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Multiple lights for this Mazda



2012 Mazda CX-5

This 2012 Mazda CX-5 was referred to us from another workshop. It was low on power and had its tyre-pressure monitoring system (TPMS), check engine light (CEL) and dynamic stability control (DSC) lights on.

The first step was plugging in the Launch X431 scan tool and scanning for fault codes. The following came up:

4x4 system code **U0401** – Invalid data received from ECM.

ABS code **U0401** – Invalid data received from ECM.

Engine code **P0472** – Exhaust-pressure sensor low input.

Decided to focus on the engine code, so plugged the Autel DS808 scan tool in to gain more info.

It brought up the following codes:

P0472:00-AF and **P0472** – Exhaust-pressure sensor A circuit low (both codes are for the same fault).

Cleared the codes but they all came straight back, so checked for information.

Not a lot was available but did manage to obtain the diagnostic procedure for this code from the local dealer.

There are two sensors, one a differential pressure sensor and the other a regular pressure sensor.

Checked the signal voltage from exhaust-pressure sensor A and its output voltage was not within specification.

If the input voltage at powertrain control module (PCM) terminal 1CE is less than 0.33V for four seconds, the PCM will determine that the exhaust gas-pressure sensor A circuit has a malfunction.

Unplugged the PCM and exhaust-pressure sensor A, then checked the wiring for continuity and shorts. It was fine.

Next came replacing exhaust-pressure sensor A, clearing the codes and road-testing the vehicle. The problem was solved.

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