

15

04 IMPREZA TRAILER HITCH INSTALLATION PRECAUTIONS

There is new cutting procedure for installing a trailer hitch on a 04 Impreza. When a technician makes the cut to the bumper fascia, caution must be taken to ensure that the plastic tabs on the left and right side of the bumper do not get cut off. The left and right side plastic tabs act as reinforcement and help hold the bumper in place.

Fig. 1 shows an Impreza wagon bumper before cutting. Fig. 1 also has a rough line drawn in to identify the line when cutting.



continued on page 2...

10

A/C REMINDER

It's that time of year again. Time to dust off the A/C equipment. That includes checking your recycling equipment to make sure it's ready to go and that it's been **properly calibrated**.

The Technical Support Line gets calls addressing A/C performance concerns and in talking with the tech, we find that the A/C is either under or overcharged because the recycling equipment hasn't been calibrated to recharge the system properly after it was evacuated for servicing.

Another helpful hint is the Special A/C Supplement, originally published in 1994 and updated in 2000. Sure, that was a long time ago, but it contains all the information we have published on A/C and puts it in one handy source for quick reference. Plus, it's the ONLY place you can find those rare and often sought after Justy A/C wiring diagrams.

Look for it, dust it off, and study up for A/C 101.

Additional A/C information can be found in the following Service Bulletins:

10-70-00: 2001MY Legacy and Outback; A/C Relay Disconnection

10-71-00: Some 2000MY Legacy Vehicles; *Recirculation Door Actuator Noise*

10-72-02: All 2002-2003MY Impreza Vehicles up to VIN 3*511336 & 3*801514; *Countermeasure to Prevent Icing in the Evaporator on Air Conditioned Vehicles*

10-73-02: All 2003 Legacy and Baja Vehicles; *A/C System Relay Storage and Activation During PDI*

10-74-02: 2001-2002MY H-6 Legacy Vehicles; *Legacy H-6 Air Conditioner Compressor Revolution Sensor*



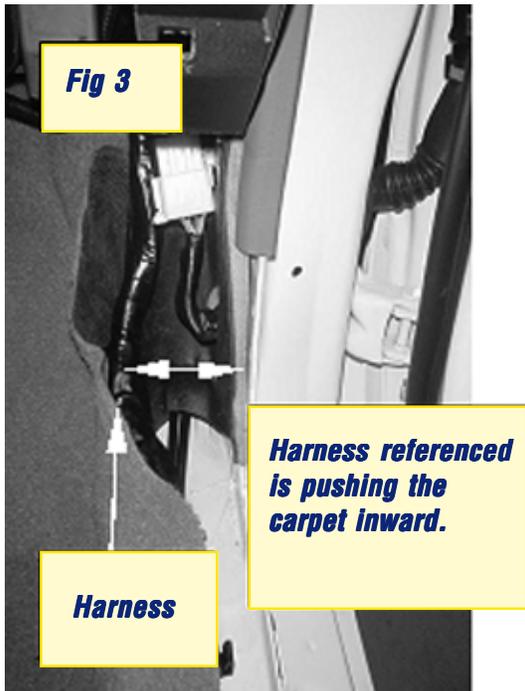
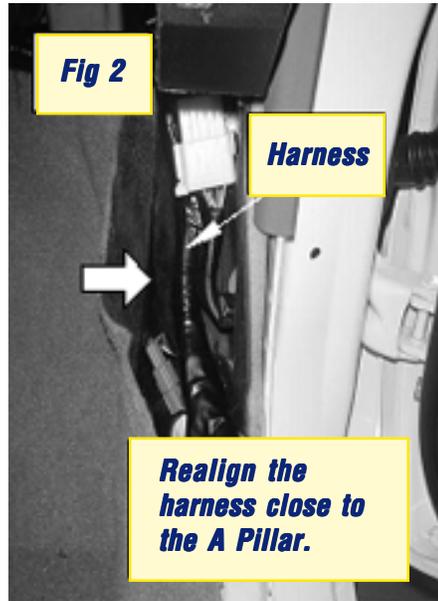
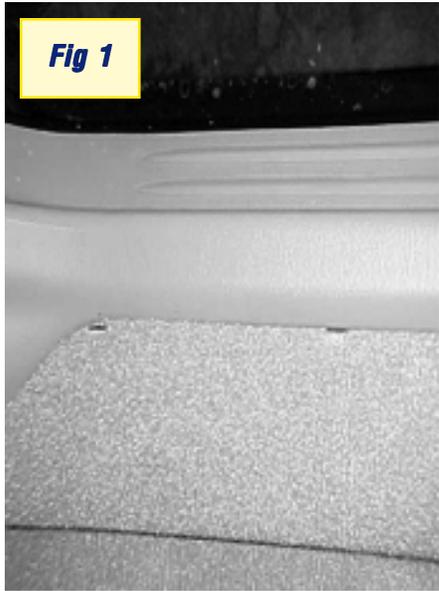
CAUTION: VEHICLE SERVICING PERFORMED BY UNTRAINED PERSONS COULD RESULT IN SERIOUS INJURY TO THOSE PERSONS OR TO OTHERS.

