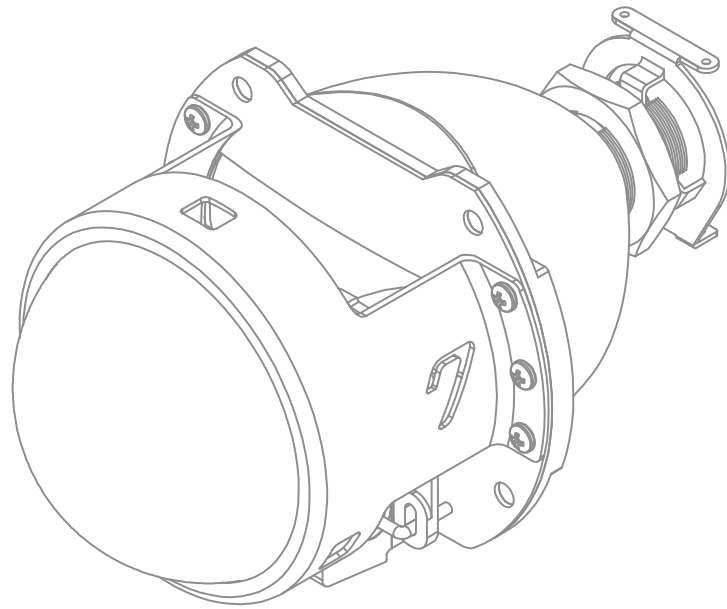




THE AUTOMOTIVE LIGHTING BENCHMARK



INSTALLATION GUIDE

MAZDA 6 / AUDI TT RETROQUIK

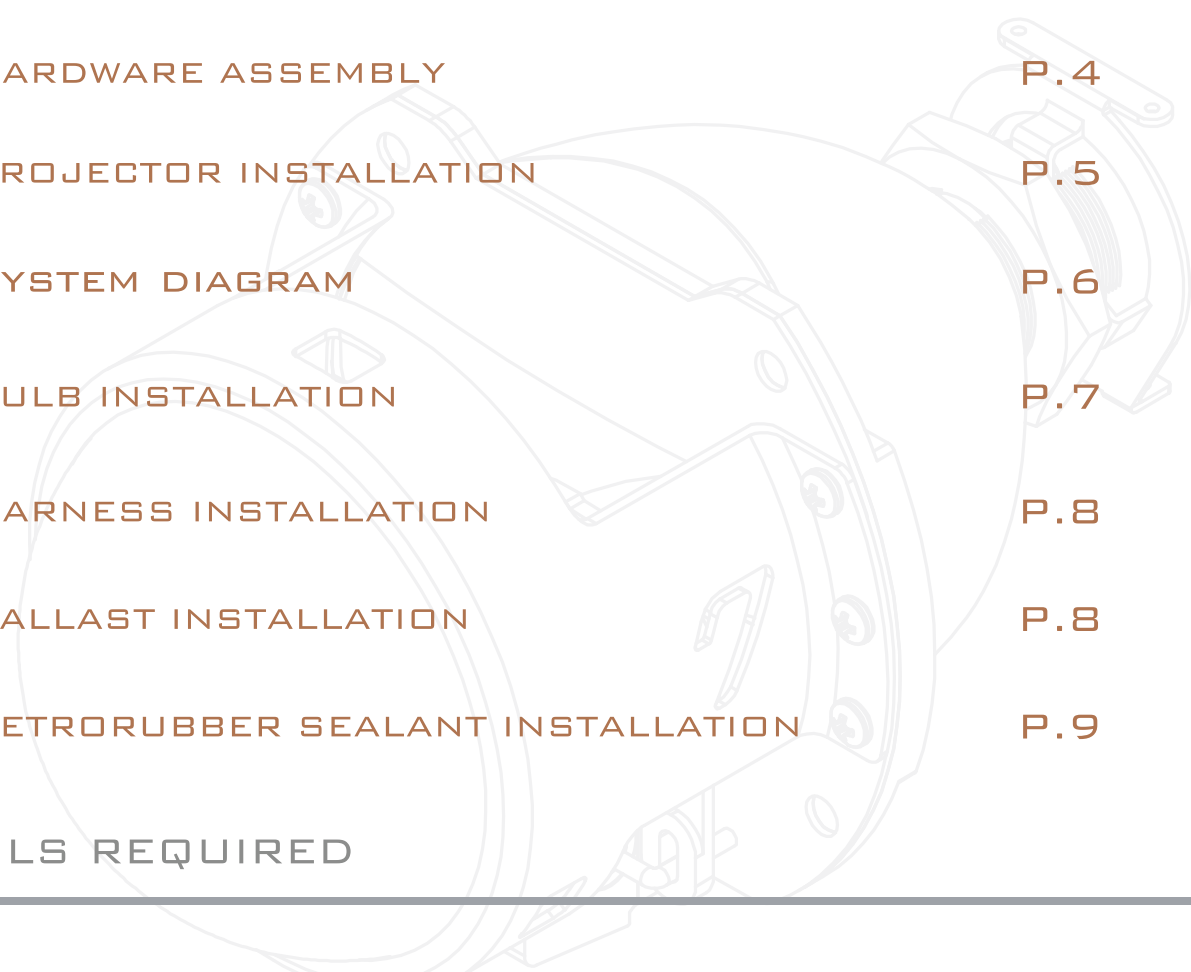




WARNING: By reading this document, I agree it is only to be used as an educational guide. Morimoto Lighting makes no guarantee on any finished results, nor are they to be held responsible for any damage, misuse, or personal injuries. Use at your own risk. If you are unable to clearly understand and adapt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

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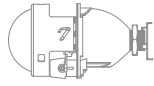
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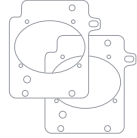
TOOLS REQUIRED

T20 SECURITY TORX BIT / DRIVER
#2 PHILIPS HEAD SCREWDRIVER
UTILITY SCISSORS
NEEDLE NOSE PLIERS
