PIAA Instruction manual for H.I.D Bulb/harness kit (H4 Low/High switching type)		
Thank you very much for purchasing PIAA product. Read this instruction manual thoroughly for proper use of the product. Keep this instruction manual carefully.		
A Caution marks and A Warning marks in this manual indicate important notices for installing this product. Be sure to follow these notices in order to ensure safe and reliable work.		
For customers In lending or handing over this product, be sure to include this instruction manual.		
For installation service agents Be sure to hand over this instruction manual to the customer after installation.		
For customers		
 This product is only for the halogen H4 type. This product can not be applied to headlamps other than those which use H4 bulbs. 		
Confirm the applicability table for each vehicle type carefully since some bulbs can not be installed due to interference between the tip of the H.I.D. bulb and either the shade or the lens in the lamp body although the bulb is otherwise suited to the customer's vehicle.		
 This product is very dangerous because it generates high voltage. Ask a PIAA authorized dealer for installation and parts replacement. 		
Please note that such services as maintenance-free service may become halted in some vehicles after installing this product. If you do not accept the above situation, please refrain from installing this product.		
 Please note that an additional machining on the bulb-attaching part of the headlamp may become necessary in installing this product. 		
 Please note that the bulb burnt out monitor may become continuously turned on in some vehicles after installing this product. If you do not accept the above situation, please refrain from installing this product. 		
Please note that, due to a remarkable improvement in brightness, some color of light which was not noticeable prior to installation of this product may become visible (especially in projector lamps) or that the light distribution may become different.		
 Do not switch low/high beam for more than five times continuously in order to protect the H.I.D. bulb. Also do not switch on the passing lamp for more than five times continuously. These can cause shortened life of the H.I.D. bulb and damage or failure of the low/high switching unit. Dependence that do not price with balance bulba may accur upon installing this product. They are 		
Phenomena that do not arise with halogen bulbs may occur upon installing this product. They are typical of HID bulbs and are not malfunctions. (For details, refer to "In such cases" in a later section.		
Marning		
 The wiring from the igniter to the H.I.D. bulb is very dangerous since a high voltage of about 20,000 volts is generated at the moment when the switch is turned on.Do not turn on the switch while holding harnesses. 		
Do not touch the lamp during lighting and immediately after turning off the headlamp since very high temperature of the lamp can cause burn injury. Turn off the switch and cool down the lamp completely before replacing the lamp.		
In any circumstances do not disassemble the PIAA H.I.D. bulb, the controller, the igniter or the low/high switching unit. Disassembling these components will not only invalidate regular maintenance but also cause serious troubles such as electrical shock if the product is used with these disassembled components.		
Do not wash the vehicle and do not pour water to the headlamp during lighting and immediately after turning off the lamp since the temperature difference can cause breakage of the lens.		



Before starting installation



• Make sure that there are no breakage, no scratch and no stain on the bulb. Breakage, scratch or stain of the bulb can cause lighting failure.

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Bulbs should be tested for no longer than 10 seconds.

- In case the lighting test has been omitted, any damage happened during installation shall be out of complaint procedures.
- Do not touch the glass part of the H.I.D. bulb and the shade after the lighting test since the bulb is very hot.

Caution for installation / Be sure to read the cautions

Warning



after completing installation. (Refer to the instruction manual of the vehicle for adjustment.)

- Do not touch the glass part of the H.I.D. bulb during handling. Also do not stain the bulb. These can shorten the life as well as deteriorate the function of the bulb.
- Install the H.I.D. bulb correctly by confirming the shape of its metal socket. Also connect the harness correctly and securely. Wrong installation or inaccurate connection can cause lighting failure, dropping or overheating of the bulb and shortened life of the bulb.
- Do not light the H.I.D. bulb outside the lighting fixture except for test lighting.

For authorized dealers

% Customers are strongly required to refrain from installing the product by themselves.

Caution for wiring / Be sure to read the cautions

A Warning -



- Do not light the lamp near flammable material such as paper and fabric to avoid fire disaster.
- Do not light the lamp near inflammable material such as gasoline, combustible spray cans, thinner and lacquer to avoid fire disaster.
- Lighting the lamp while the engine is not running can cause the battery to run out which will result in a failure of starting the engine.
- Do not switch low/high beam for more than five times continuously in order to protect the H.I.D. bulb.Also do not switch on the passing lamp for more than five times continuously. These can cause shortened life of the H.I.D. bulb and damage or failure of the low/high switching unit.
- Always turn the headlamp switch OFF before turning off the engine. If you start the engine with the headlamp switch ON, the life of HID bulbs may be shortened due to changes in the vehicle voltage,etc.

