

PIAA

Dēno Series LED LAMP Manual

Thank you very much for purchasing PIAA product.
Read this instruction manual thoroughly for proper use of the product. After completing your installation, please keep this manual for future reference.

※ 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

… When giving this product to a third party, always include this manual together with the product.

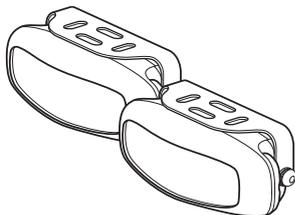
To shop owners installing the product

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

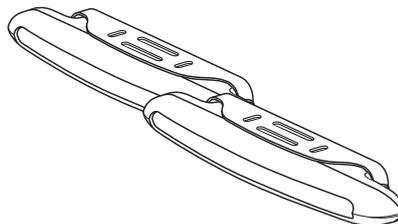
● This Instruction Manual (IM) refers to the “Dēno2” system but can also be applied to the “Dēno6” system.

PIAA Dēno Series LED LAMP

Dēno2



Dēno6



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

⚠ WARNING

- Do not touch the bulb while lit or immediately after switching it off because the lamp remains extremely hot. Severe burns may occur as a result.
- Do not look directly into the light for long periods. Doing so may cause eye irritation or visual impairment.

⚠ CAUTION

- 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.
- Avoid needless disassembly of lamp or harness as it may cause it to fail.
- If the lens is cracked or damaged in any way, verify whether there is any damage to the harness or the relay harness that it is connected to. If there is any damage to the cord covering, replace it immediately.
- When washing the vehicle with a hose, do not apply excess water pressure to the lamp. Water may seep in and causes damage to the lamp.
- When the vehicle is stationary, air does not blow against the lamp, causing heat to build up. Therefore, if stopped for extended periods of time, turn off the lights.

Please read the installation procedures thoroughly beforehand.

⚠ CAUTION

- This lamp is provided with a bracket for use as a hanging type lamp. When using it in an upright position, make sure the **PIAA** logo is correctly displayed and the water outlet holes are on the bottom of the unit. Install by rearranging the bracket.
- 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.
- Do not begin work if engine parts such as radiator, oil-cooler or turbo part are still hot.
- Be extremely careful when handling the lamp and relay harness. If dropped or excessive shock is applied to the lens, bulb or relay harness, it may cause irreversible damage.
- Do not add additional holes to the main body of the lamp. Also, do not apply adhesives or stickers to the lamp parts.
- Make sure all bolts are tightly secure. If there are any loose bolts tighten them accordingly.
- After installing the lamp, make sure the headlamps, wipers and horn are working normally.

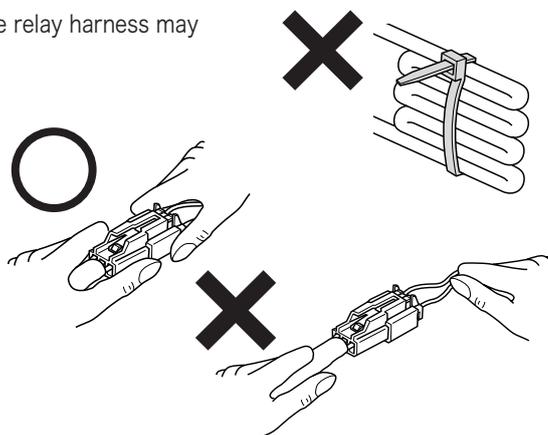
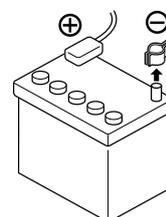
Caution Regarding Wiring / Please read thoroughly

⚠ 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.

