

PIAA LP550/LP560

Installation Instructions

Thank you very much for purchasing PIAA product.

Please read this entire manual before installation and use of this product.

- ※ The  **CAUTION** and  **WARNING** marks indicated in this manual are cautionary points related to the installation of the product.

To ensure safe and secure installation of the product, please follow these points closely.

To user

- … Please keep this manual and a receipt which can be recognized the shop name you bought at.
When giving this product to a third party, always include this manual together with the product.

To shop owners installing the product

- … After installation of the product, make sure the customer is provided with this owner's manual.

Please read the cautionary points before installation to ensure safe utilization of the product.

WARNING

- The lamp becomes very hot when turned on. When parking your car near flammable items such as dried leaves, turn off the lamp as it may cause a fire.
- Do not look directly into the light for long periods. Doing so may cause eye irritation or visual impairment.

CAUTION

- The lamp and the switch harness are intended for automobile use. Do not use for any other purpose.
- This lamp is intended for use in rain (day or night), during foggy or snowy conditions where visibility is hampered. Do not use during normal driving conditions.
- Do not operate the switch while driving.
- If the lamp is kept on when the engine is not running, it may drain the battery.
- Make sure the lamp is installed securely before driving the vehicle. If an abnormality is found, adjust it immediately.
- Check for any loose screws that hold the lamp in place before driving. If you find any loose screws or bolts (if a bracket is used), tighten them securely. If you notice a loose part while driving, inspect the section immediately and make the necessary adjustments.
- Avoid repeatedly turning the lamp off and on as it may reduce the overall life of the LED.
- Some of vehicles are produced high voltages of electric charge when you start engine. Avoid loading extra voltage to lamps, please turn the switch off when you start engine.
- Avoid needless disassembly of the lamp or the switch harness as it may cause it to fail.
- If the lamp and/or the switch harness is removed and set aside for safekeeping, wipe away all dust or grime and store in an place free of moisture.
- If the lens is cracked or damaged in any way, verify whether there is any damage to the harness or the switch harness that it is connected to. If there is any damage to the cord covering, replace it immediately.
- Avoid injury when replacing the harness and the switch harness. Please dispose of it as a non-combustible item.

Please read the installation procedures thoroughly beforehand.

CAUTION

- In order for the lamp to perform at its full potential, use relay harnesses manufactured by PIAA.
- All work procedures should be carried out in a location with adequate space. Place the shift lever in neutral or in the parking position. Turn off the engine and set the side brake.
- Make sure the engine compartment is adequately cool before starting work. Do not begin work if engine parts such as radiator, oil-cooler or turbo part are still hot.
- Do not add additional holes to the main body of the lamp. Also, do not apply adhesives or stickers to the lamp parts.
- Do not modify the lamp harness or the switch harness in any way. Such modifications may cause it to overheat or short. In some cases, it may cause the vehicle to catch fire. PIAA will not be liable for damage caused by such modifications.
- When removing the battery terminals, do not touch the (-) and (+) terminals simultaneously. An electrical shock may occur. Wear rubber gloves when carrying out such work procedures.
- Make sure the (-) and (+) terminals do not make contact with metal. It can be extremely dangerous if a short occurs.
- Make sure all bolts are tightly secure. If there are any loose bolts tighten them accordingly.
- After installing the lamp, adjust the lamp so the beam shines at least 40m in front of the vehicle. Also, adjust the lamp a little toward the left so that it does not shine directly into the eyes of the opposing driver of a vehicle. (as traffic laws stipulate - refer to p.6 for adjustment procedures)
- After installing the lamp, make sure the headlamps, wipers and horn are working normally.
- When the battery terminal is removed, memory related to the clock, radio, audio system etc, will be affected. After all work procedures are completed, reset to the original settings. (For adjustment procedures refer to your car's instruction manual)

Caution Regarding Wiring / Please read thoroughly

WARNING

- When doing wiring work, strictly follow the cautionary points mentioned below. Incorrect or faulty wiring may cause the lamp to operate improperly. In some cases, it may cause the vehicle to catch fire.

