



GROUP	MODEL
BOD	All Models
NUMBER	DATE
055 (Rev 1, 09/13/2021)	March 2010

TECHNICAL SERVICE BULLETIN

INFORMATION FOR HEADLAMP CONDENSATION AND MOISTURE

SUBJECT:

NOTICE

This bulletin has been revised to include additional information. New/revised sections of this bulletin are indicated by a black bar in the margin area.

This bulletin provides information relating to some Kia models that may exhibit fogging, condensation, and/or moisture inside a headlamp assembly. Generally, a fogging condition is considered normal and can be eliminated by turning on the headlamps with the engine running for up to 30 minutes or during normal driving conditions. Headlamp assembly replacement WILL NOT be necessary in most cases.



EXAMPLE: Moisture accumulated within the headlamp assembly displays a fogging condition.

NOTICE

Headlamp fogging (as shown above) is a normal occurrence and headlamp assembly replacement WILL NOT be necessary to resolve this issue.

1. Causes of Headlamp Fogging/Moisture: Normal Condensation

With a drop in air temperature, condensation droplets may form on the inside of the cool headlamp lens. This condition is **NORMAL** and can usually be eliminated by following the "Headlamp Assembly Drying Procedure" below. Repair or replacement is **not** required.

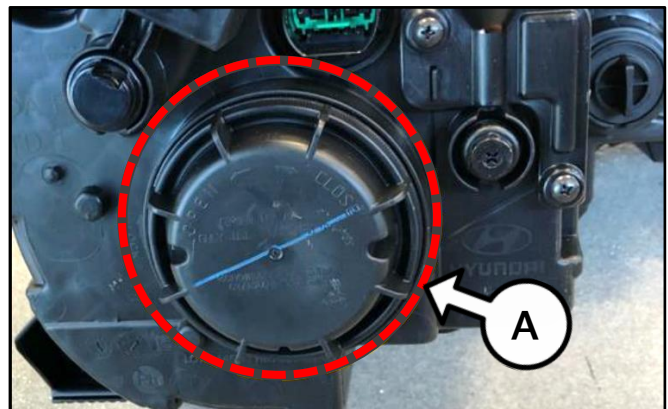


Example of normal condensation in headlamp.
No repair or replacement necessary.

Headlamp Assembly Drying Procedure

Dry out the headlamp assembly by removing the dust cap(s) (A), then allow vehicle to idle for 30 minutes with engine running and headlamps turned **ON** in order for condensation/moisture to evaporate. Verify condensation has been eliminated.

Note: Be sure to reinstall dust cap(s) (A) before returning vehicle to customer.



2. Causes of Headlamp Fogging/Moisture: Water Intrusion

If water pools at the bottom of the headlamp assembly and/or if fogging remains after the "Headlamp Assembly Drying Procedure," this condition may be caused by a water leak. Water intrusion may be the result of a poor seal between the housing and lens or bulb socket, cracks in the headlamp assembly, poor fit, pressure washer, car wash, or other outside influence. In these cases, diagnose and repair as needed.

NOTICE

Replacement of a headlamp assembly for an actual water leak requires DPSM approval and requires condition to be documented with photos attached to a TechLine case.

Note: Refer to next page for examples of types of water intrusion and suggested solutions.



Examples of water leak in headlamp.
Water droplets inside of headlamp assembly.
Condition should be diagnosed and repaired.

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For each diagnosis, be sure to take photos, record weights, etc. and open a TechLine case as necessary. Then test drive after repair to verify moisture has been eliminated.

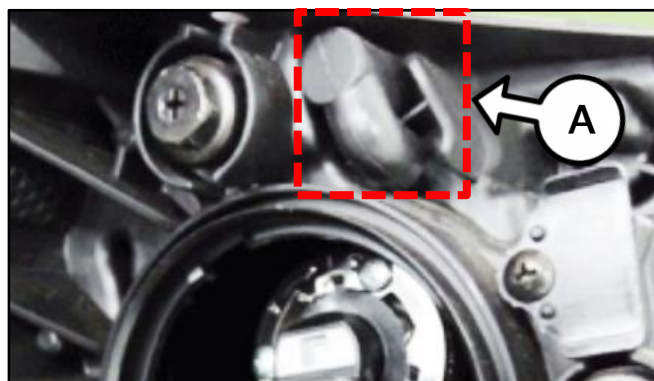
 IMPORTANT

Inspect the affected headlamp assembly for external damage and/or aftermarket modifications. If damage or modifications are present, repair/replacement is not covered under warranty.

