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Technical Service Bulletins

Maintenance

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## CHECK ENGINE LIGHT ON, LOW ENGINE OUTPUT

### TECHNICAL SERVICE BULLETIN

Reference Number(s): P-B-09.41/22A, Date of Issue: April 19, 2006

 Model 170.466; Model 203.065; Model 211.076/276; Model  
 MERCEDES-BENZ: 215.374/376/379; Model 219.376; Model 220.174/176; Model  
 230.474/476/479

Superseded Bulletin(s): P-B-09.41/22, Date of Issue: December 21, 2005

## SUBJECT

**Model 170.466**
**Model 203.065**
**Model 211.076/276**
**Model 215.374/376/379**
**Model 219.376**
**Model 220.174/176**
**Model 230.474/476/479**
**Check Engine Light On, Low Engine Output**

## SERVICE INFORMATION

If you receive customer reports in the above model vehicles of the check engine light being on and/or the engine has poor output, this may be due to the circulation pump for low temperature circuit (charge air cooler) being nonfunctional. Possible fault codes are listed below.

### POSSIBLE FAULT CODES

Control Unit	Fault Code	Fault Text
ME-SFI 2.7.1	P20E1	Charge air coolant circuit: Charge air temperature is too high.
ME-SFI 2.7.1	P2002	M44 (charge air cooler circulation pump)

Control Unit	Fault Code	Fault Text
ME-SFI 2.8	P2027	Intake air temperature too high/Check coolant pump & additional radiator.
ME-SFI 2.8	P2006 (002)	B17/8 (Charge air temperature sensor): Short circuit to positive or open Circuit; or B2/5b1 (Intake air temperature sensor): Short circuit to positive or Open circuit.

The following are possible causes for the malfunction of the circulation pump:

Carbon brush is worn due to the effects of vibration and/or its switching cycles.

Water ingress in the pump housing.

Deposits of ingredients from the coolant in the pump chamber.

Magnetic clutch broken.

To resolve, perform the below remedy.

Check fuse for circulation pump controller according to model series. Replace fuse if necessary.

Check circulation pump (component M44) via DAS in the general listing of guided tests.  
Replace the circulation pump if the diagnosis results show replacement is necessary.

**NOTE:** It is imperative to bleed the system to complete the circulation pump replacement. Improved pump, part number A000 500 03 86, replaces part number A000 500 01 86. Old parts must not be re-used.

## PARTS INFORMATION

### PARTS INFORMATION

Qty.	Part Name	Part Number
1	Circulation pump	A000 500 03 86 <a href="#">(1)</a>
(1) Parts are in a critical supply situation and will be limited, please see the PAC weekly status report on parts availability status and delivery expectations. This report is located on the PAC website.		

## IN CASE OF WARRANTY

**NOTE:** The following allowable labor operations should be used when submitting a warranty claim for this repair.

**Operation:** Short test, perform (54-1011)

Fuse - specify location, replace (54-1286)

Test program - after short test, perform (54-1012)

Engine compartment panel, bottom - front part, R & R (61-1071)

Engine compartment panels - bottom front, R & R (61-1077)

Engine compartment panel, bottom - one piece version, R & R (61-1105)

Circulation pump - low temperature water circuit, R & R/replace (09-6925)

#### WARRANTY INFORMATION

Damage Code	Operation Number	Time (hrs.)	Model Indicator (s)	
50324 52	54 1011	0.3 hrs.	G4, M8, M9, N4, N5, N6, P3, R2, R3, R4, T3, U5, Y2	
	54 1286	0.1 hrs.	G4, M8, M9, N4, N5, N6, P3, R2, R3, R4, T3, U5, Y2	
	54 1012	0.5 hrs.	G4, M8, M9, N4, N5, N6, P3, R2, R3, R4, T3, U5, Y2	
	61 1071		0.2 hrs.	Y2
			0.3 hrs.	P3
			0.4 hrs.	T3, U5
			0.5 hrs.	M8, M9, N4, N5, N6
	61 1077	0.3 hrs.	R2, R3, R4	
	61 1105	0.2 hrs.	G4	
	09 6925		0.8 hrs.	T3, U5, Y2
			0.9 hrs.	M9, N5
			1.0 hrs.	G4, P3
			1.1 hrs.	R2
			1.3 hrs.	M8, N4
			1.4 hrs.	N6
2.8 hrs.			R3, R4	

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