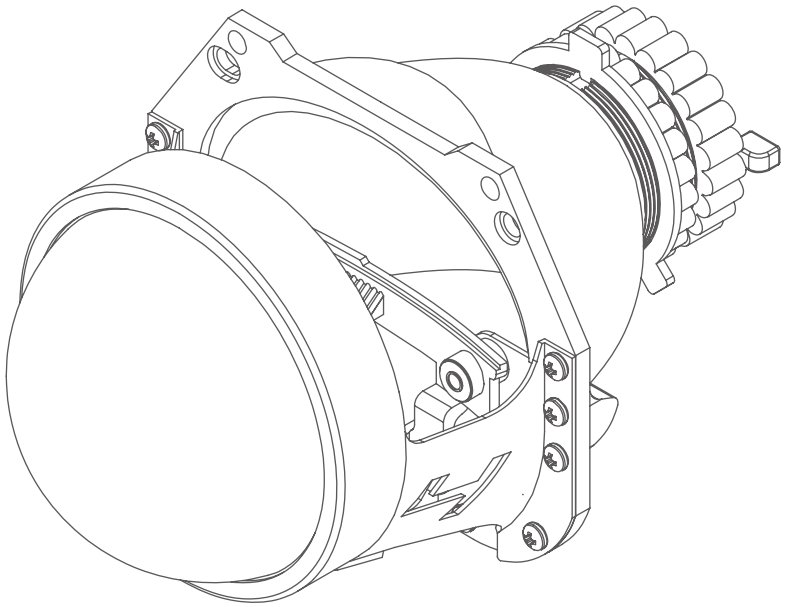
MORIMOTO

THE AUTOMOTIVE LIGHTING BENCHMARK



INSTALLATION GUIDE

MINI D2S 4.0 STAGE III KIT

INFO@MORIMOTOHID.COM WWW.MORIMOTOHID.COM

WARNING: By reading this document, I agree it is only to be used as an educational guide. Morimoto Lighting makes no guarantee on any finished results, nor are they to be held responsible for any damage, misuse, or personal injuries. Use at your own risk. If you are unable to clearly understand and adapt the information below to your own application, professional installation is recommended.

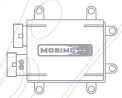
TABLE OF CONTENTS

STANDARD PARTS


1x TEST LEAD

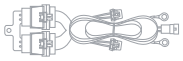

2x HID BULBS


2X D2S IGNITERS


2x BALLAST COMPUTERS

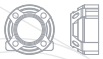

2X MINI D2S PROJECTORS

OPTIONAL PARTS

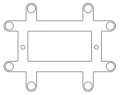

1x HD RELAY HARNESS


1x CAPACITOR LINK


2x CANBUS HARNESSES


2X PROJECTOR SHROUDS


2X XSB 2.0 LED HALOS


2x CARBON FIBER BALLAST BRACKETS


1X RETRORUBBER SEALANT


2X HIGH BEAM SPLITTERS

SPECIAL NOTE:

The included ballast test lead is used for troubleshooting purposes only and is not part of the installation of this system. If necessary, the test lead can be plugged into the ballast input then connected to a 12V+ source to test the ballast. This must be done with the bulb connected to the ballast prior to applying power.


Ballast Test Lead

NOTE: System diagrams are to be used for reference purposes only. If you are unsure of the installation procedure for any individual part, review its install procedure prior to proceeding.

IDENTIFYING YOUR INSTALLATION TYPE

NOTE: There are three types of wiring installations with this system: EXTERNAL LOW-BEAM, INTERNAL LOW-BEAM, and DUAL FILAMENT. The installation guide that follows will cover all three types.

EXTERNAL LOW-BEAM

Separate low and high beam bulbs; When you can access the bulb from the back of the headlight without removing any caps or covers. Wiring for the bulb is visible and accessible outside of the housing.

PROCEED TO PAGE 4

INTERNAL LOW-BEAM

Separate low and high beam bulbs; When you must first remove a cap (generally plastic) to access the bulb. Inside the housing, there is wiring going to the bulb.

