| SI M12 07 18 | March 2018 |
| Engine Electrical Systems | Technical Service |

ROUGH RUNNING WITH VARIOUS VANOS FAULTS

MODEL

F54 (Cooper, Cooper S, JCW Clubman)	F55 (Cooper, Cooper S, JCW Hardtop 4 door)	F56 (Cooper, Cooper S, JCW Hardtop 2 door)	F57 (Cooper, Cooper S, JCW Convertible)
F60 (Cooper, Cooper S, JCW Countryman)			

With the B36M, B38M, B46M, B48M, B48O, or XB2H engine produced to 3/14/18.

SITUATION

The check engine light is illuminated and the vehicle may run rough.

This software error is only in the following integration levels:

- **F056-17-07-5xx**

- **F056-17-11-5xx**

One or more of the following faults can be stored in the Digital Motor Electronics (DME):

- 130E20 - Intake camshaft: Angular offset to the crankshaft out of tolerance

- 130104 - VANOS, intake: Control fault, camshaft jams

- 130715 - VANOS, intake: Control fault, camshaft jams

- 130108 - VANOS, intake: Control fault, position not reached

- 130713 - VANOS, intake: Control fault, position not reached

- 130F20 - exhaust camshaft: Angular offset to the crankshaft out of tolerance

- 130308 - VANOS, exhaust: Control fault, position not reached

- 130714 - VANOS, exhaust : Control fault, position not reached

- 130304 - VANOS, exhaust : Control fault, camshaft jams

- 130716 - VANOS, exhaust: Control fault, camshaft jams

- 13070B - VANOS, intake, cold start: not controllable

- 130709 - VANOS, intake, cold start: Position not reached

- 13070C - VANOS, exhaust, cold start: not controllable

- 13070A - VANOS, exhaust, cold start: Position not reached

CAUSE

A software error in the Digital Motor Electronics (DME)

CORRECTION

Update the vehicle software using **ISTA 4.10.1x.**

PROCEDURE

For conditions that are similar to the situation described:

1. Perform diagnosis with the latest version of ISTA Next.

2. Program the vehicle with **ISTA 4.10.1x** or higher to the appropriate I-level shown below.

Model	Target Integration Level
F54 (Cooper, Cooper S, JCW Clubman)	**F056-18-03-512** or higher
F55 (Cooper, Cooper S, JCW Hardtop 4 door)	
F56 (Cooper, Cooper S, JCW Hardtop 2 door)	
F57 (Cooper, Cooper S, JCW Convertible)	
F60 (Cooper, Cooper S, JCW Countryman)	

Note that ISTA Next 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 (SIM04 08 09**).**

For information on programming and coding with ISTA, refer to CenterNet / TIS / Technical Documentation / Programming and Diagnostics / Programming Documentation

WARRANTY INFORMATION

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

Defect Code:	1136019600	
Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Main work)
Or:		
00 00 556	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Plus work)
And:		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply (indicated in KSD2 as Charging battery)
And:		
61 00 730	Refer to KSD2	Program/encode control unit(s)

If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead of 00 00 006.

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

During the same workshop visit, if a vehicle also requires another Technical Campaign or repair that also includes programming and encoding the control units, the programming procedure may only be invoiced one time.

Vehicle Programming and Encoding

A. The programming procedure automatically reprograms and encodes all vehicle control modules which do not have the latest software i-level. If one or more control module failures occur "during" this programming procedure:

• Please claim this "consequential" control module-related repair work under the defect code listed in this bulletin with the applicable KSD2/AIR labor operations.

Please explain this additional work (The why and what) on the repair order in the claim comments section.

B. For control module failures that occurred "prior" to performing this programming procedure:

• When "covered" under an applicable limited warranty, claim this control module-related repair work using the applicable defect code and labor operations (including diagnosis) in KSD2/AIR.