GAS OR ELECTRIC OVEN
HEAT-RESISTANT GLOVES

STANDARD PARTS

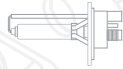


2X PROJECTORS



2X RQ HARDWARE / BRACKETS

OPTIONAL PARTS (FOR OEM HID LIGHTS)



2X HID BULBS



2X BULB WIRES

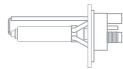


2X BALLAST ADAPTERS



2X HIGH BEAM SPLITTERS

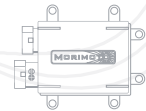
OPTIONAL PARTS (FOR OEM HALOGEN LIGHTS)



2X HID BULBS



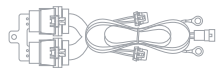
2X BULB WIRES



2X BALLAST COMPUTERS



2X AMP IGNITERS



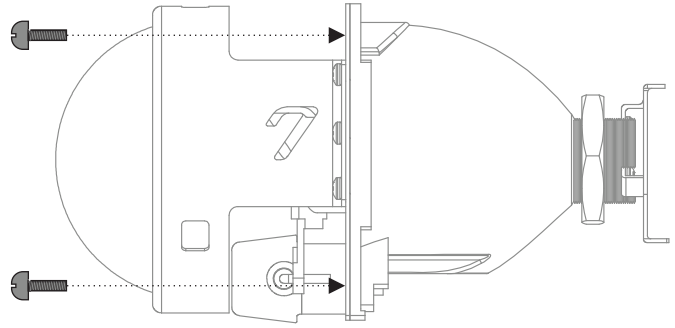
1X HD RELAY HARNESS



2X HIGH BEAM SPLITTERS

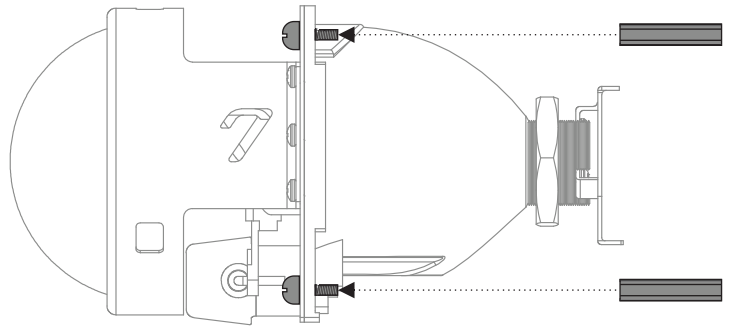
1

Insert four (4) of the 10mm screws into the four holes of the projector as shown.



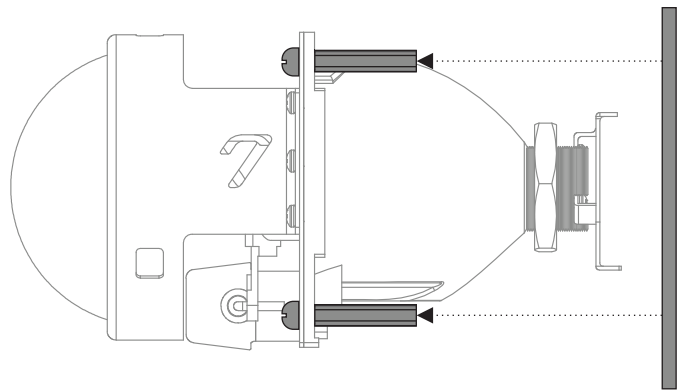
2

On each 10mm screw, thread on one (1) 25mm aluminum spacer and tighten until snug.



