connected to the HID bulb (4) via the AMP connector (3). The control box (9) is connected to the HID bulb (4) via the AMP connector (3).

*\* These items from the list are not included into the regular kit*

The shortest relay's wire with the ballast feed should be connected on the battery's side

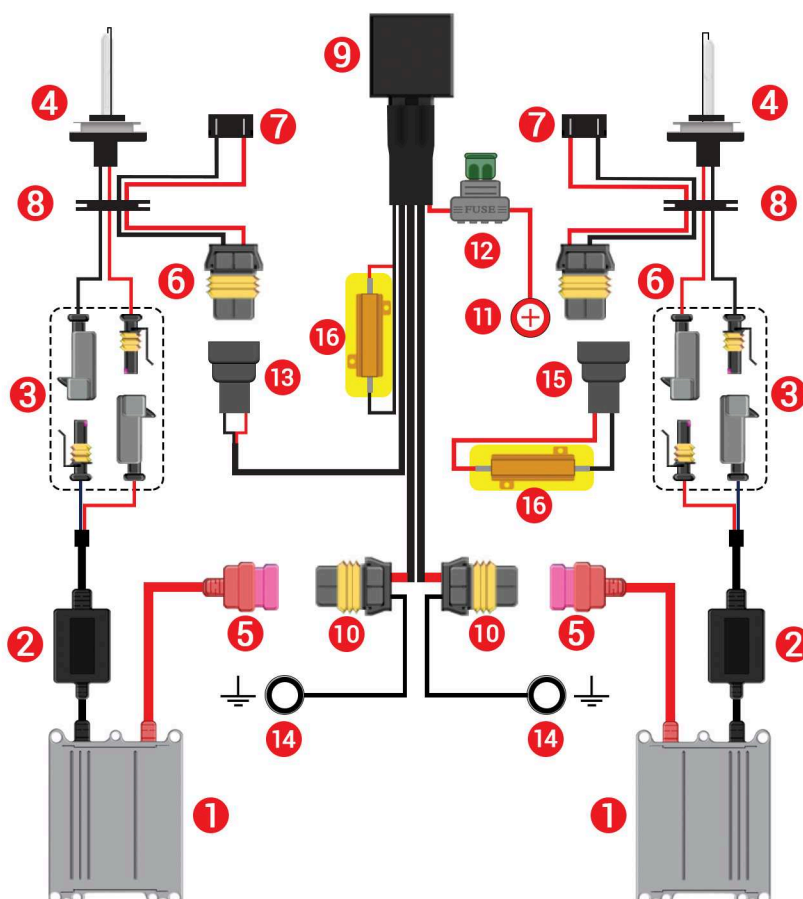


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## H15 (Single beam) WIRING DIAGRAM

- ① HID ballast
- ② Igniter
- ③ AMP connectors
- ④ HID bulb
- ⑤ Ballast input
- ⑥ Ballast feed
- ⑦ Factory plug
- ⑧ Rubber grommet
- \* ⑨ Control box
- ⑩ Ballast feed
- ⑪ Positive bolt | 12v
- ⑫ Fuse box
- ⑬ Relay input
- ⑭ Negative bolt | ground
- ⑮ Resistor input
- ⑯ Resistors

\* These items from the list are not included into the regular kit



The shortest relay's wire with the ballast feed should be connected on the battery's side



