

## Check engine light (CEL) on and low coolant indicator lamp lights up

Topic number	LI01.30-P-051567
Version	1
Design group	01.30 Cylinder head
Date	04-14-2011
Validity	M156 up to engine # 569xx 60 060658
Reason for change	

### Complaint:

CEL illumination, engine misfire, stalling, rough running low coolant indicator lights up.

No external coolant loss detectable. Coolant in the engine oil and/or in the combustion chamber

### Cause:

Cylinder head bolt broken. Engine coolant enters into engine oil. Coolant might be present in the combustion chamber. Affected engine number up to 1569xx 60 060658

### Remedy:

1. Remove cylinder heads.
2. Measure piston deck height (specified value: 0.18 mm +/- 0.05 mm). If the measurement from the top surface of the cylinder crankcase to the top surface of the piston is outside of the specification (the maximum deck height is 0.23 mm), the affected connecting rod with piston and bearings must be replaced.
3. Replace all cylinder head bolts.
4. Replace all hydraulic tappets.
5. Change engine oil and filter and replenish engine coolant.
6. Another oil change must be performed after about 15 mile test drive (engine must run at operating temperature).

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
N 000000 005754			Bolt	4		X
A 156 016 07 69			Bolt	20		X
A 156 016 04 20			Left cylinder head gasket	1		X
A 156 016 00 20			Right cylinder head gasket	1		X

Work units				
Op. no.	Operation text	Time	Damage code	Note
			01203 06	

WIS-References

Document number	Title	Note	Allocation
AP18.00-P-0101GZS	Engine oil and filter change	M156 in model series 209, 164, 251	Remedy
AP18.00-P-0101SMG	Engine oil and filter change	M156 in model series 216, 221	Remedy
AP18.00-P-0101TMG	Engine oil and filter change	M156 in model series 211, 219	Remedy
AR01.30-P-5800GZS	Remove/install cylinder head	M156 in model series 164, 251	Remedy
AR01.30-P-5800SMG	Remove/install cylinder head	M156 in model series 221, 216	Remedy
AR01.30-P-5800TMG	Remove/install cylinder head	M156 in model series 211, 219, 209	Remedy