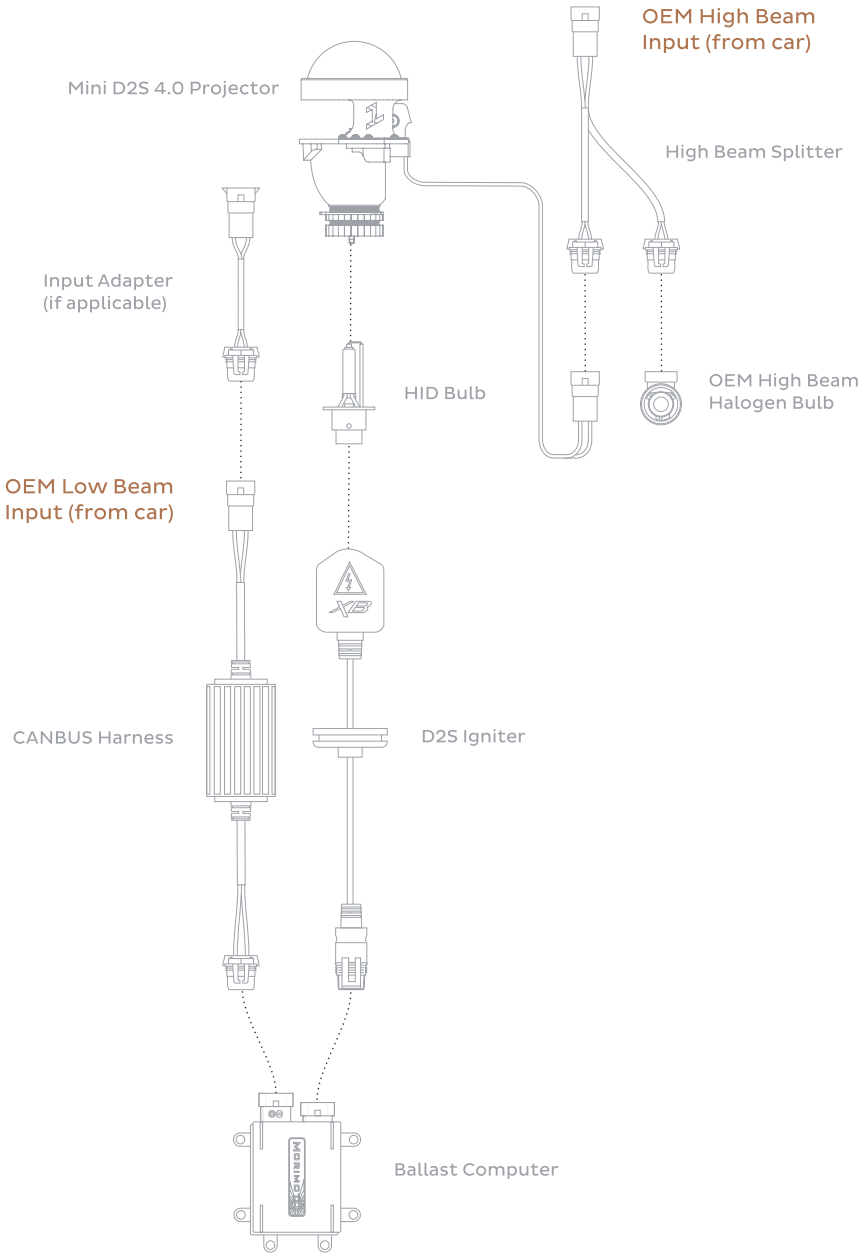
PROCEED TO PAGE 6

DUAL FILAMENT

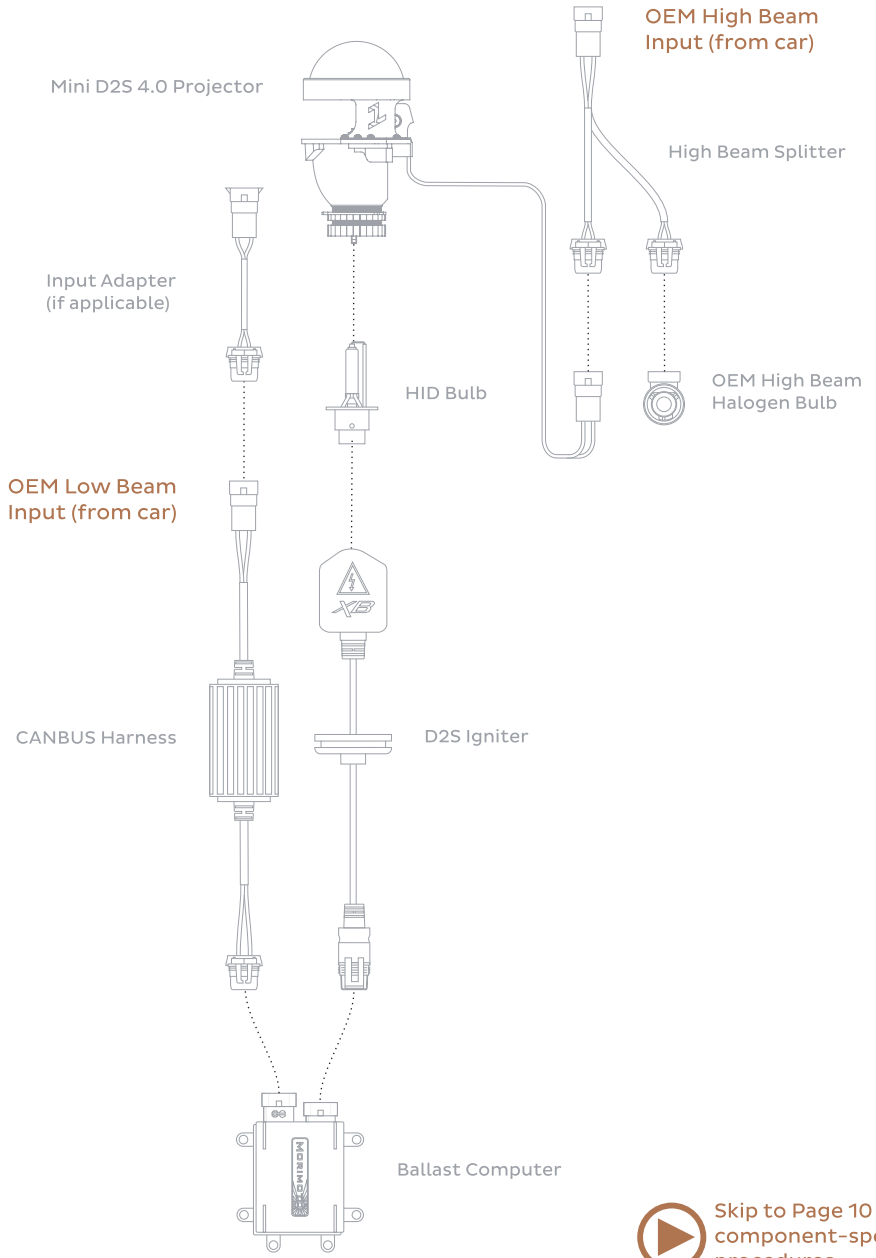
Shared low/high beam bulb; You can access the bulb from the back of the headlight without removing any caps or covers. Wiring for the bulb is visible and accessible outside of the housing.

