



AFFECTED VEHICLES:

JEEP GRAND CHEROKEE II (WJ, WG) 2.7 CRD 4x4 ENF - fabriqué entre le 2001 et 2005

Symptom

P0720 - Output cam rotation speed sensor, faulty circuit.
P0836 - All-wheel drive switch, faulty circuit.
Engine warning light (MIL) ON.
Vehicle in low power or emergency mode.
Fault codes recorded in the engine control unit (ECM).

Cause

Fault in the transfer sensor wires. The cross-section of the sensor transfer wire is too small, which, in particular temperature and operating conditions, produces additional resistance in the sensor. This is interpreted by the engine control unit as an incorrect position of the sensor.

Solution

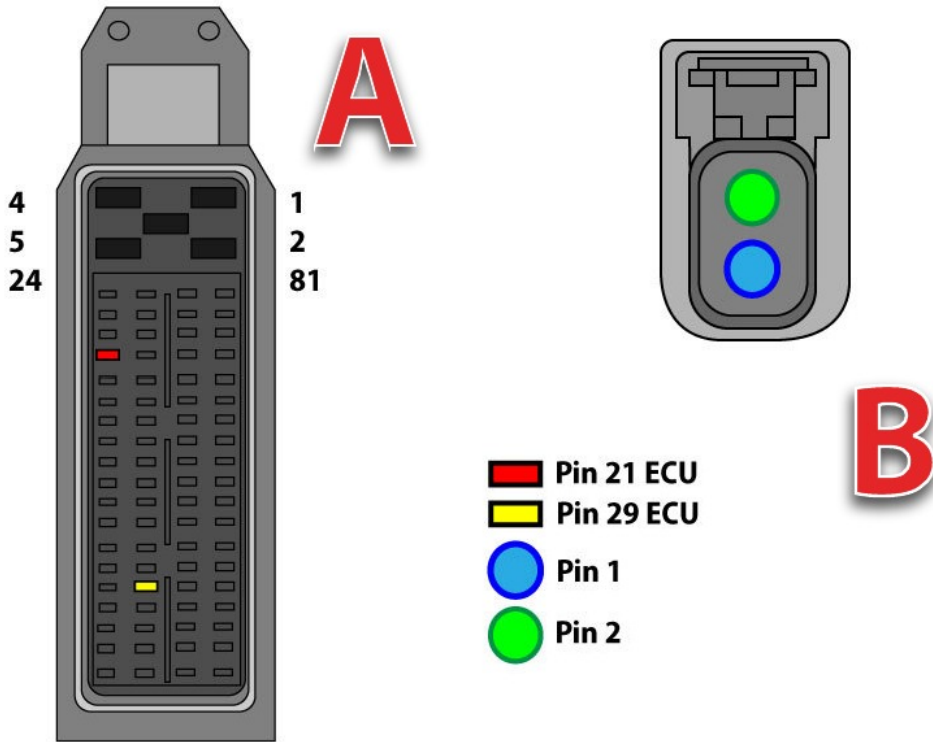
Repair procedure:

- Read the fault codes reported by the engine control unit (ECM) with the diagnostic tool.
- Delete the fault codes reported by the engine control unit (ECM) with the diagnostic tool.
- Solder a parallel wire to the transfer sensor ground wire (black/light blue wire), from Pin 21 of the engine control unit (ECM) to Pin 2 of the sensor connector.
- Solder a parallel wire to the transfer sensor signal wire (brown/ white), from Pin 29 of the engine control unit (ECM) to Pin 1 of the sensor connector.
- Correctly insulate the installed wires.
- Perform a road test.

NOTE: The minimum cross-section of the extra cables must be 1.5 mm.

See image 1:

A - Engine control unit (ECM) connector.
B - Transfer sensor connector.



See image 2:

A - Additional parallel wire for transfer of sensor signal.

