

PIAA

540 Xtreme White Driving Light Kit for the 2002-2006 Mini Cooper and Cooper S

Read this manual before installing and using product.



WARNING

- Automotive lighting laws vary from state to state, check your local laws before use.
- Using this lighting system while the vehicle is not running will drain the battery.
- Using the wrong bulbs may cause a malfunction, use only PIAA specified bulbs.
- When wiring your lamp kit make sure all connections are clean and tight. A loose or dirty connection will effect the performance of the lighting system. All wiring, fuse boxes and relays must be secured in a dry location away from hot items and secured away from moving parts.
- Improperly aimed lights create an unsafe driving situation.
- Cleaning is inspecting. The best time to inspect your lamps is when you are washing your vehicle. To ensure your safety and maintain optimal lamp performance, your lamps should be inspected to insure they are properly aimed, the lenses are clean and in good working order.



CONTENTS

- Two – 540 Xtreme White driving lamps with covers
- One – Pre-assembled wiring harness
- One – Harness Extension
- One – Right side mounting bracket
- One – Left side mounting bracket
- Six – 4mm machine screws
- Six – 4mm hex nuts
- Four – 4mm flat washers
- Two – 4mm lock washers

TOOLS REQUIRED

- Medium Phillips screwdriver
- 7mm wrench
- 17mm wrench
- 10mm wrench
- Wire cutters
- Pliers
- Vinyl electrical tape
- Drill
- 1 1/64" drill bit

BEFORE BEGINNING INSTALLATION

1. Place vehicle in a safe work environment with enough space to complete the installation without distractions.
2. Set parking brake.
3. Disconnect negative battery terminal.

BRACKET AND LAMP INSTALL

1. Open hood
2. Three holes will have to be drilled per bracket for installation. Mark the location of these holes by using the brackets as a guide. Mark one side first, then take some careful measurements to get the other one spaced the same on the other side then mark the other side. Drill the marked holes using an 1 1/64" drill bit. Be careful when drilling because if you drill too far on the top holes you can dimple or drill through the outer skin of the hood. A tip to protect from drilling too far is to wrap a few layers of tape around the drill bit about 1/4" to 1/2" down from the tip. This will prevent the bit from grabbing and going too deep.
3. Once the bracket holes are drilled the brackets can be mounted. Use the supplied mounting hardware to mount the brackets. A tip to get the nut on the top inside the hood is to wrap electrical tape around your finger, sticky side out and stick the nut to the tape on the tip of your finger. Reach in the hood opening to the screw and line up the nut and tighten the screw.
4. Bolt the PIAA 540 lights to the brackets using the shorter 10mm bolt supplied in the kit.