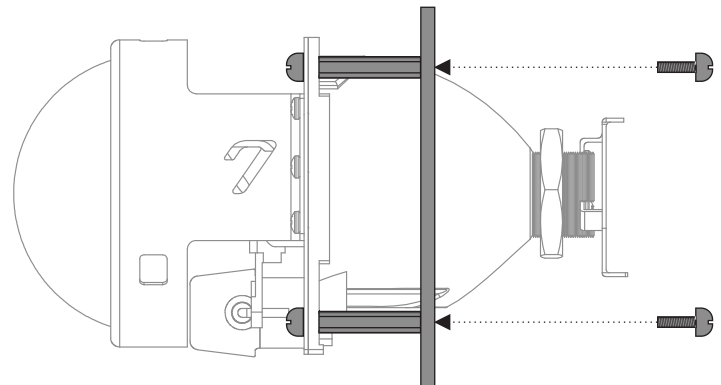
3

Push the RetroQuik bracket on from the rear and press gently against the 52mm aluminum spacers.



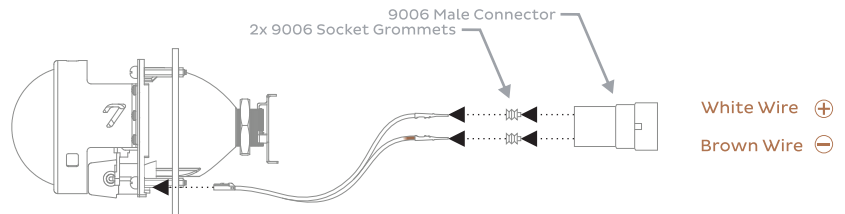
4

Insert four (4) 10mm screws from the rear and tighten snugly against the RetroQuik bracket.



5

Insert the solenoid wiring into the solenoid's plug at the rear of the projector. Add one 9006 socket grommet per wire past the pin, then click the pins into the 9006 male connector as shown. Seat the 9006 socket grommets down into the back of the connector around the pins.



PROJECTOR INSTALLATION

1

Once the headlight is removed from the vehicle, it must be opened to gain access to the OEM projector. We recommend this video to aid with this step:

<https://www.youtube.com/watch?v=anNOvY>



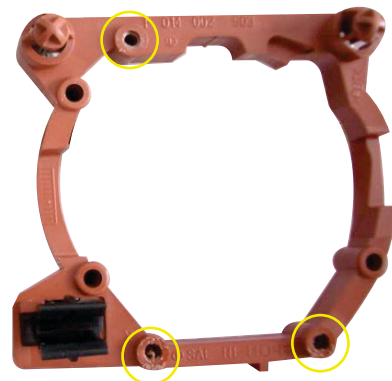
2

Using a pair of needle-nose pliers, pinch and remove the three (3) clips holding the projector frame inside the housing. NOTE: For the Mazda6, this frame is orange in color.



