

Technical Information

FROM: Maserati TSO

TO: Maserati Network



PERSONAL SERVICE LAB

MASTERS OF CARE

Headlight Taillight Condensation

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This Technical Information aims to provide a guideline to diagnose taillights and headlight condensation concerns which may be visible internally on the lens of those components.

Condensation is a physical and natural phenomenon of headlights and taillights that can occur during highly humid environmental climate conditions such as heavy rain or thunderstorms, as the external air is humid and there is a difference in temperature between the outside and the inside of the housing unit.

MODELS: all Maserati models**SECTION:** 08.30-1 FRONT LIGHTS and 08.31-1 REAR LIGHTS**CUSTOMER CONCERN:** condensation inside headlights and taillights**ANOMALIES:**

A) Condensation during high humid environmental conditions (Normal)

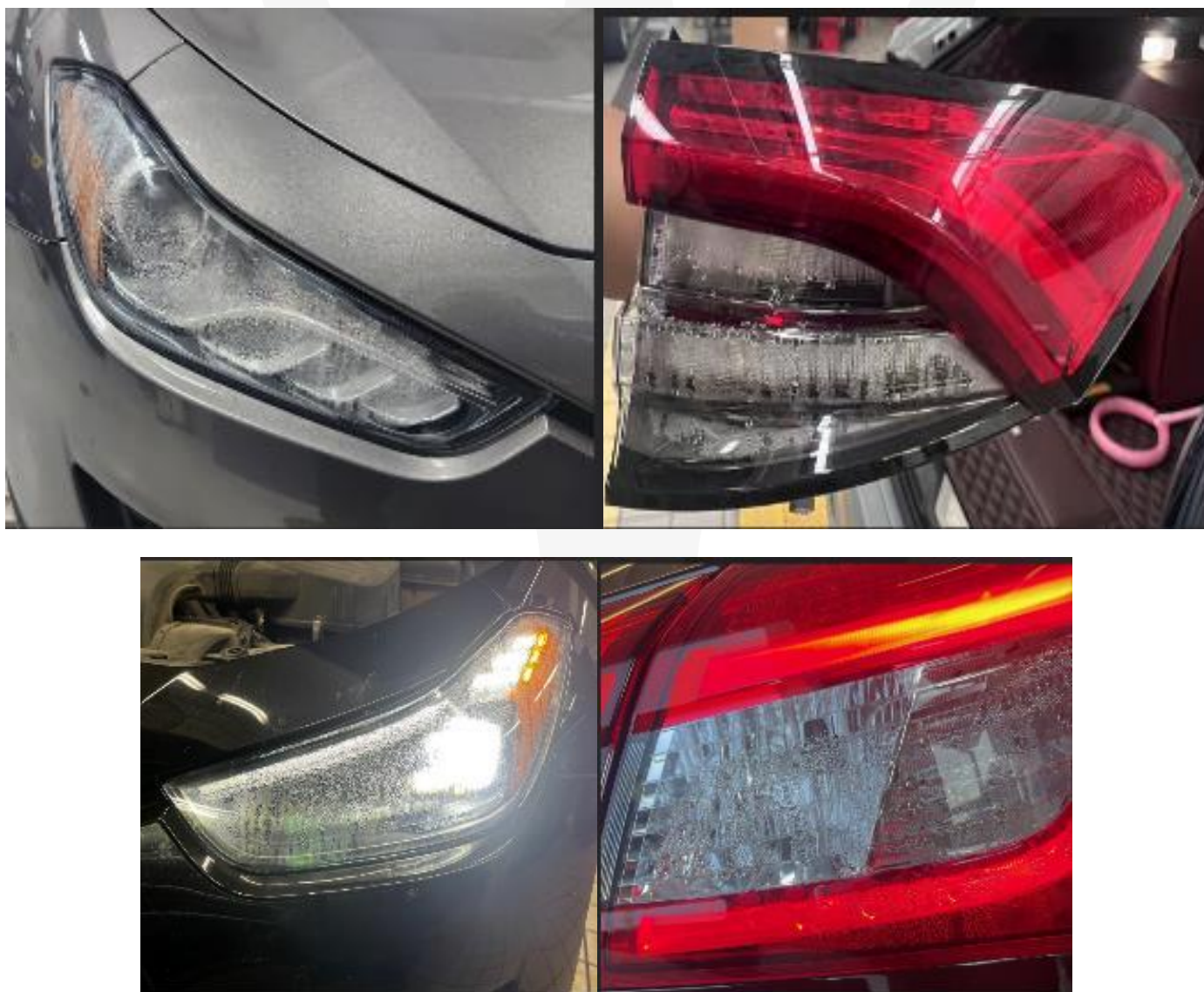
In highly humid conditions, fogging and or the presence of thin mist (no streaks, drip marks, or droplets) may form inside the headlight and taillight units (see the examples below):