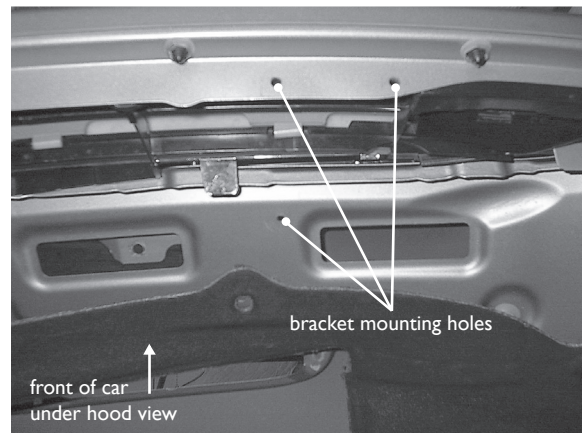


figure 1

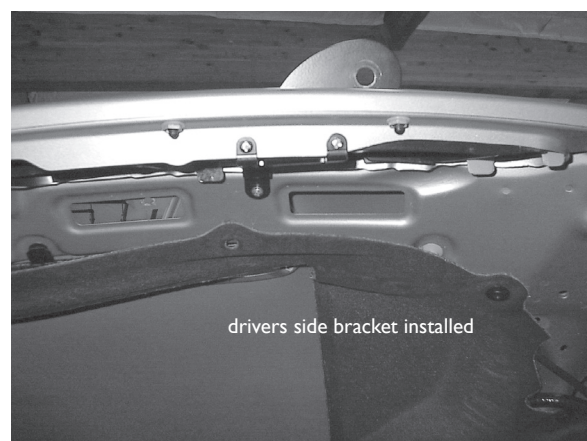


figure 2

WIRING HARNESS INSTALL

1. Start by plugging the supplied harness extension into the lamps. The harness can now be routed down the drivers side of the hood.
2. Use the supplied wire ties to secure the harness following the factory wiring down the hood.
3. Make sure the wires will not interfere with opening/closing of the hood. You can tie them so they will either fold up nicely where the ground stud is or so they follow the hinge. Also make sure they will not get pinched or pulled while opening or closing the hood.
4. Route the harness extension through the factory grommet into the engine bay.
5. Locate a place to mount the relay, we use a nut that is located on the middle of the firewall.
6. Route the lamp leads to the harness extension and plug in.
7. Route the switch wire up to the drivers side head light following the lamp lead harness extension and secure it with wire ties. Using the supplied wire splice tap into the high beam positive (+) wire (yellow/green).
8. To connect the main power (+) wire route it to the power (+) post or battery power (+).
9. To connect the main ground (-) wire route it to a grounding spot.
10. To get the switch wires into the passenger compartment of the Mini Cooper we chose to go through a grommet that is located behind the brake booster on the drivers side of the firewall.
11. Mount switch in a location that is easy to operate and that will not interfere with the driver.
12. After all harness leads are routed to their locations there may be extra harness length. Bundle it up and tie it out of the way with wire ties.

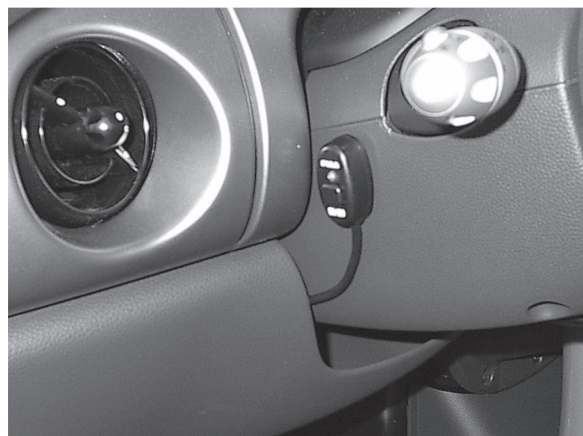
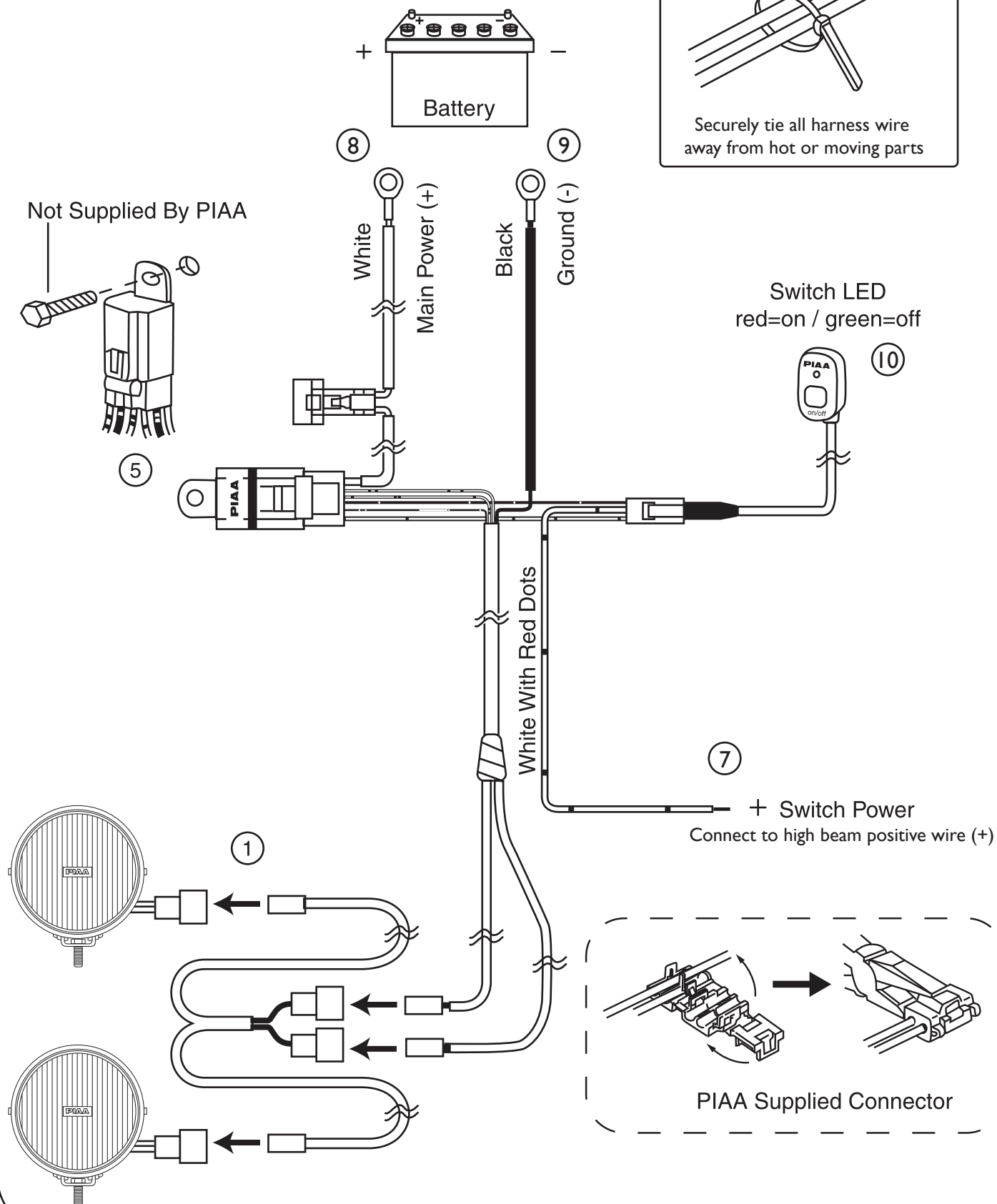


