



SI B11 08 15  
Engine

October 2015  
Technical Service

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This Service Information bulletin and attachment supersedes SI B11 08 15 **dated July 2015**.

**NEW** designates changes to this revision

**SUBJECT**

**N63 Engine: Valve Seal Replacement**

**MODEL**

F01 and F02 (7 Series Sedan)

Produced from 9/2008 to 6/2012

F04 (ActiveHybrid 7)

Produced from 4/2010 to 6/2012

F07 (Gran Turismo)

Produced from 9/2009 to 6/2012

F10 (5 Series Sedan)

Produced from 3/2010 to 7/2013

F12 (6 Series Convertible)

Produced from 3/2011 to 7/2012

F13 (6 Series Coupe)

Produced from 7/2011 to 7/2012

E70 (X5)

Produced from 3/2010 to 6/2013

E71 (X6)

Produced from 7/2008 to 6/2014

E72 (ActiveHybrid X6)

Produced from 9/2009 to 9/2011

## SITUATION

Refer to the following applicable SIBs before replacing the valve seals.

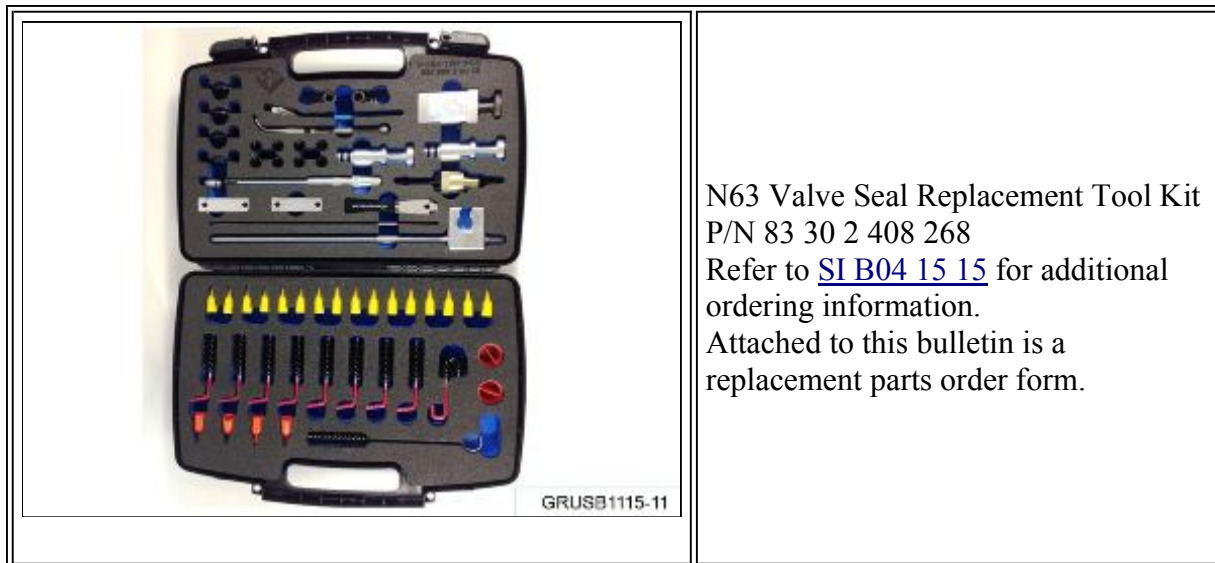
- [B11 07 11](#) - Turbocharger Failure: Oil Supply and Return Line Blockage and Proper Repairs
- [B11 07 12](#) - N63 Engine: Oil Consumption and/or Rough Running Complaints
- [B11 01 13](#) - N63 Engine: Engine Oil Consumption, Engine Oil Top-ups and Refill Capacity
- [B11 03 13](#) - Engine Oil Consumption (all models)

If the valve seals are leaking, one of the following will help determine if the seals should be replaced.

- Smoke from the tailpipe when starting or aggressively accelerating and decelerating the engine
- Excessive engine oil consumption
- Spark plugs fouled with engine oil

## PROCEDURE

If one of these conditions is verified, replace the intake and exhaust valve stem seals using special tool P/N 83 30 2 408 268.



The attached valve seal replacement procedure supersedes the current version of the ISTA/D valve seal replacement repair instructions. **Do not remove the engine from the vehicle.**

Replace the engine oil and engine oil filter when the valve seal replacement is completed.

If the engine oil service task shows Recommended, Due or qualifies to be performed based on the “60-day Bundling” procedure (see [SI B01 06 13](#)), reset the engine oil service CBS data to 100%.

