Technical Information
FROM: Maserati TSO
TO: Maserati Network

Maserati
PERSONAL SERVICE LAB
MASTERS OF CARE

Grecale:
Air Suspension System Diagnosis

ATTENTION! This bulletin supersedes MAS004471 RU 25-09 released on December 17, 2024. This bulletin has been updated with new diagnostic info. Please discard/remove all copies of the previous

DATE: April 4, 2025

This Technical bulletin serves as a guide and provides additional diagnostic info for possible Air suspension issues on Grecale equipped with 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 information contained in this bulletin supersedes all previous communications on the issue.

The following indications and criteria for the evaluation of anomalies are no longer valid:

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

If the following cases occur:

A) **Suspension warning light OFF:** with air suspension leak concern. Inform the customer that a new VDCM SW will be released soon! The new VDCM SW changes the compressor blocking strategy in case of temporary air leak when the wheels are steered. This new strategy will level the vehicle. Therefore, do not proceed with troubleshooting.

B) **Suspension warning light ON**: and DTC **55A100 (Unable to Obtain Desired Ride Height** in "ACTIVE" state in VDCM): proceed with the **AIR LEAK TROUBLESHOOTING** of this bulletin.

For the purpose of investigating the potential cause of the incident and possible authorisation 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) an 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 Support Request) explaining the specific problem. Wait for feedback from the Technical Support Team.

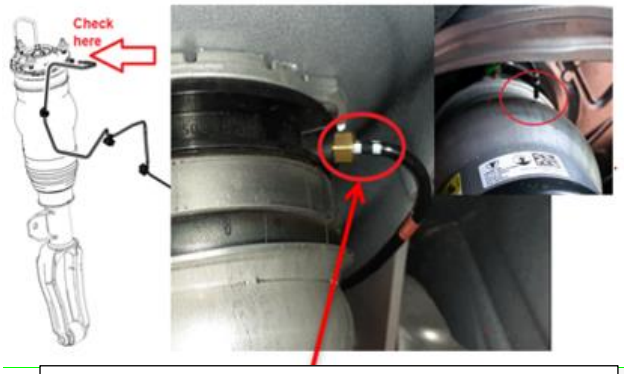
Please see last page of this bulletin for recommended products to use when checking for air leaks on various air suspension components.

AIR LEAK TROUBLESHOOTING

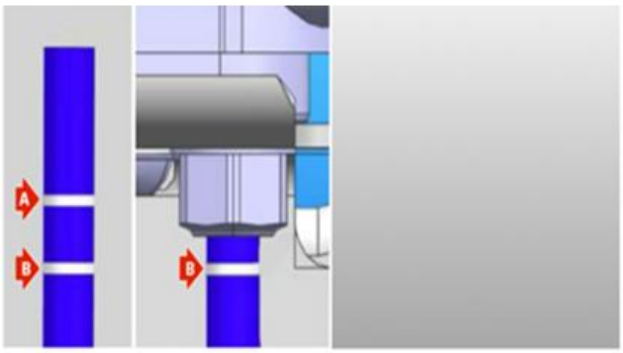
The troubleshooting guidelines to be followed to speed up diagnosis to identify the potential source of an air leak in the system.

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



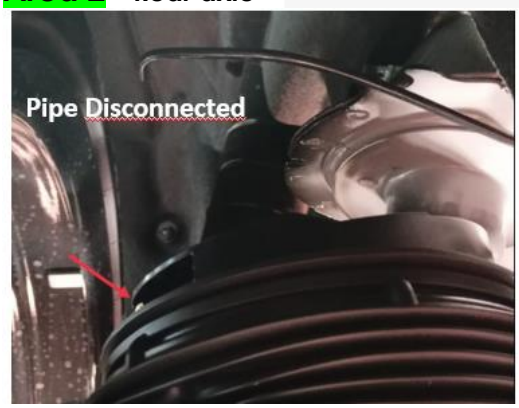
Example of incorrect installation of air suspension system pipes on front axle

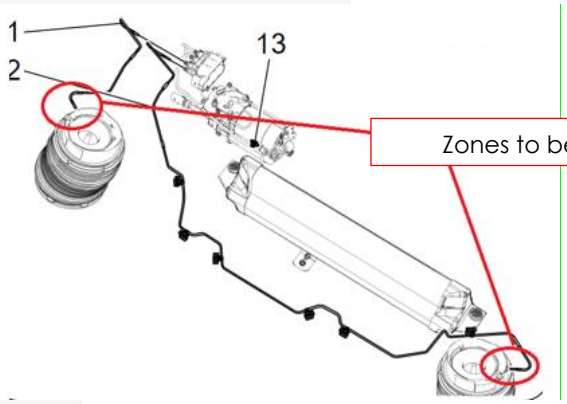


Example of correct installation to be secured in the car (points A and B)