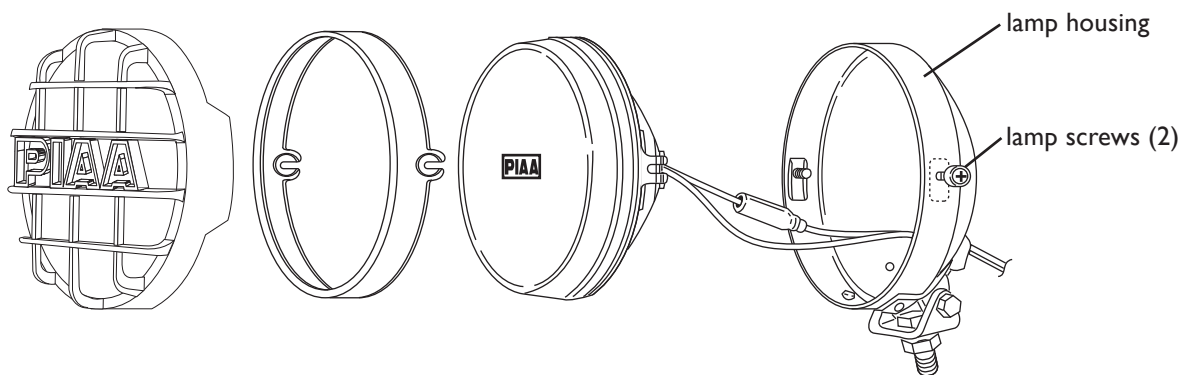
figure 3

WIRING HARNESS INSTALL CONT'D



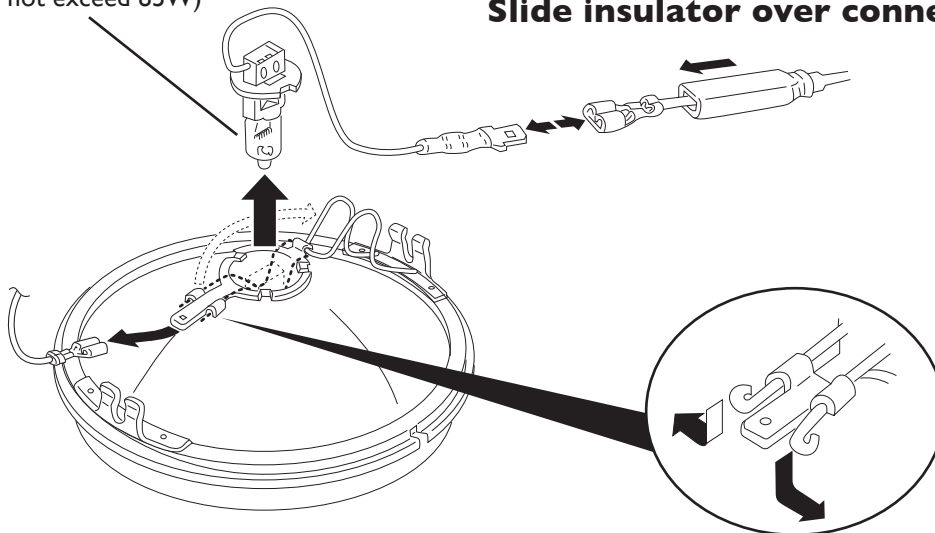
LAMP SERVICE

The PIAA 540 lamps have replaceable H3 style bulbs.
Loosen the two lamp screws, do not remove them. When the screws are loose enough, slide the lens and reflector unit from the housing.



H3 style bulb
(Do not exceed 85W)

! WARNING
Slide insulator over connector.