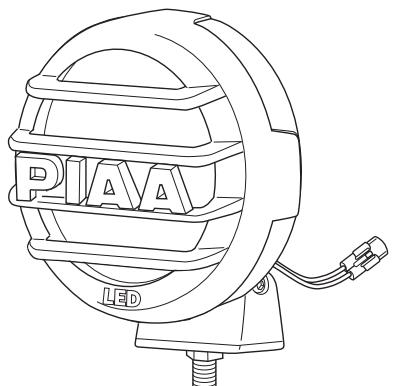
CAUTION

- Before you begin always remove the (-) and (+) terminals.
Always remove the (-) terminal first and make sure a short does not occur.
- When removing the battery terminals, always turn the key to OFF and remove it. Turn all other electrical units off such as the light switch.
- When removing the battery terminals, if a cord (for an electrical unit) is connected, wind a length of vinyl tape around the (-) and (+) terminals to clearly identify them.
- Verify the (+) terminal (white) and earth (black) before connecting.
- Do not obtain (+) voltage from the alternator.
- Obtain the (+) current necessary for the switch from the (+) current used for the light switch.
(Do not use the same current used for a computer, radio or audio system)
- Install the switch harness in a position where it will not make contact with high temperature surfaces such as the engine, radiator or engine compartment.
- Arrange the switch harness so that it does not make contact with moving parts.
- Do not place the switch harness on high-voltage wires such as brake or air-conditioning wires.
- If the switch harness makes contact with a part of the engine, apply a length of ordinary cushioned tape around the harness.
- When connecting the connector, insert until you hear an audible "click"
- When removing the connector, hold the main body of the connector and pull it out. If excess force is used to pull the cord, it may damage the connection, which could cause it to overheat.
- Make sure the harness does not sag. Use a harness band of vinyl tape to secure it in place to wiring inside the engine compartment.
- Before connecting it to the battery, verify the wiring arrangement.
- When connecting the battery terminal and or other electrical units, do not mistake the (-) and (+) terminals. Always start with the (+) terminal.
- After all wiring is complete, confirm that it works properly. If it fails to activate, refer to "[4] Troubleshooting" section of this manual.

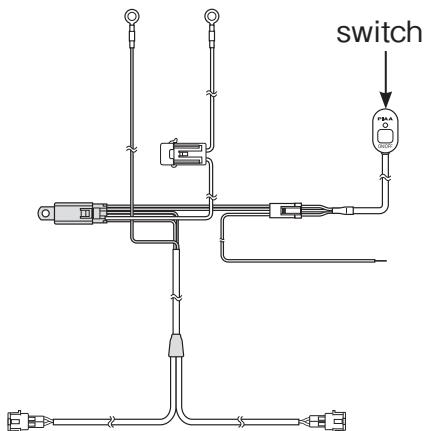
Product Details

* Verify all the parts are included. If a part is missing, please contact your local distributor.

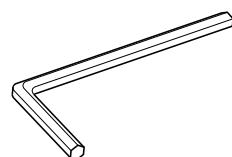
① Lamp main unit (2 units)



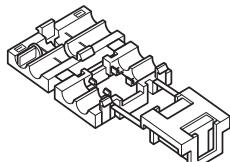
② Pre-assembled relay harness
with fuse and switch [1 set]



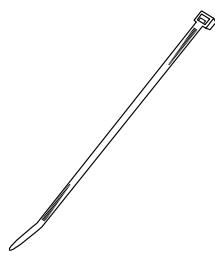
③ Hexagonal wrench
(1 pc)



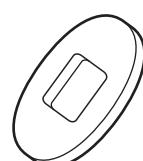
④ One-touch connector
(1 pc)



⑤ Wire tie
(5 pcs)



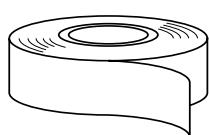
⑥ Double-stick tape
(1 pc)



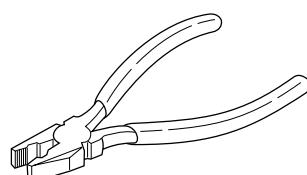
Tools Required

* Please use the tools indicated below.