PROCEED TO PAGE 8

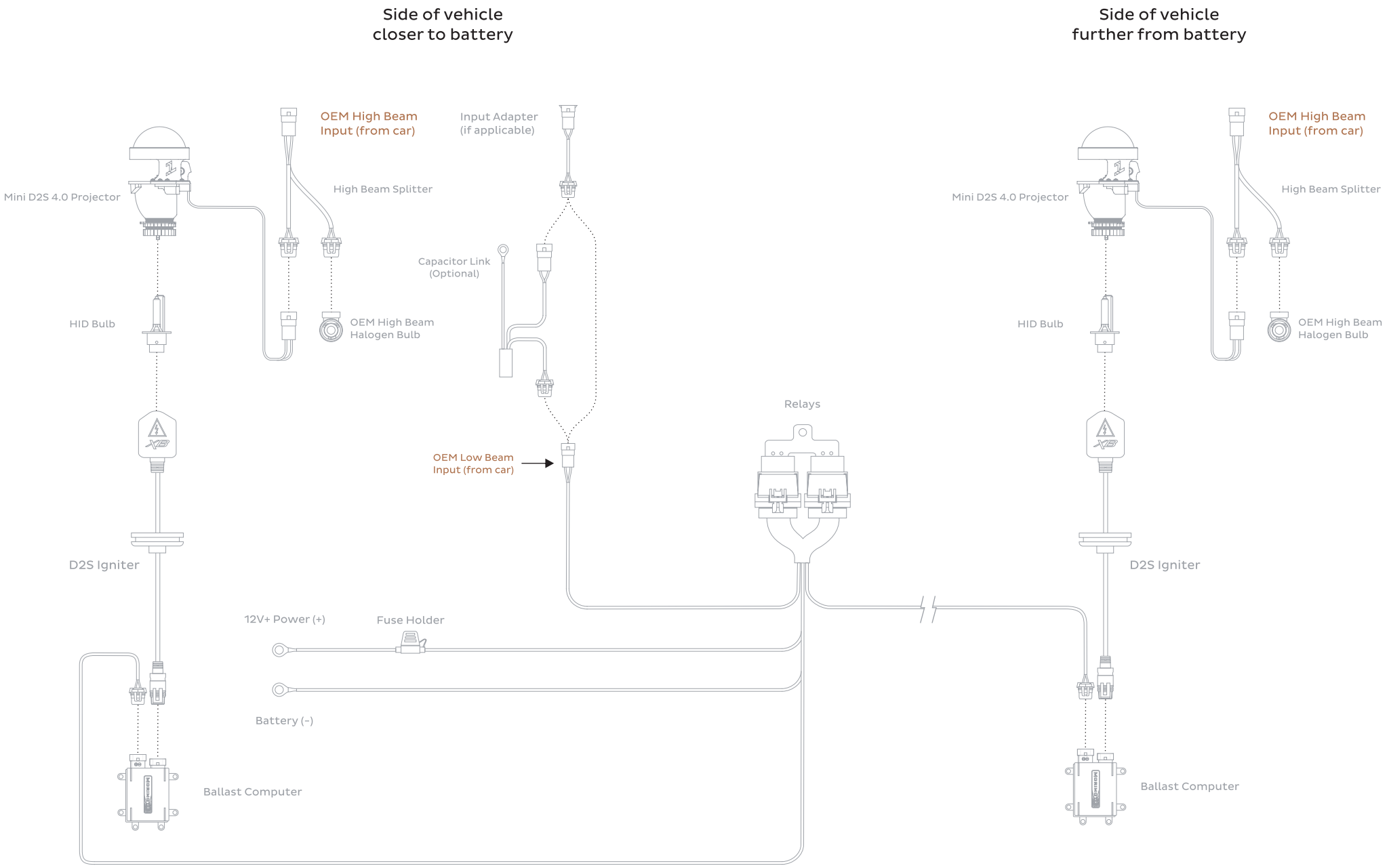
Right Side of Vehicle



Left Side of Vehicle

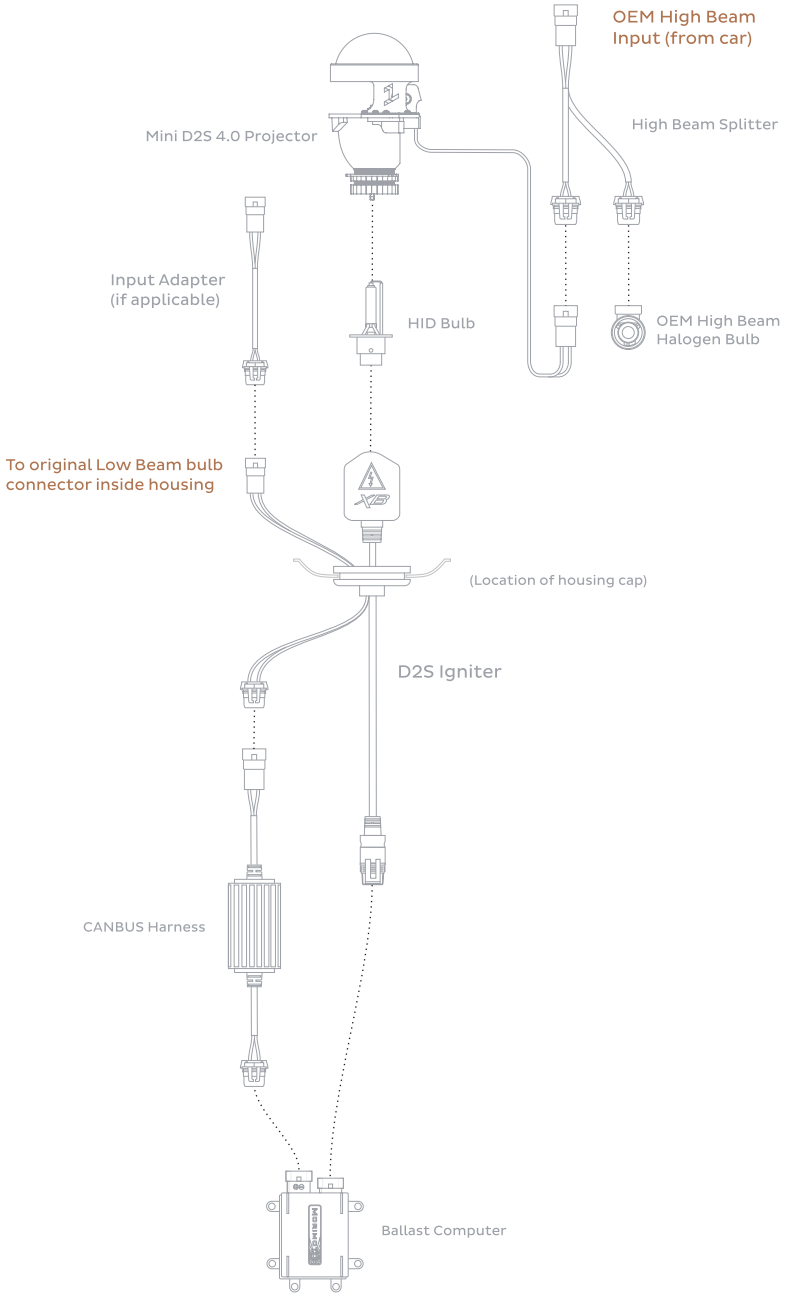


Skip to Page 10 for component-specific procedures

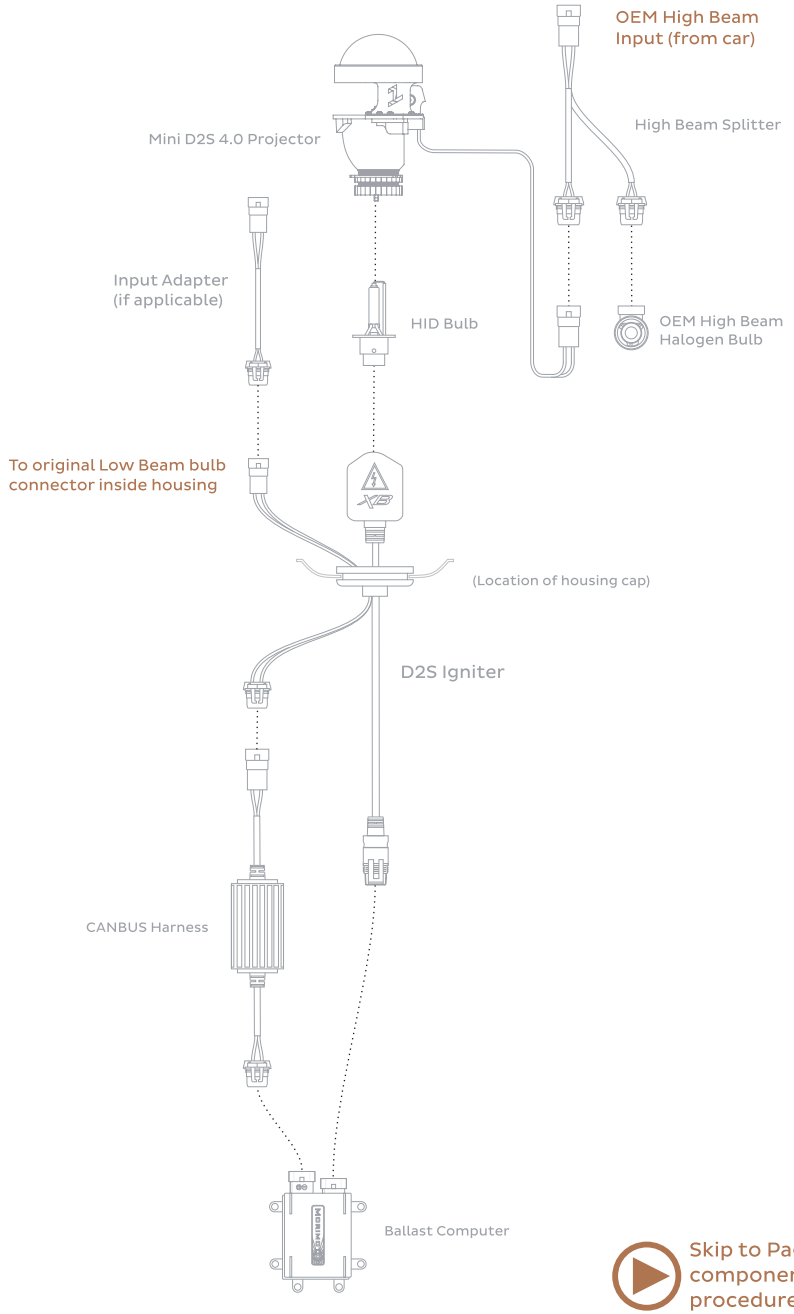


Skip to Page 10 for component-specific procedures

Right Side of Vehicle

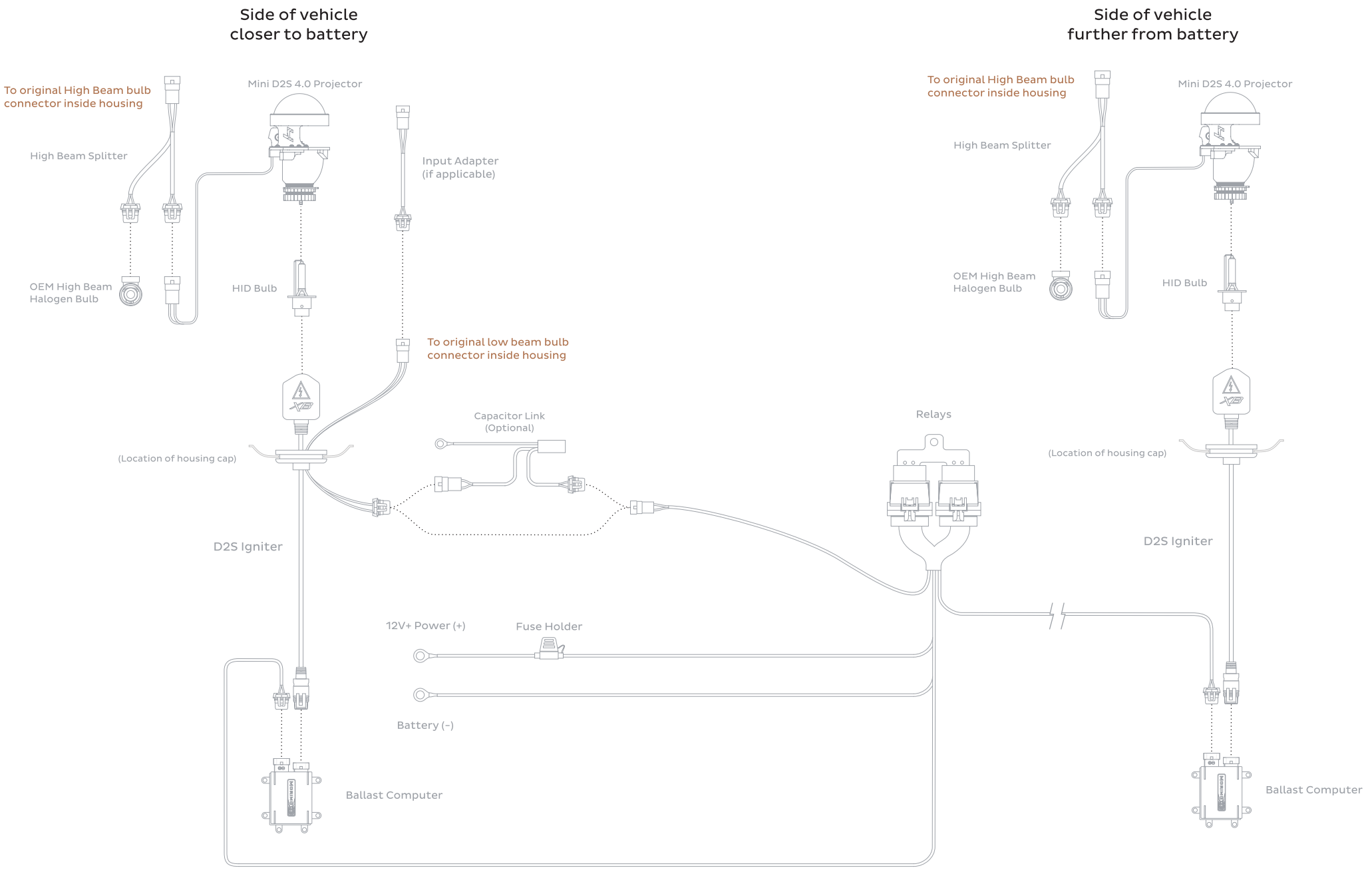


Left Side of Vehicle

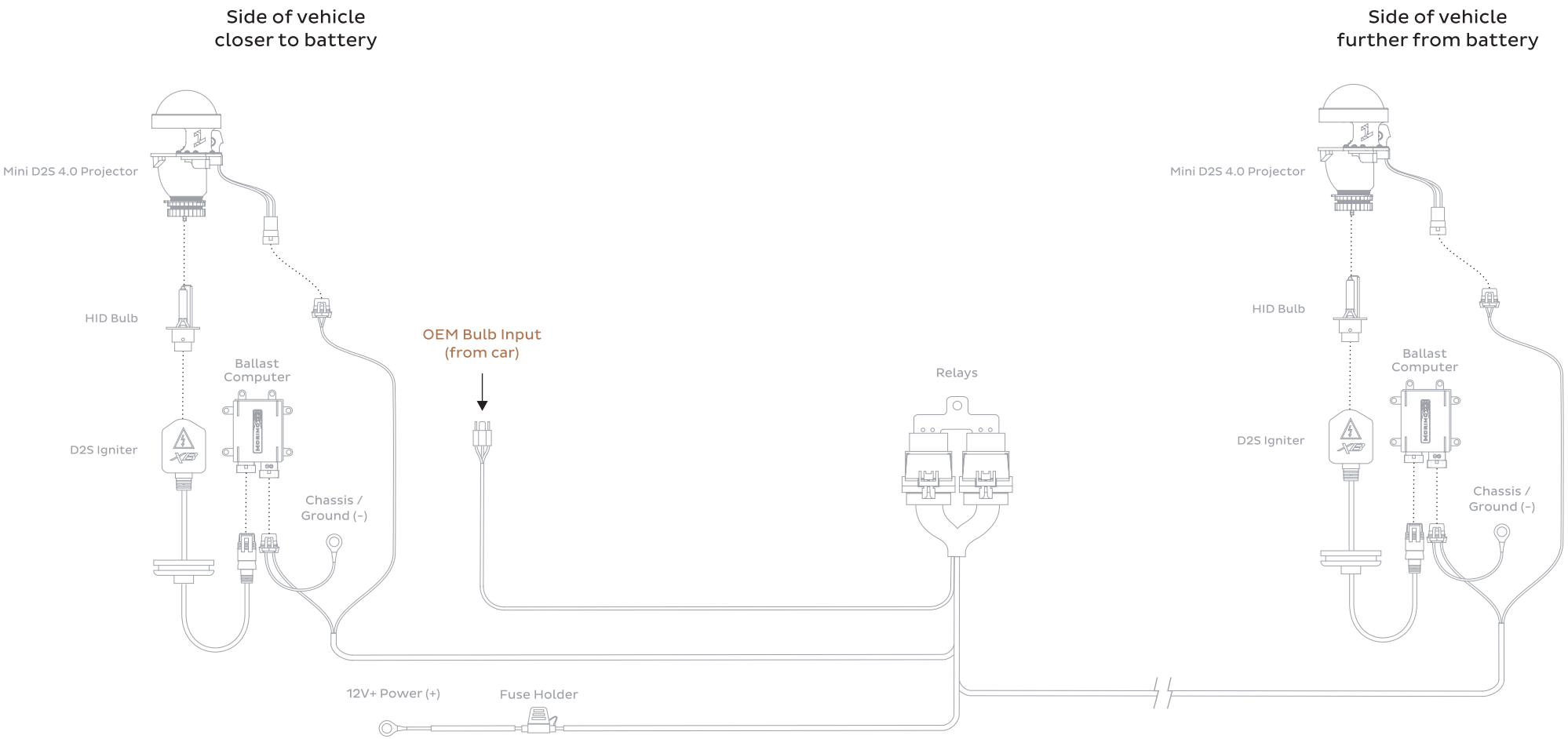


Skip to Page 10 for component-specific procedures

INTERNALLY-WIRED W/ HD RELAY HARNESS

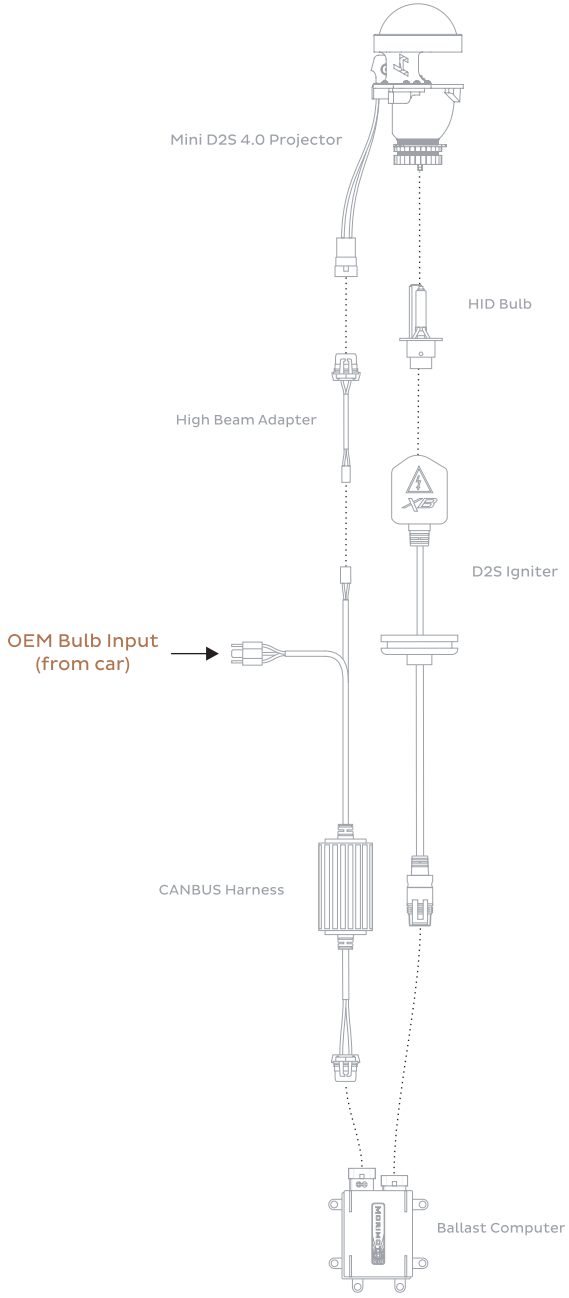


Skip to Page 10 for component-specific procedures

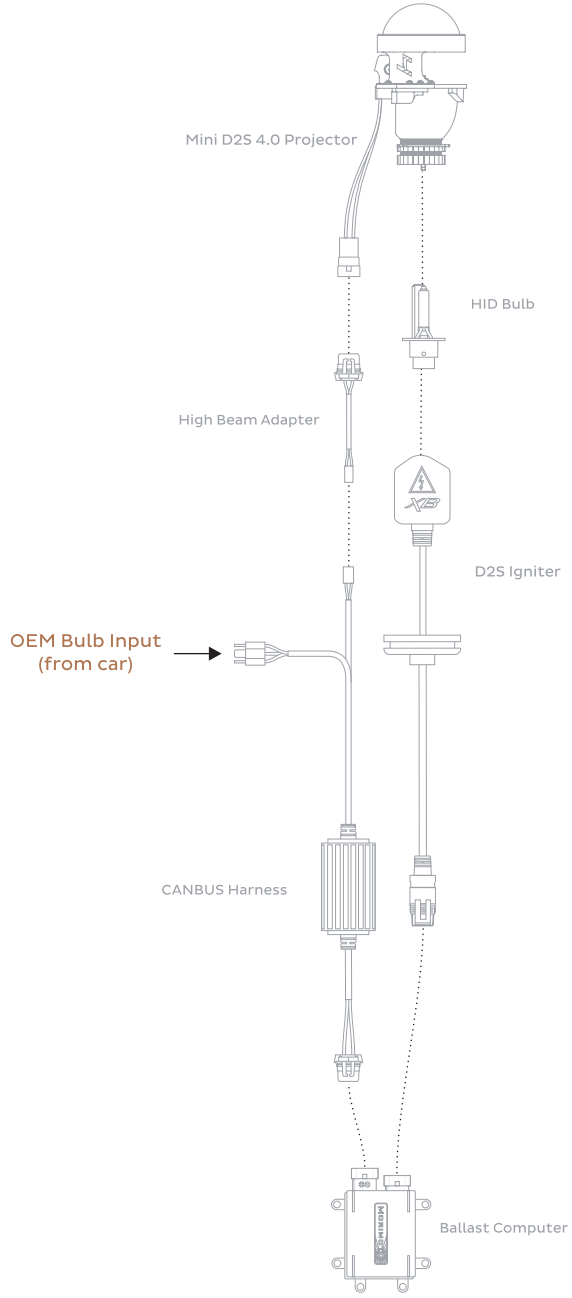


Skip to Page 10 for component-specific procedures

Right Side of Vehicle