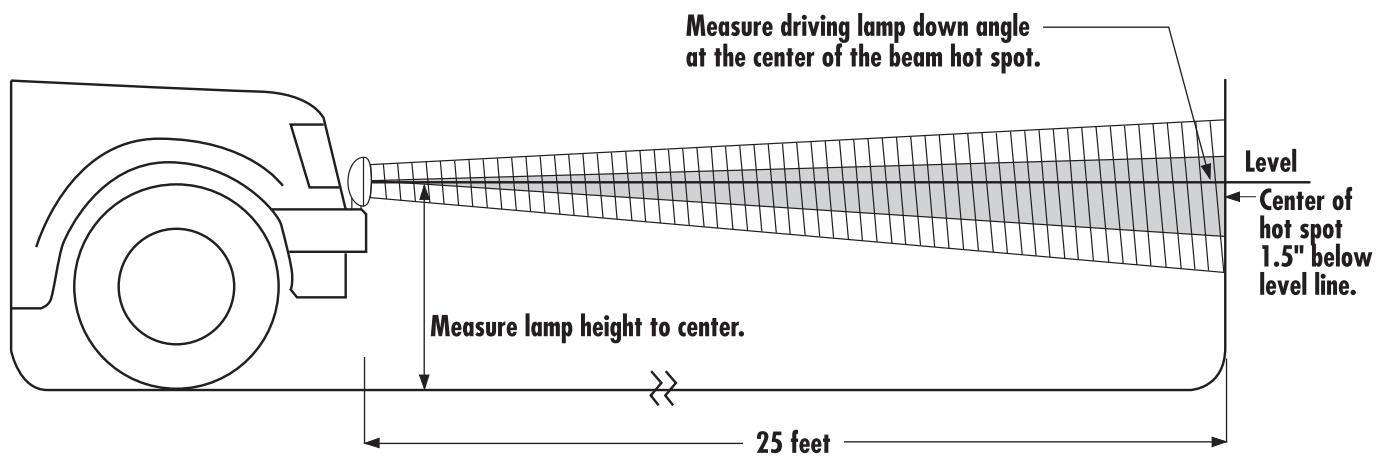
Bulb Retainer
Push down and out to release.

When service is complete reverse steps to assemble lamp.
Make sure to not pinch wire while assembling.

DRIVING LIGHT AIMING

Typically, driving lights are mounted above the front bumper about 14-30 inches from the ground to provide extra beam illumination. Driving lights can be mounted below the bumper, although they will not be as effective because the light will hit the ground sooner and reduce the range of the light.

Visual aim is made with the center of the beam hot spot 1.5 inches below the lamp center at 25 feet with the lamp facing straight forward. (see below.)



CAUTION

Do not use driving lights into oncoming traffic.

Driving lights should never be the only forward light source.

Driving lights should only be used with the headlamp high beams.

PIAA LIMITED WARRANTY

With the exception of bulbs, PIAA Corporation, USA ("PIAA") warrants its products to be free from defects in workmanship and materials under normal use for as long as the original purchaser owns them.

EXCLUSIONS

This Limited Warranty specifically excludes defects resulting from misuse, abuse, neglect, alteration, modification, improper installation, unauthorized repairs, submersion, theft, vehicle crash, or by any other type of impact. Except for the Limited Warranty stated above, there are no warranties of PIAA products or any part thereof, whether express or implied. Any implied warranty of merchantability or any warranty of fitness for a particular purpose is expressly disclaimed. Some states do not permit the disclaimer of implied warranties.

LENS CRACKS

Crash or impact damage is not covered. This can be determined by a chip or scrape on the lens or the housing. Stress cracks sometimes occur when the lens is subjected to sudden and extreme temperature changes. A stress crack has no chip or other sign of impact. Stress cracks are covered under warranty.

EXCLUSION OF DAMAGES

In no event shall PIAA be liable for any damages whatsoever (including, without limitation, consequential damages, incidental damages, or damages for loss of use, loss of business profits, business interruption, loss of business information, loss of time, inconvenience, or other losses) arising out of the use, misuse, or inability to use a PIAA product. PIAA reserves the right to change the design its products without any obligation to modify any previous product. This warranty gives you specific legal rights. You may also have other rights that vary from state to state.

REPAIR AND REPLACEMENT

If a PIAA product is suspected of being defective, it must be submitted freight prepaid, to either an authorized dealer or distributor for warranty inspection. The receipt or other proof of purchase and a description of the problem must be included. The returned product will be inspected. If the product is found to be defective and covered by this Limited Warranty, the sole remedy is repair or replacement, at PIAA's option. A repaired or replacement product will be shipped back at no charge, and will be warranted to be free from defects in workmanship and materials under normal use for as long as the original purchaser owns it. Removal, installation, or reinstallation costs are not covered by this Limited Warranty.

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