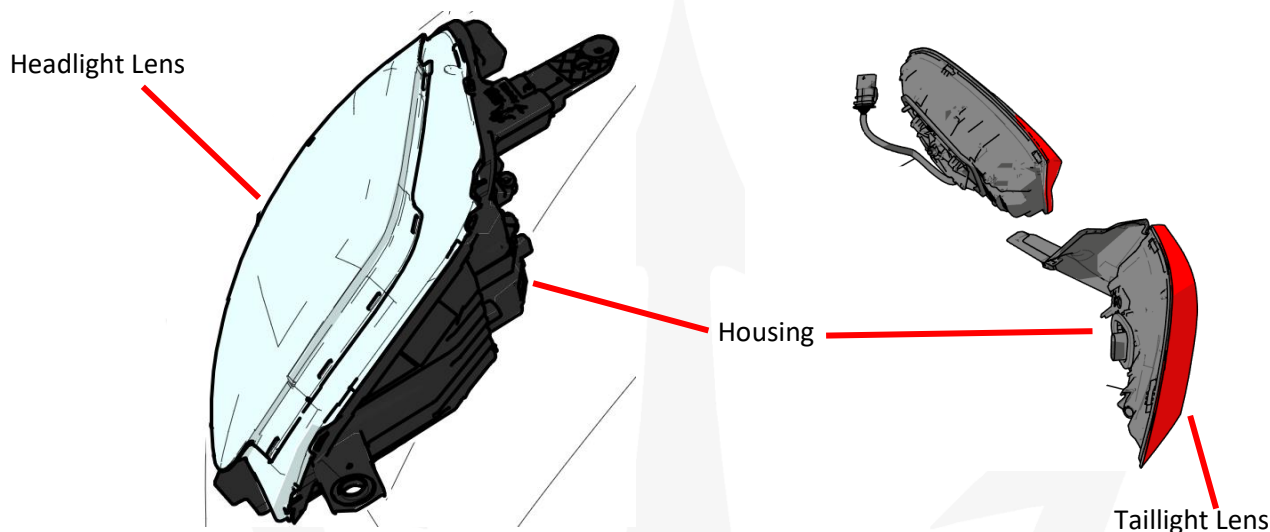
B) Condensation due to water infiltration (Abnormal)

Water infiltration into the lighting units, with drops/streams of water and/or accumulations of water inside the component (Water puddle) (see examples below):



DIAGNOSIS:

- Check for any cracks or breakages on the external surface of the lighting unit or the coupling surface between the external lens and the back housing. Water or steam may penetrate through such defects.
- Check for any damage or cracks on the rear part of the housing assembly (inspection caps, connector, housing). Water or steam may penetrate through such defects

**CONCLUSION:****A) Condensation during high humid environmental conditions (Normal)**

Do not replace any components. Instead, inform the customer that it is a natural physical phenomenon that occurs in particular conditions (heavy rain, thunderstorms, car wash, temperature changes) when ambient air is very humid and there is a temperature difference between the inside and outside of the headlight and taillight assembly.

The lighting units are equipped with natural or forced ventilation systems to guarantee the ventilation necessary to disperse any condensation that forms on the coldest parts of the same. To eliminate condensation through the circulation of air inside the component it is therefore necessary to drive the car for a certain time, which can strongly depend on the environmental conditions such as humidity and atmospheric temperature.

B) Condensation due to water infiltration (Abnormal)

In the event that water infiltrations are found in the headlight and taillight units, for vehicles under warranty, Open BOL for "SUPPORT REQUEST" attach detailed photos/videos of the anomaly and showing any evidence of damage or loss of sealing.

Any replaced components that show external damage not attributable to manufacturing defects cannot be recognized under warranty.