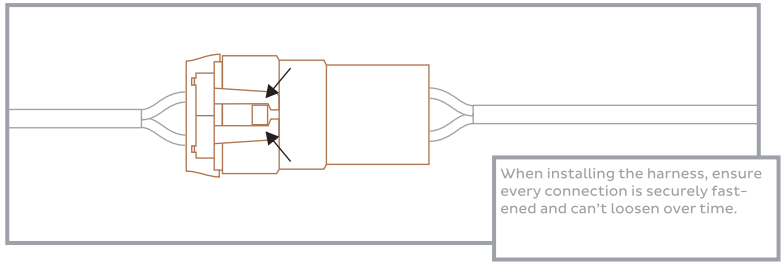
Left Side of Vehicle



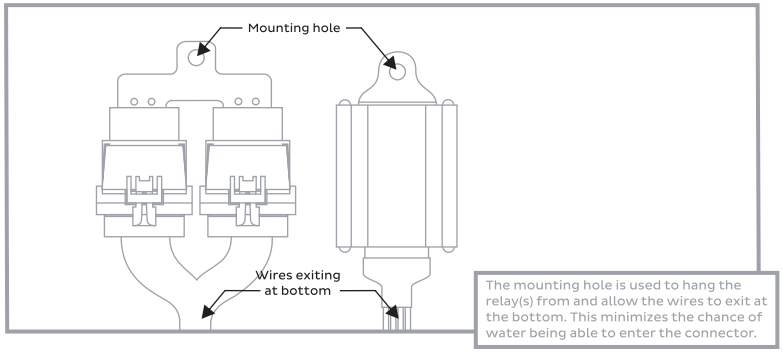
Skip to Page 10 for component-specific procedures

HARNESS INSTALLATION

SPECIAL NOTE: ALL HARNESSES



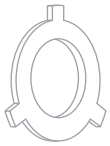
SPECIAL NOTE: HD RELAY AND MOTOCONTROL HARNESSES



PROJECTOR INSTALLATION

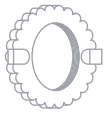
HARDWARE CONTENTS

1X H4 Silicone Grommet



1X H4 Adapter Plate

1X Knurled Lock Ring

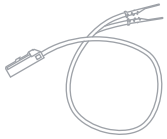


1X Bulb Retaining Cap

1X Bulb Retaining Spring

1X 9006 Male Connector

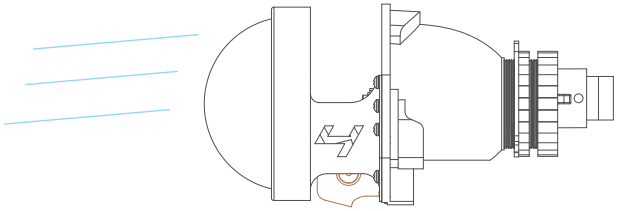
2X 9006 Socket Grommets



1X Solenoid Pigtail

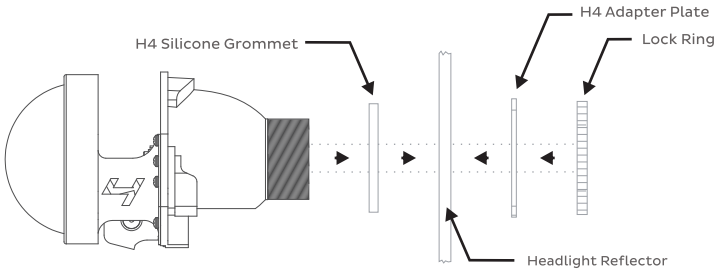
PROJECTOR INSTALLATION