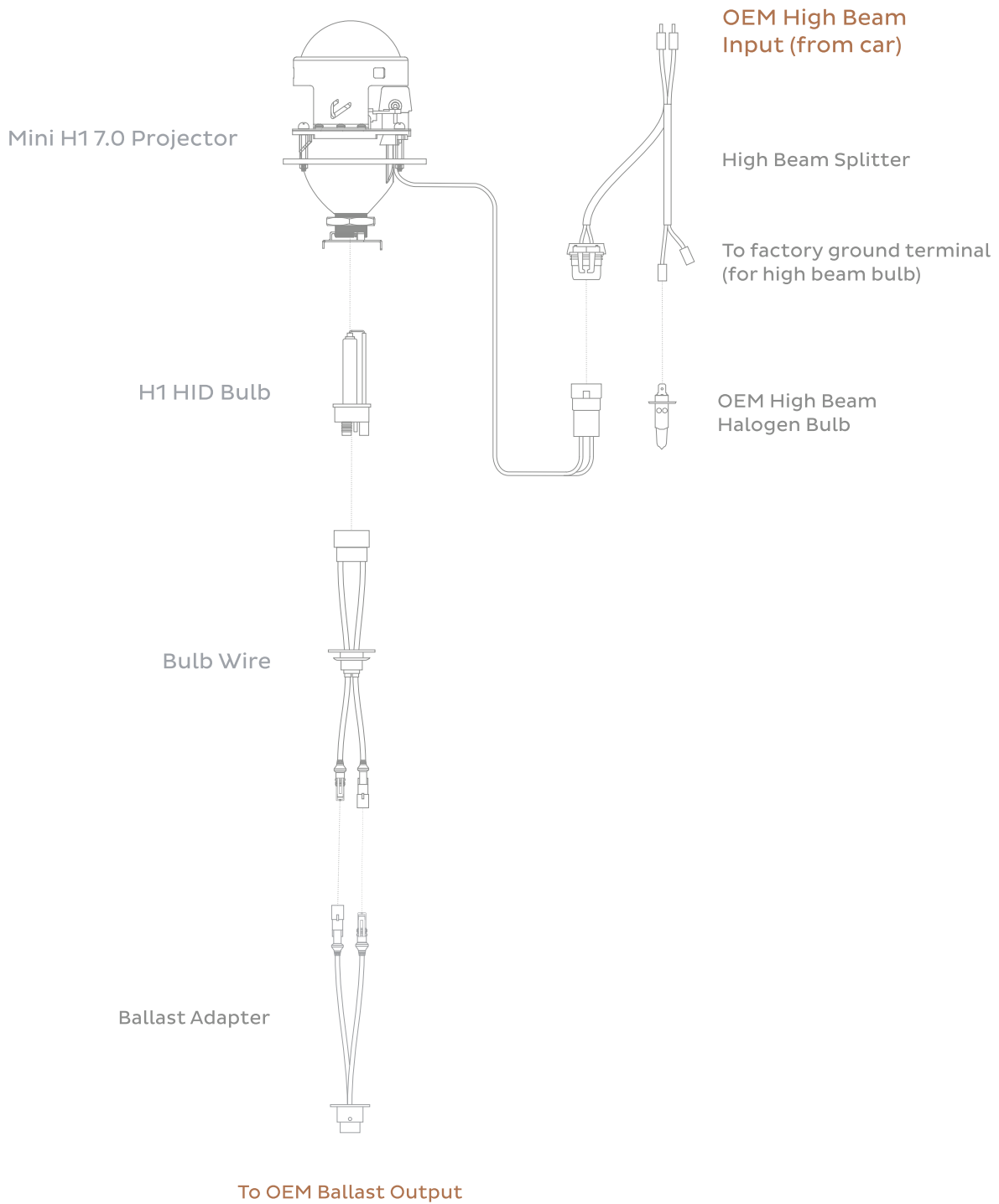
3

Remove the T20 security torx screws that secure the OEM projector. Install the Mini H1 projector in its place, and re-install the OEM screws to retain the new projector.



SYSTEM DIAGRAM (OEM HID HEADLIGHTS)

NOTE: this diagram is for one side of the vehicle. Copy this layout for both sides to complete the install.

