



PERSONAL SERVICE LAB

MASTERS OF CARE

MAS003045 ECM – Troubleshooting DTC C12900 & 400700

DATE: MAY 16 2023

The purpose of this document is to provide diagnostic guidance if fault codes C12900 and 400700 are stored in the ECM.

MODELS: M15x/M161V6 gasoline (MY16 to MY21)**SECTION:** 01.90 – 2 – IGNITION CONTROL UNIT**ISSUE:** MIL illuminated in the cluster.**CONDITIONS:** No specific conditions.**DTC in ECU:** Faults stored in the ECM:

- C12900 Lost Communication with Brake System Control Module
- 400700 Start & Stop system not available (this fault code may not be decoded by MD Evo).

The above fault codes may be caused by a low state of charge of the 12 V battery. For this reason, it is recommended to perform a battery test. If the tester gives the result " Battery is good but needs charging", perform a 12 V battery recharge (and check the possibility of deleting the fault codes from the ECM).

If the test reports "the battery has failed", open a BOL to request authorization to replace the 12 V battery). After the replacement, clear ECM fault codes and verify if the repair was performed successfully.

Should the problem persist, verify the Part Number of the Battery Positive Wiring (i.e. the one from the Battery Positive Pole to the Engine Firewall junction, see Figure 1) and the Part Number of the Recharge Wiring, as shown in Figure 1. Examples of the Traceability Labels that can be found in Vehicle are shown in Figure 2. Open a BOL as "Support Request" reporting the information related to those harnesses.

CA0011 - Recharge wiring
CA0011 - Recharge wiring



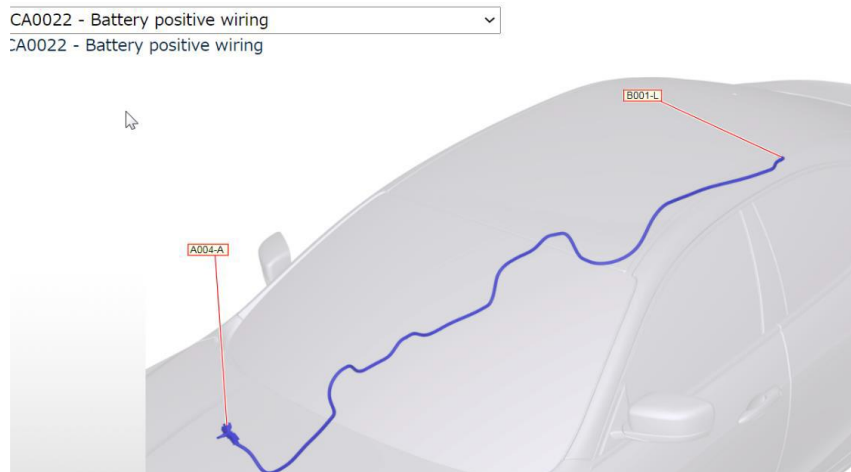


Figure 1: position of the Recharge Wiring (upper picture) and of the Battery Positive Wiring (lower picture).



Figure 2: examples of the Traceability Labels of the Battery Positive Wiring (left) and the Recharge Wiring (right).