

**Diagnostic Sheet**

FROM: Maserati TSO

TO: Maserati Network



**Maserati**

PERSONAL SERVICE LAB

MASTERS OF CARE

# Grecale: Air Suspension System Diagnosis



**ATTENTION! This bulletin supersedes [MAS004672 DS 25-08](#) released on April 4, 2025. This bulletin has been updated with new diagnostic info. Please discard/remove all copies of the previous bulletin.**

DATE: April 15, 2025

This Technical bulletin serves as a guide and provides additional diagnostic info for possible Air suspension issues on Grecale equipped with an Air Suspension System.

## MODELS:

- M182 Grecale (All MY)

**The air suspension system is subject to micro air leaks.** Which are a normal characteristic of the system. These small leaks typically come from the air springs and components located at the front of the vehicle. Since these leaks are considered normal, the vehicle's behavior remains within standard parameters, and no additional checks are required.


When the vehicle is started, the system automatically restores the correct ride height by compensating for any normal deflation that may have occurred while the car was off.

**The following indications and criteria for the evaluation of anomalies are no longer valid:**

- Static lowering over 24h greater than 6mm
- Lock-to-Lock maneuvers and/or low-speed steering
- Five height level settings from Off-road2 to Aero1 position, to replicate the DTC

1. First, check whether **Rapid Update 767** applies to the vehicle and if it has been completed.
2. **If the vehicle does apply but 767 has not been completed:** Complete the required VDCM SW update following the instructions in the RU bulletin, and put the vehicle in "ENGINE-ON" mode ("READY" mode for BEVs). **If the suspension warning light is still on**, proceed with the **AIR LEAK TROUBLESHOOTING section** of this bulletin.

If, on the other hand, **Rapid Update 767** does NOT apply to the vehicle in question, follow the steps below based on the vehicle's current scenario:

- 1) **Suspension warning light OFF and/or DTC 55A100 (Unable to Obtain Desired Ride Height in "INTERMITTENT" state in VDCM):** Proceed with the VDCM SW update, put the vehicle in "ENGINE-ON" mode ("READY" mode for BEVs) and check that the DTC is still not present on the vehicle. Return the vehicle to the customer explaining that the system leaks will be compensated by the suspension compressor activation logic and that the fact that the suspension level may be lower when the car is off is not an anomaly.
- 2) **Suspension warning light ON  and DTC 55A100 (Unable to Obtain Desired Ride Height in "ACTIVE" state in VDCM):** Proceed with VDCM SW update, put the vehicle in "ENGINE-ON" mode ("READY" mode for BEVs) and check whether the DTC has cleared or is still present:
  - a. **If the DTC is no longer present**, return the vehicle to the customer explaining that the system leaks will be compensated by the suspension compressor activation logic and that the fact that the suspension level may be lower when the car is off is not an anomaly.
  - b. **If DTC is still present**, proceed with the **AIR LEAK TROUBLESHOOTING** of this bulletin.

To investigate the potential cause of the incident and possible authorization to repair the air suspension components, perform the **AIR LEAK TROUBLESHOOTING** section starting on page 3 and fill out the checklist on page 6, open a Blue On-Line (as Support Request) and attach it with all other required attachments. Wait for feedback from the Technical Support Team before replacing any components.

**Performing the troubleshooting steps in this bulletin is mandatory.** The collected evidence will be attached to the relevant Blue On Line or possibly to the warranty claim.

Warranty claims that do not meet the requirements cannot be approved and will be subject to assessment.

If you are dealing with a case not described in this bulletin, please open a Blue On-Line (as a Support Request) explaining the specific problem. Wait for feedback from the Technical Support Team.

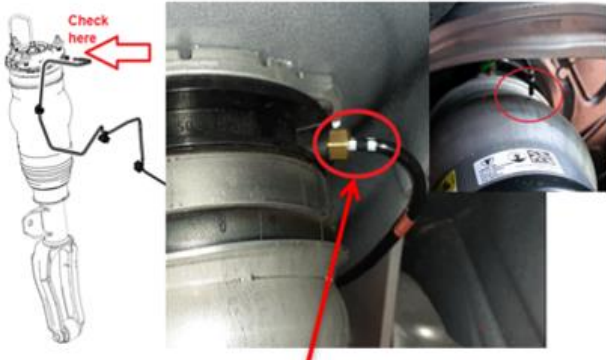
**Please see the last page of this bulletin for recommended products to use when checking for air leaks on various air suspension components.**

# AIR LEAK TROUBLESHOOTING

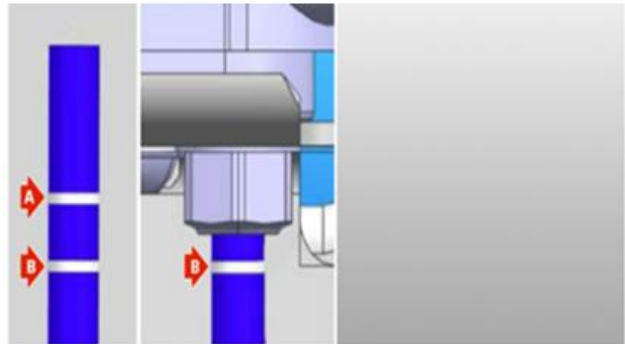
The troubleshooting guidelines to be followed to speed up diagnosis to identify the potential source of an air leak in the system, when the suspension warning light remains on even after the SW update, are described below.