Subaru Technical Support T.I.P.S. 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 knowhow to do the job correctly and safely. If a condition is described, DO NOT assume that this Technical Support T.I.P.S. applies to your vehicle, or that your vehicle will have that condition. Impreza, Legacy, Justy, Loyale, Outback, Forester, Subaru SVX, WRX, L.L. Bean, Baja, "Quality Driven" and "The Beauty of All Wheel Drive" are Registered Trademarks.

Articles in This Issue

#	Description	Page #
10	A/C Reminder	1
15	04MY Trailer Hitch Installation Precautions	1
15	03MY Forester Carpet Staple Visible Near Side-Sill Trim Cover	2
15	Crossbar Parts Availability	3
	TechTIPS Locator Index	4

Only noticeable on the right front passenger side of the vehicle, a customer may have a concern with carpet staple visibility (see fig. 1, below). Please check the location of the rear harness. If the harness is aligned properly (see fig. 2), the carpet staples are located under the side-sill trim cover and cannot be visible. If you find the problem (see fig. 3), please remove the side-sill trim cover and realign the harness. You do not need to replace any parts.



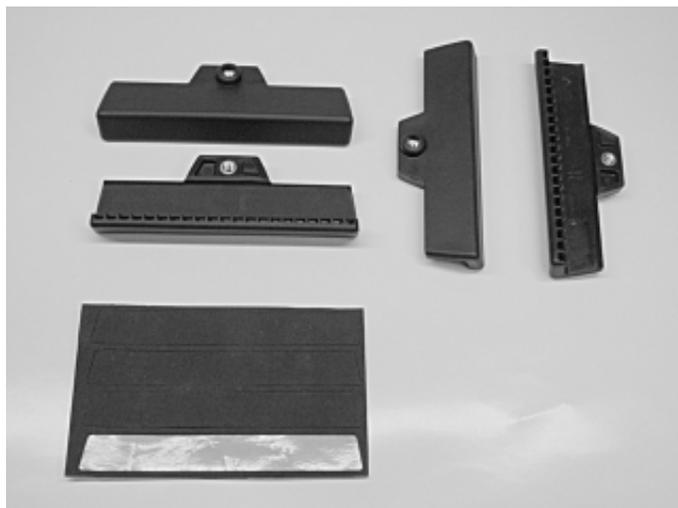
TRAILER HITCH INSTALLATION...
continued from page 1

Fig. 2 and Fig. 3 depict a finished cut and expose the right side tabs. Be sure when you cut the bumper fascia to keep the tool parallel to the ground. This avoids cutting the tabs. Some of the tools that can be used to cut the bumper fascia are pictured in fig. 4.



For complete details, please refer to the installation instructions included in the trailer hitch kit or download them from www.subarunet.com.