SPECIAL INSTALLATION NOTE

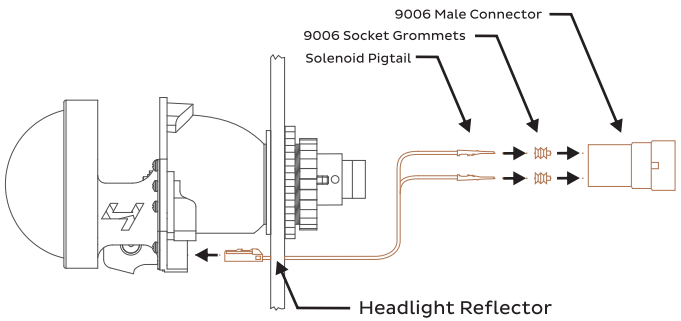


Mount projector rotationally level and with the solenoid and light cutoff shield on the bottom for proper light output

HARDWARE SCHEMATIC



SOLENOID WIRING SCHEMATIC

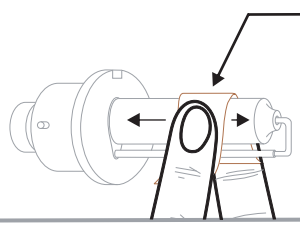


BULB INSTALLATION

CAUTION: HOT!

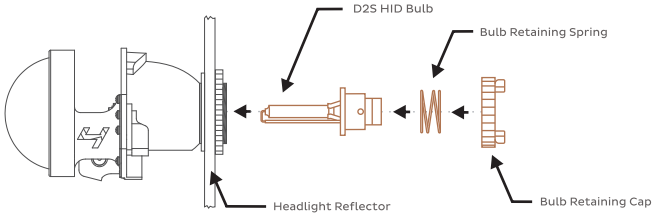
HANDLE ONLY WITH BLACK PLASTIC BASE

1



Using an alcohol wipe, clean the bulb glass of any dust, dirt, and finger prints.

2

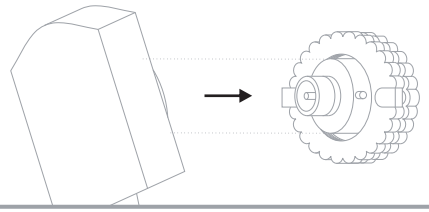


BALLAST INSTALLATION

DO NOT IGNITE UNTIL FULLY CONNECTED!

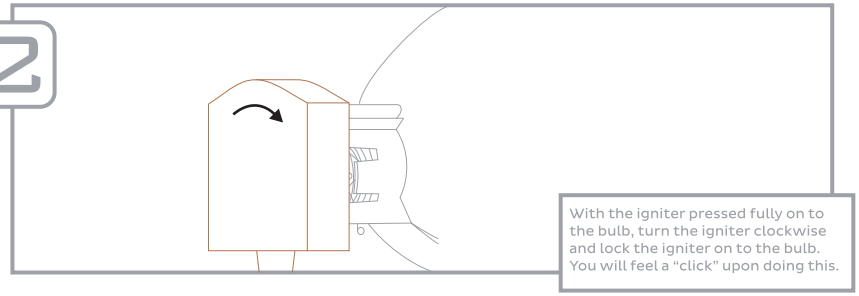
WATERPROOF

1



Line up slots in igniter with the tabs on the D2S bulb and slide the igniter on to the bulb.

