

Check engine light illuminated, Fault codes stored in ME related to mixture formation

Topic number	LI01.30-P-072328
Version	1
Function group	01.30 - Cylinder head
Date	1/29/21
Validity	Passenger car with M260 or M264
Reason for change	

Complaint

Check engine light illuminated. Engine runs rough. Poor shifting or jerking when accelerating.

Fault codes stored related to mixture formation or injector quantity adjustment. Misfire faults may also be present.

Cause

Leaking valve seat in cylinder head.

Remedy

-Perform cylinder leakage check as noted in WIS group 01.00. If excessive leakage is found determine if leak is from intake or exhaust valves.

-If leakage is found from intake or exhaust valves, remove cylinder head and inspect valve seats.

-The complete cylinder head must be replaced if valve seat damage is found. The valve seats can not be reworked.

Symptoms
Power generation > Engine management > Engine running > Surges
Power generation > Engine management > Engine running > Runs rough/shakes
Power generation > Engine management > Indicator lamp > Engine diagnosis > lit
Power generation > Engine management > Engine performance > No/poor output
Power transmission > Automatic transmission > Function > Engaging process
Power transmission > Automatic transmission > Function > Shifting is rough
Power transmission > Automatic transmission > Function > Poor shift quality

Control unit/fault code	
Control unit	Fault text
N3/10 - Motor electronics 'MED41' for combustion engine 'M260/M264' (ME)	P030485 - Combustion misfiring of cylinder 4 has been detected. There is a signal above the permissible limit value.

XENTRY TIPS

	<p>P030385 - Combustion misfiring of cylinder 3 has been detected. There is a signal above the permissible limit value.</p> <p>P030285 - Combustion misfiring of cylinder 2 has been detected. There is a signal above the permissible limit value.</p> <p>P030185 - Combustion misfiring of cylinder 1 has been detected. There is a signal above the permissible limit value.</p> <p>P030085 - Combustion misfiring has been detected. There is a signal above the permissible limit value.</p> <p>P1CEF85 - Injector injection quantity adjustment for cylinder balancing has almost reached the upper limit value at at least one cylinder. There is a signal above the permissible limit value.</p> <p>P1CE577 - Injector injection quantity adjustment for uniform mixture formation has detected an excessively lean mixture at at least one cylinder. The commanded position cannot be reached.</p> <p>P219E77 - Mixture formation (cylinder 3) is irregular. The commanded position cannot be reached.</p> <p>P219F78 - Mixture formation (cylinder 4) is irregular. The adaptation or adjustment is incorrect.</p> <p>P219E78 - Mixture formation (cylinder 3) is irregular. The adaptation or adjustment is incorrect.</p> <p>P219F77 - Mixture formation (cylinder 4) is irregular. The commanded position cannot be reached.</p> <p>P219D78 - Mixture formation (cylinder 2) is irregular. The adaptation or adjustment is incorrect.</p> <p>P219D77 - Mixture formation (cylinder 2) is irregular. The commanded position cannot be reached.</p> <p>P219C78 - Mixture formation (cylinder 1) is irregular. The adaptation or adjustment is incorrect.</p> <p>P219C77 - Mixture formation (cylinder 1) is irregular. The commanded position cannot be reached.</p> <p>P1CE678 - Injector injection quantity adjustment for uniform mixture formation has detected an excessively rich mixture at at least one cylinder. The adaptation or adjustment is incorrect.</p>
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Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note