If you were to encounter a stripped brass insert on the rear clamp of any authorized Subaru Crossbar system, the lower clamp, lower clamp adhesive pad, and an M6 torx bolt can be ordered separately. It is not necessary to order the entire crossbar kit. For additional information regarding specific part numbers or availability, please see your parts counter representative. For specific installation instructions, please download the information from our web-site at www.subarunet.com



E3610LS360: Baja Lower Clamp Pad

E3610LS330: Baja Lower Clamp RH

E3610LS340: Baja Lower Clamp LH



E3610AS740: Outback & Impreza Clamps RH/LH

E3610LS050: Outback & Impreza Lower Clamp Pads



E361SSA040: Forester Clamp LH

E361SSA030: Forester Clamp RH

E361SSA060: Forester Pad Snap In

TechTIPS LOCATOR INDEX REMINDER

This is the Summer edition of the Technical Support T.I.P.S Locator Index. The next Locator index will be printed in December 2003. Please note that this, and future editions, will contain information only going back to 1995. A previous edition, published in June 2000, contained information dating back to 1991. We hope you held on to it.

SUBARU SERVICE TECHNICAL SUPPORT T.I.P.S. LOCATOR INDEX

01-GENERAL INFORMATION

PARTS QUESTIONS	01/95
LEGACY SERVICE MANUAL SUPPLEMENT	01/95
OIL LEAKS	01/95
OBTAINING SERVICE BULLETINS	03/95
DIAGNOSING NOISES OVER THE PHONE	03/95
HELPLINE DIAGNOSTIC INFORMATION	05/95
PHYSICALLY DAMAGED WARRANTY RETURNED PARTS	05/95
KATS WAX REMOVAL TIPS	06/95
THINKING, THE SERVICE MANUAL, AND THE USE OF DIAGNOSTIC FLOW CHARTS	06/95
VEHICLE MODEL YEAR	09/95
1996 SUBARU LEGACY SELECT MONITOR CARTRIDGE	10/95
SELECT MONITOR INFORMATION UPDATE	11/95
COOLER WEATHER AND DRIVEABILITY	11/95
TECHNICAL ASSISTANCE AND THE CDS 800 PHONE LINE	12/95
PART NUMBERS FOR ELECTRICAL CONDITION REPORTS AND QUALITY MONITORING REPORTS	12/95
TRAINING TEST ANSWERS	01/96
MONRONEY LABEL MISMATCHES	01/96
TECHNICAL HELPLINE UPDATES/SERVICE BULLETINS	02/96
IMPREZA KEY CODE LOCATION	02/96
95 & 96 POWER ANTENNA OPERATION	02/96
SERVICE BULLETIN VOLUME 17/UNLISTED BULLETINS	04/96
AIR CONDITIONING REMINDER	05/96
TECHNICAL SERVICE HELPLINE EFFICIENCY	05/96
1996 SUBARU LEGACY VIN CHANGE	06/96
LOCATION OF ENGINE, TRANSMISSION AND PRODUCTION DATE INFORMATION	06/96
INTERACTIVE HELPLINE UPDATES	07/96
1997 SUBARU LEGACY-RETRIEVAL OF OBDII CODES WITHOUT '97 SELECT MONITOR CARTRIDGE	08/96
ADDITIONAL 1996 SUBARU LEGACY VIN CHANGE INFORMATION	09/96
"BUT, IT'S NEW....."	09/96
97 LEGACY - INFORMATION FOR YOU	09/96
RETURNING YOUR CALLS	10/96
COOLER WEATHER AND DERIVABILITY	11/96
TOWING VEHICLES BEHIND MOTOR HOMES	02/97