2



With the igniter pressed fully on to the bulb, turn the igniter clockwise and lock the igniter on to the bulb. You will feel a "click" upon doing this.

EXTERNALLY WIRED?

SKIP TO P. 13, STEP 12

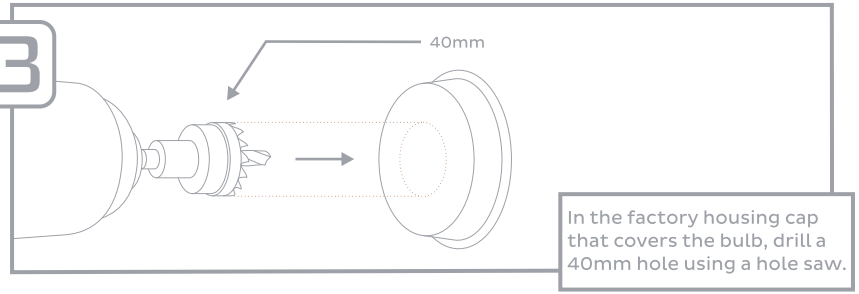
OR

INTERNALLY WIRED?

PROCEED TO STEP 3 BELOW

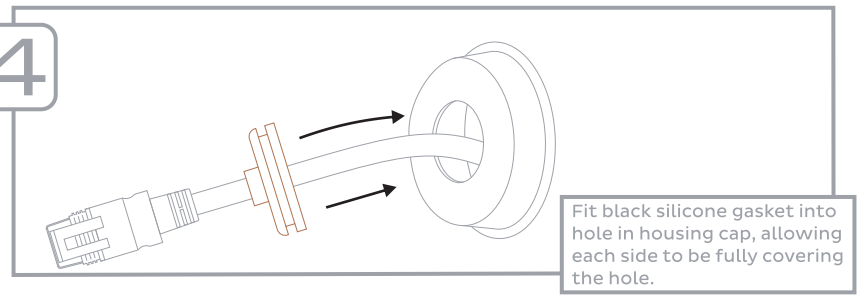
STEP BY STEP - INTERNALLY WIRED

3



In the factory housing cap that covers the bulb, drill a 40mm hole using a hole saw.

4



Fit black silicone gasket into hole in housing cap, allowing each side to be fully covering the hole.

HD RELAY HARNESS?

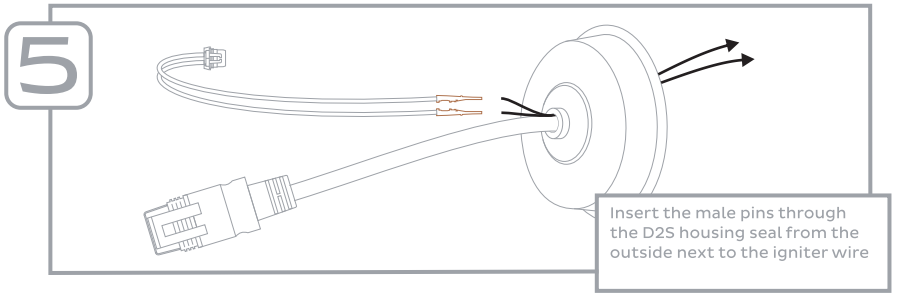
COMPLETE STEPS 5-7 ON SIDE OF VEHICLE CLOSER TO BATTERY ONLY

OR

STANDALONE CANBUS?

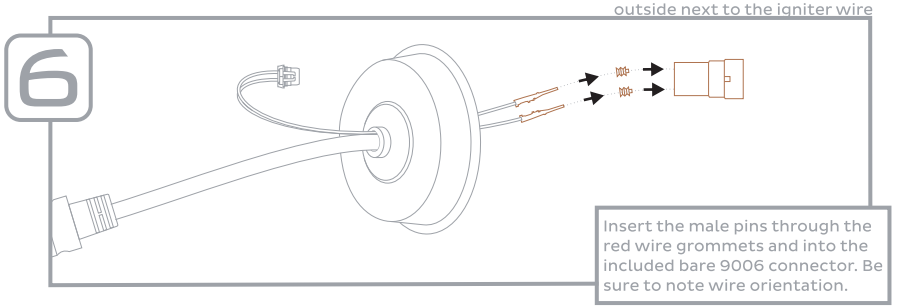
COMPLETE STEPS 5-7 ON BOTH SIDES OF VEHICLE

5



Insert the male pins through the D2S housing seal from the outside next to the igniter wire

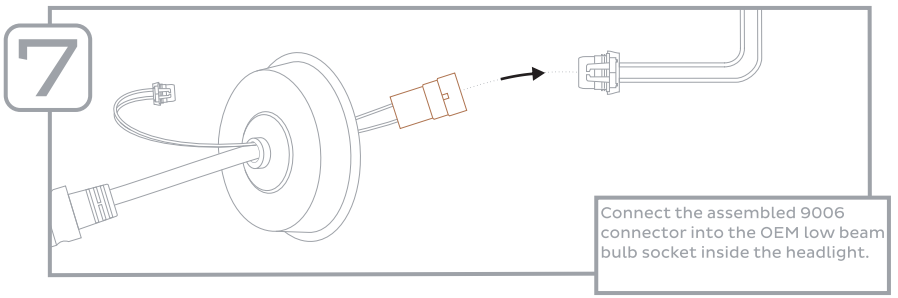
6



Insert the male pins through the D2S housing seal from the outside next to the igniter wire

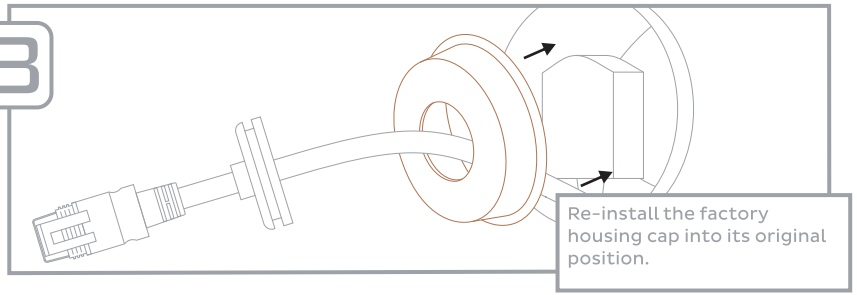
Insert the male pins through the red wire grommets and into the included bare 9006 connector. Be sure to note wire orientation.

7



Connect the assembled 9006 connector into the OEM low beam bulb socket inside the headlight.

8



Re-install the factory housing cap into its original position.

HD RELAY HARNESS?

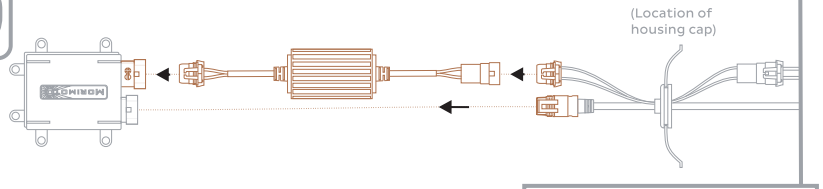
SKIP TO STEP 10 BELOW

OR

STANDALONE CANBUS?

CONTINUE TO STEP 9

9

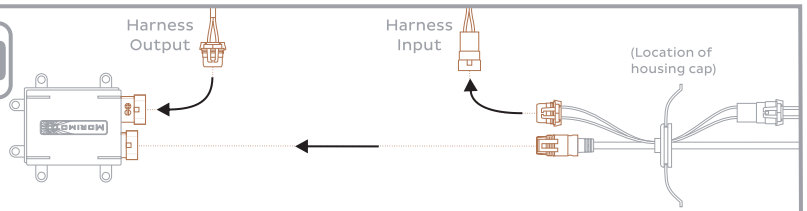


COMPLETE ON BOTH SIDES OF VEHICLE

Connect igniter to ballast, ballast to canbus, and canbus to pass-through on both sides of the vehicle as shown.

