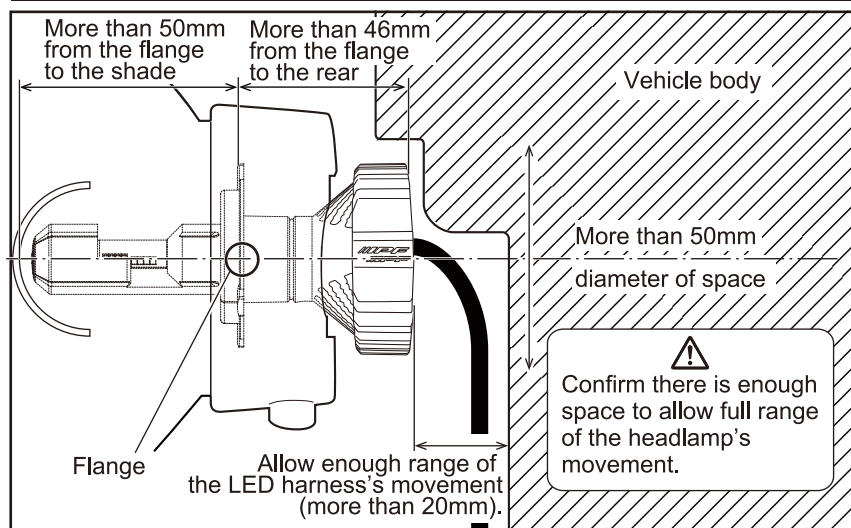


LED Bulb installation manual (H4) Compact Type

Article number : 141HLB, V143HLB

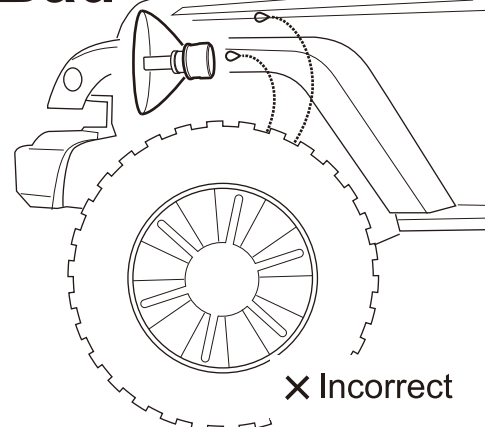
LED Bulb fitting

Space around the bulb



Direct contact with water, dirt or dust

Bad



LED Bulb lighting test points

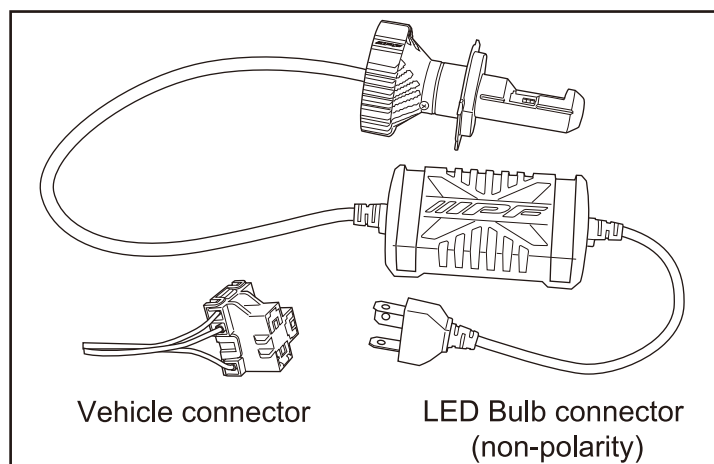
* Do it both bulbs before installation

<Test procedure>

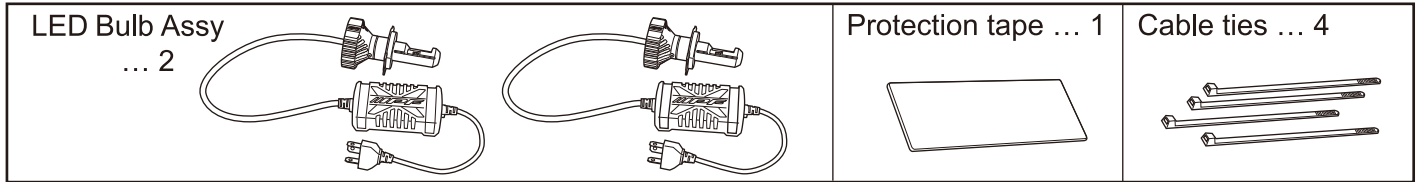
1. Connect the new parts to the vehicle's connector.
2. Turn on the lamp both high beam and low beam.
Test for correct lighting.
3. Check the high beam indicator lit normally on the dash.
4. Check the vehicles gauges for any warning sings. If no warnings, the test is finished.

