

- ATTENTION:**
- GENERAL MANAGER
 - PARTS MANAGER
 - CLAIMS PERSONNEL
 - SERVICE MANAGER

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

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QUALITY DRIVEN® SERVICE

REPAIR PROCEDURE

APPLICABILITY: All Affected 2016MY Legacy and Outback Models

NUMBER: WQV-57

DATE: November 20, 2015

SUBJECT: Repair Procedure for Subaru Recall Campaign Stop Sale WQV-57 Propeller Shaft Attaching Bolt Torque

INTRODUCTION

Subaru of America, Inc. (Subaru) is recalling certain 2016 model year Subaru Legacy and Outback vehicles to inspect and possibly tighten or replace the bolts that attach the propeller shaft to the rear differential.

DESCRIPTION OF THE SAFETY HAZARD

The nuts and bolts that attach the propeller shaft to the rear differential may not have been properly torqued during production. As a result, the propeller shaft could detach from the rear differential while driving. There is a potential safety risk associated with this condition. If the propeller shaft detaches from the differential, the shaft could strike the fuel tank resulting in a possible fuel leak. There is a risk of fire if leaking fuel were to come in contact with an ignition source. This could happen without prior warning.

DESCRIPTION OF THE REMEDY

The repair procedure will involve inspecting and possibly tightening or replacing the nuts and bolts that attach the propeller shaft to the rear differential.

AFFECTED VEHICLES

This condition may exist on certain vehicles within the production date range listed below.

NOTE: Not all vehicles within the range are affected. Coverage for all affected vehicles must be confirmed by using the Vehicle Coverage Inquiry function at Subarunet.com.

MODEL YEAR	MODEL	STARTING PRODUCTION DATE	ENDING PRODUCTION DATE
2016	Legacy	October 24, 2015	November 16, 2015
2016	Outback	October 24, 2015	November 17, 2015

PART INFORMATION:

Unless inspection of the 4 bolts finds any of them being finger tight (breakaway torque is zero) or the bolt/nut is missing, no parts are needed to complete the procedure. If any nuts or bolts are found to be missing or just finger-tight, the bolt, nut and washer must be replaced as a set. The replacement parts information is provided below (if needed).

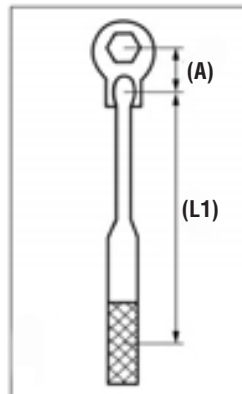
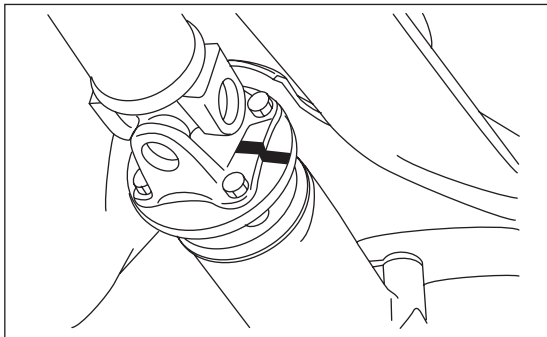
DESCRIPTION	PART NUMBER	MAXIMUM QTY. REQ'D.
BOLT M8 X 26	901700144	4
WASHER SPR D8	903200005	4
Nut	021808006	4

Continued...

Service Procedure / Information

- Raise the vehicle.
- Closely inspect the 4 propeller shaft rear flange bolts / nuts by confirming a sufficient amount of torque is required to LOOSEN them (confirm the bolts / nuts are not loose or only finger-tight).
- If any of the nuts are found to be loose or only finger-tight, thread damage may have occurred to the bolt and replacement of that bolt, nut and washer is required.
- If all 4 nuts, bolts and washers require replacement, always confirm the paint marks of the flange and yoke (A) are aligned as shown in the illustration below before reinstalling the new hardware.
- Once it has been confirmed the bolts / nuts are not loose or any bolts / nuts found to be loose have been replaced (including a new washer), torque the 4 flange nuts to the specified value in the Service Manual: 31Nm (22.9 ft. lbs.) to complete the procedure.
- Due to the location of the nuts, extra care must be used to avoid damage to the dust cover on the differential seal due to contact with tightening tool. If the dust cover is deformed or damaged, differential replacement may be required as this cover is not serviceable. To avoid this condition, SOA recommends the use of an appropriate torque extension tool along with a standard torque wrench. When using a torque extension, be sure to adjust the torque value appropriately to compensate for the length of the extension used. A formula is provided below.

TIGHTENING TORQUE 31 N.m (3.2 kfg-m, 22.9 ft-lb)



$T = L1 / (A + L1) \times T1$
T = New Torque Specification
L1 = Length of the torque wrench from the center of the handle to the center of the socket mount.
A = Length of the adapter from the middle of the socket mount to the middle of the wrench.
T1 = Original torque specification
Example: $T = 37.5 / (4+37.5) \times 420$
 $T = 37.5 / 41.5 \times 420$
 $T = .90 \times 420$
 $T = 378$

WARRANTY / CLAIM INFORMATION

LABOR DESCRIPTION	LABOR OPERATION #	FAIL CODE	LABOR TIME
PROPELLER SHAFT REAR SHAFT BOLTS INSPECTION AND TORQUEING ONLY	B137-268	WQV-57	0.2
PROPELLER SHAFT REAR SHAFT BOLT (1 or ALL) REPLACEMENT	C137-263		0.1

IMPORTANT REMINDERS:

- SOA strongly discourages the printing and/or local storage of service information as previously released information and electronic publications may be updated at any time.
- Always check for any open recalls or campaigns anytime a vehicle is in for servicing.
- Always refer to STIS for the latest service information before performing any repairs.