

ATTENTION:

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 PARTS MANAGER
 CLAIMS PERSONNEL
 SERVICE MANAGER

IMPORTANT - All
 Service Personnel
 Should Read and
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QUALITY DRIVEN® SERVICE

SERVICE BULLETIN

APPLICABILITY: 2014MY Forester Turbo

NUMBER: 02-152-14R

SUBJECT: Revised Valve Train Parts to Reduce a Warm Engine
 Tapping Sound from the Left Cylinder Head

DATE: 04/22/14

REVISED: 06/12/14

INTRODUCTION

This bulletin announces the availability of revised valve train components developed to reduce a tapping sound (sometimes described as “a sewing machine type” sound) which may be heard coming from the left-hand (B2) side of the engine when the engine is warm. This bulletin does **not** address any cold engine or start-up sounds. The changes consist of:

- Design change to the valve rockers
- Camshaft profile change
- 1.65mm longer intake and 2.45mm longer exhaust valve stem lengths
- Revised rocker pivots were incorporated at the start of 2014MY production

PART INFORMATION

PART NAME		NEW	OLD
INTAKE VALVE	Part Number	13201AA670	13201AA640
	Change	Stem Length:	Stem Length:
		104.95mm	103.3mm
Identification	I31	I22	
EXHAUST VALVE	Part Number	13202AA800	13202AA740
	Change	Stem Length:	Stem Length:
		97.9mm	95.45mm
Identification	E3B	E2B	
VALVE ROCKER	Part Number	13249AA250	13249AA240
	Change	Change to Roller Portion	n/a
	Identification	Circular groove added on pivot side	n/a
INTAKE CAMSHAFT, LEFT	Part Number	13037AA970	13037AA840
	Change	Cam Profile Change	n/a
	Identification	38B380	38B240

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CAUTION: VEHICLE SERVICING PERFORMED BY UNTRAINED PERSONS COULD RESULT IN SERIOUS INJURY TO THOSE PERSONS OR TO OTHERS.

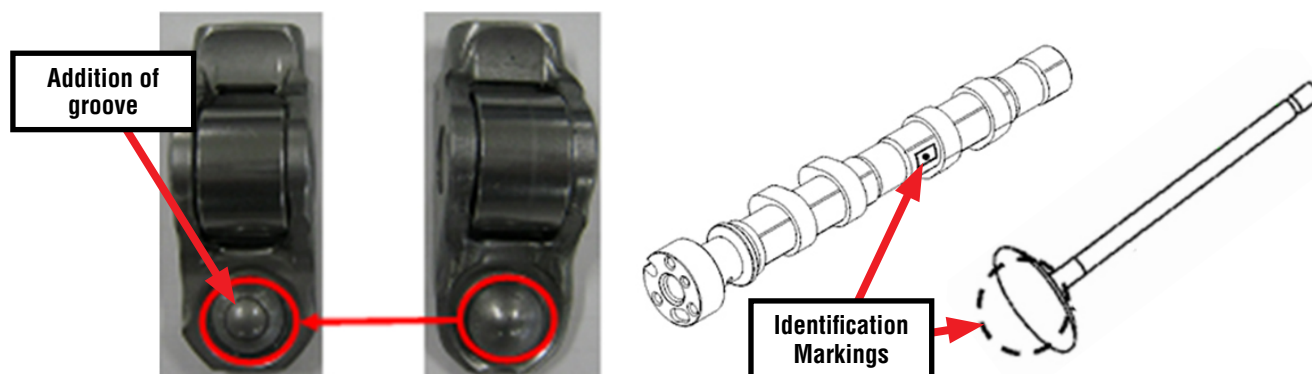
Subaru Service Bulletins are intended for use by professional technicians ONLY. They are written to inform those technicians of conditions that may occur in some vehicles, or to provide information that could assist in the proper servicing of the vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do the job correctly and safely. If a condition is described, DO NOT assume that this Service Bulletin applies to your vehicle, or that your vehicle will have that condition.

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The international standard for excellence in Environmental Management Systems. Please recycle or dispose of automotive products in a manner that is friendly to our environment and in accordance with all local, state and federal laws and regulations.

PART NAME		NEW	OLD
EXHAUST CAMSHAFT, LEFT	Part Number	13052AA970	13052AA840
	Change	Cam Profile Change	n/a
	Identification	53B380	53B240

The illustrations below show additional information about the changes to the valve rockers, camshafts and valves to help readily distinguish them from the previous version parts.



SERVICE PROCEDURE / INFORMATION

If you receive a customer concern of a tapping sound from the B2 cylinder head, confirm it is isolated to the B2 valve train area before proceeding with any repairs. Once verified, order and replace the intake and exhaust camshafts, the 4 intake valves, 4 exhaust valves, and all 8 rockers. Refer to the service procedures outlined in the applicable Service Manual for installation.

NOTE: When setting the valve clearances, the intakes should be set to 0.13mm +0.02 / - 0.03 and the exhausts set to 0.22mm +/- 0.02. **These are revised clearance specifications and are not reflected in the Service Manual.**

IMPORTANT: Do not mix old and new parts together as it will become impossible to obtain intake valve clearances that are within specification.

TIP: An egg carton makes a perfect organizer tray. Make sure to mark it as necessary (front, intake, exhaust) to eliminate any mixing of parts.

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WARRANTY / CLAIM INFORMATION

For vehicles within the Basic New Car Limited and/or Powertrain Warranty, this repair may be claimed using the following information:

LABOR DESCRIPTION	LABOR OPERATION #	FAIL CODE	LABOR TIME
H4 ENGINE R&R FOR CYLINDER HEAD SERVICING	B293-130	AER-48	3.8
LH CYLINDER HEAD R&R	C293-132		5.3
ALL VALVES REPLACE, ONE CYLINDER HEAD Includes: Valve Seating, R&R of the Springs, Valve Seals & Valve Adjustment	C293-123		1.6
VALVE TRAIN NOISE DIAGNOSIS	C243-001		0.3