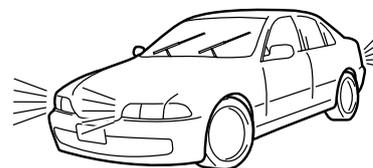
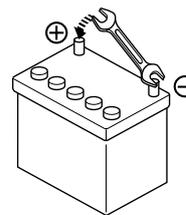
⚠ CAUTION

- Before you begin always remove the (-) terminal.
- 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.
- Verify the (+) terminal (white) and earth (black) before connecting.
- Install the harness in a position where it will not make contact with high temperature surfaces such as the engine, radiator or engine compartment.
- Arrange the harness so that it does not make contact with moving parts.
- Do not place the harness on high-voltage wires such as brake or air-conditioning wires.
- If the harness makes contact with a part of the engine, apply a length of ordinary cushioned tape around the harness.
- Do not tie the harness in a bundle by bending into too many folds. The relay harness may overheat.
- When connecting the terminal, make sure to install it correctly and secure it into position.
- Make sure the harness does not sag. Use a harness band of vinyl tape to secure it in place inside the engine compartment.
- When removing the terminal, hold the main body of the terminal and pull it out. If excess force is used to pull the cord, it may damage the connection, which could cause it to overheat.
- Before connecting it to the battery, verify the wiring arrangement.
- After all wiring is complete, confirm that it works properly.
- Do not draw power from the battery on a regular basis as it may cause a battery drain.



⚠ CAUTION

- Do not modify the lamp 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.
- 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)



Product Details

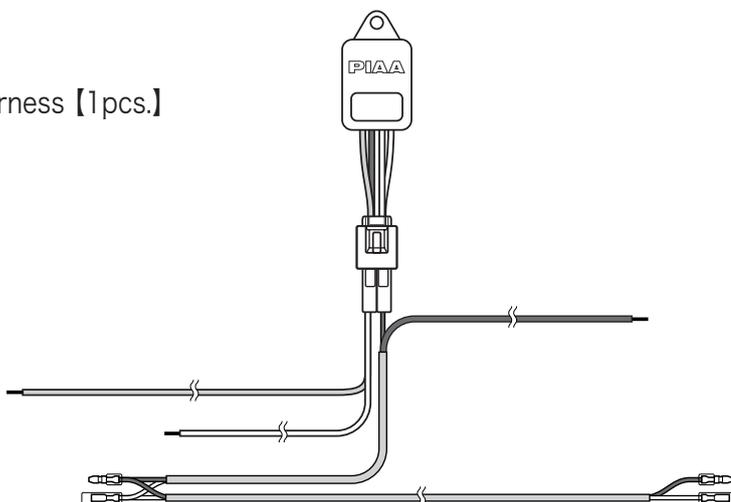
※ Verify that all the parts are included. If a part is missing, please contact your local distributor.

① Lamp main unit [2 units]



※ The illustration is Deno2

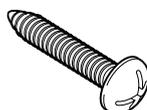
② harness [1 pcs.]



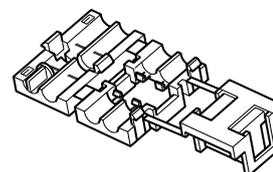
③ Double-stick tape [2 pcs.]



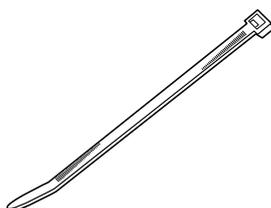
④ Screw [4 pcs.]



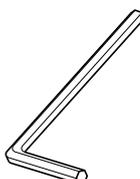
⑤ One-touch connector [2 units]



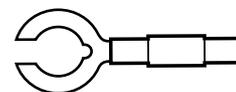
⑥ Wire tie [5 pcs.]



⑦ Hexagon wrench [1 pcs.]

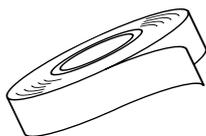


⑧ Spede terminal [1 pcs.]