FROZEN WIPER BLADES	02/97
TECHNICAL HELPLINE UPDATES/SERVICE BULLETINS	03/97
STATE I/M 240 EMISSION TESTING AND SUBARU AWD VEHICLES	04/97
NEW QUALITY MONITORING REPORT (QMR) FORM	05/97
1998 SUBARU FORESTER FACTS	07/97
NEW SUBARU SELECT MONITOR	07/97
1997 SUBARU LEGACY SERVICE MANUAL SUPPLEMENT VOLUME 7	08/97
1998 SUBARU FORESTER	09/97
1998 SUBARU KEY CODES	09/97
1998 FORESTER FLAT TOWING	10/97
CUSTOMER PARTICULARS	10/97
SUBARU FORESTER PDI CONNECTORS	11/97
HOLIDAY SCHEDULE FOR 1998	01/98
MARKING MESSAGES "URGENT" ON THE HELPLINE ANSWERING MACHINE	01/98
PARTS COLLECTION CANCELLATION	01/98
TECHNICAL HELPLINE UPDATE CHANGES	02/98
NEW NAME.....SAME DEDICATED SERVICE	02/98
TECHNICAL SUPPORT LINE CHANGES	02/98
30TH ANNIVERSARY/WRC EMBLEMS	03/98
1998 FORESTER KEY BLANKS	03/98
STATE EMISSION TESTING	07/98
SUBARU AWD VEHICLES ARE EXEMPT FROM TWO WHEEL DYNAMETER EMISSION TESTING	07/98
SUBARU TECHNICAL SUPPORT LINE AND INDEPENDENT REPAIR SHOPS	07/98
1999MY..... WHAT'S NEW	08/98
WE NEED TO KNOW	08/98
THE SUPPORT LINE AND PARTS QUESTIONS	08/98
COOLER WEATHER AND DRIVEABILITY	10/98
WE GET LETTERS	01/99
MAGNETIC TIP SCREWDRIVER CAUTION	01/99
INTERIOR TRIM TOOL	01/99
OTHER PROTECTION IDEAS	01/99
DASH NOISE	01/99
TECHNICAL SERVICE SUPPORT EFFICIENCY	02/99
LOCATION OF DATA INFORMATION FOR ENGINE, TRANS., AND PRODUCTION	03/99
QUALITY MONITORING REPORTS (Q.M.R.'S) AND YOU	03/99
WE GET LETTERS – CONTINUED	04/99
PARTS REPLACEMENT	04/99
REFERENCE MATERIALS	05/99
BACK TO BASICS – ONE MORE TIME	05/99
SUBARU NEW SELECT MONITOR REPAIRS	07/99
SUPPORT LINE CASE NUMBERS	07/99
2000MY KEY BLANKS	07/99
Y2K SUBARU LEGACY	08/99
SUPPORT LINE ANSWERING MACHINE	10/99
NEW AREA CODE	11/99
VEHICLE SERVICING	04/00
SUBARU WARRANTY COVERAGE CHANGES FOR 2001MY	05/00
2001MY FORESTER OWNER'S MANUAL CORRECTION	07/00

SUGGESTED MEASURING DEVICE	07/00
SERVICE BULLETIN 12-68-00	08/00
QUALITY MONITORING REPORTS	08/00
REQUIRED FLUID USE FOR WARRANTY REPAIRS	08/00
COOLER WEATHER AND DRIVEABILITY	10/00
IMPREZA 2.5RS MODIFICATIONS	11/00
QUALITY ADVICE FORMS FOR 2001 H6 OUTBACK	11/00
EXPANDED SUPPORT LINE HOURS	01/01
PARTS COLLECTION CENTER – ADDITIONAL LOCATION	01/01
AYES PROGRAM PARTICIPATION	02/01
TOWING VEHICLES BEHIND MOTOR HOMES	02/01
SERVICE PUBLICATIONS NEW 1-800 NUMBER	02/01
BULK FLUID USAGE	02/01
ORDERING TECHNICIAN PATCHES	03/01
ANSWERING MACHINE REMINDER	03/01
KEY CODES – A REMINDER	05/01
2002MY IMPREZA SEDAN VALET KEY FUNCTION	09/01
SERVICE MANUAL APPLICABILITY	11/01
SPECIAL EDITION: 2003 FORESTER ACCESSORY INSTALLATION	07/02
CONTACTING THE TECHNICAL SUPPORT LINE	09-10/02
INFORMATION REQUESTS	09-10/02
2003 BAJA OWNERS MANUAL SUPPLEMENT	03/03
WWW.SUBARUNET.COM REMINDER	03/03
FADED OR GHOSTED FLUKE ORIGINAL 80 SERIES DISPLAY	04/03

