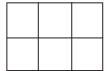
ATTENTION:

GENERAL MANAGER PARTS MANAGER CLAIMS PERSONNEL SERVICE MANAGER

IMPORTANT - All Service Personnel Should Read and Initial in the boxes provided, right.





SERVICE BULLETIN

APPLICABILITY: 2014MY Forester NA Models

NUMBER: 02-147-13

SUBJECT: Revised Valve Train Parts to Reduce a Warm Engine **DATE:** 10/28/13

Tapping or Sewing Machine type Sound from the

Left Cylinder Head

INTRODUCTION

This bulletin announces the availability of revised valve train components developed to reduce a tapping 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 type sounds. The changes consist of:

- Design change to the valve rockers
- Camshaft profile change
- Increased intake valve stem length (1.65mm longer Intake, 2.4mm longer Exhaust)

In addition, the insulator pad has been eliminated from the B2 intake manifold protector.

COUNTERMEASURE IN PRODUCTION

The revised valve train parts identified as "NEW" in the table below were incorporated into production on May 7, 2013 starting with VIN E*442881.

PART INFORMATION

PART NAME		NEW	OLD
	Part Number	13201AA670	13201AA640
INTAKE VALVE	Change	Valve stem length: 104.95mm	Valve stem length: 103.3mm
	Identification	l31	122
	Part Number	13202AA750	13202AA670
EXHAUST VALVE	Change	Valve stem length: 96.5mm	Valve stem length: 94.1mm
	Identification	E3	E2

Continued...

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

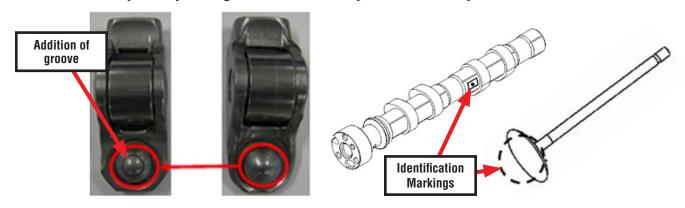
Subaru Service Bulletins are intended for use by professional technicians ONLY. They are written to inform those technicians of conditions that may occur in some vehicles, or to provide information that could assist in the proper servicing of the vehicle. Properly trained technicians have the equipment, 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
VALVE ROCKER	Part Number	13249AA250	13249AA240
	Change	Change to roller portion	-
	Identification	Circular groove added on pivot side	No groove
CAMSHAFT INTAKE, LEFT	Part Number	13037AA960	13037AA850
	Change	Cam profile change	-
	Identification	38B360 or 38B410	38B250 or 38B300
CAMSHAFT EXHAUST, LEFT	Part Number	13052AA960	13052AA850
	Change	Cam profile change -	
	Identification	53B360 or 53B410	53B250 or 53B300

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 type 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 all 4 intake and all 4 exhaust valves, all 8 rockers and both the intake and the exhaust camshaft (in addition to the necessary gaskets and seals). Refer to the service procedures outlined in the applicable Service Manual for installation.

NOTE: When resetting the valve clearances, the intake should be set to 0.13 mm + 0.02 / - 0.03 and the exhaust should be set to 0.22 mm + /- 0.02. These are revised specifications and not reflected in the Service Manual.

IMPORTANT: Do not mix old and new parts together or mix parts between the left and right cylinder head 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.

Continued...

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	TRANSMISSION	LABOR TIME
Engine D&B for Oulinder Head Servicing	B293-110	ABH-48	6MT	3.5
Engine R&R for Cylinder Head Servicing			CVT	3.9
L/H Cylinder Head &/or Gasket R&R	C293-112		_	4.9
Valves- Replace	C293-123			1.6
Valve Train Noise Diagnosis	C243-001			0.3