Warning

Do not turn on the switch if the bulb is not connected.



Components

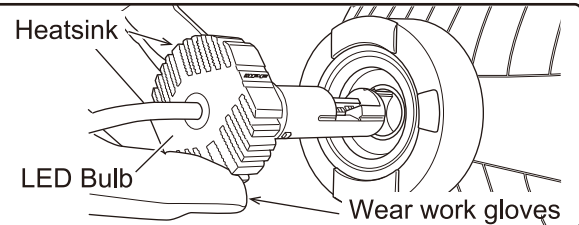


Installation procedure

⚠ Warning



Wear work gloves to prevent a minor cut with pointed part of the heatsink.

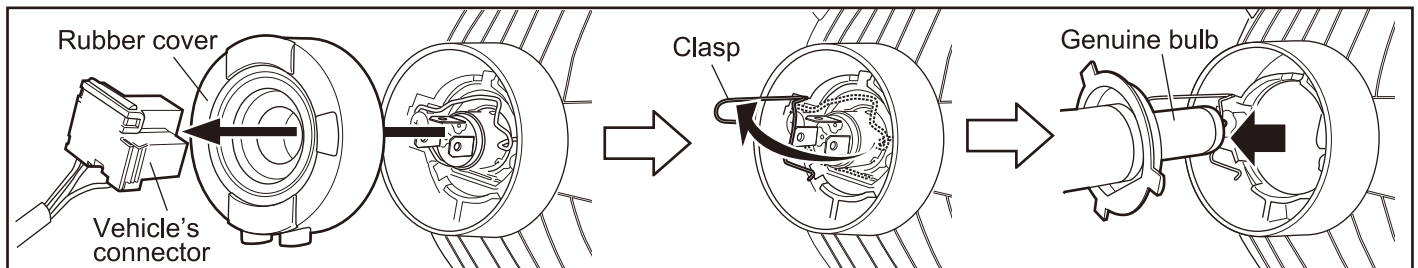


1 Genuine bulb check

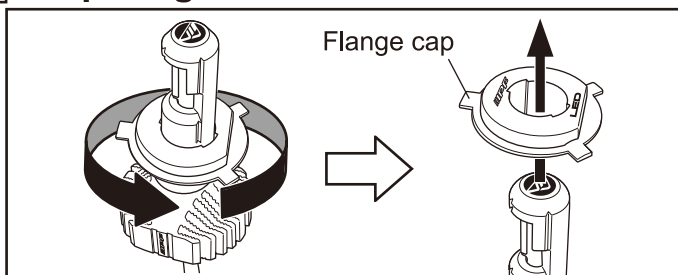
Check the condition of the bulb's attachment.
If the check cannot be done visually or the space is too narrow, please remove the headlamp unit from the vehicle.

2 Removing the bulb

Remove the vehicle's connector and the rubber cover, unclasp and remove the bulb.
Refer to the vehicle's manual for bulb removal procedure, as it can differ between vehicles.



3 Preparing the bulb



Remove the flange cap from the bulb.
Refer to the figure left.

⚠ Caution

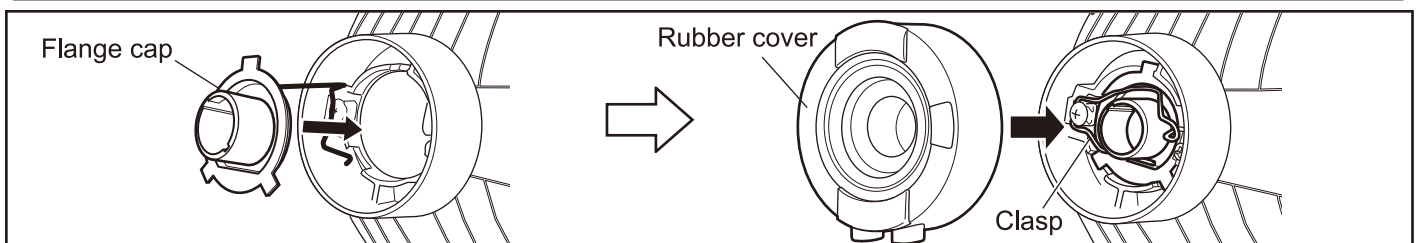
Wear work gloves to prevent a minor cut with pointed part of the bulb or flange.

