



# Important!

Please give copies to all your VW Technicians

# Technical Bulletin

**Subject: Transmission Related Diagnostic Trouble Codes (DTCs) – Improper MIL Illumination**

**Group: 01**

**Number: 00-01**

**Model(s): New (Cabrio, Golf, Jetta, Beetle) with Auto. Trans. and CAN - Bus**

**1998-2000  
see table (page 3)**

**Date: Jan. 28, 2000**

## Condition

Transmission in limp mode with no MIL illumination (it is also possible that the MIL has flashed but did not stay on).

The following symptoms accompany the transmission related DTC fault codes listed below:

- MIL illuminates once, for a short period
- MIL command "ON" message is stored
- Vehicle defaults to third gear, or a combination of second and third gear (limp mode)
- Shift indicator (in instrument cluster) changes to a dark back-ground.
- Shift indicator (in instrument cluster) does not function.

<b>Component description VAG 1552/1552 or VAS 5051 Scan tool</b>	<b>DTC-Scan Tool VAG 1551/1552 VAS 5051</b>	<b>DTC- Scan Tool Generic</b>	<b>Component description Generic Scan tool</b>
Solenoid Valve EV1 -N88-	00258	P0753	Shift Solenoid A - Electrical
Solenoid Valve EV2 -N89-	00260	P0758	Shift Solenoid B - Electrical
Solenoid Valve EV3 -N90-	00262	P0763	Shift Solenoid C - Electrical
Solenoid Valve EV5 -N92-	00266	P0773	Shift Solenoid E - Electrical
Solenoid Valve EV7 -N94-	00270	P0785	Shift Solenoid 7 - Electrical
Modulator Valve EM4 -N91-	00264	P0768	Shift Solenoid D - Electrical
Modulator Valve EM6 -N93-	00268	P0748	Pressure Control Solenoid
Multi-Function Switch -F125-	00293	P0705	Trans. Range Sensor Signal Interrupted



**Important!**

Please give copies to all  
your VW Technicians

# Technical Bulletin

<b>Component description VAG 1552/1552 or VAS 5051 Scan tool</b>	<b>DTC-Scan Tool VAG 1551/1552 VAS 5051</b>	<b>DTC- Scan Tool Generic</b>	<b>Component description Generic Scan tool</b>
Throttle Position Sensor -G69-	00518	P0725	Signal Out of Tolerance - Too High
Engine RPM Signal too High	00529	P0120	Signal Out of Tolerance - Too High
Vehicle Speed Sensor -G68-	00281	P0722	Signal Interrupted
Ignition Timing (CAN-Bus Error)	00545	P1780	Interruption in Signal - ECM / TCM
Final Drive Gear (mechanical fault)	00652	P0730	Final Drive Ratio Incorrect- Implausable Signal
Trans. Vehicle Speed Sensor (G38)	00297	P0715	No Signal - interruption in Signal
Trans. Control Module	65535	P0700	Trans. Control System Malfunction
Diagnosis	01192	P0740	Torque Converter Clutch Malfunction
CAN-Bus DriveFaulty <sup>1)</sup> No communication <sup>1)</sup>	01312	P1854	Data-Bus Powertrain Hardware Defective
CAN-Bus DriveFaulty <sup>1)</sup> No communication <sup>1)</sup>	01312	P1866	Data Bus Powertrain Missing messages
Engine Cotrol Module No communication	01314	P1850	Data-Bus Powertrain - Missing Message from Engine Contr.
Engine Cotrol Module No communication	01314	P1855	Data-Bus Powertrain Software version contr.

1) One of these displays in addition to the relevant  
component



# Important!

Please give copies to all your VW Technicians

# Technical Bulletin

## Production

New software levels introduced to correct MIL operation to comply with EPA and California ARB (OBD) regulations.

See following table for part number / EPROM levels of TCM's with corrected software.

<b>Transmission TCM Software Upgrades – 2000 MY OBD II with Automatic Transmission</b>					
<b>Model</b>	<b>Engine</b>	<b>TCM Part Number</b>	<b>TCM Eprom</b>	<b>Identified by</b>	<b>Introduced as of VIN</b>
Jetta GLS / GLX	2.8L VR6	01M 927 733 DJ	4603	Yellow Dot	3VW____YM415617
New Beetle	1.8L Turbo	01M 927 733 FB	4605	Yellow Dot	3VW____YM416603
Cabrio – A4	2.0L	01M 927 733 HC	4607	Yellow Dot	3VW____YM000001
New Beetle Jetta	2.0L	01M 927 733 HM	4604	Yellow Dot	3VW____YM417271 3VW____YM027617
Jetta New Beetle	1.9L TDI	01M 927 733 HK	4606	Yellow Dot	3VW____YM029140 3VW____YM415607

## Service

This improper MIL illumination is caused by a TCM programming design deficiency and cannot be corrected.

If a customer experiences automatic transmission related problems, along with the symptoms listed in this Technical Bulletin:

- Perform the designated repair procedures as described in the Repair Manual CD-ROM Automatic Transmission: Automatic Transmission 01M – On Board Diagnostics

DO NOT! Replace a TCM for listed condition unless repair procedures (per diagnosis in Repair Manual) require replacement.