02-ENGINE

IDLE QUALITY COMPLAINTS ON '95 LEGACY	02/95
SYNTHETIC ENGINE OIL	02/95
ENGINE TESTING-BACK TO BASICS	04/95
SYNTHETIC LUBRICANT USAGE - UPDATED INFORMATION	07/95
OIL VISCOSITY CHANGE FOR 1996 SUBARU VEHICLES	10/95
2.5 LITER MOTOR ENGINE KNOCKING OR TAPPING NOISE	01/96
1997MY ENGINE NOISE	09/96
LEGACY 2.2L AND IMPREZA 1.8L, 2.2L ENGINE OIL FILLING	09/96
WELCOME TO SHIM CITY	10/96
NEW CAMBELT TENSIONER	04/97
ASSEMBLING 1997 AND NEWER ENGINES	08/97
MOLYBDENUM COATING ON PISTONS	10/97
ENGINE NOISE	11/97
2.5L ENGINE CYLINDER HEAD BOLT TIGHTENING SEQUENCE	11/97
LEGACY ENGINE BELT GUIDES	05/98
1996 2.5L EXHAUST VALVES	09/98
2.2L FRONT CRANKSHAFT OIL SEALS	10/98
1999 LEGACY SHORT BLOCKS	11/98
LEAKING FRONT CRANKSHAFT OIL SEALS	01/99
SIA INSTALLED ENGINE OIL	03/99
2000MY SPARK PLUG APPLICATION CHART (REVISED 01-31-00)	04/00

ENGINE NOISE WHEN COLD	08/00
OIL PUMPS – REPLACEMENT VS RESEALING	01/01
3.0L 6 CYLINDER VALVE TRAIN SERVICING	02/01
SUBJECT: ENGINE NOISE WHEN COLD	02/01
THREE BOND 1280B	05/01
2002MY WRX TURBO COOL DOWN PROCEDURE	06/01
OIL FILTERS: H-4 VERSUS H-6 ENGINES	03-04/02
2.0L CAMSHAFT CAP TORQUE CORRECTION	08/02
DOHC TURBO VALVE SPECIFICATION	09-10/02
SUBJECT: ENGINE NOISE WHEN COLD	01-02/03
RADIATOR HOSE LEAKAGE	01-02/03
SOA REPLACEMENT IGNITION WIRE SET	01-02/03
COOLANT SEEPAGE FROM WATER PUMP	05/03
2004 BAJA AND FORESTER TURBO ENGINE OIL FILTERS	05/03

03-DRIVE TRAIN-TRANSAXLE

REPLACING AWD REAR WHEEL BEARINGS ON LEGACY, IMPREZA, AND SVX	04/95
INSPECTION OF CLUTCH FREE PLAY DURING PDI	07/95
AUTOMATIC IMPREZA REAR DIFFERENTIALS	05/96
OUTBACK GEAR RATIOS	05/96
WHERE'S THE HILL HOLDER?	10/96
INSPECTION OF CLUTCH FREE PLAY DURING PDI	11/96
NOISE FROM REAR AXLE OIL SEAL-LEGACY MODELS	01/97
97 LEGACY REAR DIFFERENTIAL CROSSMEMBER BRACKET NOISE AND VIBRATION	01/97
REAR DIFFERENTIAL MODIFICATIONS	04/97
ALL SUBARU MODELS WITH STEPPED AND FLAT FLYWHEELS	07/97
ADDITIONAL PARTS INFORMATION ON DIFFERENTIAL MODIFICATIONS	07/97
IDENTIFYING 1997 SUBARU LEGACY PROPELLER SHAFTS	07/97
'97 LEGACY REAR DIFFERENTIAL CROSSMEMBER BRACKET NOISE & VIBRATION	10/97
GREASE LEAKING FROM INNER AXLE JOINTS	02/98
REAR DIFFERENTIAL VENT OIL LEAKAGE	04/98
LEGACY ENGINE BELT GUIDES	05/98
1998 VEHICLES LEAKING AXLE GREASE	09/98
M/T CASE BOSS WEAR	09/98
5MT POPPING OUT OF FIRST GEAR	10/98
SHIFTER RATTLE	02/99
ALL 1999 MANUAL TRANSMISSION VEHICLES	03/99
TRANSMISSION/REAR DIFFERENTIAL GEAR RATIOS	06/99
POPPING OUT OF FIFTH GEAR	01/00
1999/2000MY MANUAL TRANSMISSIONS POPPING OUT OF 1ST GEAR	04/00
2001MY OUTBACK H6-3.0 VDC PRECAUTIONS	11/00
VARIABLE TORQUE DISTRIBUTION	05/01
ALL SUBARU REAR DIFFERENTIALS	10/01
USE OF CORRECT FLUIDS	08/02
PARTS SUPERSESSION 2002MY OUTBACK & IMPREZA 1ST DRIVEN GEAR	09-10/02
TRANSMISSION POPPING OUT OF 3RD GEAR	05/03

