

All M176 and M177 CEL with CAMTRONIC Faults.

Topic number	LI05.20-P-080192
Version	1
Function group	05.20 - Camshaft, camshaft adjustment
Date	1/14/26
Validity	Vehicles with M176 and M177 engines with CAMTRONIC
Reason for change	

Complaint

Customer states check engine light on in the dash.

Vehicle has one or more DTC's Present

P164B00, P164B09, P2B4400, P005A07, P005C07, P005A09, P005C09, P003C07, P2B5007, P003C09, P2B5009, P34C200, P34C109, P34C800, P34BE00, P34BD09

Cause

Software and Hardware

Remedy

1. Check for available Software updates for the Engine Control Unit ME N3/10. Perform update if available.
2. Check part numbers on ALL CAMTRONIC actuators to ensure latest part numbers are installed.
3. A177 982 03 03 and A177 982 17 00 should be replaced by A177 982 19 00
4. A177 982 02 03 and A177 982 16 00 should be replaced by A177 982 18 00
5. Remove engine cover and check for heat damage on the engine cover and wiring harness in the area above the engine compartment bulkhead and near the windshield.
6. In the event of wiring harness damage please open a TIPS case with photos of the harness and include a Lambda Line Graph Test for evaluation.

Disclaimer

NOTE: The information contained in this document is intended for use by trained, professional technicians with the knowledge to properly and safely perform diagnosis and repairs on Mercedes-Benz vehicles, using Mercedes-Benz approved tools and equipment. It informs service technicians about conditions that could occur in certain vehicles and provides information that could assist in proper vehicle diagnosis, service, or repair. It does not indicate that a defect is present in any vehicle referenced in this document nor does it imply warranty coverage. DO NOT assume that a symptom or condition, or a described cause of a symptom or condition, affects any particular vehicle or groups of vehicles, or that a described repair applies to any particular vehicle or groups of vehicles. There can be multiple causes resulting in the same or similar symptoms or conditions described in this document, and trained professional service technicians must use their diagnostic skills to make evaluations on a case-by-case basis. The information contained in this document does not guarantee warranty coverage nor does it extend the vehicle's warranty in any way.

Symptoms	
Power generation > Engine management > Indicator lamp > Engine diagnosis > lit	
Control unit/fault code	
Control unit	Fault text
N3/10 - Motor electronics 'MRG1AMGV8' for combustion engine 'M177' (ME) (MRG1AMGV8)	P34BD09 - The sensor signal of solenoid 1 'Exhaust' (cylinder bank 1) for CAMTRONIC has a malfunction. There is a component fault.
	P34BE00 - The sensor signal of solenoid 1 'Exhaust' (cylinder bank 1) for CAMTRONIC has a short circuit to ground. _
	P34C800 - The CAMTRONIC has a malfunction. _
	P34C109 - The sensor signal of solenoid 1 'Exhaust' (cylinder bank 2) for CAMTRONIC has a malfunction. There is a component fault.
	P34C200 - The sensor signal of solenoid 1 'Exhaust' (cylinder bank 2) for CAMTRONIC has a short circuit to ground. _
	P003C09 - Solenoid 1 'Intake' (cylinder bank 1) for CAMTRONIC has a malfunction or is jammed in the OFF position. There is a component fault.
	P003C07 - Solenoid 1 'Intake' (cylinder bank 1) for CAMTRONIC has a malfunction or is jammed in the OFF position. There is a mechanical fault.
	P005C09 - Solenoid 1 'Exhaust' (cylinder bank 2) for CAMTRONIC has a malfunction or is jammed in the OFF position. There is a component fault.
	P005C07 - Solenoid 1 'Exhaust' (cylinder bank 2) for CAMTRONIC has a malfunction or is jammed in the OFF position. There is a mechanical fault.
	P005A09 - Solenoid 1 'Exhaust' (cylinder bank 1) for CAMTRONIC has a malfunction or is jammed in the OFF position. There is a component fault.
	P005A07 - Solenoid 1 'Exhaust' (cylinder bank 1) for CAMTRONIC has a malfunction or is jammed in the OFF position. There is a mechanical fault.
	P2B5009 - Solenoid 2 'Intake' (cylinder bank 2) for CAMTRONIC has a malfunction or is jammed in the OFF position. There is a component fault.
	P2B5007 - Solenoid 2 'Intake' (cylinder bank 2) for CAMTRONIC has a malfunction or is jammed in the OFF position. There is a mechanical fault.
	P2B4400 - The sensor signal of solenoid 2 'Intake' (cylinder bank 2) for CAMTRONIC has a malfunction. _

XENTRY Tips

	P164B09 - System 'CAMTRONIC' is in limp-home mode. There is a component fault. P164B00 - System 'CAMTRONIC' is in limp-home mode. —
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Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note