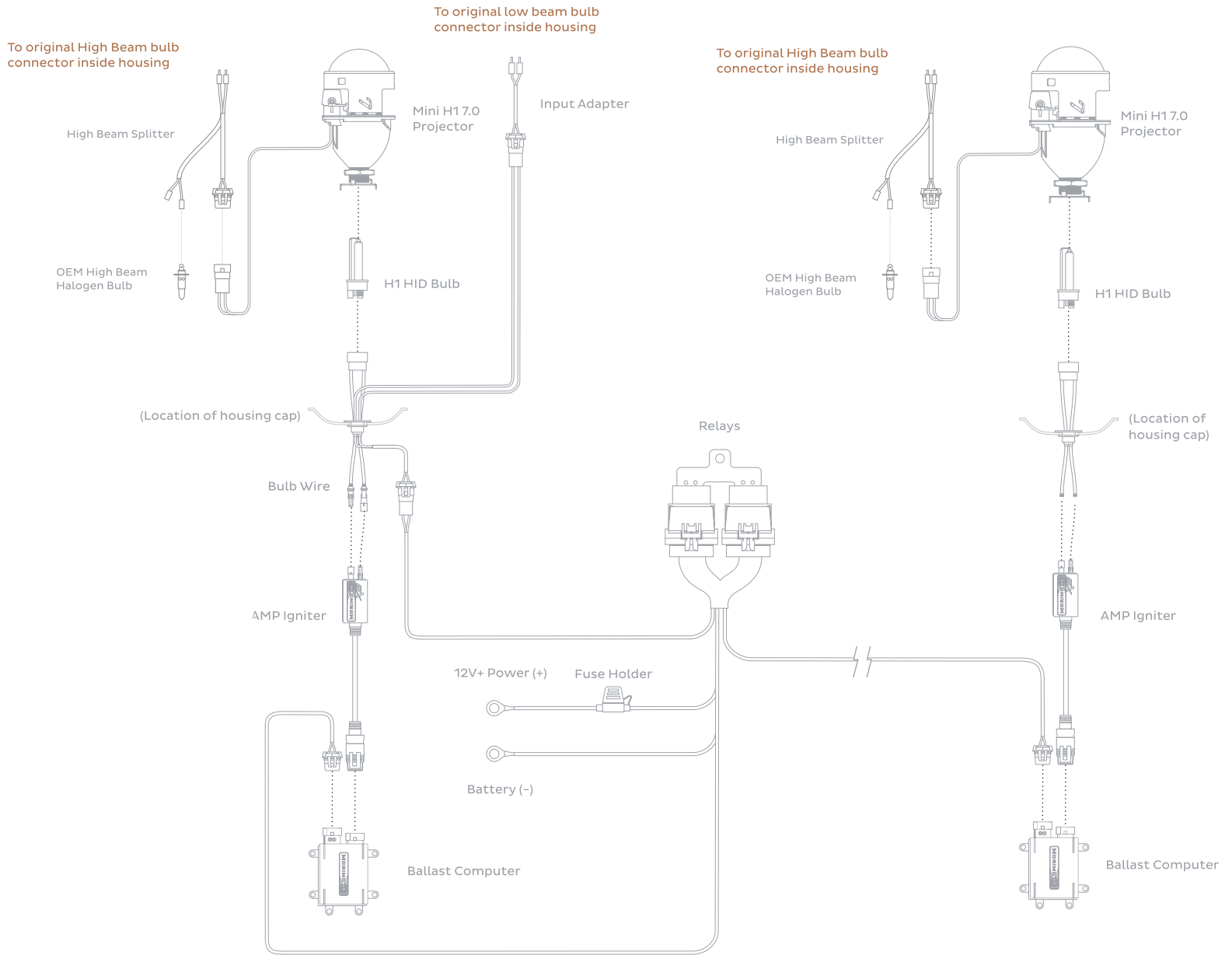


 Skip to P. 9

SYSTEM DIAGRAM (OEM HALOGEN HEADLIGHTS)

Side of vehicle
closer to battery

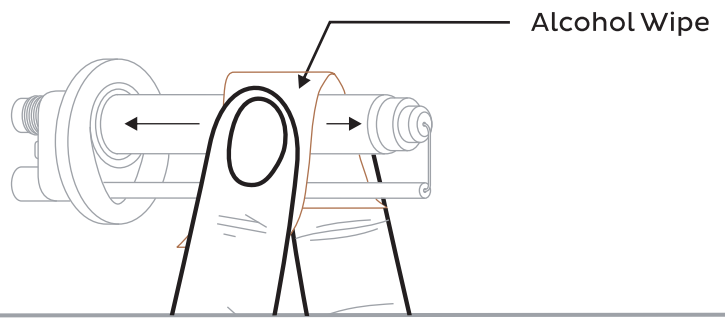
Side of vehicle
further from battery



BULB INSTALLATION

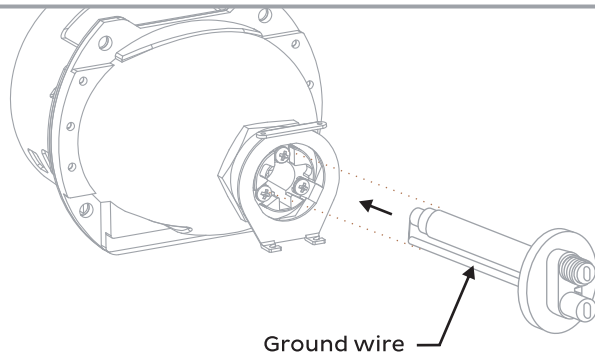
1

Using an alcohol wipe, clean the glass capsule of the HID bulb.



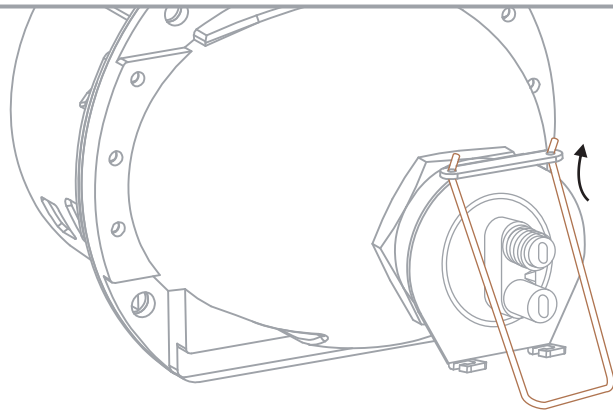
2

Insert the bulb with the ground wire at the 6 o'clock position (bottom).



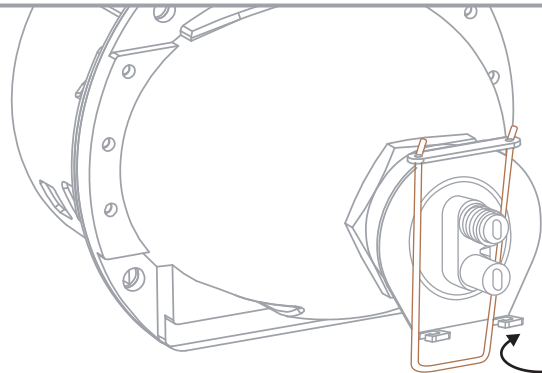
3

Insert the two ends of the bulb clip into the bulb holder.