04-STEERING

STEERING RACK NOISE	01/97
POWER STEERING PUMP REPLACEMENT	03/97

05-SUSPENSION-WHEELS & TIRES

PROCEDURES FOR YOKAHAMA TIRE COMPLAINTS	02/95
NOISY IMPREZA REAR STRUTS	09/95
FRONT SUSPENSION NOISE, 1995/96 SUBARU LEGACY	04/96
IMPREZA OUTBACK TIRES	09/96
1996 & 1997 2.2L MANUAL TRANSMISSION EQUIPPED VEHICLES	09/96
ADDITIONAL TIRE INFORMATION FOR '97 IMPREZA OUTBACK	11/96
AXLE SHAFT GREASE	08/99
RECOMMENDED WINTER TIRES FOR 2000MY OUTBACK	01/00
2000MY OUTBACK WINTER (SNOW) TIRE INFORMATION (SUPPLEMENTAL)	03/00
TIRE QUESTIONS AND INFORMATION HANDLING PROCEDURES	09/01

06-BRAKES

READING ABS CODES ON EARLY SUBARU LEGACY MODELS	07/95
SUBARU LEGACY - ABS LIGHT ON	08/95
BRAKE FLUID BASICS	09/95
ABS AND SELECT MONITOR USAGE	09/95
ABS/TCS EQUIPPED LEGACY VEHICLES	10/95
1995/1996 SUBARU LEGACY WITH ABS	11/95
1996 SUBARU LEGACY EQUIPPED WITH ABS/5.3 SYSTEM	11/95
ABS-2E CONTROL UNITS AND ABS CODE 23	12/95
VEHICLE NOT COMPLYING WITH FEDERAL AND STATE REGULATIONS	12/95
INTERMITTENT WHEEL SENSOR CODES IN EARLY LEGACY ABS SYSTEMS (NON ABS-2E)	12/95
BRAKE NOISE... WHAT IS NORMAL	02/96
5.3 ABS SYSTEM SERVICE MANUAL	06/96
COMPONENT RELOCATION WITH 5.3 ABS SYSTEM	06/96
ABS EQUIPPED SUBARU VEHICLES SYSTEM CHECK	08/96
NEW 5.3i TYPE ABS SYSTEM	02/97
5.3i ABS SYSTEM INFORMATION UPDATE	03/97
ABS 5.3i SERVICE MANUAL	04/97
IDENTIFYING ABS SYSTEMS	05/97
ABS 5.3i ABS WARNING LIGHT OPERATION	10/97
ABS/TCS CODE 57	01/98
USE OF NON-APPROVED BRAKE ADDITIVES	05/98
1999 FORESTER ABS	02/99
BRAKE JUDDER AND NOISE; ALL MODELS	03/99
2002MY IMPREZA BRAKE ROTOR SCORING	06/01

07-ELECTRICAL

SPEED SENSOR 2	01/95
'94 LEGACY SEAT HEATERS	01/95
COLD SHIFT LOCKS (IMPREZA SHIFT LOCKS THAT WON'T UNLOCK WHEN COLD)	02/95
1985 AND LATER L-SERIES MPFI IMPROPER ENGINE OPERATION ABOVE 2000 RPM	03/95

