



**Maserati**

PERSONAL SERVICE LAB

MASTERS OF CARE

## DC/DC Converter Failure

**IMPORTANT NOTICE** This bulletin supersedes MAS004559 MCL 25-04 released on February 4, 2025. It contains updated information, please ensure all previous versions are discarded.

DATE: OCTOBER 3, 2025

This bulletin provides diagnostic and warranty guidance for **DC/DC converter (APM)** failures in Maserati MHEV models. The DC/DC converter manages the energy flow between the 12V system and the 48V Belt Starter Generator (BSG/MCPA).

**SECTION:** 08.20.4 Energy generation and accumulation

**MODELS INVOLVED:** Grecale (M182) MHEV version (All MY)

### Important Note

Throughout this bulletin, reference is made to **DTC P0A8F**.

- This does **not** refer to a single code.
- **P0A8F is a prefix**, meaning any DTC that begins with **P0A8F** (e.g., P0A8F00) is included in the scope of this bulletin.

## Condition

A significant number of DC/DC converters have been returned from the field showing **failures caused by external electrical overstress** when the engine was off.

This condition is generally related to **misuse of the 12V electrical system**, such as:

- Performing an incorrect sequence during a jump-start procedure
- Improper use of external equipment to charge the 12V battery

When this type of misuse occurs:

- The APM (DC/DC Converter) stores **DTC P0A8F**.
- There is **no record of voltage-related problems during the previous driving cycle**.

By contrast, if the APM experiences a genuine issue while the vehicle is running, the vehicle scan report will typically show:



- **Multiple low-voltage P-codes** across several systems (for example, ECM DTC P0562).
- The parameter "**ECU time stamp from ignition ON**" – **RDI 1009** will be **greater than 10 seconds**, confirming that the vehicle was driving at the moment the fault was triggered.

**Note:** In these cases, the MCPA may appear as "non-communicating" in MDEvo, even though it is functioning correctly. This should not be considered a fault and must not be investigated further.

# Diagnostic Instructions

When a vehicle presents an **active "P0A8F" DTC**:

**Reminder:** P0A8F refers to the **entire DTC family**. This includes **all codes beginning with P0A8F** (for example, P0A8F00).

1. Verify if **ECM DTC P0562** is present.
  -  If not → Misuse confirmed → Not warranty.
  -  If present → Check **RDI 1009**.
2. Check **RDI 1009 – "ECU time stamp from ignition ON."**
  - If **< 10 seconds** → Misuse confirmed → Not warranty.
  - If **> 10 seconds** → Misuse not confirmed → Open a **BOL Support Request** with the complete scan report.

## Example of RDI 1009 via P0562 DTC Freeze Frame Data

**13.8. 056200 - System Voltage Low-**  
Raw Response

```
590405620026012d100801e0d510090000200affff20010cf61004391921040000000000004001002000010000000201e00f5100e02020b2a021e00021800000300b
a0231373a02249063b028a3f023a01af023865ca924501960262c43802787f87027e10070207ff021a039a021b0c36021c026202393339027aff5051100052001fc088
025a71986000019870000340a0000340e04ff130b6e073a410ff005870000051200051500052701a005300000053f00055000022a100801e0e110090000200a0c82
0010cf610042b19210400000000000004001002000010000000201e00f8100e02020c2a021e000218000003009f0231371302490688028a40023d01390238655a024
500002629bc02787f87027c10070207ff021a03f9021b0cb2021c021202393339027aff5051f0a0520007a058021531986000019870000340a0000340e04ff130b0
d643a410ff005873200051232051506052702d605300000053f5405500e
```

Environment conditions flags

|   |            |
|---|------------|
| Test Failed                               | False      |
| Test Failed This Operation Cycle          | True       |
| Pending Diagnostic trouble code           | True       |
| Confirmed Diagnostic trouble code         | False      |
| Test Not Completed Since Last Clear       | False      |
| Test Failed Since Last Clear              | True       |
| Test Not Completed This Operation Cycle   | False      |
| Warning Indicator Requested               | False      |
| Snapshot Record Number                    | 01         |
| DTC Snapshot Record Number Of Identifiers | 2d         |
| ECU time stamp ID                         | 1008       |
| ECU Life Time                             | 123093 min |
| ECU time stamp from ignition ON ID        | 1009       |
| <b>ECU time since ignition ON</b>         | <b>0s</b>  |
| Ignition On counter ID                    | 200a       |
| Ignition On counter                       | 65535      |
| Odometer ID                               | 2001       |
| Odometer                                  | 53088 km   |
| Battery Voltage ID                        | 1004       |
| Battery voltage                           | 5.7 V      |
| Operational Mode Status ID                | 1921       |
| Command Ignition Status #2 - Reserved (1) | Reserved   |
| Command Ignition Status #2 - Reserved (2) | Reserved   |
| Command Ignition Status #2 - Reserved (3) | Reserved   |

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## Notes

- Claims must be fully documented with scan reports.
- Maserati reserves the right to reject warranty claims not supported by proper diagnostic evidence.
- Cases confirmed as misuse (such as incorrect jump-starting or improper external 12V charging) are not eligible for warranty coverage.