4 Installing the bulb

Attach and clasp the flange cap. Put the rubber cover back into place fit securely.

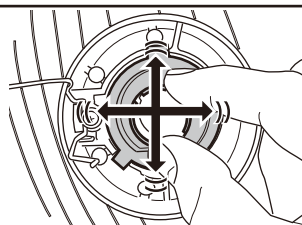
⚠ Caution

Verify that the flange cap and head lamp are secured. If loose it causes a damage to the bulb and head lamp rubbed by vehicle vibration.
Pay extra attention to installation for off-road vehicles or trucks in particular.
Verify that the clasp is tightly secured.
To prevent water entry, push the rubber cover tightly around the center of the flange hole.

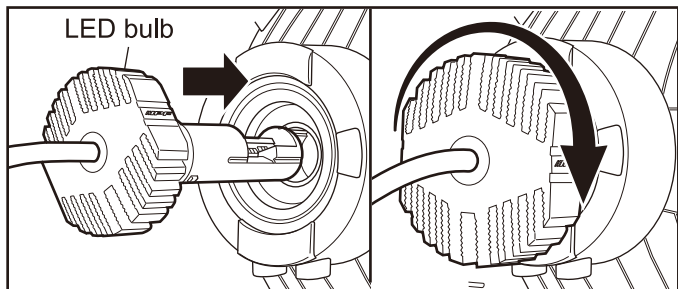
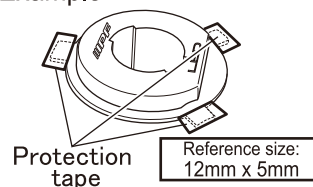


Guidance

Refer to the figure below. Verify that the flange cap is steady from side to side and up and down. Use the protection tape if the attaching part is not steady. Cut the protection tape in an appropriate size and apply it if necessary.



Example

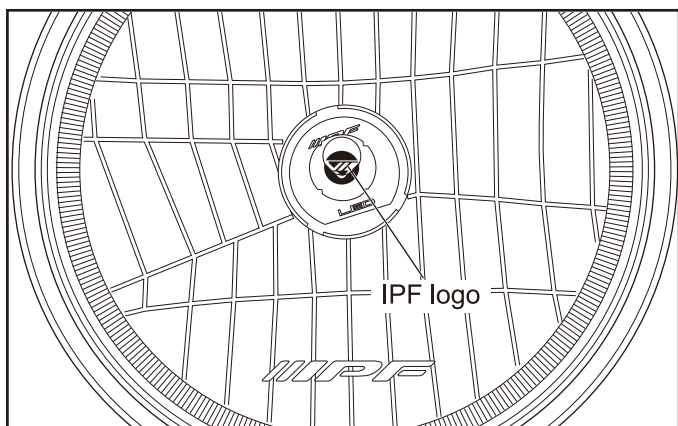



Insert the bulb straight deep into the flange cap. Rotate the bulb clockwise and secure tightly.

⚠ Warning


Insert the bulb straight cautiously into the flange cap. Do not apply excessive force or use tools. It causes a damage to the bulb or head lamp. Stop here if bulb does not fit without interference of other nearby objects.

5 Installation check

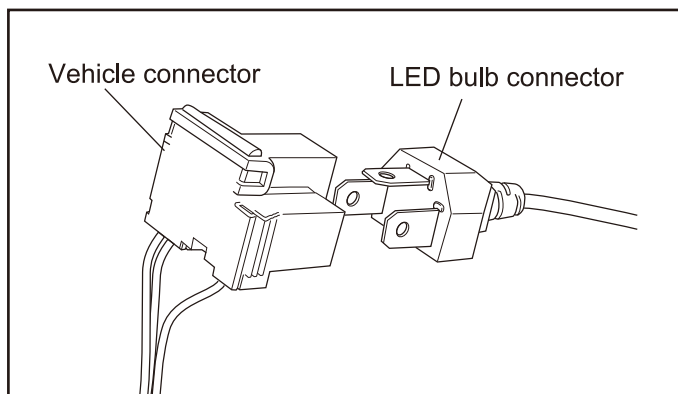


Verify that “IPF” & “LED” markings on the flange cap are horizontal as shown in the image left. When installing this product completed to a head lamp for right-hand traffic, “” on front edge of the bulb and the sticker “IPF logo” on back face of the bulb slant approximately 15 degrees, though this is in the right position.