BATTERY REPLACEMENT	03/95
ELECTRICAL DIAGNOSIS, THE HELPLINE, AND YOU	04/95
BATTERY CHARGING	05/95
ELECTRICAL CONDITION REPORTING	06/95
ROM INSTALLATION	08/95
1M? MIN.	09/95
1996 SUBARU LEGACY OUTBACK FOGLAMPS	10/95
1995 SUBARU LEGACY OUTBACK REAR POWER OUTLET	11/95
IDENTIFICATION OF CAM AND CRANK SENSORS	07/96
1995/96 SUBARU LEGACY BLOWS FUSE SBF-2	07/96
97 LEGACY POWER DOOR LOCK SYSTEM	09/96
STICKING OR DIFFICULT AUTO DOWN POWER WINDOW SWITCH BUTTONS (MISTAKENLY PRINTED IN SECTION 11)	10/96
DIAGNOSTIC TROUBLE CODE P0341	10/96
LOOSE WINDOW REGULATORS	10/96
REAR DEFOGGER TIMER	03/97
LEGACY HEATER CONTROL PANEL BULBS	03/97
98 FORESTER TRANSIT CONNECTOR LOCATION	08/97
98 FORESTER TRAILER HITCH WIRING HARNESS	08/97
95-97 LEGACY MOISTURE ACCUMULATION IN THE HEADLIGHTS	04/98
2000MY LEGACY BATTERY	09/99
WIRING HARNESS CONNECTOR i5	09/99
ELECTRICAL PROBLEMS? CHECK THE ALTERNATOR.	11/99
2000MY LEGACY BLOWS FUSE #5	01/00
2000MY SUBARU LEGACY TURN SIGNAL OPERATION	02/00
2000MY LEGACY & OUTBACK VEHICLES FOGLIGHT OPERATION	04/00
GROUNDS, GROUNDS, GROUNDS	07/00
DAYTIME RUNNING LIGHTS	08/00
WINDSHIELD WIPER DE-ICER SYSTEM NOT WORKING	11/00
TURN SIGNALS FLASHING RAPIDLY	11/00
BLOWER MOTOR RESISTOR REPAIRS	01/01
IN-DASH CIGARETTE LIGHTER USAGE	06/01
ALTERNATOR SUPLIER UPDATE	08/01
LEGACY TRANSIT (D-CHECK-PLUG) CONNECTORS	03-04/02
FUSE 4 BLOW-OUT	03-04/02
LEGACY REAR WIPER OPERATION	03-04/02

08-INSTRUMENT & CONTROLS

SPEEDOMETER INACCURACIES	01/95
WARNING LIGHT OPERATION	02/95
LEGACY AND IMPREZA FUEL TANK SENDING UNITS	05/95
INSTRUMENT CLUSTER CIRCUIT BOARDS	10/96
FUEL GAUGES ON "E"	10/96
1998 SUBARU FORESTER/IMPREZA DIGITAL ODOMETER	09/97
ODOMETER POLICY	02/01

09-COOLING, FUEL, & EXHAUST SYSTEM

2.2 IMPREZA AWD FUEL SENDERS	04/95
REFORMULATED GASOLINES	05/95
LOYALE WATER PUMP LEAKS	07/95
MODIFIED FUEL INJECTORS	10/96
COOLING FAN OPERATION	09/97
1999 LEGACY EXCESSIVE CRANK TIME	03/99
VEHICLE WON'T TAKE FUEL	03/99
VEHICLES THAT WON'T TAKE FUEL	09/99
FUEL SYSTEM QUICK CONNECTOR	10/99
DON'T TOUCH THAT SCREW	01/00
SULFUR SMELL FROM THE EXHAUST	05/00
USE OF GENUINE AIR CLEANER ELEMENT	11/00
H6 EXTENDED CRANK TIME	01-02/02
FORESTER FUEL LINE NOISE	09-10/02

