

March 2017 Technical Service

FAULT 118002 - MIXTURE TOO RICH SETS DURING WINTER WITH COLD AMBIENT TEMPERATURES

What's New:

• In the Warranty Information section: defect code, labor operations and additional information are updated

New information provided by this revision is preceded by this symbol UPDATED.

This Service Information bulletin supersedes SI M11 01 17 dated February 2017

MODEL

10022			
F54 (Cooper Clubman)	F54 (Cooper S Clubman)	F55 (Cooper Hardtop 4 door)	F55 (Cooper S Hardtop 4 door)
F56 (Cooper Hardtop 2 door)	F56 (Cooper S Hardtop 2 door)	F56 (John Cooper Works Hardtop)	F57 (Cooper Convertible)
F57 (Cooper S Convertible)	F57 (John Cooper Works Convertible)	F60 (Cooper Countryman)	F60 (Cooper S Countryman)
F54 (JCW Clubman	F56 (JCW Hardtop 2 door)	F57 (JCW Convertible)	

With the B36, B38, B46, and B48 engines

SITUATION

The Service Engine Soon (MIL) light is on with the following fault stored in the DME.

· Fault: 118002 - Mixture too rich

In the situation being described, the fault is only stored during the "cold winter months along with the use of winter fuel."

Various other causes for a rich mixture fault are possible and should not be overlooked.

CAUSE

- · DME software diagnostic is too sensitive
- This situation is most likely to occur if the driving profile is one of frequent cold engine starts and/or primarily short distance trips (idle / low load operation) where full engine operating temperature is not reached.
- Due to the lower engine oil temperatures crankcase vapors that contain a higher fuel content are not completely drawn off via the crankcase ventilation system.

· A false DME adaptation routine could then lead to this fault being set.

PROCEDURE

This situation remains under technical analysis and an improved DME software diagnostic is being planned for a future ISTA Next release

Until then the following procedure is recommended

Do not replace any parts unless a definite failure is identified during diagnosis.

Perform diagnosis using the latest version of ISTA Next.

1. Check the current mixture adaptation:

Path: ECU function - DME / Diagnostic scan / 721 Mixture Adaptation



Note: Let the engine idle at operating temperature. If the mixture adaptation drops significantly below 1.0 it

indicates a rich mixture condition.

2. Replace the engine oil and filter on a warm engine.

Refer to SI M11 01 15: Engine Oil Quick Reference and Drain Plug Torque

Do not reset the CBS for engine oil service unless the oil service shows to be currently recommended or due on the key reader.

3. For vehicles produced up to 11/2015 check the current software integration level.

Programming is only required if the integration level is earlier than Target: F056-15-11-500 or higher.

When programming always use the latest version of ISTA Next or ISTA/P.

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

Always connect a MINI approved battery charger/power supply (SI M04 08 09).

PARTS INFORMATION

Part Number	Description	Quantity
11 42 8 570 590	Oil filter	1
83 21 2 365 955	MINI Original Engine Oil LL14FE+ 0W-20	B36/B38 – 4.25 liters
Or		
B46/B48 – 5.5 liters		



WARRANTY INFORMATION

Covered under the terms of the MINI New Passenger Car Limited Warranty.

When the engine oil service task does not show "Recommended, "Due" or does not "qualify" to be performed based on the "60-day Bundling (SI M01 06 13) or the MINI Maintenance Program has expired.

Defect Code:	1042315900	
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, as necessary:		
61 00 006	Work time (WT)	Performing vehicle diagnosis – test module
And:		
11 99 000	2 FRU	Change engine oil and filter (without CBS reset an and without performing the Standard Scope procedure) (Plus work – Vehicle is already in the workshop)

Work time labor operation code 61 00 006 is not considered a Main labor operation; however, it does require an individual punch time and an explanation on the repair order and in the claim comments section.

Work time labor operation code 11 99 000 is not considered a Main labor operation. Also, since the "work time" FRU allowance to be claimed is specified, a separate punch time is not required.

And:

Sublet - Engine Oil

Sublet Code 4	See sublet reimbursement calculation below	Reimbursement for the engine oil (MINI part number 83 21 2 365 955, please do not use this part number for a non-maintenance claim submission)
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Sublet reimbursement calculation for claiming the engine oil (MINI part number) is at dealer net plus your dealer's handling.

Enter this material cost in sublet and itemize the amount on the repair order and in claim comment section.

And, for:

Vehicles produced up to 11/2015 with a target integration level earlier than F056-15-11-500 or higher.

Labor Operation:	Labor Allowance:	Description:
61 00 730	Refer to KSD2	Programming / encoding control unit(s)

Or,



When the engine oil service task does show "Recommended, "Due" or does "qualify" to be performed based on the "60-day Bundling (SI M01 06 13) and the MINI Maintenance Program is active.

Covered under the terms MINI Maintenance Program as applicable.

Engine Oil Service Task - MINI Maintenance Program

Perform the Standard Scope (Main work: 00 00 105) and Engine Oil Service (Associated work: 00 00 610) tasks and "Reset" the CBS data.

Submit and claim for these maintenance service tasks under the applicable BMW Maintenance Program defect codes that apply.

And:

Covered under the terms of the MINI New Passenger Car Limited Warranty



Defect Code:	1042315900	
Labor Operation:	Labor Allowance:	Description:
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, as necessary:		
61 00 006	Work time (WT)	Performing vehicle diagnosis – test module

Work time labor operation code 61 00 006 is not considered a Main labor operation; however, it does require an individual punch time and an explanation on the repair order and in the claim comments section.

And, for:

Vehicles produced up to 11/2015 with a target integration level earlier than F056-15-11-500 or higher.

Labor Operation:	Labor Allowance:	Description:
61 00 730	Refer to KSD2	Programming / encoding control unit(s)

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

Work time labor operation code 61 00 006 is not considered a Main labor operation; however, it does require an individual punch time and an explanation on the repair order and in the claim comments section.

Vehicle Programming and Coding

When ISTA/P automatically reprograms and codes all the vehicle's control modules that currently do not have the latest software, and if 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.

Other Repairs

Control module failures that occurred prior to this programming procedure and/or additional work is performed as a result of performing the ISTA diagnostics and related test plans:

When covered under an applicable limited warranty, claim the control module-related and/or other repair work
using the applicable defect code and labor operations in KSD2/AIR.

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