



ENGINE MISFIRE DUE TO FAILED IGNITION COIL

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

This Service Information bulletin replaces SI B12 01 15 **dated May 2016**

What's New:

- Part number and description changed
- Procedure adjustment

MODEL

R55 (Cooper Clubman)	R56 (Cooper)	R57 (Cooper Convertible)	R58 (Cooper Coupe)
R59 (Cooper Roadster)	R60 (Cooper Countryman)	R61 (Cooper Paceman)	With the N16 engine

SITUATION

- The Check Engine or Service Engine Soon (MIL) lamp is on with misfire fault(s) stored in the DME.
- Intermittent performance or rough running without a relevant DME fault stored

The most likely cause is that an ignition coil has failed, which in many cases can be confirmed with basic diagnosis.

CAUSE

 During operation with high temperature fluctuations, the different materials used in the ignition coil construction can deteriorate over time, leading to a failure.

CORRECTION

The current ISTA misfire test plan for these engines can be lengthy to complete, and does not provide an effective method to diagnose a faulty secondary ignition component.

Begin basic diagnosis by reading the misfire counter in DME control unit functions. This will likely indicate the faulty coil without the need to remove the spark plugs for inspection.

Follow the ignition coil replacement procedure listed below.

Since the remaining ignition coils have been subjected to the same operating conditions, it will be necessary to follow the appropriate procedure listed below (specific to the engine variant), to ensure the best customer-oriented repair.

 For vehicles with the **N16** engine which have been in service for over 24 months or 10,000 miles, during the first service visit due to an ignition coil failure, replace ignition coils with the part number found in ETK

(Delphi).

UPDATE ! If misfire faults or rough running are still present, continue with further diagnosis as recommended in the misfire test plan.

PARTS INFORMATION

Part Number	Description	Quantity
UPDATE ! Refer to ETK	Delphi coil (N16)	Up to 4

UPDATE ! WARRANTY INFORMATION

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

Defect Code:	UPDATE ! 1213001200	
Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD2/AIR	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Main work)
Or:		
UPDATE ! 00 00 556	Refer to KSD2/AIR	Performing "vehicle test" (with vehicle diagnosis system – checking faults) (Plus work)
And:		
61 21 528	Refer to KSD2/AIR	Connect an approved battery charger/power supply (indicated in KSD 2 as Charging battery)
And, as necessary:		
12 00 009	Work time (WT)	Troubleshooting

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.

Work time labor operation code 12 00 009 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:

Replacing Coil(s) Only

Labor Operation:	Labor Allowance:	Description:
12 13 511	Refer to KSD2	Replacing one ignition coil
Or:		

12 13 512

Refer to KDS2

Replacing more than one ignition coil

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

Other Repairs

If performing the additional ISTA diagnostics and related test plans results in other eligible and covered work, claim this work with the applicable defect code and labor operations listed in KSD2.

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