Each area described below must be tested for leaks for at least 5-10 minutes with one of the products listed at the end of this document.

## Area 1 - Front axle



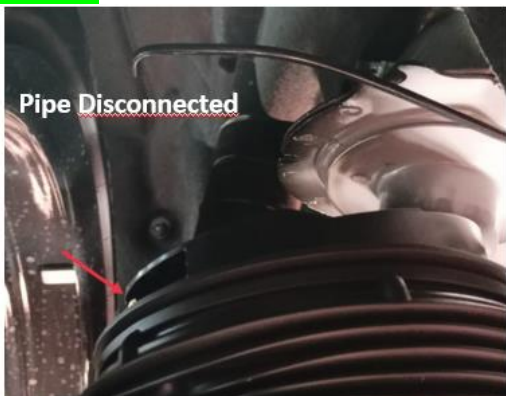
Example of incorrect installation of air suspension system pipes on front axle



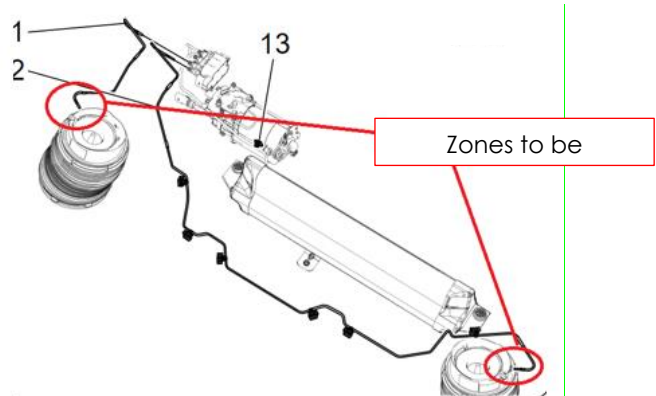
Example of correct installation to be secured in the car (points A and B)

The insertion of the pipes into the fittings is correct if only the innermost reference marking (concerning the pipe) is visible (see point B in the pictures above).

## Area 2 - Rear axle



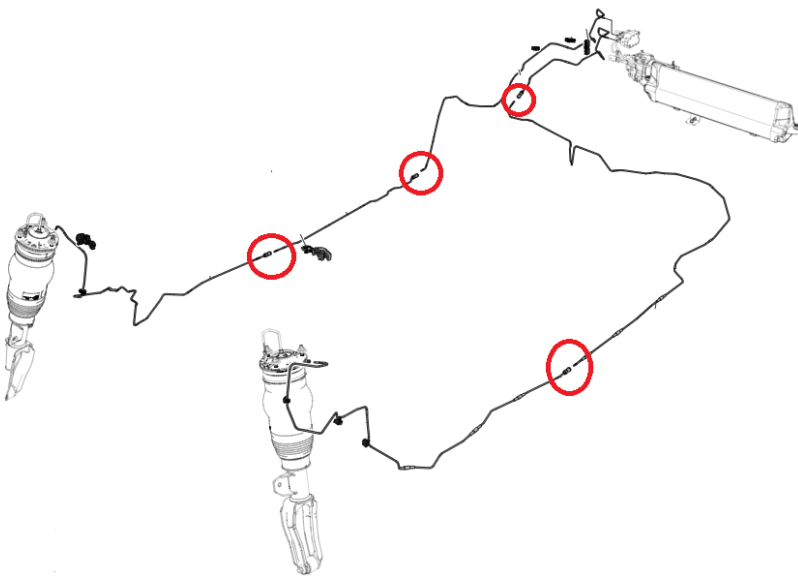
Example of incorrect installation of air suspension system lines on rear axle



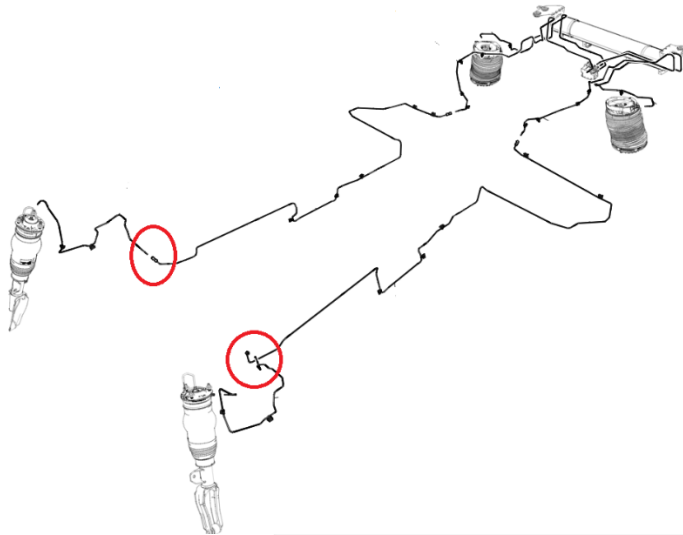
The insertion of the pipes into the fittings is correct if only the outermost reference marking (concerning the pipe) is visible.