Skip to step 12

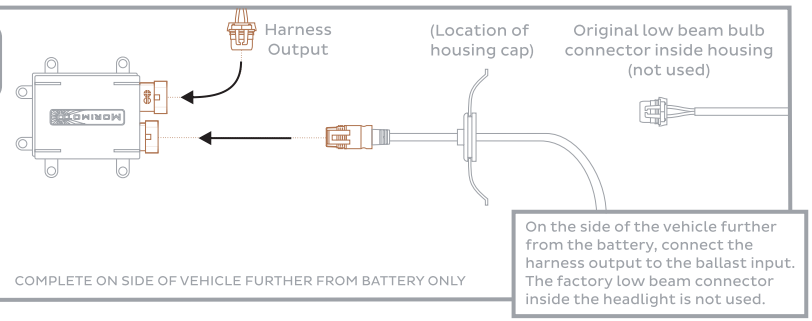
10



COMPLETE ON SIDE OF VEHICLE CLOSER TO BATTERY ONLY

On the side of the vehicle closer to the battery, connect the pass-through to the harness input and ballast to the harness output.

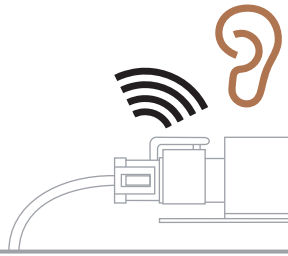
11



COMPLETE ON SIDE OF VEHICLE FURTHER FROM BATTERY ONLY

On the side of the vehicle further from the battery, connect the harness output to the ballast input. The factory low beam connector inside the headlight is not used.

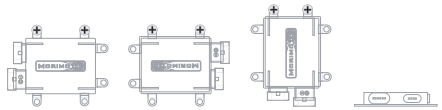
12



Listen for click of connectors to ensure fully seated!

13

Recommended mounting:



Do not mount ballast with connectors aimed upward!

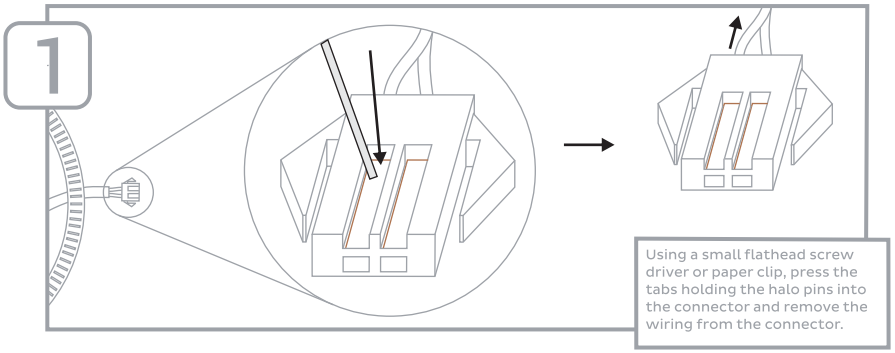
XSB HALO INSTALLATION

12V

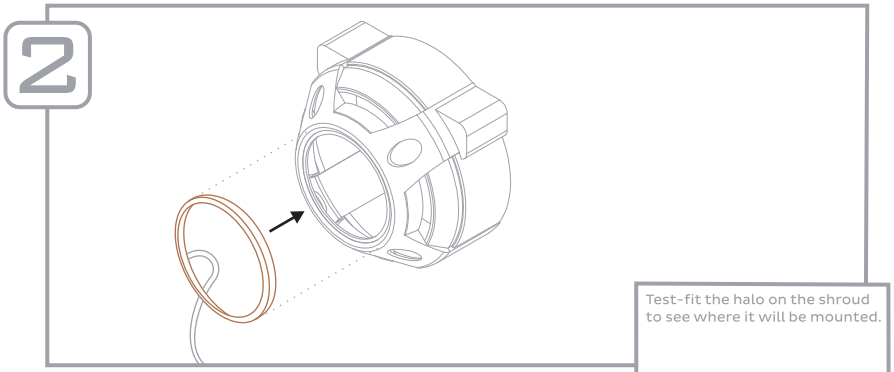
12vDC Input

Do not cut!

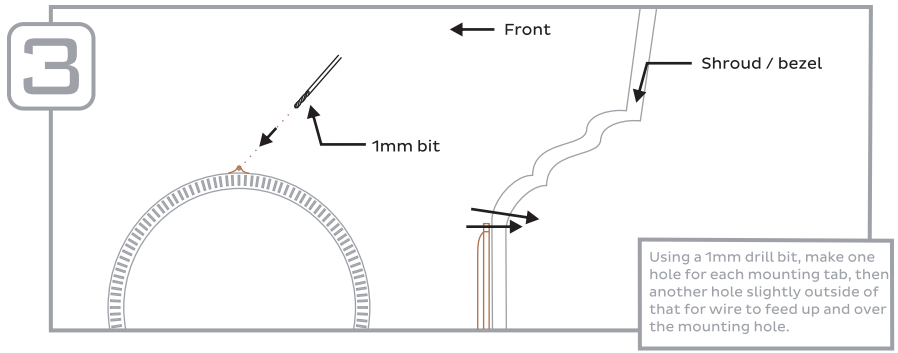
Do not glue!



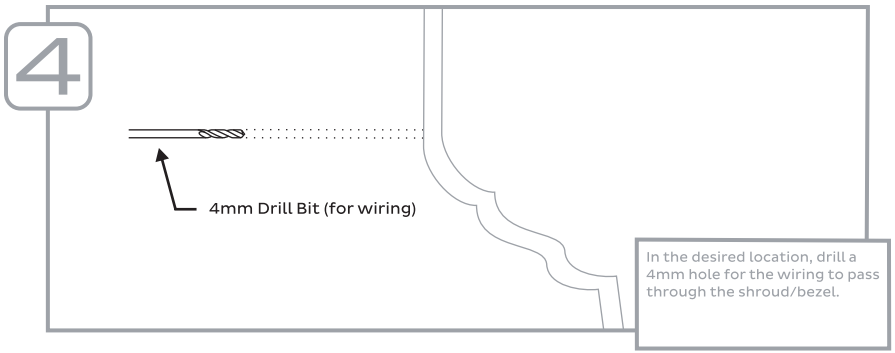
Using a small flathead screw driver or paper clip, press the tabs holding the halo pins into the connector and remove the wiring from the connector.



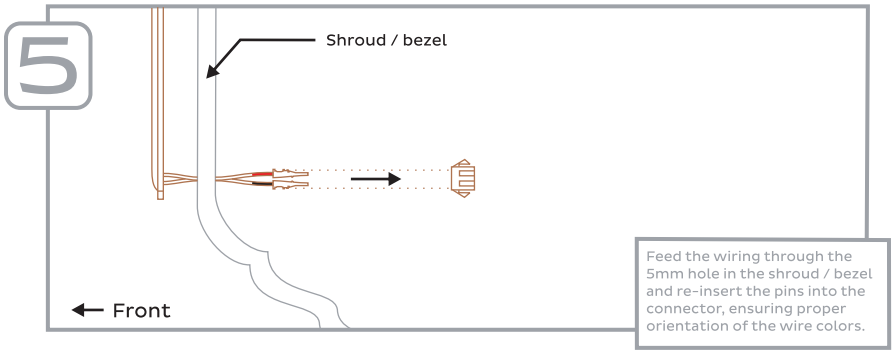
Test-fit the halo on the shroud to see where it will be mounted.



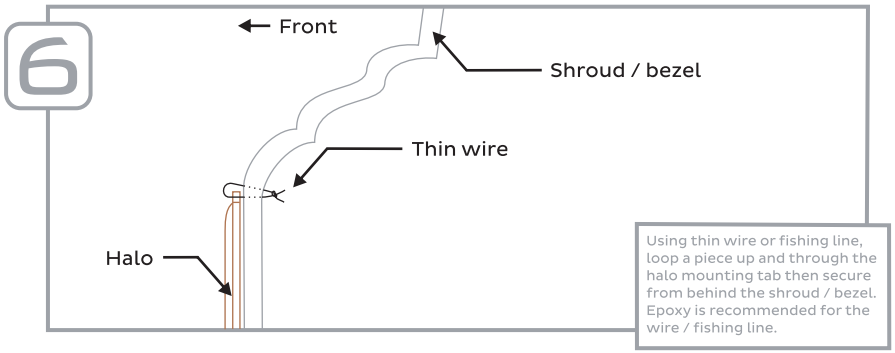
Using a 1mm drill bit, make one hole for each mounting tab, then another hole slightly outside of that for wire to feed up and over the mounting hole.



