



Please perform the procedure outlined in this Service Information on all affected vehicles before customer delivery. In the event the customer has already taken delivery of the vehicle, please perform the procedure the next time the vehicle is in the shop.

SUBJECT

Service Action: S63 Engine – Check and Replace High-Pressure Injectors

MODEL

E70 (X5M)

E71 (X6M)

SITUATION


The high-pressure injectors may fail, resulting in an engine malfunction warning and reduced engine output.

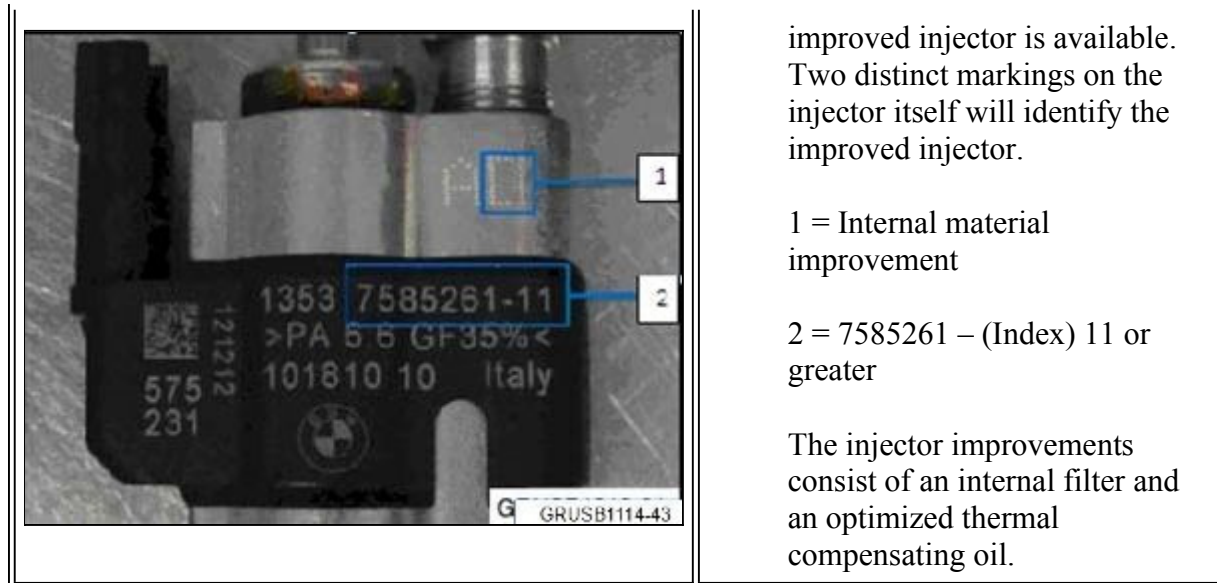
AFFECTED VEHICLES

This Service Action involves E70 and E71 vehicles with the S63 engine produced from March 1, 2009 to April 30, 2013.

Vehicles which require this Service Action to be completed will show it as “Open” when checked either in the "Service Menu" of DCSnet (Dealer Communication System) or with the Key Reader.

PROCEDURE

	<ol style="list-style-type: none"> 1. Use a bore scope (1) or similar (mirror) to help identify the injector index number on the injector (2). <p>Do not remove the injector to identify the index number.</p>
	<ol style="list-style-type: none"> 2. Perform the injector index number evaluation on both cylinder banks. <p>As of January 2013, an</p>



improved injector is available. Two distinct markings on the injector itself will identify the improved injector.

1 = Internal material improvement

2 = 7585261 – (Index) 11 or greater

The injector improvements consist of an internal filter and an optimized thermal compensating oil.

- All injectors that are not index 11 or higher will need to be replaced. Use **P/N 13 53 8 648 937** when replacing the injector(s).

If the injector index number is already 11 or greater, take no further action regarding injector repairs.

IMPORTANT: Injectors with index 11 and higher have a different calibration and construction than injectors with index 10 and lower. Due to this difference, injectors with index 11 and higher and injectors with index 10 and lower cannot be mixed on the same engine bank (i.e., cylinders 1-4 or 5-8).

- Refer to repair instruction 13 53 721 Replacing one injector, cylinder bank 1-4 (S63) if only the injectors on cylinder bank 1 need to be replaced.

Refer to repair instruction 13 53 722 Replacing one injector, cylinder bank 5-8 (S63) if only the injectors on bank 2 need to be replaced.