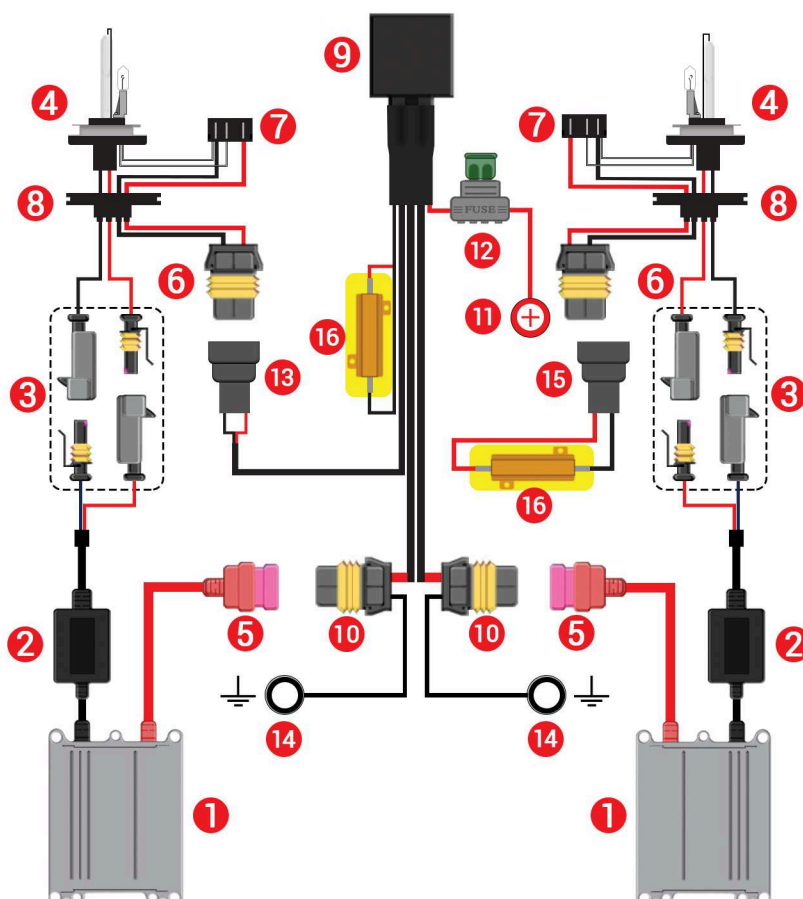
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## H15 (High xenon / DRL halogen)

### WIRING DIAGRAM

- ① HID ballast
- ② Igniter
- ③ AMP connectors
- ④ HID bulb
- ⑤ Ballast input
- ⑥ Ballast feed
- ⑦ Factory plug
- ⑧ Rubber grommet
- \* ⑨ Control box
- ⑩ Ballast feed
- ⑪ Positive bolt | 12v
- ⑫ Fuse box
- ⑬ Relay input
- ⑭ Negative bolt | ground
- ⑮ Resistor input
- ⑯ Resistors

\* These items from the list are not included into the regular kit



The shortest relay's wire with the ballast feed should be connected on the battery's side



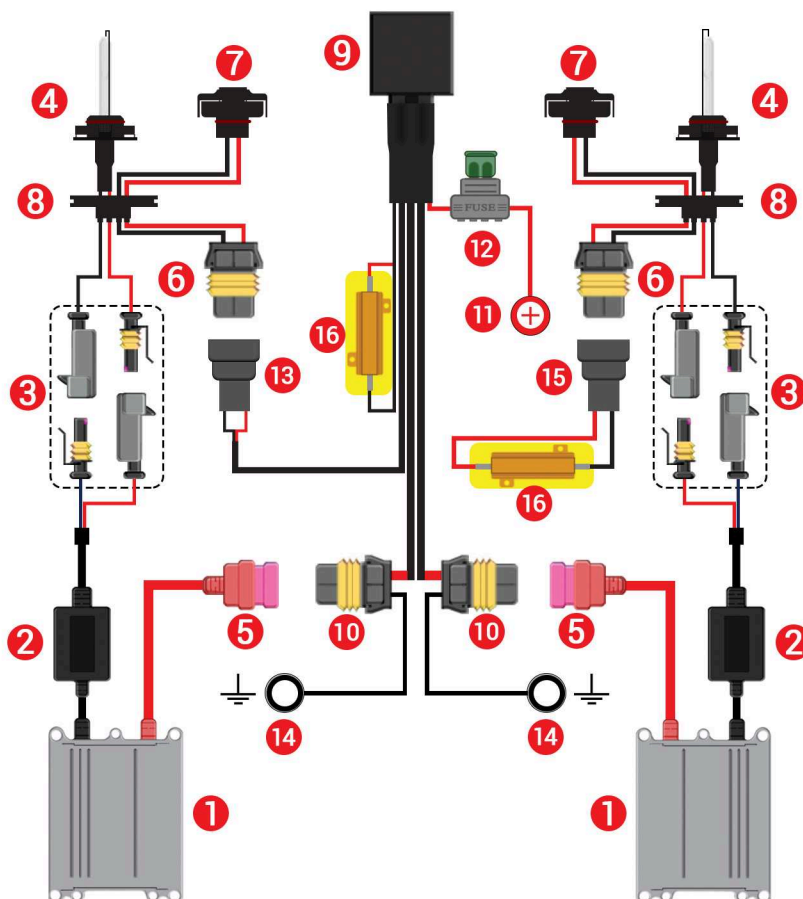


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## 5202 (Single beam) WIRING DIAGRAM