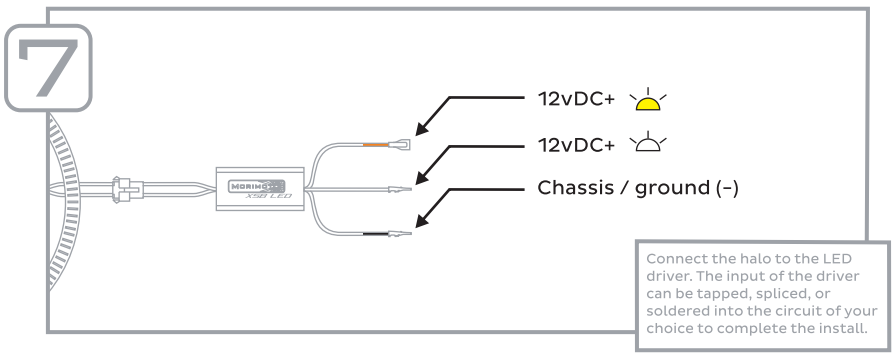
In the desired location, drill a 4mm hole for the wiring to pass through the shroud/bezel.



Feed the wiring through the 5mm hole in the shroud / bezel and re-insert the pins into the connector, ensuring proper orientation of the wire colors.



Using thin wire or fishing line, loop a piece up and through the halo mounting tab then secure from behind the shroud / bezel. Epoxy is recommended for the wire / fishing line.

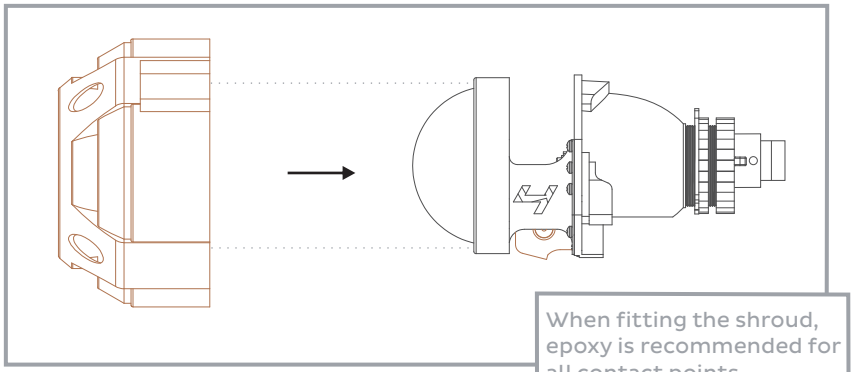


Connect the halo to the LED driver. The input of the driver can be tapped, spliced, or soldered into the circuit of your choice to complete the install.

SHROUD INSTALLATION

EPOXY IS RECOMMENDED FOR ALL CONTACT POINTS

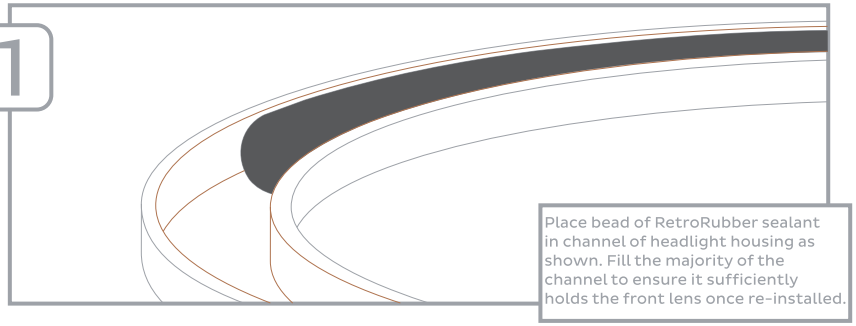
E-Z CUT



When fitting the shroud, epoxy is recommended for all contact points.

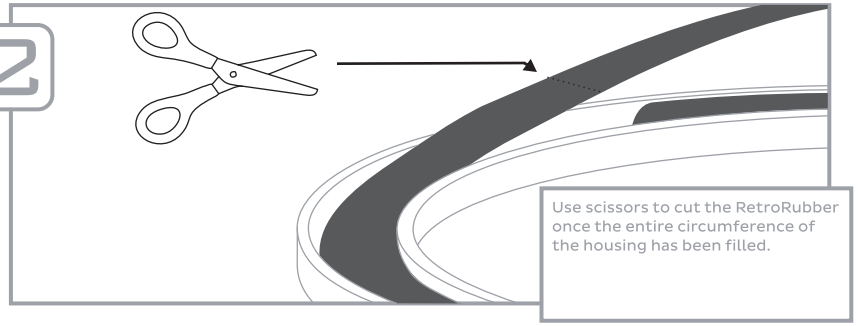
USING RETRORUBBER SEALANT

1



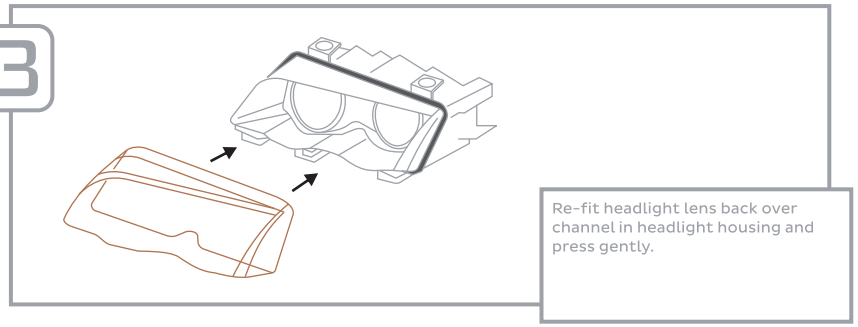
Place bead of RetroRubber sealant in channel of headlight housing as shown. Fill the majority of the channel to ensure it sufficiently holds the front lens once re-installed.

2



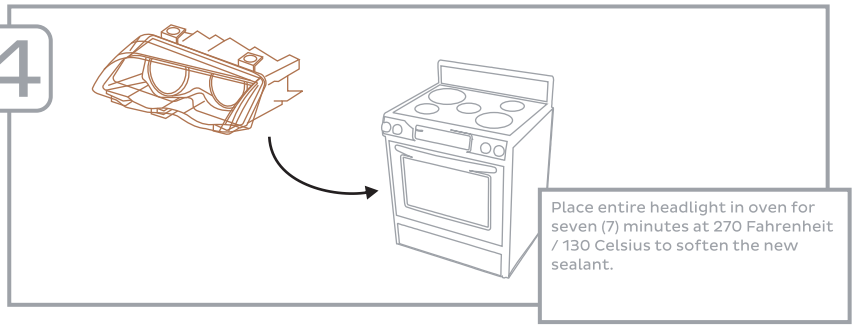
Use scissors to cut the RetroRubber once the entire circumference of the housing has been filled.

3



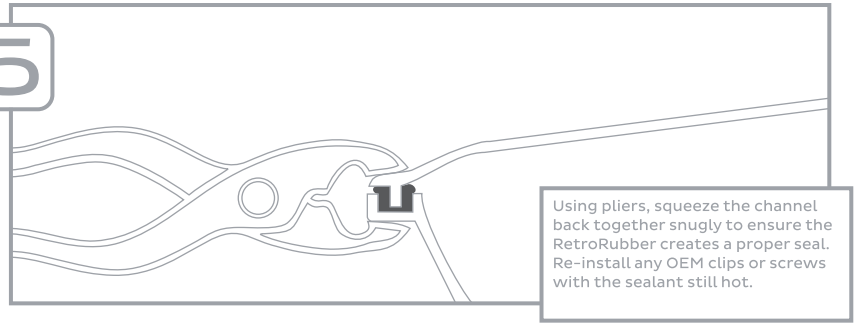
Re-fit headlight lens back over channel in headlight housing and press gently.

4



Place entire headlight in oven for seven (7) minutes at 270 Fahrenheit / 130 Celsius to soften the new sealant.

5



Using pliers, squeeze the channel back together snugly to ensure the RetroRubber creates a proper seal. Re-install any OEM clips or screws with the sealant still hot.

6

00:30:00

Allow thirty (30) minutes for headlight to sufficiently cool down prior to re-installation on car.

-END-