### Area 3

#### Grecale ICE/MHEV pipe junction area



#### Grecale BEV pipe junction area (checks to be carried out without removing the HV battery)

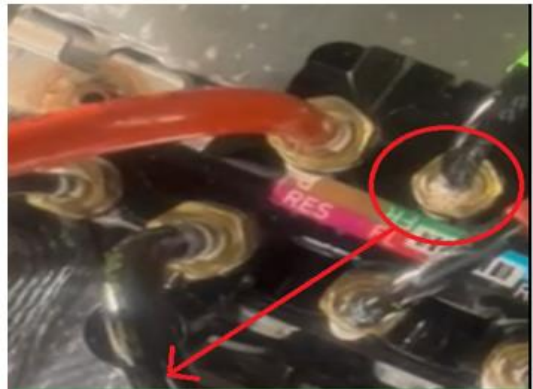


The insertion of the pipes into the fittings is correct if only the outermost reference marking (concerning the pipe) is visible.

### Area 4 - Pipes on the valve block



Check pipes on valve block for disconnected and/or incorrectly installed lines



Use a leak detector to detect potential air leaks in the system

The insertion of the pipes into the fittings is correct if only the outermost reference marking (concerning the pipe) is visible.

## Area 5 - Shock absorber top mount upper part check



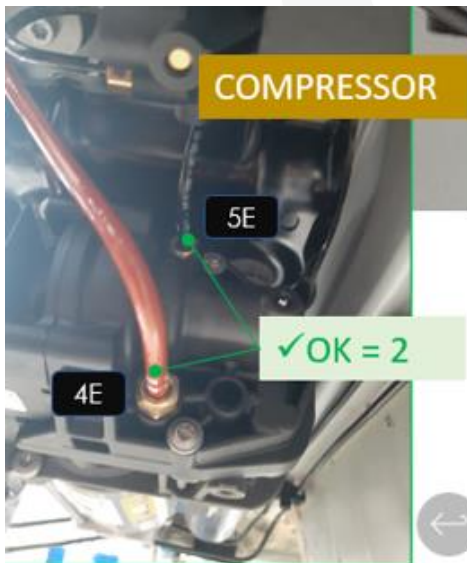
It is normal for bubbles to form in the zone shown in the picture above because the liquid slowly replaces the air in the top mount seat (releasing bubbles at a low frequency compatible with the progressive filling of the seat).

Refer to the image above and the videos attached to this bulletin for cases of "Confirmed leaks" and "Normal operation" (in which case bubbles can still be observed but do not indicate an objective problem).

## Area 6 - Compressor

Check all the compressor connections for leaks.

IMPORTANT NOTE: Only in this case, the insertion of the pipes into the compressor connections is correct if two reference markings are visible.



After carrying out the six checks described above, proceed as follows to ensure the correct investigation of the root cause of the problem:

- Do not perform recovery operations and open Blue On Line tickets as a Support Request explicitly indicating the component on which the fault was found.
- Attach pictures/videos of the anomaly and the checklist at the end of this document. Refer again to the videos attached to this Bulletin for examples.

Maserati technical support will indicate the operations to be carried out and any parts to be replaced and returned for analysis.

If a leak on a shock absorber on one of the axles is confirmed, regardless of the mileage of the car, the other shock absorber installed on the same axle (front or rear) will **NOT** also need to be replaced.

# Air Suspension Checklist (MAS004672)

**Fill out the checklist below and attach it to the BOL.**

Area	Area Description	LEAK? YES/NO	Number of reference markings visible on pipes
1	Front axle		
2	Rear axle		
3	Pipe junction zone		
4	Pipes on the valve block		
5	Shock absorber top mount		N/A
6	Compressor		

**Products to be used when inspecting for any leakage in the air suspension system.**

- LEAK TRACING POWDER OR EQUIVALENT

**EXAMPLES:**



**WARRANTY CLAIM INFORMATION**

**Codes to be used to claim the labor costs under warranty.**

Use the following codes depending on the check performed:

Description	Part Number
Component Code	6.90.001
Operation Code	
<ul style="list-style-type: none"> <li>▪ SW Update Only</li> <li>▪ ICE/MHEV leak troubleshooting</li> <li>▪ BEV leak troubleshooting</li> </ul>	<p>6.90.001.9 (0.20 h)</p> <p>6.90.001.C (1.50 h)</p> <p>6.90.001.D (2.00 h)</p>