⚠ 【For left-hand traffic】

Verify that “” on front edge of the bulb is horizontal. “IPF” & “LED” markings on the flange cap slant approximately 15 degrees, though this is in the right position.

6 Connecting the connector, fixing the drive unit and harness



Connect the LED bulb connector with vehicle's connector, insert the connector all the way. If there is extra length in the harness, fix it into place with a standard cable tie, etc. Leave a little slack in the harness to give room for the movement of the headlamp leveler. If you removed the headlamp unit, reinstall the unit now.

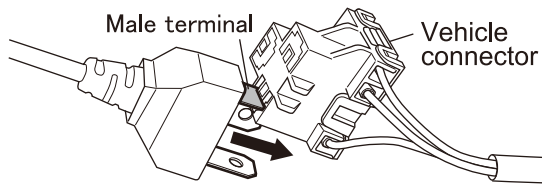
⚠ Caution

If two connectors are not secured tightly, secure them with tape. A loose connection can short out the wiring.

Make sure to check connecting terminal and restore if needed

Repetitive connecting/disconnecting motion causes a bad fit of vehicle connector and LED bulb connector.

Check



Check to see if the connection is workable.
Connection should be restored in case that a male terminal lightly can fit in with a vehicle connector's terminal.

*Check all three connections individually.

Restoration



Restore the connecting terminal if loose and disconnected (see the figure left).

Reduce the width of connecting point using a flat-blade screwdriver (precision screwdriver), etc.



Warning

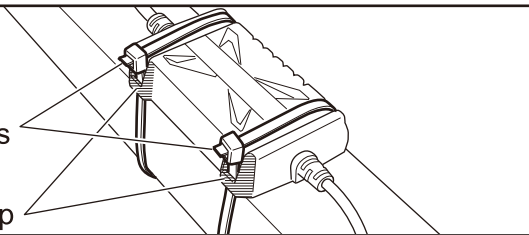
Remove the minus terminal when restoring connection.

If using two batteries, remove both sides of the minus terminals.



Cable ties

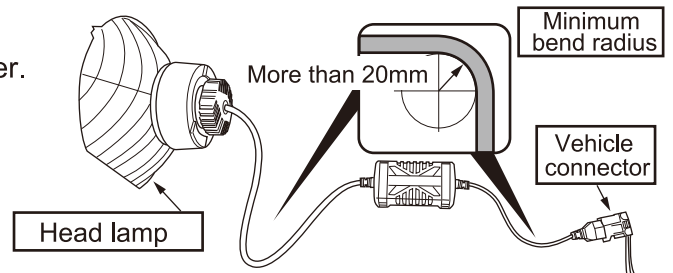
Loop



Insert cables ties into the loops as shown in the figure left, and fix them on sound place near the headlamp unit.

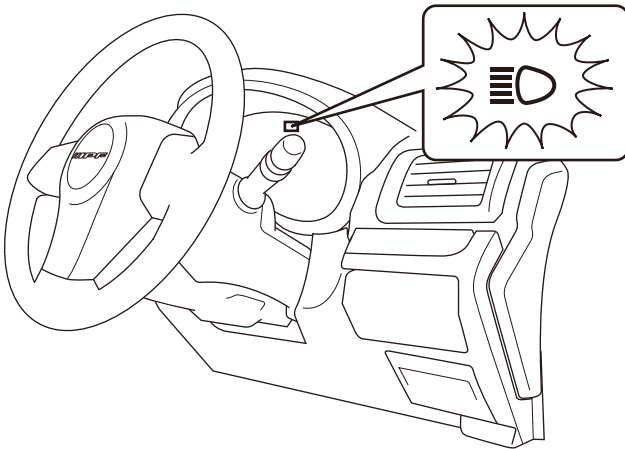
⚠ Warning (Prevent disconnecting)

Do not tie the harness together with the drive unit.
Do not bend or pull the harness by excessive power.
Leave a slack in the harness.
Harness's minimum bend radius should be more than 20mm (see the figure right).



7 Lighting check

Check to see high-beam indicator lighting



Turn on the engine. Switch on the headlamp.
Check to see if both low-beam and high-beam light up properly.

Check to see high-beam indicator lights up properly.



Headlight tester measurement caution points

Results might vary when using the auto mode with the headlight tester.
Manual mode is recommended.

In some cases of old model of vehicles, the high beam indicator on the dash may not work/light up properly. To solve this issue, attach the high beam indicator lighting circuit (P#: WA-4).