- ① HID ballast
- ② Igniter
- ③ AMP connectors
- ④ HID bulb
- ⑤ Ballast input
- ⑥ Ballast feed
- ⑦ Factory plug
- ⑧ Rubber grommet
- \* ⑨ Control box
- ⑩ Ballast feed
- ⑪ Positive bolt | 12v
- ⑫ Fuse box
- ⑬ Relay input
- ⑭ Negative bolt | ground
- ⑮ Resistor input
- ⑯ Resistors

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The shortest relay's wire with the ballast feed should be connected on the battery's side

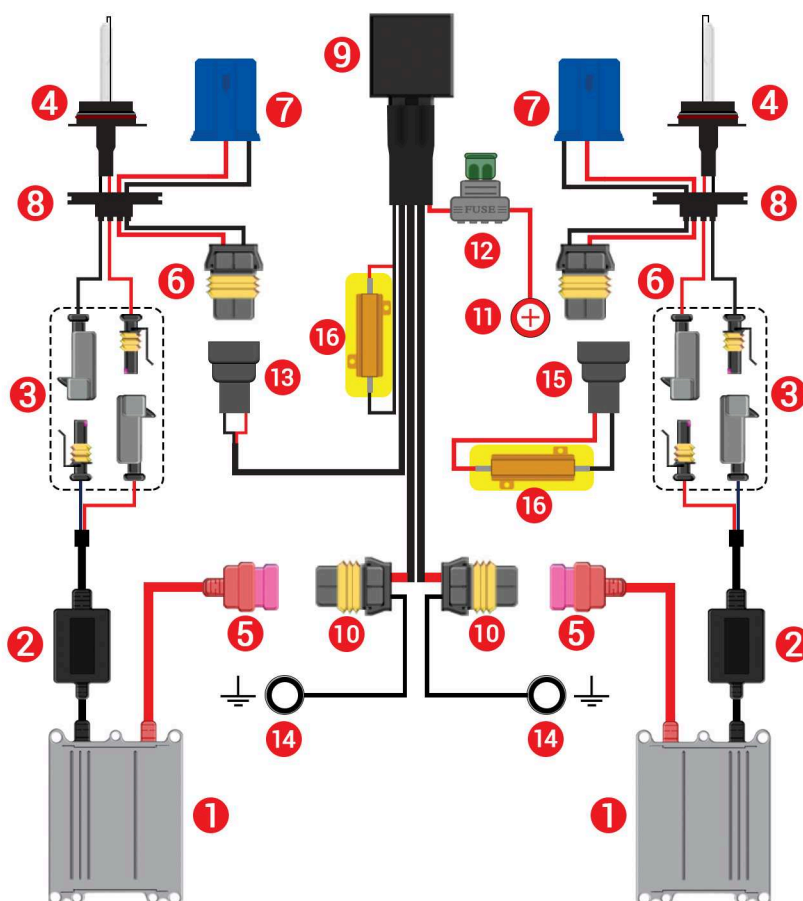


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## 9004 (Single beam) WIRING DIAGRAM

- ① HID ballast
- ② Igniter
- ③ AMP connectors
- ④ HID bulb
- ⑤ Ballast input
- ⑥ Ballast feed
- ⑦ Factory plug
- ⑧ Rubber grommet
- \* ⑨ Control box
- ⑩ Ballast feed
- ⑪ Positive bolt | 12v
- ⑫ Fuse box
- ⑬ Relay input
- ⑭ Negative bolt | ground
- ⑮ Resistor input
- ⑯ Resistors

\* These items from the list are not included into the regular kit



The shortest relay's wire with the ballast feed should be connected on the battery's side