Blocked Headlamp Assembly Vents

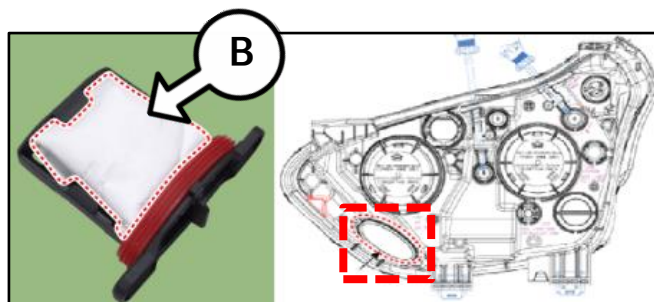
Spider webs, dirt, debris, or other foreign substances may block headlamp assembly vents (A) and prevent normal ventilation.

Solution: Locate and inspect the headlamp assembly vents for blockage, and clean as needed.

Desiccant Bag Over-saturation

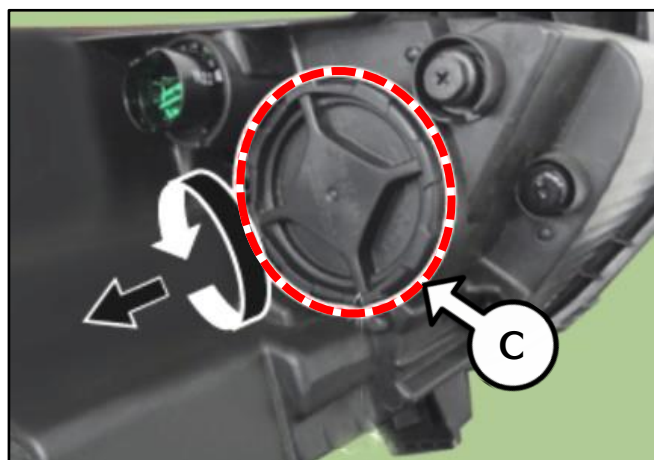
The desiccant bag (B) has absorbed its maximum amount of moisture and is no longer effective.

Solution: Locate and replace the over-saturated desiccant bag.

Failed Headlamp Assembly Seals or Gaskets

Seals or gaskets (C) may be damaged by minor accidents, incorrectly installed bulbs, shipping damage, pressure washing, or certain car washes.

Solution: Locate the area of failure and determine if it is repairable. In some cases, headlamp replacement will be necessary.



Other Factors to Consider:**Environmental Factors**

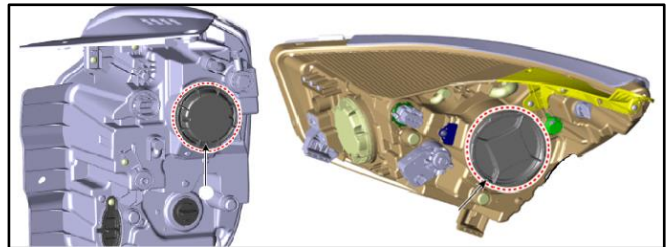
Extreme weather and elements such as wind, water, dirt, debris, heat, freezing, or other foreign influences may cause water intrusion into the headlamp assembly.

Solution: Perform the "Headlamp Assembly Drying Procedure" on page 2 to eliminate moisture. If moisture cannot be eliminated, perform further diagnosis per this TSB and KGIS.

**Model Specific Differences**

Certain models may have different headlamp assembly designs which allow more moisture and condensation to collect than others.

Solution: Search KGIS for model-specific TSBs, Service Actions, or Campaigns available for these models/headlamp assembly designs.

**NOTICE**

Normal warranty applies for any headlamp assembly with moisture and/or condensation.