Outline drawing of wiring and installation



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Fasten the low/high switching unit (part no.4) with an M6 bolt and connect the eight-pin connector as shown below.		
M6 bolt (part no.4)		
Eight-pin connector		
Harness(part no.5)		
8 Connect the controller to the igniter.		
Controller(part no.2)		
Igniter(part no.3)		
9 Connect the harness (part no.5) Controller(part no.2) to the controller. Harness(part no.5)		
▲ Caution		
• There are two types of relay harnesses,one with longer cords and the other with shorter cords.Use the harness with shorter cords to connect to a bulb located near the battery, while use the harness with longer cords to connect to a bulb located farther from the battery.		
Ground the closed circular terminals (black vinyl tubes/two pieces for the left and the right sides respectively) of the harness (part no.5) to the body. When grounding to a painted surface of the body, remove the paint before connecting.		
11 Connect the three-pin connector on the body side with the three-pin connector on the harness		
Three-pin connector on the harness		

Reinstall the detached headlamp unit. Connect the H.I.D. bulb couplers with the igniter. Connect the four-pin connector of the H.I.D. bulb with the four-pin connector of the harness.
 Fasten the positive terminal of the battery and the closed circular terminals (white vinyl tubes done piece for the left and the right sides respectively) of the harness (part no.5) together, which have been detached in procedure 1. Connect the negative terminal of the battery as it was. Fasten the relay and the fuse box tightly by using bolts or tie-wraps with the harness pointing downward. Fastening the harness to point either sideways or downward may allow water to enter, which will result in malfunctions. Do not tug the harness sideways at the end of the relay or the fuse box. This can cause detaching of the terminal caulking, which will result in bad electrical contact.
14 Confirm operation of lighting and low/high switching after installation.
15 Attach the parts which have been detached.
Adjust light distribution to a proper state. (Due to a remarkable improvement of brightness, some color of light which was not noticeable prior to installation of this product may become visible and the light distribution may appear differently.)



Check out each part by following the description below.

(For customers) In case of abnormality such as lighting failure, halt the use of this product and ask a PIAA authorized dealer for maintenance. Do not touch any parts such as the bulb, the harness, the controller and the igniter.

(For dealers) Be sure to hand over this instruction manual to the customer after installation.

The following conditions are not malfunctions.

The left and right bulbs glow different colors:

Each bulb may glow a different color due to the characteristics of HID; the bulbs do not glow with exactly the same color. The amount of color change may also vary over time with each bulb.

• The color changes immediately after the bulb is turned on:

Because of the characteristics of HID, the color changes immediately after the bulb is turned on. It will stabilize within 10 to 60 seconds.

There is high-frequency sound from the controller or igniter:

This is the sound of the voltage being controlled, and is not a malfunction.

If problems other than the above are found, inspect each part according to the table below.

[1] In case the lamp will not light at	Iter installation		
Check out whether the positive and the negative terminals of the battery are connected.	Connect the positive and the negative terminals of the battery.		
Check out all connectors and terminals being connected correctly and properly.	Connect them properly according to the instruction manual.		
Check out whether grounding to the body is securely connected.	Connect grounding to the body securely.(The painted surface of the body can cause bad electrical conduction.)		
Check out whether the fuse of the harness is blown out.	Replace the fuse after removing the cause of blowout.		
Сок			
Contact the PIAA authorized dealer to ask for maintenance.			
[2] In case the lamp goes out sudde	enly		
The safety device of the controller may Turn off the headlamp switch and wait	be activated. for a few minutes. Then turn on the switch again.		
Check out whether connection for each connector is secure. Also check out whether the connectors are stained.	Connect all connectors securely. NG Remove stains.		
Check out whether grounding to the body is securely connected.	Connect grounding to the body securely.(The painted surface of the body can cause bad electrical conduction.)		
Check out whether the fuse of the harness is blown out.	Replace the fuse after removing the cause of blowout.		
Contact the PIAA authorized dealer to ask for maintenance.			

[3] In case the lamp blinks		
Check out whether connection for each connector is secure. Also check out whether the connectors are stained.		
Check out the voltage of the battery. (12 volts during idling is a rough standard.)		
Check out whether the H.I.D. bulb is damaged.		
Contact the PIAA authorized dealer to ask for maintenance.		
[4] In case proper light distribution is not obtained after lighting		
Adjustment of the light axis is required since the light emitting point may vary to some extent for each bulb. However, if the deviation of the light distribution exceeds the adjustable range of the headlamp unit, refer to the description below.		
Check out whether the H.I.D. bulb is properly installed to the socket.		
Contact the PIAA authorized dealer to ask for maintenance.		
[5] In case the lamp is always lighted		
Contact the PIAA authorized dealer to ask for maintenance.		
[6] In case it is impossible to switch between low and high beams		
Contact the PIAA authorized dealer to ask for maintenance.		



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