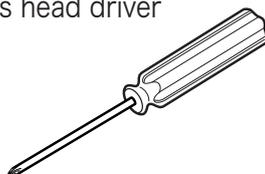


Tools Required

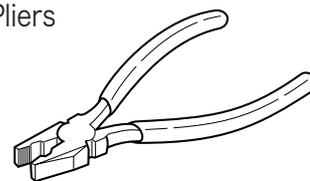
- Tape



- Philip's head driver



- Pliers

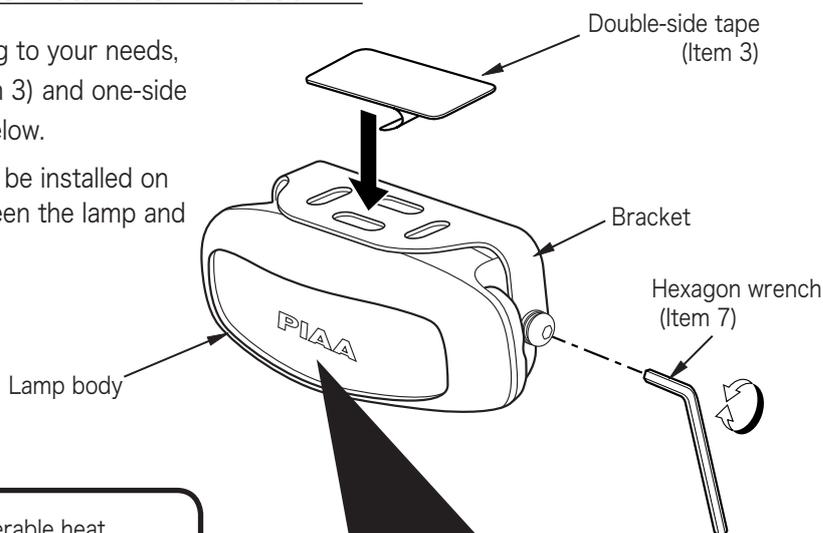


[1] Lamp installation preparations and temporary setup

- Before installing to the vehicle, make sure to determine if the lamp will be a hanging type or upright type.

◆ When you have decided the installation method……

- (1) Rearrange the bracket according to your needs, and apply double-side tape (Item 3) and one-side tape as shown in the diagram below.
- (2) Hold the lamp up to where it will be installed on the vehicle. Verify the gap between the lamp and surrounding obstacles.



⚠ CAUTION

- The vicinity of the lamp emits considerable heat. Therefore, a minimum of 5mm of clearance is required.
- There must be 20mm more side of the lamp to allow for proper adjustment.
- If using a screw, make sure there is adequate space between the bracket and the lamp (where screw will be inserted).

Make sure the installation position is correct and the logo will not be upside down.

The PIAA logo is shown in two orientations: the correct upright orientation and an incorrect upside-down orientation marked with an 'X'.

- In this IM, 2 types of wiring methods are explained: wiring allowing the LED to shut off when the headlights are turned on and wiring allowing the LED to dim when the headlights are turned on. When preparations and temporary setup of the lamp is complete, determine which wiring system you will use. Then go to the proper page for instructions.

Wiring allowing the LED to shut off when the headlights are turned on

………… P5 **Wire (LED Off) [2]** according to instruction indicated.

Wiring allowing the LED to dim when the headlights are turned on

………… P6 **Wire (LED Dim) [3]** according to instruction indicated.

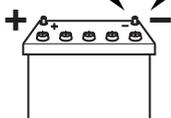
[2] Wiring order for LED off

※ Wiring method allowing LED lamp to shut off when the headlights are turned on.

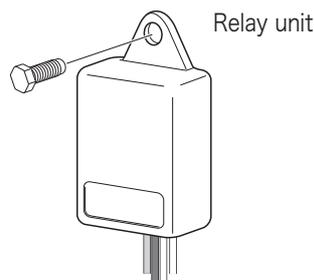
The numbers shown in the figure below indicate the sequence the parts should be installed.

