



SUBJECT

GM6 - Diagnosis: No Reverse and/or No Forward Movement Possible

MODEL

All with the GM6 Automatic Transmission (GA6L45R) produced up to 3/31/2009

SITUATION

The transmission warning lamp is on and the vehicle will not move either in reverse and/or in the forward gears. The engine speed only increases as if the transmission is in the Park or Neutral position.

One or more of the following fault codes may be stored in the EGS:

- 56B8 – EGS: Ratio Fault R
- 56B9 - EGS: clutch, gears 3, 5, and R
- 56BB - EGS: Clutch, gears 1, 4, 5, 6 and R: neutral test
- 56BD - EGS: Clutch, gears 2 and 6: neutral test
- 56BF - EGS: Clutch, gears 1, 2, 3 and 4: neutral test

CAUSE

The cause may be due to a broken gear selector valve on transmissions with a serial number less than 593323.

CORRECTION

The test plan for these faults normally will provide a diagnostic code to replace the Mechatronic; however, the gear selector valve is now available as a replacement part.

In order to properly confirm the diagnosis, it is recommended to submit a TC PuMA case to the GM Transmission group with all of the required information, as described in [SI B24 24 07](#).

The GM specialist will analyze the information and can provide authorization for the repair to be performed.

PARTS INFORMATION

Part Number	Description	Quantity
24 33 7 617 803	Gear selector valve	1

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty, or the Certified Pre-Owned program.

Defect Code: **24 00 32 66 00**

Labor Operation: **Labor Allowance:** **Description:**

00 00 006* Refer to KSD2 Performing vehicle test

24 33 530+ Refer to KSD2 Replacing selector slide valve

*Main Work – Only one main labor operation (ending with 000-499) may appear on any claim or group of claims (warranty, maintenance or campaigns) that are generated from the same repair visit.

All other labor operations on the same line or other lines must be claimed using plus code labor operations (KSD2 labor operations that have a (+) prefix and the last three digits are 500 or a higher number), if one is available.

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