The video procedure for replacing the valve stem seals can be viewed via the TIS Website using the following path:

1. Select “Service Reference” from the top menu bar.
2. Select “Service Videos.”
3. Select “General Search.”
4. Select “[11] Engine” and “Submit.”

Select “V11 04 15 May 2015 – “N63 Valve Stem Seal Tool Procedure”

#### PARTS INFORMATION

The parts information below only applies to the intake and the exhaust valve seal replacement.

Refer to the ETK and the applicable repair instructions for one-time use fasteners and/or component information regarding additional or replacement screws, gaskets, and seals that need to be installed and claimed.

| Part Number     | Description  | Quantity |
|-----------------|--|----------|
| 11 34 0 039 494 | Valve seal repair kit                              | 2        |
| 11 12 7 566 281 | Timing chain tensioner cover gasket                | 2        |
| 11 12 7 566 288 | Cylinder head cover profile gasket (cylinders 1-4) | 1        |
| 11 12 7 566 289 | Cylinder head cover profile gasket (cylinders 5-8) | 1        |
| 11 12 7 566 290 | High-pressure pump profile gasket                  | 2        |
| 11 36 7 564 346 | VANOS central screws                               | 4        |
| 11 42 7 583 220 | Engine oil filter                                  | 1        |
| 13 53 7 584 315 | Injector gasket ring seal                          | 8        |
| 13 53 7 564 751 | Injector decoupling element                        | 8        |

Sublet:

|                 |                             |                  |
|-----------------|-----------------------------|------------------|
| 83 21 2 365 946 | 5W30 BMW Engine Oil 1 liter | Up to 9.6 liters |
|                 |                             | (E72, F04 8.5)   |

#### 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.

|                             |                             |                         |
|-----------------------------|-----------------------------|-------------------------|
| <b>Defect Code:</b>         | <b>11 34 06 48 00</b>       |                         |
|                             |                             |                         |
| <b>NEW Labor Operation:</b> | <b>NEW Labor Allowance:</b> | <b>NEW Description:</b> |
|                             |                             |                         |

|           |               |  |
|-----------|---------------|--|
| 11 31 019 | Refer to KSD2 | Removing and installing or replacing all camshafts   |
| And:      |               |  |
| 11 34 570 | Refer to KSD2 | ** Replacing the valves seals using the attached procedure and BMW Special Tool 83 30 2 408 268    |
| And:      |               |  |
| 00 99 000 | 3 FRU         | Work time to change engine oil and filter (If not due, see below*) in conjunction with this repair |

**NEW** \*\* The labor operation was changed from 11 99 000 to 11 34 570 and the corresponding number of FRU's was changed from 54 units to 85 units.

If you are using a Main labor code for another repair, use the Plus code labor operation 11 31 519 instead.

**NEW** Refer to KSD2 for the corresponding flat rate unit (FRU) allowance.

**NEW** Work time labor operation code 00 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.

**NEW** \*If the vehicle has a “active” maintenance program and the “Engine oil” Service task shows “Recommended or Due” in the Service status field or it “qualifies” to be performed based on the “60-day Bundling” procedure (See SI B01 06 13), then:

- Perform the “Engine oil” Service task, and
- “Reset” the CBS data, then

**NEW** Submit and claim the engine oil and filter under the BMW Maintenance Program.

**Note: The above procedure replaces performing and claiming labor operation 11 34 560, together with the corresponding “pre-work procedure” labor operations identified in KSD2 as applicable.**

And:

**NEW** Sublet – Materials

|                          |                                     |   |
|--------------------------|-------------------------------------|---|
| <b>NEW</b> Sublet Code 4 | <b>NEW</b> See sublet reimbursement | <b>NEW</b> Reimbursement for used quantities of required operating fluids, including engine oil only when it is not claimed under the BMW Maintenance Program |
|--------------------------|-------------------------------------|---|

|  |                   |   |
|--|-------------------|---|
|  | calculation below | (applicable BMW part numbers). Please do not use these part numbers for claim submission. |
|--|-------------------|---|

**NEW** Sublet calculation:

**NEW** Reimbursement for used quantities of required operating fluids (applicable BMW part numbers) at dealer net plus handling.

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

### **Overlapping Labor – Associated and Other Repairs**

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

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.

**Associated Repairs:** When work time labor operation 00 50 000 is used as an extension of the repair outlined in this bulletin, a separate defect code and punch time(s) are not required.

**Other Repairs:** When work time labor operation 00 50 000 is used for work that will be claimed under different defect codes, separate punch time(s) are required.

### **ATTACHMENTS**

View PDF attachment [B110815 N63 Valve Seal Replacement Procedure.](#)

View PDF attachment [B110815 N63 Valve Seal Tool Order Form.](#)

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