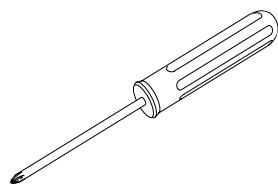
● Tape



● Pliers



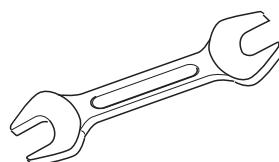
● Phillips head driver



● Torque Wrench

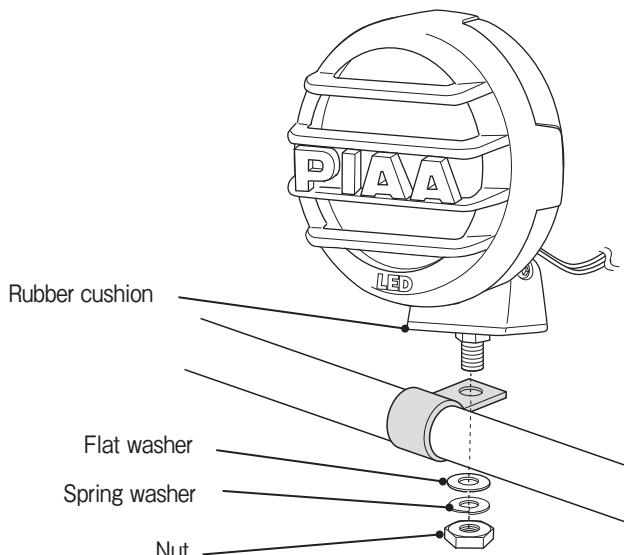


● 19mm wrench



[1] Lamp installation

For lamp installation, a hole with a diameter of 12mm is required. Make necessary preparation such as installation of lamp bracket.



⚠ CAUTION

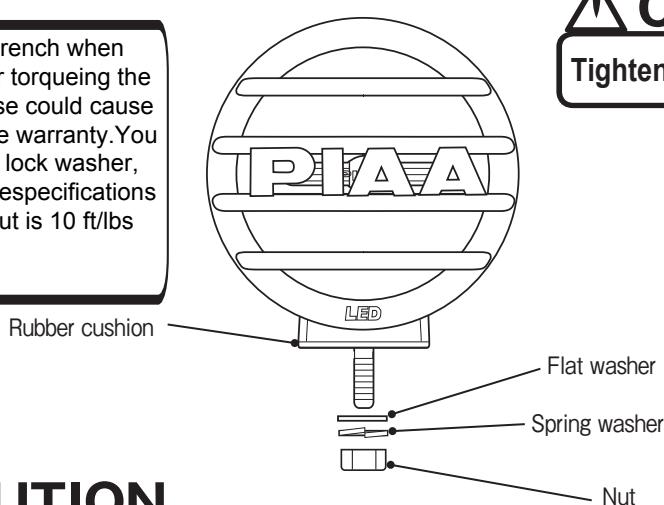
- When using a commercially supplied lamp bracket, before removing the bolt that is already installed on the car body, make sure that it is safe to do so.
- The lamp should be mounted in an area sufficient to support its size and weight. Failure to do so may result in excess vibration leading to shorter bulb life and or physical damage to the lamp or your vehicle.
- Do not attempt to install the lamp directly to any plastic part of the car body. If the lamp needs to be installed on the plastic reinforcement materials should be placed on both sides of the plastic part.
- When installing, make sure the lamp body, lens and rim are not touching the bumper and other plastic parts. Such plastic parts might deform.
- The lamp installation surface should be flat.

CAUTION

Do not use an Impact wrench when mounting the lamp. Over torqueing the mounting nut on the base could cause base failure and void the warranty. You must utilize the washer, lock washer, and rubber base. Torque specifications on the base mounting nut is 10 ft/lbs

⚠ CAUTION

Tightening torque : 10ft LBS.

