

AfterSales BOL Technical Information



MAS002759

(BOL 21-29)

From: AfterSales – TSO
To: Maserati Network
Auburn Hills, MI.
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ADAS functions not available

Section: 08.73-1 DRIVE ASSISTANCE SYSTEM

Model: M156/M157/M161 from MY21

Problem: Messages in the Instrument Panel Cluster related to malfunctions or unavailability of ADAS (Advanced Driver Assistance Systems). While accelerating, if a vehicle speed exceeds 182 km/h (110 mph) and when applying torque to the Steering Wheel (e.g. for lane changes), even with the reduction of the vehicle speed below the activation threshold of the ADAS system, as summarized in the Table 1, the ADAS functionality keeps being unavailable. Examples of messages are shown in Figure 1.



Figure 1: Warning messages related to ADAS functions unavailability. On the left “Active Driving Assist | not available | Service required”, on the right “Lane Keeping Assist | not available”.

Errors in ECUs:

Possible DTCs in DASM ECU:

U0420-29 - Invalid Data Received from Power Steering Control Module "A"-Signal Invalid

Possible DTC in EPS ECU:

U141E-00 – Implausible Data Received from Cruise Control Switch

Actions:

As described in the Owner's Manual, section 6 Driver Assistance Systems (as shown in Figure 2), the ACC (Adaptive Cruise Control) and FCW (Forward Collision Warning) service warning light may be due to temporary unavailability of the systems and may temporarily persist until the next ignition cycle.



ACC and FCW systems will recover operation after the vehicle has left these areas. Under rare conditions, when the radar is not tracking any vehicles or objects in its path this warning may temporarily occur.

If weather conditions are not a factor, the driver should examine the sensor. It may require cleaning or removal of an obstruction. The sensor is located in the center of the front grille, behind the Maserati trident.

To keep the ACC System operating properly, it is important to note the following maintenance items:

- Always keep the sensor clean. Carefully wipe the sensor lens with a soft cloth. Be cautious not to damage it.
- Do not remove any screws from the sensor. Doing so could cause an ACC system malfunction or failure and require a sensor realignment.
- If the sensor or front end of the vehicle is damaged due to a collision, see your authorized dealer for service.
- Do not attach or install any accessories near the sensor, including transparent material or aftermarket grilles. Doing so could cause an ACC system failure or malfunction. When the condition that deactivated the

system is no longer present, the system will return to the "Adaptive Cruise Control Off" state and will resume function by simply reactivating it.

NOTE:

If the radar sensor wipe warning message occurs frequently (e.g. more than once on every trip) without any snow, rain, mud, or other obstruction, have the radar sensor realigned at an Authorized Maserati Dealer.

Clean Front Windshield Warning

This warning will display and a signal will indicate when conditions temporarily limit system performance due to failed signal reception. This most often occurs at times of poor visibility, such as in snow or heavy rain and fog. The ACC and FCW systems may also become temporarily blinded due to obstructions, such as mud, dirt, or ice on the windshield and fog on the inside of glass or when driving in bad weather. In these cases, the system will have degraded performance.

The ACC and FCW systems will recover operation after the vehicle has left these areas. Under rare conditions, when the camera is not tracking any vehicles or objects in its path this warning may temporarily occur.

If weather conditions are not a factor, the driver should examine the windshield and the camera. They may require cleaning or removal of an obstruction.

When the condition that created limited functionality is no longer present, the ACC and FCW systems will return to full functionality.

NOTE:

If the windshield wiper warning message occurs frequently (e.g. more than once on every trip) without any snow, rain, mud, or other obstruction, have the windshield and forward-facing camera inspected at an Authorized Maserati Dealer.

Service ACC/FCW Warning

If the ACC and FCW systems turn off, and the system displays a **service warning**, there may be an **internal system fault** or a temporary malfunction that limits functionality.

Although the vehicle is still driveable under normal conditions, **ACC and FCW will be temporarily unavailable**. If this occurs, try activating ACC and FCW again later, **following an ignition cycle**.

If the problem persists, contact an **Authorized Maserati Dealer**.

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Figure 2: Abstract of the Owner's Manual concerning temporary unavailability of the ACC (Adaptive Cruise Control) and FCW (Forward Collision Warning) ADAS functions.

The association between the ADAS systems and the threshold speeds is summarized in Table 1.

Table 1: Calibration thresholds of the ADAS systems.

ADAS system	Threshold speed (km/h) (MPH)	
ADA (ACC+LKA, Adaptive Cruise Control + Lane Centering (LC) All Road)	145	90
ABSA (Active Blind Spot Assist)	180	110
BSA (Blind Spot Assist)	180	110
LKA (Lane Keeping Assist)	180	110
FCW (Forward Collision Warning)	250	155
ACC (Adaptive Cruise Control)	210	130
CC (Cruise Control)	210	130

Considerations:

If a KIN OFF-KIN Run Cycle (Key off/key on) resolves the issue, the complaint described in the **Problem** section is not to be considered as an issue because this is an extreme manoeuvre currently under investigation by Maserati: it is a behaviour related to redundant control logics due to safety reasons, introduced with MY21 ADA system.

If the problem persists despite the KIN OFF-KIN Run cycle, please submit a BOL for a Support Request.