

## Ticking Noise SBSI B 11 09 07 -N52 Engine HVA System

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This Service Information bulletin supersedes SI 11 09 07 dated April 2008.

designates changes to this revision

### SUBJECT

Intermittent Hydraulic Valve Adjuster (HVA): “Ticking” or “Rattling” Noises

### MODEL

All E82, E83, E85, E86, E88, E60, E61, E70, E90, E91, E92, and E93 with the N51, N52 or N52K engines

### SITUATION

An occasional ticking or rattling noise from the HVA elements may occur during cold engine starts or frequent short-distance driving.

### CAUSE

In these situations, the HVA elements may not yet have been supplied with sufficient amounts of air-free oil. This condition will not cause any damage to the engine, and usually remedies itself with a longer driving distance or operating times at full operating temperature.

### CORRECTION

In the event of a customer complaint, please perform the following the HVA bleeding procedure.

### PROCEDURE

Important notes:

The bleed time may take anywhere from between two minutes and (in rare cases) to a maximum of 30 minutes. This procedure is to be performed on a level surface with the vehicle stationary, and in a properly ventilated area.

Procedure preconditions:

Engine oil level correct – neither underfilled nor overfilled

Engine running at operating temperature

Bring the engine up to an operating speed (no load) of 2000-3000 rpm and maintain this condition for three minutes (bleeding procedure).

Let the engine idle for 15-30 seconds and reevaluate whether the noise is still present or not.

Engine quiet – procedure is finished.

Engine noise is still present – repeat the procedure; perform steps #1 and #2 up to a maximum of 5 times.

Only if the noise remains after performing the bleeding procedure 5 times: proceed by performing the procedure for a final time, also at an engine operating speed of 2000-3000 rpm, but for a total time duration of 15 minutes.

#### WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty.

- (1) 11-12-7-591-617 N52 Cylinder head with valve
- (1) 11-12-9-391-547 Set of Alu. screws F Cylinder
- (1) 11-12-7-548-799 Bolt cylinder head
- (1) 11-12-0-392-547 set of alu. screws
- (3) 11-12-7-521-167 ASS-Stud Bolt
- (2) 11-36-7-524-954 Collar Screw
- (1) 11-12-7-555-757 Cylinder head gasket
- (1) 11-12-7-548-921 Gasket set cylinder head
- (1) 11-12-0-409-288 set of alu. screws
- (2) 13-62-7-530-413 Torx screw
- (2) 11-12-7-529-997 Torx Screw
- (6) 33-32-6-768-354 Hex screw with collar
- (1) 11-42-7-566-327 Set oil-filter Elem
- (7) 07-51-0-017-954 Motor oil SW30
- (1) 82-14-1-467-704 Antifreeze
- (1) 22-11-0-392-551 Set of Alu. screws

September 2009

This Service Information bulletin supersedes SI B11 09 07 dated January 2009.

#### SUBJECT

Intermittent Hydraulic Valve Adjuster (HVA) Noise

#### MODEL

All E82, E83, E88, E85, E86, E60, E61, E70, E90, E91, E92 and E93 vehicles with N51, N52 or N52K engines produced approximately up to November 31st 2008; refer to cylinder head casting identification attachment.

#### SITUATION

An occasional ticking or rattling noise from the camshaft hydraulic valve lifters (HVA) may occur during cold engine starts, due to frequent short-distance driving, or the noise may occur for an extended period of time even though the engine is at operating temperature.

Improved parts were phased into production beginning on 10/1/2008 and fully implemented on November 31st 2008.

## CORRECTION

Do not perform the bleeding procedure that was previously provided in SI B11 09 07 which has now been deleted.

All vehicles produced between 10/1/2008 and 11/31/2008 must have each vehicle's cylinder head casting number identified before hydraulic valve lifters (HVA) replacement, due to staggered implementation. Refer to the attachment for the casting number location. Vehicles produced after 11/31/2008 have already been fitted with improved parts. Vehicles produced prior to 10/1/2008 will require the new parts.

### Improved Casting Numbers

N51 (B30)  
7588277.01

N52 (B30)  
7588273.01

N52K (B30)  
7588271.01

A cylinder head casting number that does not match will require replacement of the 12 exhaust camshaft hydraulic valve lifters (HVA) as per Repair Instruction RA 11 33 050, Removing and installing/replacing all rocker arms. Only the exhaust camshaft and rocker arms have to be removed in order to replace the hydraulic valve lifters. Do not remove or replace any intake camshaft valve train components.

## PARTS INFORMATION

Part Number  
Description  
Quantity

11 33 7 605 330  
Hydraulic Valve Lifter (HVA)  
12

Refer to EPC for additional gaskets, seals and bolts, as required by the Repair Instructions.

## WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty, or the Certified Pre-Owned program.

Please refer to the latest KSD for the applicable Main or Associated labor allowance for the specific model.

Defect Code:  
11 33 93 39 00

Labor Operation:  
Labor Allowance:  
Description:

00 58 248  
Refer to KSD  
Replace exhaust camshaft hydraulic valve lifters (HVA)

\*Main Work

or

00 58 827  
Refer to KSD  
Replace exhaust camshaft hydraulic valve lifters (HVA)

+ Associated Work

Note: The following explanations will spell out the correct use of the work times.

Main Work:

Use this labor operation number when the only repair performed is the listed warranty repair.

OR

+Associated Work:

Use this labor operation number when other repairs or services are performed along with the listed warranty repair.

Under no circumstances should both labor operation numbers be claimed. Attempts to claim both times will result in an unnecessary delay in claim processing and payment.

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- (1) 11-12-9-391-547 Set of Alu. screws F Cylinder
- (1) 11-12-7-548-799 Bolt cylinder head
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