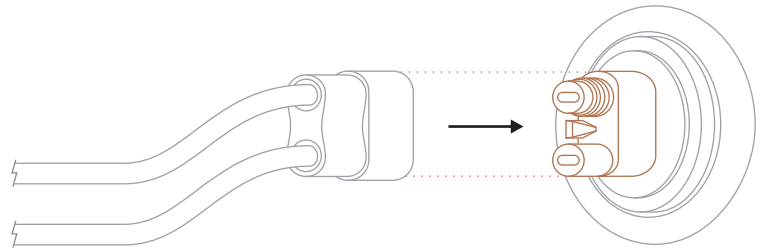
4

Clip in the bottom of the bulb clip to both hooks to properly secure bulb in the projector.



5

Click bulb wire connection onto bulb. Ensure the internal tab is fully latched.



ARE YOUR HEADLIGHTS...



OEM HID?

OR

OEM HALOGEN?



PROCEED TO STEP 6A

SKIP TO STEP 6B



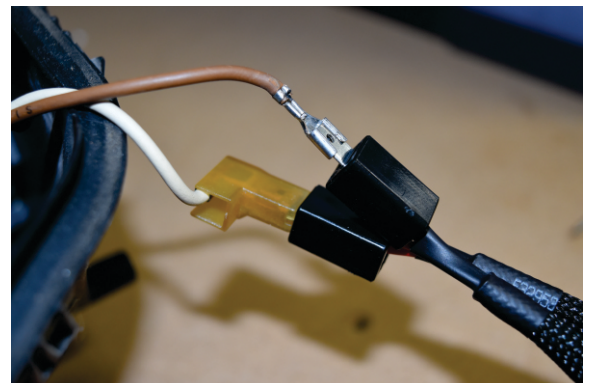
6A

install the ballast adapter into the OEM D2S ballast connection as shown. Click the bulb wires into the end of this adapter to complete the bulb installation.



7A

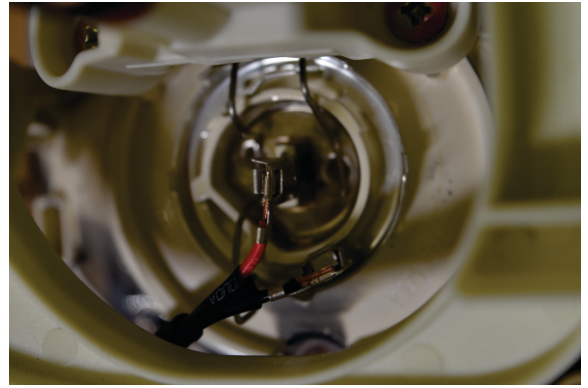
Insert the two factory high beam connections into the input of the high beam splitter. NOTE: the bare female terminal may need to be widened to fit the connector best.



8A

Slide the female H1 outputs of the splitter on to the stock high beam bulb's (+) and the ground terminal (-).

NOTE: terminal style may vary.



9A

Connect the Mini H1 solenoid wiring to the second splitter output.

NOTE: Example picture is for reference purposes only.

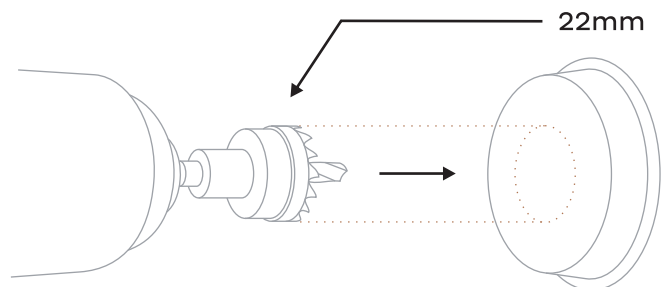


Installation is now complete. Re-install headlights on the vehicle and make final aiming adjustments at this time.

Continued from P. 10 - Installation instructions for OEM Halogen headlights:

6B

Drill a 7/8" (22mm) hole in each housing access panel to allow for the rubber grommet to create a water-tight seal.



7B

Battery Side Only!

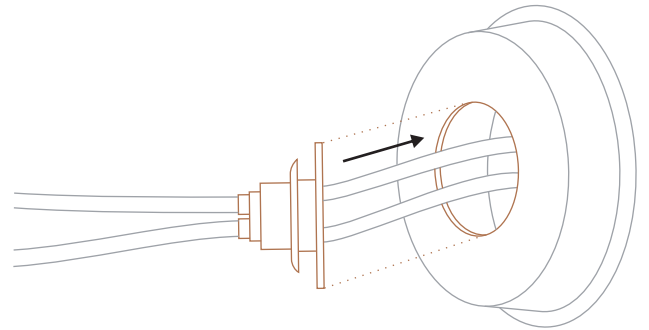
Insert the terminals of the red and black wires of the bulb wire looms into the OEM low beam connections.