If the injectors on both cylinder banks need to be replaced then refer to both of the repair instructions stated above.

PARTS INFORMATION

Part Number	Description	Quantity
13 53 8 648 937	High-pressure injector	Up to 8 as required)
13 53 8 651 060	Decoupling element	Up to 8 (as required)

WARRANTY INFORMATION

Reimbursement for this Service Action will be via normal claim entry utilizing the following information:

Defect Code:	00 13 50 02 00
---------------------	-----------------------

Only Checking the Fuel Injectors is Required

Labor Operation:	Labor Allowance:	Description:
00 63 170	Refer to KSD2	Check all injectors (No repair is necessary) (Main Work)

Or:

Cylinder Bank 1 – 4: Replacing One (1) Fuel Injector

Labor Operation:	Labor Allowance:	Description:
00 63 171	Refer to KSD2	Check fuel injectors and replace one (1) (cylinders 1-4) (Main work)

And, as necessary:

For Each Additional Fuel Injector on Cylinder Bank 1 – 4 Only (Work time)

Labor Operation:	Labor Allowance:	Description:
00 63 174	2 FRU	Replacing one (1) additional fuel injector, two (2) total on this bank
Or:		
00 63 174	4 FRU	Replacing two (2) additional fuel injectors, three (3) total on this bank
Or:		
00 63 174	6 FRU	Replacing three (3) additional fuel injectors, four (4) total on this bank

Or:

Cylinders Bank 5 – 8: Replacing One (1) Fuel Injector

Labor Operation:	Labor Allowance:	Description:
00 63 172	Refer to KSD2	Check fuel injectors and replace one (1) (cylinders 5-8) (Main work)

And, as necessary:

For Each Additional Fuel Injector on Cylinder Bank 5 – 8 Only (Work time)

--	--	--

Labor Operation:	Labor Allowance:	Description:
00 63 174	2 FRU	Replacing one (1) additional fuel injector, two (2) total on this bank
Or:		
00 63 174	4 FRU	Replacing two (2) additional fuel injectors, three (3) total on this bank
Or:		
00 63 174	6 FRU	Replacing three (3) additional fuel injectors, four (4) total on this bank

Or:

Both Cylinder Banks - Replacing at least One (1) Fuel Injector on Each Side

Labor Operation:	Labor Allowance:	Description:
00 63 173	Refer to KSD2	Check the injectors and replacing one (1) fuel injector for cylinders 1-4 and one (1) injector for cylinders 5-8 , two (2) in total (Main work)

And, as necessary:

For Each Additional Fuel Injector on either Cylinder Bank (Work time)

Labor Operation:	Labor Allowance:	Description:
00 63 174	2 FRU	Replacing one (1) additional fuel injector, three (3) total
Or:		
00 63 174	4 FRU	Replacing two (2) additional fuel injectors, four (4) total
Or:		
00 63 174	6 FRU	Replacing three (3) additional fuel injectors, five (5) total
Or:		
00 63 174	8 FRU	Replacing four (4) additional fuel injectors, six (6) total
Or:		

00 63 174	10 FRU	Replacing five (5) additional fuel injectors, seven (7) total
Or:		
00 63 174	12 FRU	Replacing six (6) additional fuel injectors, eight (8) total

Special “work time” labor operation code 00 63 174 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.

Note: Claim labor operation code “00 63 174” only one time for the “total work time FRU allowance” that corresponds to the number of fuel injectors being replaced.

And, also as necessary:

Sublet Materials

Sublet Code 4	See sublet reimbursement calculation below	Reimbursement for replacement quantities of required operating fluids and materials (applicable BMW part numbers. Do not use these part numbers for claim submission)
---------------	--	---

Sublet calculation: Reimbursement for replacement quantities of required operating fluids and materials (applicable BMW part numbers) at dealer net plus handling.

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

Overlapping Labor – Other Repairs

When other repair work is being performed with this repair work and if claiming the corresponding labor operations results in overlapping labor, invoice and claim work time labor operation 00 50 000 for the “additional time (FRU)” to perform the other repair instead (minus the overlap).

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

Work time labor operation code 00 50 000 is not considered a Main labor operation.

When work time labor operation 00 50 000 is used for work that will be claimed under a different defect code, separate punch time(s) are required.

[Copyright ©2016 BMW of North America, Inc.]