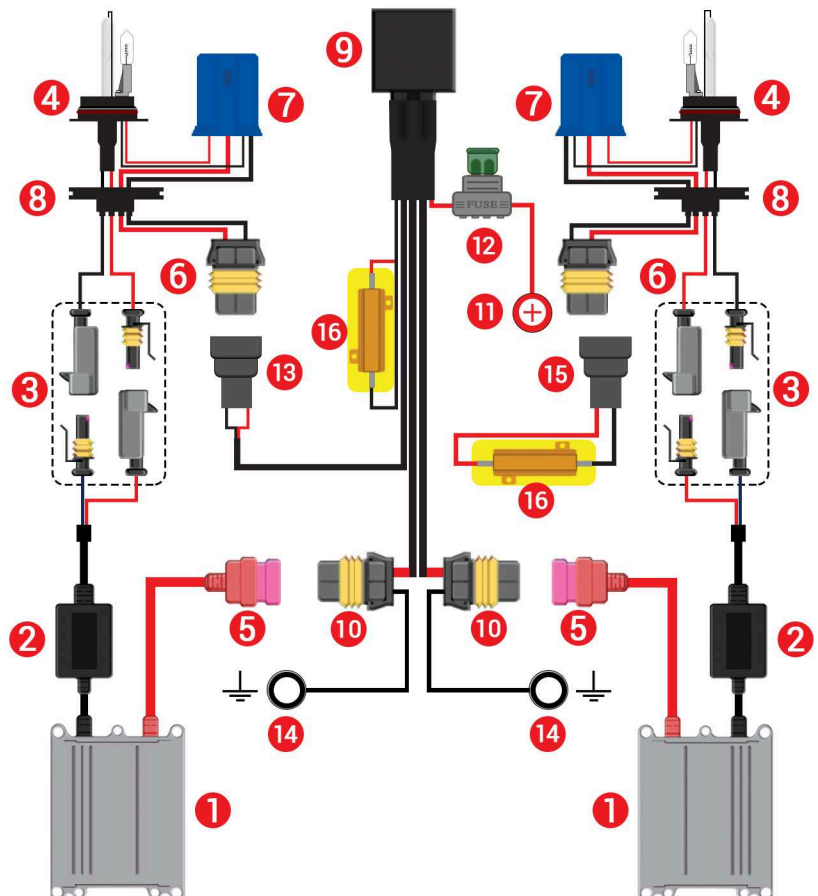
!

## 9004 (Low xenon / High halogen)

### WIRING DIAGRAM

- 1 HID ballast
- 2 Igniter
- 3 AMP connectors
- 4 HID bulb
- 5 Ballast input
- 6 Ballast feed
- 7 Factory plug
- 8 Rubber grommet
- \* 9 Control box
- 10 Ballast feed
- 11 Positive bolt | 12v
- 12 Fuse box
- 13 Relay input
- 14 Negative bolt | ground
- 15 Resistor input
- 16 Resistors

*\* These items from the list are not included into the regular kit*



The shortest relay's wire with the ballast feed should be connected on the battery's side

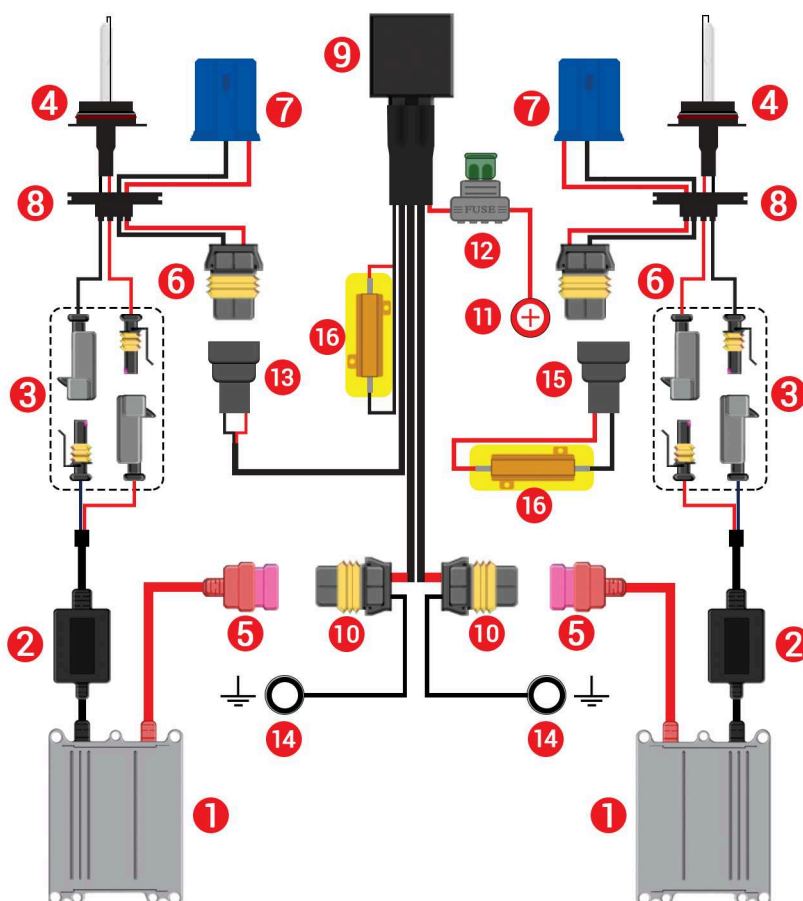


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## 9007 (Single beam) WIRING DIAGRAM