NOTE: Terminal style may vary.



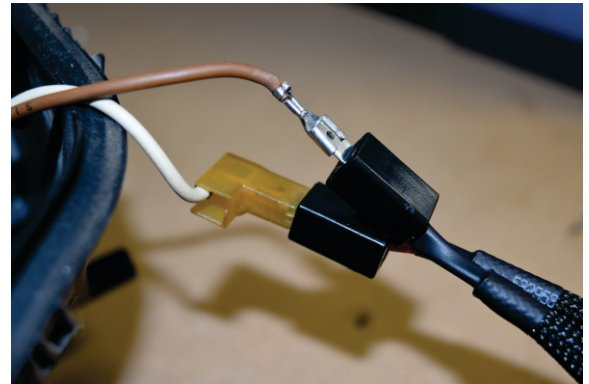
8B

Fit the channels of the rubber grommets of the bulb wires snugly into the drilled holes of the housing access panel.



9B

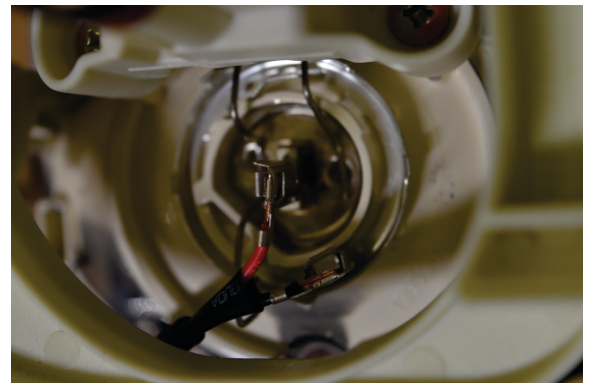
Insert the two factory high beam connections into the input of the high beam splitter. NOTE: the bare female terminal may need to be widened to fit the connector best.



10B

Slide the female H1 outputs of the splitter on to the stock bulb (+) and the ground terminal (-).

NOTE: terminal style may vary.



11B

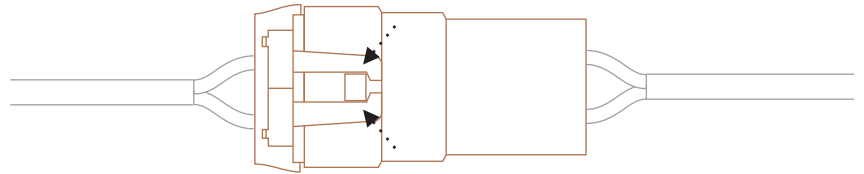
Connect the Mini H1 solenoid wiring to the second splitter output.

NOTE: Example picture is for reference purposes only.

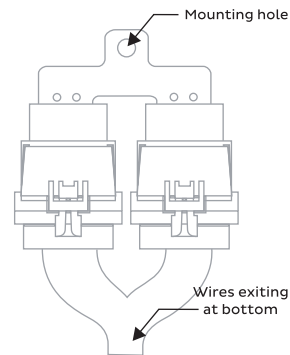


HARNESS INSTALLATION

When installing the harness, ensure every connection is securely fastened and can't loosen over time.



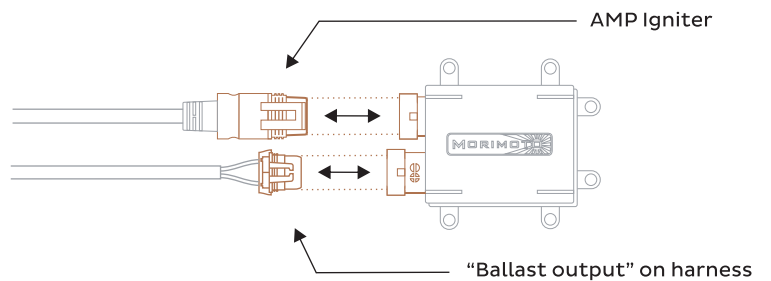
The mounting hole is used to hang the relay(s) from and allow the wires to exit at the bottom. This minimizes the chance of water being able to enter the connector.



BALLAST INSTALLATION

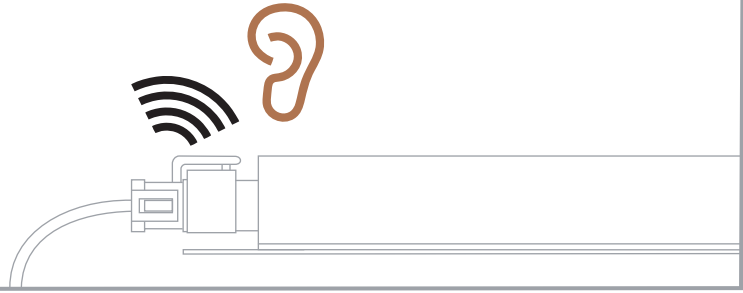
1

Connect "Ballast Output" from harness to the ballast input and AMP igniter to ballast.



