



N63R DME Fault Code 20A508 Turbocharger Coolant Pump Blocked

This Service Information bulletin supersedes SI B11 03 16 dated April 2016.

MODEL

G12 (7 Series)	With N63TU2 (also known as the N63R engine) and built up to 11/11/2015
----------------	------------------------------------------------------------------------

SITUATION

A Check Control message is active for “Drive Faulty”.

The following fault code is stored in the DME:

- 20A508 - Engine cooler system: Shut down turbocharger coolant pump due to blockage

CAUSE

Auxiliary coolant pump for the turbocharger becomes blocked as a result of its failure.

CORRECTION

A. If the fault frequency counter is two or less:

- Replace the auxiliary coolant pump for the turbochargers.

Or:

B. If the fault frequency counter is three and higher:

- Replace the auxiliary coolant pump for the turbochargers; and
- **UPDATE!** Replace both turbochargers;
- **UPDATE!** Replace the coolant lines for the turbochargers and
- Replace the oil lines (supply and return) for the turbochargers.

PROCEDURE

Replace the auxiliary coolant pump – Refer to Repair Instruction 11 53 090 Removing and installing/replacing auxiliary water pump for exhaust turbocharger.

UPDATE! Replace both turbochargers, coolant lines and oil lines (supply and return) - Refer to Repair Instructions 11 64 025 Remove and install/replace right exhaust turbocharger and 11 64 030 Remove and install/replace left exhaust turbocharger.

PARTS INFORMATION

--	--	--

Part Number	Description	Quantity
11 51 8 623 759	Coolant pump, electric	1
11 65 8 616 917	Turbocharger	2
18 30 7 553 601	Gasket	2
11 65 7 620 508	Clamp	2
11 62 8 600 289	Gasket	2
11 65 7 620 507	Clamp	2
11 42 8 600 293	Oil supply line 1-4	1
11 42 8 600 536	Oil supply line 5-8	1
07 11 9 963 072	Gasket rings	4
11 42 7 844 986	Oil return line 1-4	1
11 42 7 844 987	Oil return line 5-8	1
11 42 8 624 158	Gasket	2
11 42 7 578 079	O-ring	2
UPDATE! 11 53 8 600 297	Coolant line, turbo supply 5-8	1
UPDATE! 11 53 8 600 296	Coolant line, turbo supply 1-4	1
UPDATE! 11 53 8 600 294	Coolant line, turbo return 1-4	1
UPDATE! 11 53 8 600 295	Coolant line, turbo return 5-8	1

Bulk Materials - Sublet:

Part Number	Description	Quantity
83 21 2 365 950	Motor Oil SAE 0W-30 Longlife (1 liter)	1
82 14 1 467 704	Antifreeze/Coolant (1 gallon)	Up to 1.3
Or:		
82 14 2 209 769	Antifreeze/Coolant (1 Quart)	Up to 5.2

1.3 gallons of Antifreeze/Coolant provides 2.6 gallons/5.2 quarts provides 10.4 quarts when mixed with water to create 50/50 mixture.

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks or the BMW Certified Pre-Owned Program.

Defect Code:	17 61 00 12 00
---------------------	-----------------------


Correction Repair “A”

Labor Operation:	Labor Allowance:	Description:
11 53 090	Refer to KSD	Replace the auxiliary coolant pump for turbocharger

If you are using a Main labor code for another repair, use the Plus code labor operation 11 53 590 instead.

Or:

Correction Repair “B”

Labor Operation:	Labor Allowance:	Description:
 11 42 350	Refer to KSD	Remove and install/replace “oil and coolant lines” at turbochargers (includes removal of the turbochargers)
And:		
00 50 000	15 FRU	Work time to replace the auxiliary coolant pump for turbochargers (in conjunction with the removal of both oil feed lines and the turbochargers)

If you are using a Main labor code for another repair, use the Plus code labor operation 11 42 720 instead.

Work time labor operation code 00 50 000 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 – Bulk Materials

--	--	--

Sublet Code 4	See sublet reimbursement calculation below	Reimbursement for the repair-related bulk materials (BMW part numbers, please do not use the part numbers for claim submission)
---------------	--------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------

Sublet reimbursement calculation for claiming the “used quantities” of repair-related bulk materials (BMW part numbers) is at dealer net plus your center’s handling.

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

Overlapping Labor – Other Repairs

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

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

Eligible other repair work that will be claimed under a difference defect code do require separate punch times.

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

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