1 Remove the (-) terminal from the battery

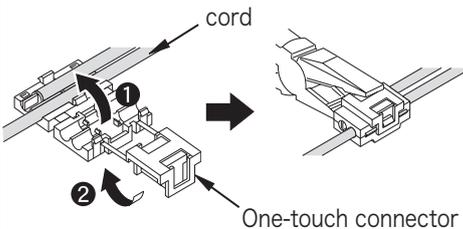
7 Attach the (-) terminal to the battery



2 Make sure to properly secure the relay unit using bolts or a harness. The harness must also be facing downward.

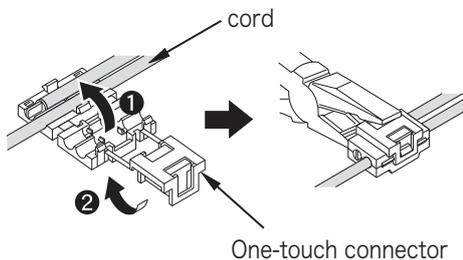


4 Use the attached one-touch connector to the red cord and connect it to the cord used for the air conditioner and power window, which both power on when the engine switch is turned on.



※ Use a pair of pliers to verify the one-touch connector is secure.

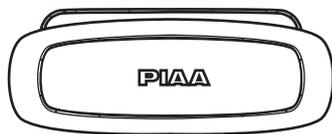
5 Take the black cord and using the one-touch connector (Item 5), tie it together to the vehicle's (-) cord.



※ Use a pair of pliers to verify the one-touch connector is secure.

Not Connected.

3 Connect a ring terminal to the lamp harness.



6 Wire tie
Harness

After lamp has been installed, verify the harness does not make contact with the engine's moving parts or sections that emit extreme heat. Use the wire tie included (Item 6) and secure to harnesses inside engine compartment.

※ After completing the above-mentioned work procedures, go to **[4] Lamp installation procedures.**

[3] Wiring order for LED dim

※ Wiring method allowing LED lamp to dim when the headlights are turned on.

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

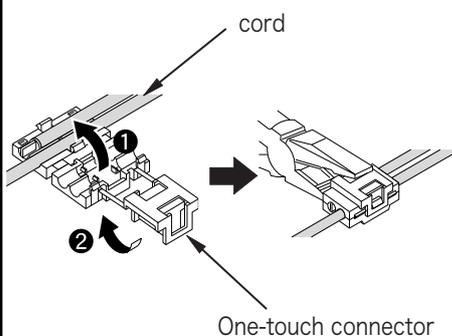
4 Use the one-touch connector that comes with this product and connect both the red and black cord according to the figure below.

Red cord

Connect to cord linked to the air-conditioner and power windows, both of which power on when engine is turned on.

White/Black Cord

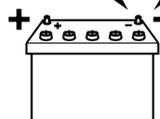
Connect to Vehicle's light.



※ Use a pair of pliers to verify the one-touch connector is secure.

1 Remove the (-) terminal from the battery.

7 Attach the (-) terminal to the battery

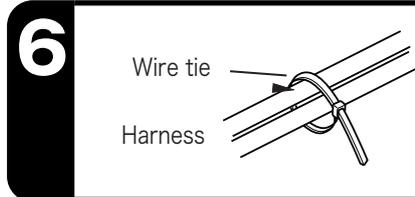
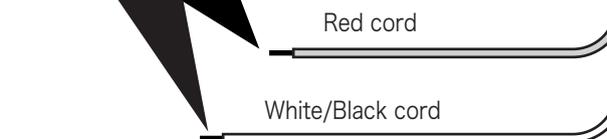
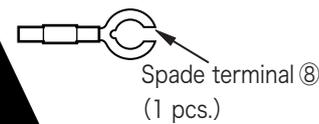


2 Make sure to properly secure the relay unit using bolts or a harness. The harness must also be facing downward.



5 Connect the spade terminal attached to the tip of the black cord (Item ⑧) Then ground it by attaching it to the battery terminal or the vehicle's ground point. (Make sure to properly ground it)