2

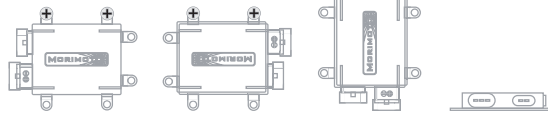
Listen for click of connectors to ensure they are fully seated!



3

Do not mount ballast with connectors aimed upward!

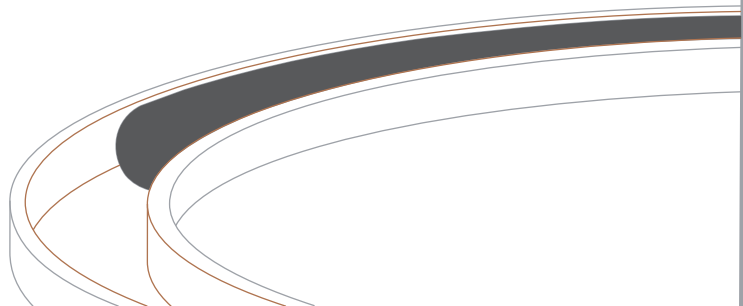
Recommended mounting:



RETRO RUBBER SEALANT INSTALLATION

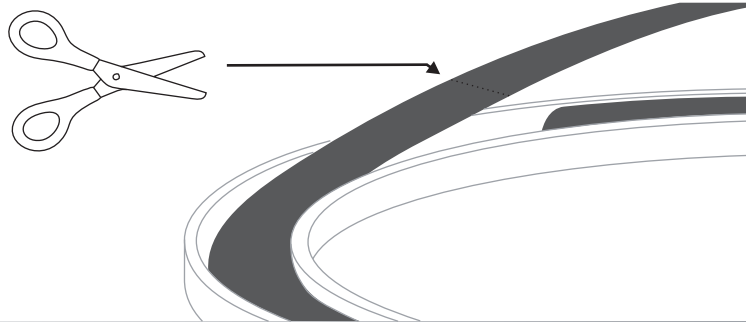
1

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.



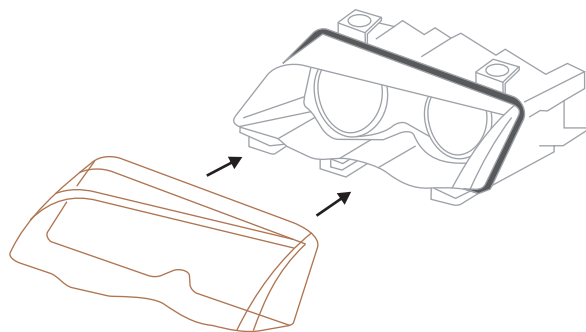
2

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



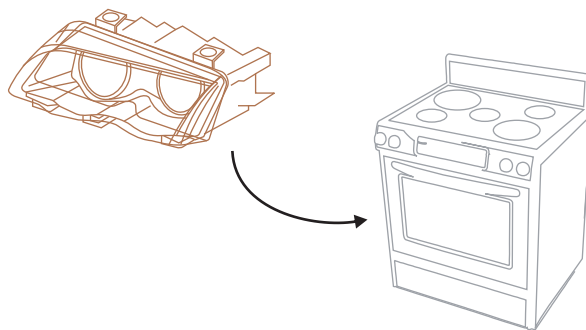
3

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



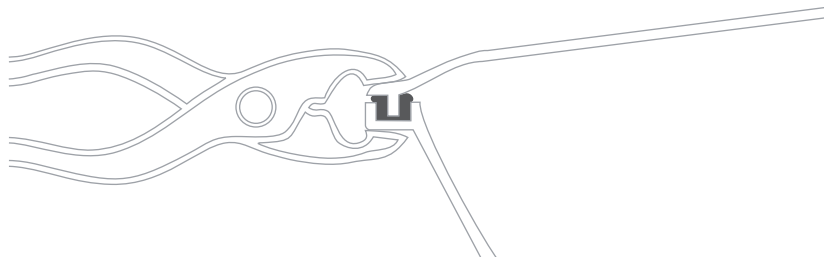
4

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



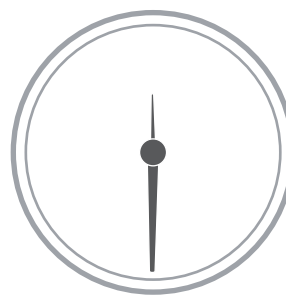
5

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



6

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



00:30:00



Installation is now complete. Make final aiming adjustments now.