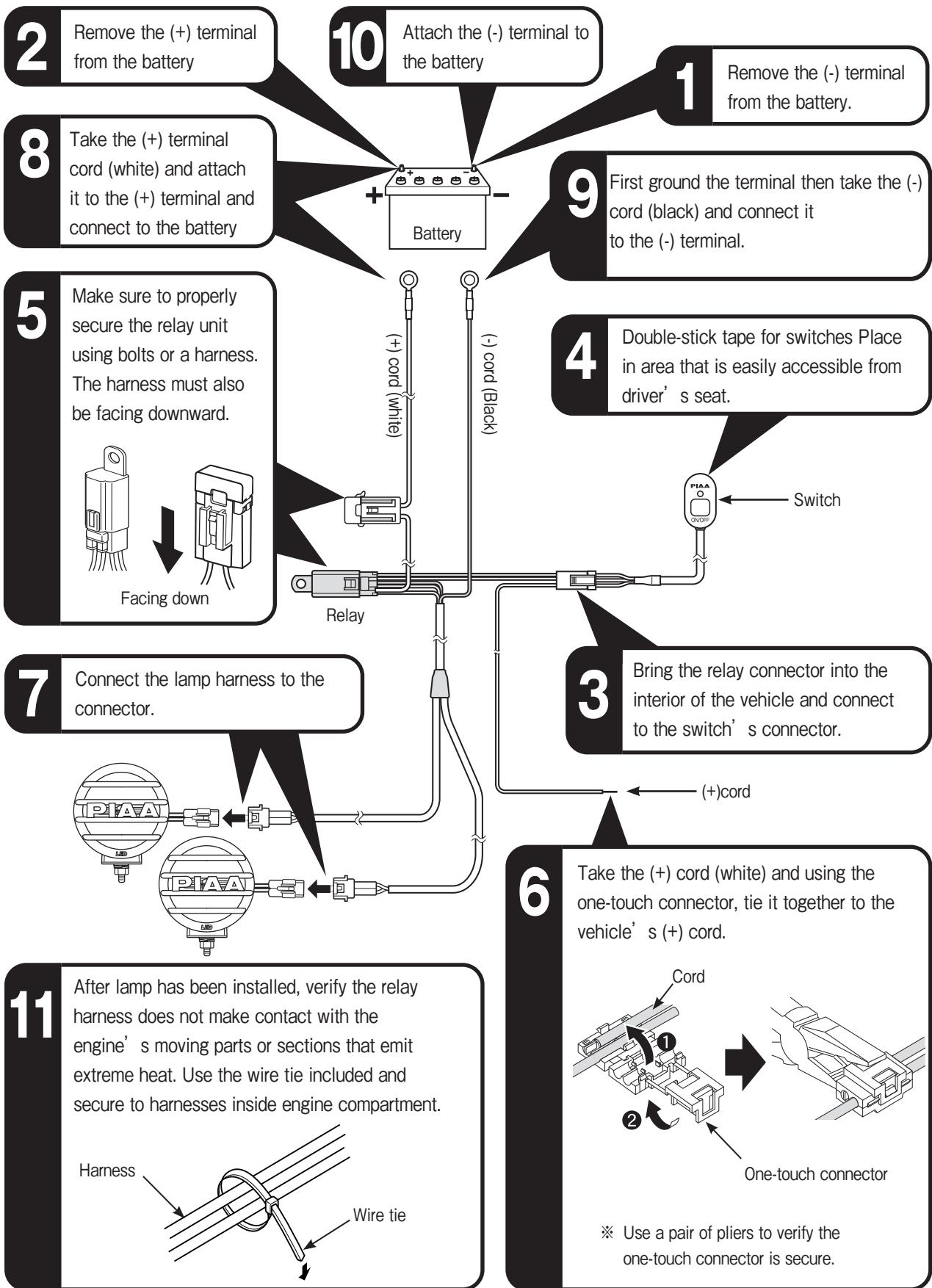


⚠ CAUTION

- The lamp should be tightened to the degree that the lamp body cannot be moved by hand.
- The lamps are designed to be mounted upright. It is very important that you make sure that the "PIAA" etched in the lens reads right side up.