3 Connect a ring terminal to the lamp harness.



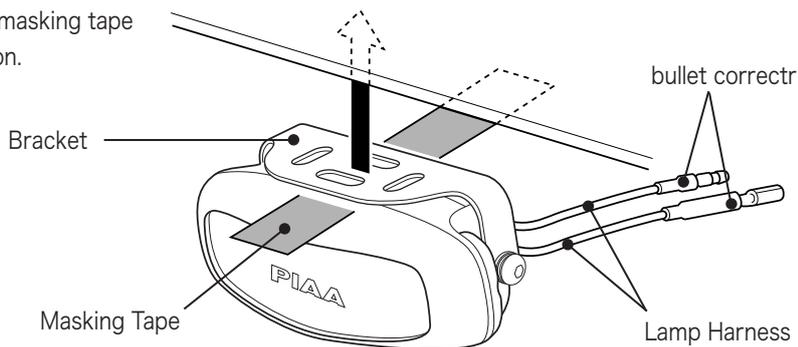
After lamp has been installed, verify the harness does not make contact with the engine's moving parts or sections that emit extreme heat. Use the wire tie included (Item 6) and secure to harnesses inside engine compartment.

※ After completing the above-mentioned work procedures, go to

[4] Lamp installation procedures.

[4] Lamp Installation Procedures

- 1 Temporarily set the bracket with masking tape and then mark the correct position.



- 2 Remove the lamp harness bullet correctr and take out the lamp.

- 3 Install the lamp according to the marking made prior to installation.

◆ If using only the double-side tape.

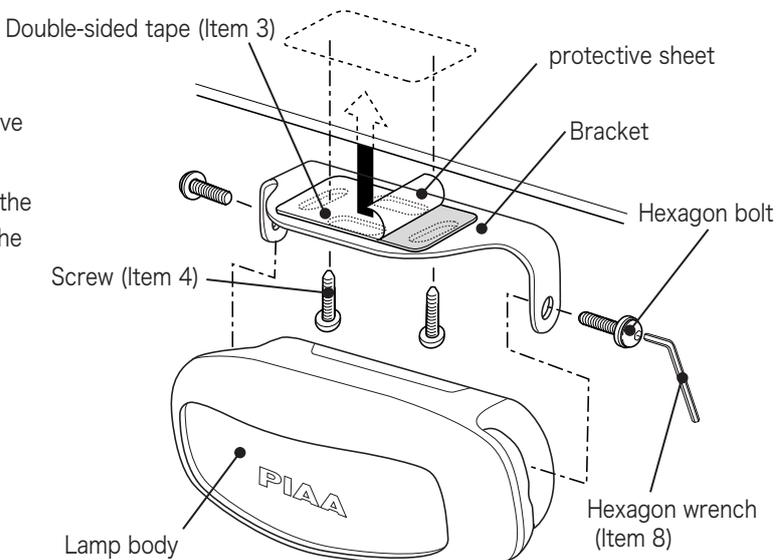
Peel the protective sheet from the double-sided tape (Item 3) and apply.

⚠ CAUTION

- When using the double-side adhesive tape, clean the surface where tape will be applied. Use a clean cloth or sponge and make sure dirt, grease, wax etc., are completely removed. If substances cannot be removed, it may not adhere properly. In particular, avoid using leather wax, tire wax and also any type of organic solvent.
- When used in low temperatures, the adhesive substance tends to lose its strength. Use a drier or simply warm up the adhesive surface before applying. When using a drier, avoid moving it too close to the bumper as it may cause it to deform.
- After installation, avoid excess speeds and do not wash for 1 to 2 days.
- If applied incorrectly, a special double-sided adhesive tape is available at your local PIAA dealer.

◆ If screws are used.

- (1) Loosen the hexagon bolt with the wrench (Item 7) provided and remove the bracket from the lamp.
- (2) Peel off the protective sheet from the double-sided tape and apply it to the bracket.
- (3) Fix the bracket in place with the screws (item 4).
- (4) Install the lamp onto the bracket.



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