Diagnostic Sheet
FROM: Maserati TSO
TO: Maserati Network

Maserati
PERSONAL SERVICE LAB
MASTERS OF CARE

TECHNICAL SERVICE OPERATIONS

Grecale –Wheel Hub Clicking Noise

IMPORTANT NOTICE **This bulletin supersedes MAS004418 BOL 24-31 released on October 24, 2024. It includes updated diagnostic procedures. Please discard all previous versions.**

DATE: JULY 9, 2025

This Diagnostic Sheet serves as a guide and provides additional diagnostic info for possible axle shaft noise.

MODELS: M182 Grecale ICE ONLY(All MY). **Not applicable to BEV versions.**

CONCERN: A clicking noise may be heard from the front or rear wheel hubs during low-speed maneuvers or driving with the wheels straight. **Refer to the included videos for noise examples.**

Overview

There are two scenarios based on engine type and driving conditions:

1. MHEV and V6 Engines – Clicking Noise in Reverse or When Starting Off From a Stop
2. V6 Engine – Cyclic Clicking Noise While Steering at Low Speed (< 5 km/h)

Repair Instructions (1) MHEV and V6 Engines – Clicking Noise in Reverse or When Starting Off From a Stop

1. Road test to duplicate the noise and record a video at the source of the noise.
2. On the affected axle: Remove the M24 axle nut and Clean hub grooves and threads with brake cleaner

3. Apply copper paste to the CV joint flange and replace the wheel bearing assembly with a new M24 axle nut.

Wheel bearing assembly PNs: (Section 04.90 – 1)
- Front: P/N 670354877
- Rear: P/N 670354878
- Install a new M24 nut.

Torque Specifications:
- Approaching Torque: 150 Nm (110.6 ft-lb)
- Unscrewing Angle: 90° (1.57 rad)
- Pre-Torque: 70 Nm (51.6 ft-lb)
- Final Torque Angle: 47° (0.82 rad)
- Control Torque Range: 200–380 Nm (147.5–280.3 ft-lb)

4. Perform a road test to confirm noise is no longer present.

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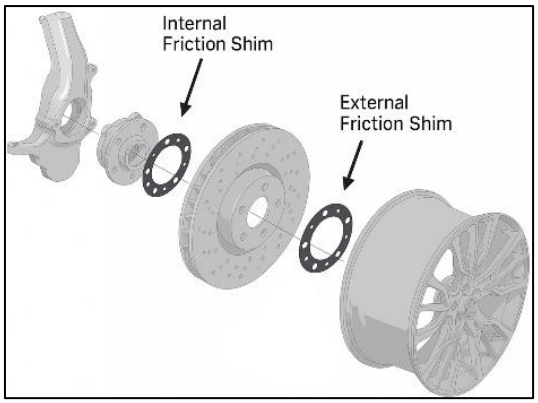
Repair Instructions (2) V6 Engine – Cyclical Clicking Noise While Steering at Low Speed (< 5 km/h)

1. Road test to duplicate the noise and record a video at the source of the noise.

2. Order Friction Ring Kit: P/N 670358434



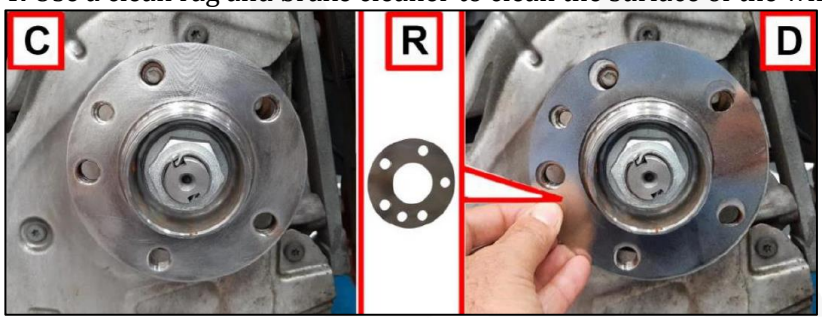
Perform this repair ONLY if this symptom can be duplicated. DO NOT perform this repair for any other symptom.

STEPS 1-5 Installing the Internal Friction Shim
STEPS 6-7 Installing the External Friction Shim

3. Follow the workshop manual procedure #04.10.00X to remove the brake disc and thoroughly clean the contact surfaces of the brake disc on both sides, external (A) and internal (B).

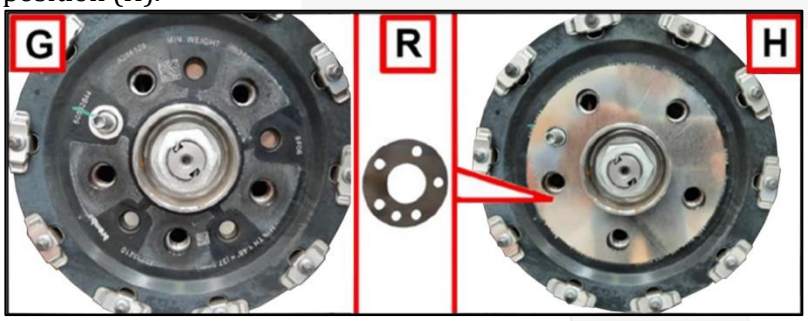
NB: image used for example purposes only; the brake disc may differ from the one present in the vehicle.

4. Use a clean rag and brake cleaner to clean the surface of the wheel hub (C). Install the Shim (R) to the Hub (D).



5. Reassemble the brake disc to the wheel hub.

6. Install the Shim (R) to the external surface of the brake disc (G). Make sure the shim remains centered in position (H).



NB: image used for example purposes only; the brake disc may differ from the one present in the vehicle.

7. Reassemble the wheel and torque the lug nuts to spec (120Nm). Perform a road test to confirm noise is no longer present.

If the Noise Persists

- Open a Blue On Line case as a "Support Request." (Mandatory)
- Include video evidence and details of all diagnostic and repair steps performed.

Warranty Requirements

- Submit diagnostic proof as outlined in this bulletin with any warranty claim.
- Attach documentation to the Blue On Line case or claim as required.
- Incomplete claims or those lacking required evidence may be denied.

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