

01 SUMMER 2004 TechTIPS LOCATOR INDEX

Consider this your advanced notice concerning the Summer 2004 TechTIPS Locator index (which will be printed in June 2004). The Summer 2004 TechTIPS Locator index will only have information dating back to the **2000MY**. The Winter 2003 TechTIPS Locator index (December, last month's issue) has information going back to the **1995MY**. As usual, we suggest you hold onto the Winter 2003 TechTIPS Locator Index (December) issue so you can reference this older information, should you have the need. The Winter 2003 Locator index (December) is also available on the STIS web site should you need to access it.

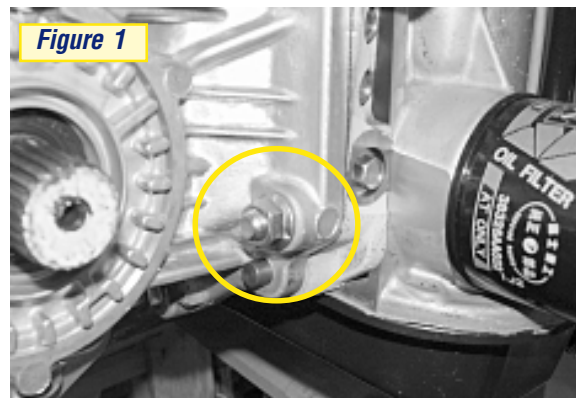
16 PHASE II 4EAT STUD LEAK REPAIR (REVISED)

This is revised information concerning the article published in the **November 2003 TechTIPS Newsletter**.

While diagnosing a transmission leak on a Phase II 4EAT, it is advisable to inspect the left-side transmission stud area (see figure 1 for illustration). If the transmission leak originates from this stud, please perform the following repair.

- 1) Remove the left-front tire.
- 2) Separate the left-hand stabilizer link from the lower control arm (also referred to as transverse link).
- 3) Separate the left-front balljoint from the lower control arm.
- 4) Remove the axle shaft pin.
- 5) Remove the axle shaft from stub shaft and place out of the way.
- 6) Remove the transmission stud nut from the stud (see *Figure 1* for stud location).
- 7) Remove the transmission stud.

...continued on pg 4





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

The Subaru TechTIPS newsletter is intended for use by professional technicians ONLY. Articles 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 knowhow to do the job correctly and safely. If a condition is described, DO NOT assume that your vehicle has or will have that condition. Impreza, Legacy, Justy, Loyale, Outback, Forester, Subaru SVX, WRX, WRX STi, L.L. Bean, Baja, "Quality Driven" and "Driven By What's Inside" are Registered Trademarks.

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01 CLAMP-ON RACKS AND WIND NOISE

Clamp-on racks are intended for use with other genuine Subaru rack mounted accessories, such as the bike rack, ski rack, kayak stacker, and roof cargo basket. Customers may hear an increased level of wind noise or wind rush sound as a result of installing these racks on their vehicles. If the noise level is objectionable, the racks should be removed and installed only when in use.

11 ECM REPROGRAMMING – A REMINDER

When shipping ECM's to Subaru of America (SOA) for reprogramming, the units need to be shipped via **UPS Next Day Air**. Also, double check the shipping address you are currently sending the ECM's to. The correct address and the one you should be using is:

**Subaru of America, Inc.
7015 Central Highway
Pennsauken, New Jersey 08109**

06 BULLETIN #'s 06-31-03 & PT 370303

Be advised that **Parts Bulletin # PT 370303** has been posted to SubaruNet. This bulletin is an alert to the expansion of ABS ECU availability as per the **Technical Service Bulletin # 06-31-03**. This Parts Bulletin is linked to all Hydraulic Control Unit (HCU) assemblies and all ABS ECU individual part numbers.

In the event of an ABS ECU related claim, replacement of the HCU assembly will **not** be reimbursed for the full cost of the assembly, unless extenuating circumstances are presented.

15 BAJA BED COVER REPLACEMENT (REPRINTED FROM MAY 2003 TECHTIPS NEWSLETTER)

If you have a situation where the Baja soft bed cover needs to be replaced do not order the entire kit. You should order the soft cover only, part number L0010LS030 or L0010LS031 depending on which soft cover kit you have.

To find out which kit you have, look at the rear rail that came with the kit which is attached to the rear tailgate. With the tailgate in the up position, look on the inside for the attaching screw furthest to the left, (driver's side). Then look for a very small dimple ½ inch to the right of the center of that left hole. If there is a dimple, a small round hole which does not go through the rail, then you have the newer style kit.