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

Area 2 - Rear axle



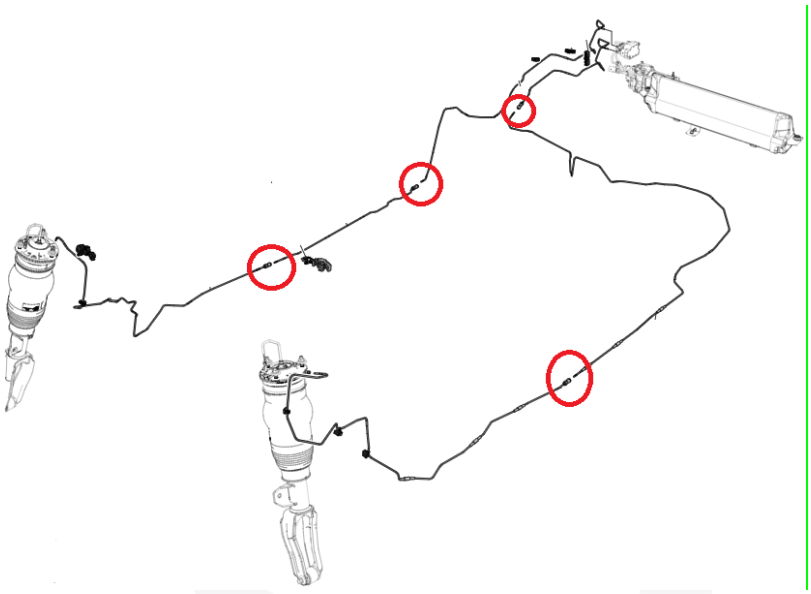


Example of incorrect installation of air suspension system lines on rear axle

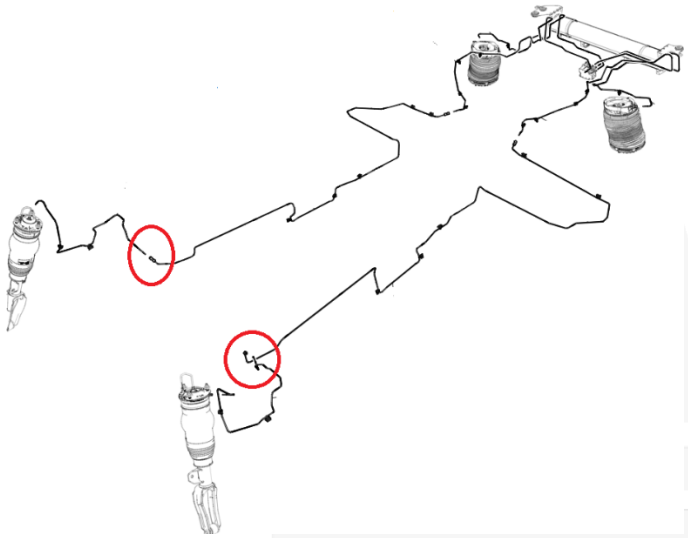
The insertion of the pipes into the fittings is correct if only the outermost reference marking (in relation to the pipe) is visible.

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 (in relation to the pipe) is visible.

Area 4 - Pipes on 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

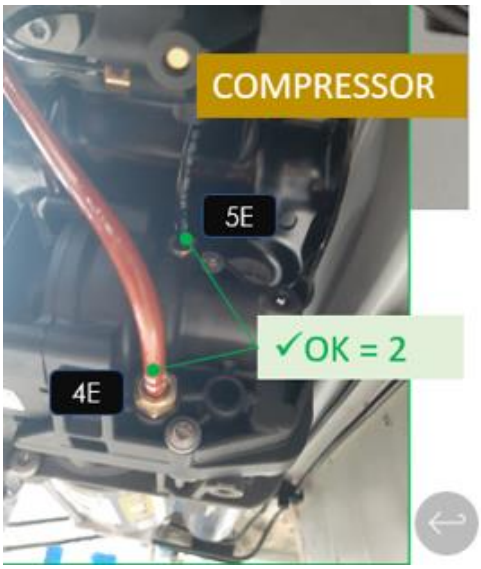
The insertion of the pipes into the fittings is correct if only the outermost reference marking (in relation to the pipe) is visible.

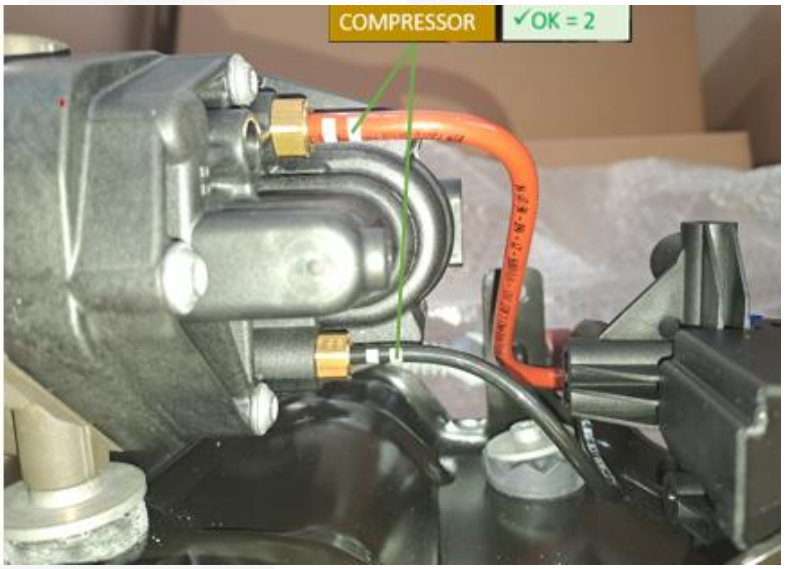
Area 5 - Shock absorber top mount upper part check

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 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 ▪ ICE/MHEV leak detection ▪ BEV leak detection	 6.90.001.C (1.50 h) 6.90.001.D (2.00 h)