SB-10059094-9585

SI M11 02 15
Engine

June 2015
Technical Service

This Service Information bulletin supersedes SI M11 02 15 **dated April 2015.**

🆕 designates changes to this revision

SUBJECT
B38 and B48 Engines: Rough Running and Various Faults for Camshaft Sensor Signal and VANOS Control Stored in the DME

MODEL
F56 (Cooper and Cooper S)

F55 (Cooper Clubman and Cooper Clubman S)

SITUATION
The engine runs rough and the malfunction warning is illuminated. One or more of the following faults are stored in the DME:

🆕 130104 Variable camshaft timing control, intake: Control fault, camshaft jamming

🆕 130108 Variable camshaft timing control, intake: Control fault, position not reached

🆕 130304 Variable camshaft timing control, exhaust: Control fault, camshaft jamming

🆕 130308 Variable camshaft timing control, exhaust: Control fault, position not reached

🆕 130E11 Intake camshaft sensor, plausibility: Signal implausible

🆕 130E20 Intake camshaft: Angle offset with respect to the crankshaft lies outside tolerance range

🆕 130F20 Exhaust camshaft: Angle offset with respect to the crankshaft lies outside tolerance range

🆕 131401 Variable camshaft timing control, exhaust, cold start: Cannot be controlled

🆕 131501 Variable camshaft timing control, intake, cold start: Cannot be controlled

🆕 131808 Variable camshaft timing control, exhaust, cold start: Position not reached

🆕 131908 Variable camshaft timing control, intake, cold start: Position not reached

CAUSE
DME software error and/or a mechanical failure of the VANOS actuators, camshafts and the VANOS central bolt valves.

PROCEDURE

1. Program the vehicle using the latest version of ISTA/P (3.55.0 or higher).

F Series	Target Integration Level
F55 and F56	F056-14-07-502 or higher

Note that ISTA/P will automatically reprogram and code all programmable control modules that do not have the latest software.

Always connect a MINI approved battery charger/power supply (SI M04 10 09**).**

For information on programming and coding with ISTA/P, refer to Centernet / Aftersales Portal / Service / Workshop Technology / Vehicle Programming.

2. After programming is complete, verify the complaint is rectified by starting the engine. If the vehicle starts up and operates correctly, do nothing further.

   If the engine malfunction warning is illuminated, the vehicle runs rough, and has one of the above listed faults stored in the DME, go to step #3.

3. NEW Replace the VANOS adjustment units for both camshafts.

   Refer to repair instruction 11 36 046, "Removing and installing or replacing intake and exhaust camshaft adjusters."

PARTS INFORMATION

Part Number	Description	Quantity
11 36 7 608 788	VANOS adustment unit, intake camshaft	1
11 36 7 608 789	VANOS adustment unit, exhaust camshaft	1

WARRANTY INFORMATION
Covered under the terms of the MINI New Passenger Car Limited Warranty or the MINI NEXT Certified Pre-Owned Limited Warranty.

Steps 1 and 2 only:

Defect Code:	10 42 31 59 00	
Labor Operation:	**Labor Allowance:**	**Description:**
00 00 006	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults)
And:		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply (indicated in KSD 2 as Charging battery)
And:		
61 00 730	Refer to KSD2	Programming/encoding control unit(s)

Steps 1 through 3:

Defect Code:	11 36 01 29 00	
Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults)
And:		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply (indicated in KSD 2 as Charging battery)
And:		
61 00 730	Refer to KSD2	Programming/encoding control unit(s)
And:		
11 36 546	Refer to KSD	Removing and installing or replacing the intake and exhaust adjustment units (includes labor for VANOS central valve)

If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead.

Refer to KSD2 for the corresponding flat rate unit (FRU) allowances.

Vehicle Programming/Encoding

NEW If a control module or component was working properly and/or had no related faults stored prior to vehicle programming and it fails to program correctly or requires initialization, this additional work must be claimed with separate labor operations (refer to KSD2) under the defect code listed above.

Repairs to address control modules and/or components with pre-existing conditions are not eligible to be claimed under the defect code listed in this bulletin.

Overlapping Labor – Other Repairs

If invoicing additional KSD2 flat rate labor operation codes for the other repair work results in overlapping labor being claimed, invoice work time labor operation 00 50 000 instead for the additional time (FRU) minus the overlap.

On the repair and in the claim comment section, please identify the labor operation that labor operation code(s) 00 50 000 replaces and itemize the claimed FRU amount.

Even though work time labor operation code 00 50 000 ends in "000," it is not considered a Main labor operation. When work time labor operation 00 50 000 is being used for work that will be claimed under different defect codes, separate punch time(s) are required.