[2] Relay Harness Installation Sequence

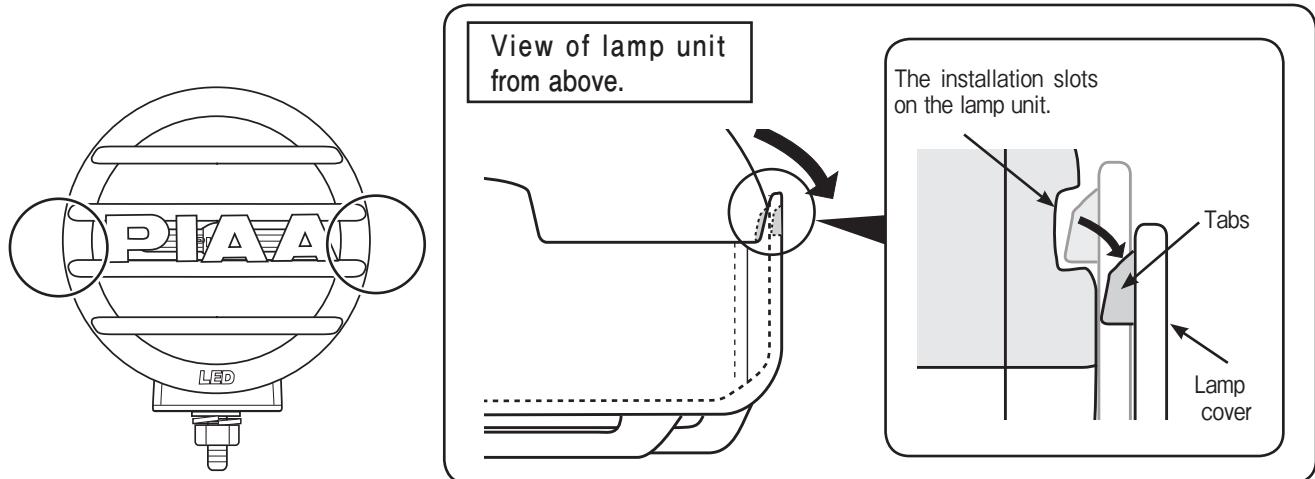
The numbers shown in the figure below indicate the sequence the parts should be installed.



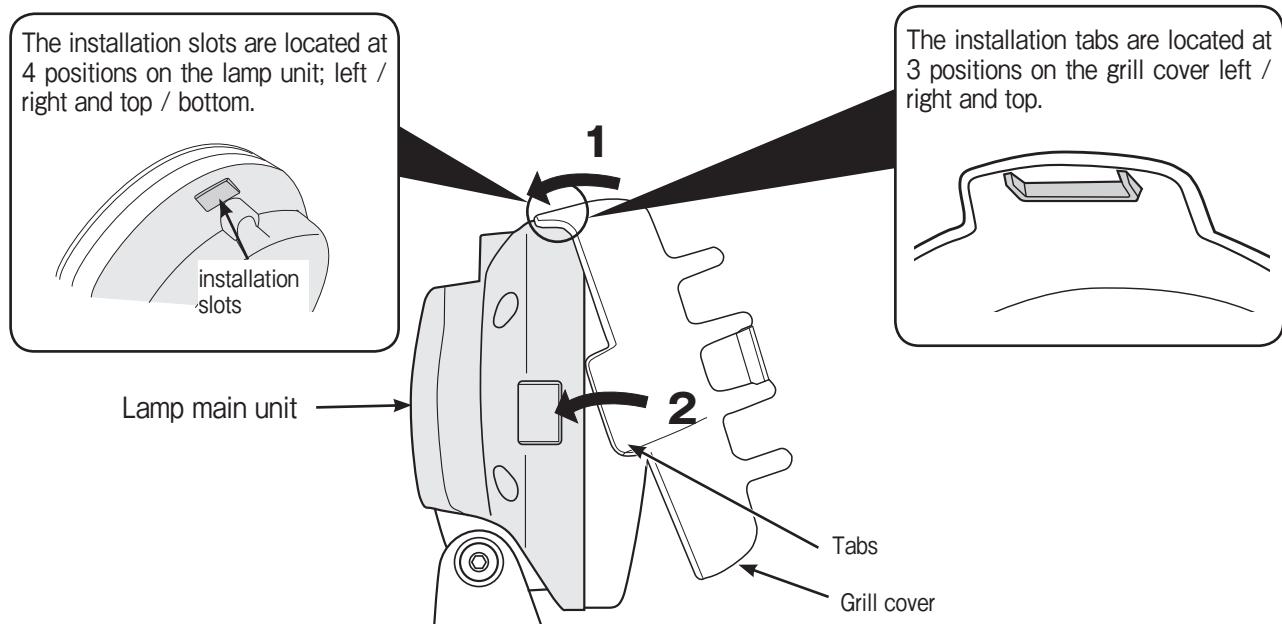
[3] Procedures for Installing / Removing the grill cover

When using the lamp for extended periods of time, we recommend that a grill cover be used over the main lamp unit in order to prevent undue damage.