- ① HID ballast
- ② Igniter
- ③ AMP connectors
- ④ HID bulb
- ⑤ Ballast input
- ⑥ Ballast feed
- ⑦ Factory plug
- ⑧ Rubber grommet
- \* ⑨ Control box
- ⑩ Ballast feed
- ⑪ Positive bolt | 12v
- ⑫ Fuse box
- ⑬ Relay input
- ⑭ Negative bolt | ground
- ⑮ Resistor input
- ⑯ Resistors

\* These items from the list are not included into the regular kit



The shortest relay's wire with the ballast feed should be connected on the battery's side



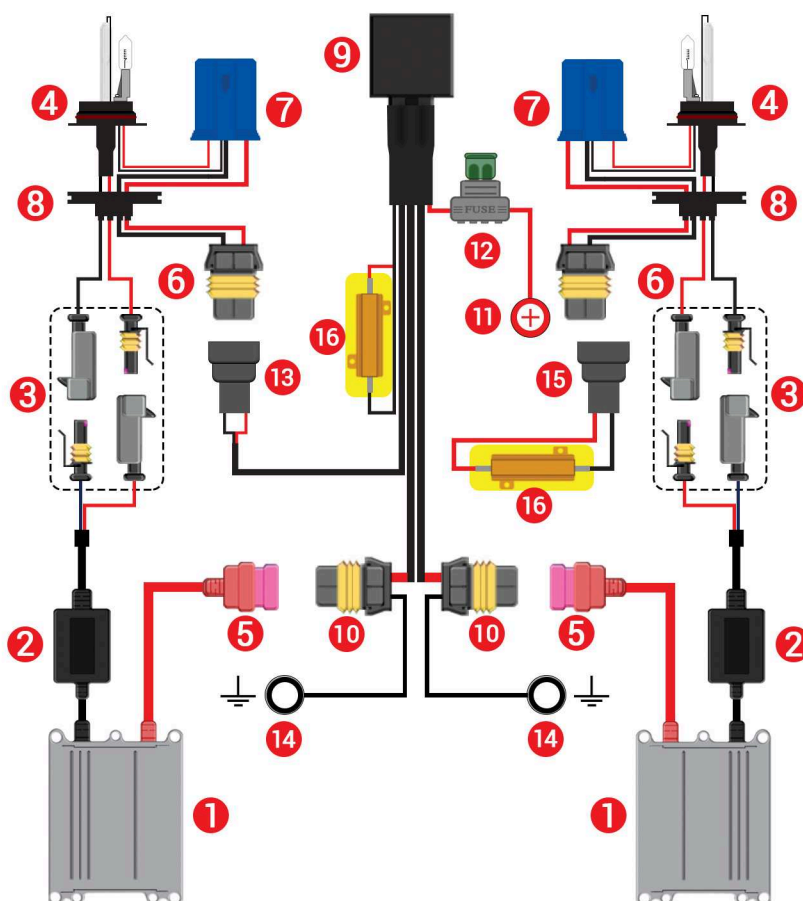


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## 9007 (Low xenon / High halogen) WIRING DIAGRAM

- ① HID ballast
- ② Igniter
- ③ AMP connectors
- ④ HID bulb
- ⑤ Ballast input
- ⑥ Ballast feed
- ⑦ Factory plug
- ⑧ Rubber grommet
- \* ⑨ Control box
- ⑩ Ballast feed
- ⑪ Positive bolt | 12v
- ⑫ Fuse box
- ⑬ Relay input
- ⑭ Negative bolt | ground
- ⑮ Resistor input
- ⑯ Resistors

\* These items from the list are not included into the regular kit



The shortest relay's wire with the ballast feed should be connected on the battery's side



# Service information

The Kensun Customer Service Center is staffed with friendly and trained personnel to provide customers with efficient and reliable service and support. Whether you need technical advice, repair, or genuine factory replacement parts contact Kensun at:

**1-855-536-7862**  
**[customerservice@kensun.com](mailto:customerservice@kensun.com)**

Please have your order number available when calling for support. In most cases, a Kensun representative can resolve the problem over the phone. If you have a suggestion or comment, give us a call. Your feedback is vital to Kensun.



[www.kensun.com](http://www.kensun.com)

Thank you for choosing.