There is a difference in the size of the bed covers, so be sure to order the right kit for the vehicle you are working on.

All new replacement soft covers now come with latches attached. They are there to install a bow to aid in rain water drainage. The new style comes with the bow. If the customer wants a bow for the old style kit, it can be ordered separately.

Parts Information

Old Style

L0010LS030 -- Soft cover replacement part includes two latches.

L0010LS080 -- Support bow. If the customer wants a bow, you will need to order it separately.



New Style

L0010LS031 -- Soft cover replacement part (the support bow is included in the original kit).

All the bed cover kit parts are available and listed in the 2000-2003 Accessory Manual MSA6A0212.

You can also refer to Parts Bulletin **PT100103** for more information.



The design of the Forester crossbar has been revised. The crossbar previously contained black textured tape on the top of the bar surface. The tape has been removed and is replaced with black textured paint. This redesigned crossbar is applicable to 2003 and the upcoming 2004 Forester.

Front & Rear Bar Assembly Part Numbers:

- **P/N E361SSA011**
2004 Forester Front X-Bar Assembly with black textured paint
- **P/N E361SSA012 -**
2004 Forester Rear X-Bar Assembly with black textured paint



With the start of production of the 2004 Baja the relay location for the Sport Activity Lights has changed. See below for details:

2003 MY Sport Activity Lights (P/N H1410LS000)



2003 Relay



2003 Relay Location / Factory Harness

2004 MY Sport Activity Lights (P/N H1410LS200)



2004 Relay (P/N 82501AE03A)



2004 Relay Location / Fuse Box

If you encounter an H6 engine with a noise coming from the front timing chain area and suspect it might be caused by the timing chain tensioner, please follow the instructions below. SOA has tried this procedure and found it to be an effective fix.

Repair Procedure:

- 1) Start the Engine
- 2) Raise engine RPM's under cold condition, up to 5000rpm 3 to 4 times.

3) Confirm whether the noise is eliminated.

4) If the noise still exists, repeat above procedure again.

If you cannot eliminate the noise with above procedure, replace Chain Tensioner.

**PHASE II 4EAT STUD LEAK
REPAIR .. continued from pg 1**

NOTE: Regardless of the method used to retract the stud from the main case, be sure to inspect the stud for damage and replace if necessary.

- 8) Wrap the stud (whether it is old or new) with Teflon tape.
- 9) Reinstall the stud and tighten the stud to 13-ft. lbs.
- 10) Reinstall the stud nut and torque to 30-ft. lbs.
- 11) Reinstall the axle shaft, pin, swaybar link, balljoint, and tire in reverse order.

NOTE: Axle shaft pins are not re-useable. Please install a new axle shaft pin during re-assembly.

Labor Description	Failure Code	Operation Number	Labor Time
Transmission Stud Leak	LAK 20, 34	A354-101	0.6

NOTE: Time to diagnose the leak is included in this repair procedure.

**2004 CALENDAR OF
SUBARU HOLIDAYS**

- New Year's Day**
Thursday, January 1, 2004
- Presidents' Day**
Monday, February 16, 2004
- Memorial Day**
Monday, May 31, 2004
- Independence Day**
Monday, July 5, 2004
- Labor Day**
Monday, September 6, 2004
- Thanksgiving**
Thursday, November 25, 2004
Friday, November 26, 2004
- Christmas**
Thursday, December 23, 2004
Friday, December 24, 2004
- New Year's Day**
Friday, December 31, 2004

"TechTIPS" INPUT & SUGGESTIONS

This is **your** chance to offer suggestions for use in future issues of *TechTIPS!*

MODEL: _____

YEAR: _____

VIN: _____

Description of situation encountered:

Your suggestion for repair procedure, product improvements, etc.:

Please attach separate sheets, if necessary. You may also want to include Service Manual diagrams or references, or your own drawings to assist in describing your suggestion. All information submitted becomes the property of Subaru of America, Inc. Permission is granted to Subaru of America, Inc. to print your name and suggestions in T.I.P.S. and other Subaru of America, Inc. publications. Mail items to: PO Box 6000, Cherry Hill, NJ 08034-6000.

Your Name: _____ **Signature:** _____

Dealer's Name: _____ **City:** _____

Date: _____ **Dealer Code:** _____