For removing the grill cover, first take the one side-tab on the grill cover and lift it over the slot on the lamp unit, then continue with the upper tab.



For installing the grill cover, first take the small tab on the upper edge of the cover and line it up with the slot on lamp unit and snap it in place. Then continue to snap the remaining tabs in place.



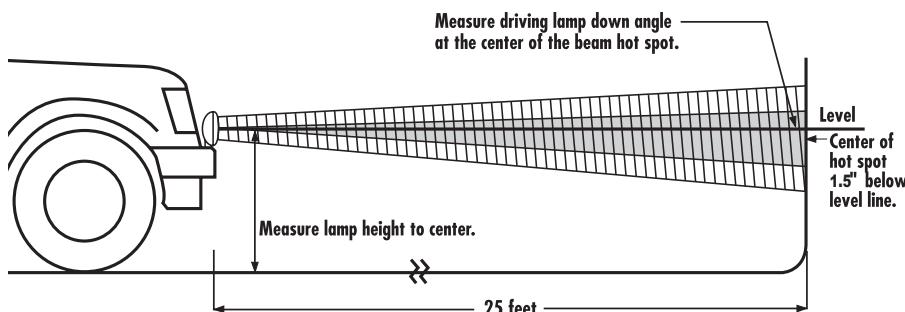
CAUTION

- The grill cover is structurally built so that it does not come loose while the vehicle is in motion. Therefore, be extremely careful when removing and installing the grill cover as it is a very tight fit.

DRIVING / Spot Light Aiming

Typically, driving lights are mounted above the front bumper about 14 cm -30 inches from the ground to provide extra high 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 25feet 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.

【4】 Troubleshooting.....

Verify each section according to the following.

1 After installation, if the lamp does not activate

→ Check the wiring and make sure there are no faulty or irregular connections .

● If the switch illumination does not light up.

- Verify the (+) wire from the switch is properly connected. If it is not correctly connect it will not activate.
- Verify the fuse located on the vehicle' s wiring system. (the switch' s (+) wire should be connected to the fuse box). If it is burned out, connect it to another circuit.
- If the switch itself is faulty, the same symptoms may exist. We recommend that the entire switch unit be replaced.
- Check the fuse for the switch harness. If it is burned out, follow instructions indicated in [3] Fuse replacement Procedures].

● The switch illumination lights up but when operating does not work.

- Check the connecting (-) cord to the body earth.
- There may be cases where each terminal related to specific sections may be incorrectly connected. Check for any lose wires and also for dirt or grime.
- Check the switch operation If an abnormality is found, replace it accordingly.

2 If the LED suddenly fails to light up ...

- Check the fuse located on the vehicle' s wiring system. If it is burned out, replace accordingly.
- Check the fuse for the switch harness. If it is burned out, follow instructions indicated in [3] Fuse replacement Procedures].
- There may be cases where each terminal related to specific sections may be incorrectly connected. Check for any lose wires and also for dirt or grime.
- Check the switch operation if an abnormality is found, replace it accordingly.

3 Fuse replacement Procedures

- A short circuit may have occurred. Check the wiring system. If any type of damage is found replace accordingly. (Non-replacement may pose a potential danger) (Short circuits are mainly caused when wires are caught in the assembly or when there is a gap in the sleeve connected to the lamp harness).

[5] 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.

PIAA CORPORATION

www.piaa.co.jp
www.piaa.com

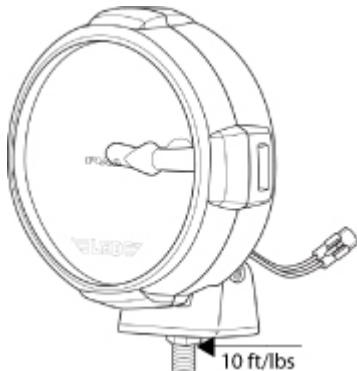
!!!! WARNING !!!

Do not use an Impact wrench when mounting the lamp.

Over torqueing the mounting nut on the base could cause base failure and void the warranty.

You must utilize the washer, lock washer, and rubber base.

Torque specifications on the base mounting nut is 10 ft/lbs



3004 NE 181st Ave – Portland, OR 97230 | P: 503-489-6666 | F: 503-489-6600 | www.piaa.com

PIAA CORPORATION
www.piaa.co.jp
www.piaa.com