10-HEATING VENTILATION & A/C SYSTEMS

A/C REMINDER	05/95
PAG OILS	05/95
AIR CONDITIONER HOSES	08/95
1995 MY RHD POSTAL LEGACY AIR CONDITIONING SYSTEM	08/95
A/C SYSTEM DIAGNOSTIC TIPS	08/95
A/C TESTING FOR SYSTEM LEAKAGE	08/95
SVX A/C CUTTING OUT WHEN AMBIENT TEMPERATURE IS HOT; SVX ENGINE RUNNING HOT	09/95
SVX EVAPORATOR THERMOSENSOR, INTAKE SENSOR	10/95
A/C PERFORMANCE-ALL MODELS	10/95
REFRIGERANT RECOVERY AND RECYCLING CERTIFICATION	06/96
CFC R-12 SUBSTITUTE REFRIGERANTS	06/96
REFRIGERANT SUBSTITUTIONS WARNING	08/96
SVX A/C TEMPERATURE CONTROL INDICATING CENTIGRADE VS. FAHRENHEIT	10/96
A/C ODORS	05/97
'97 LEGACY A/C SEAL RING (AXIS SEAL) CHANGE	05/97
1998 SUBARU FORESTER DASH VENT NOISE	09/97
1998 SUBARU FORESTER SQUEAKING NOISE WITH A/C ON	09/97
DUST AND DIRT ENTERING REAR OF VEHICLE	11/97
SUBARU IMPREZA CENTER DASH VENT AIRFLOW	07/98
SUBARU A/C RETROFIT KITS	09/98
USE OF A/C DYES IN SUBARU AIR CONDITIONING SYSTEMS, MANUFACTURER'S RECOMMENDATIONS	09/98
SEASONAL REMINDER	05/99
A/C RETROFIT KIT INFORMATION	07/99
A/C INOPERATIVE – IMPREZA/FORESTER VEHICLES	10/99
2000MY LEGACY HEATER CONTROL CABLES	05/00
2001MY A/C DISCONNECT PROCEDURE	07/00
MODE CONTROL PANEL CHANGE	02/01
2001MY LEGACY EVAPORATOR THERMOSTAT PROBE LOCATION	07/01
LEGACY H-6 A/C COMPRESSOR'S CUTTING OUT	08/01
VALEO/ZEXEL A/C TXV FASTENER TORQUE SPECIFICATION	08/01

H-6 CLIMATE CONTROL SYSTEM INFORMATION	09/01
CHANGE TO 2002MY LEGACY/OUTBACK A/C INFORMATION	09/01
2001/2002MY LEGACY BLOWER MOTOR NOISE	11/01
BLOWER MOTOR NOISE	08/02
BLOWER MOTOR NOISE	01-02/03
H-6 A/C COMPRESSORS CUTTING OUT	04/03

11-EMISSION SYSTEMS

LEGACY AND IMPREZA ENGINES WITH NO INJECTION PULSE #1 CYLINDER	03/95
IMPREZA AIR SUCTION VALVE NOISE	03/95
1995 SUBARU LEGACY DTC P0505 - IDLE CONTROL SYSTEM MALFUNCTION	06/95
1995 SUBARU LEGACY DTC P0325 - KNOCK SENSOR CIRCUIT MALFUNCTION	06/95
1995 SUBARU LEGACY DTC P0130 - FRONT O2 SENSOR CIRCUIT MALFUNCTION	06/95
ROUGH IDLE ON MPFI VEHICLES	07/95
94 IMPREZA ROM SOCKETS	07/95
DTC P0505 IDLE CONTROL SYSTEM WHEN SOLENOID MEASURES 5? OR LESS	09/95
EXTREME COLD WEATHER ENGINE WARM UP AND OBD II	12/95
LOOSE FUEL CAPS AND TROUBLE CODE P0440	07/96
1997 LEGACY WARRANTY CLAIMS FOR LOOSE FUEL CAPS	09/96
LEGACY (NON TURBO), SVX, AND IMPREZA ISC VALVES	09/96
P0440 AND LEGACY FUEL CAPS	11/96
BLUE VS. GRAY CONNECTORS DURING DIAGNOSIS	11/96
EXTREME COLD WEATHER ENGINE WARM-UP AND OBDII	11/96
DTC P1500 RADIATOR FAN RELAY ONE CIRCUIT	03/97
1997 SUBARU IMPREZA OUTBACK SPORT	03/97
UNDERSTANDING P0440	04/97
DTC P0507-IDLE CONTROL SYSTEM RPM HIGHER THAN EXPECTED	05/97
CODE P0500	07/97
ADDITIONAL INFORMATION REGARDING CODE P0440	07/97
OBD II CYLINDER MISFIRE CODES	08/97
MORE P0440 INFORMATION	10/97
EXHAUST SMELL DURING COLD START	01/98
MODEL YEAR 1998 CHANGES IN P0440 EVAP OPERATION	1/98 & 05/98
DTC P0440 REVISITED	05/98
P0440 TIP	11/98
DTC P1507	11/98
DTC P0705 DIAGNOSTICS	05/99
FREEZE FRAME DATA	08/99
EVAPORATIVE SYSTEM DIAGNOSIS	09/99
OBD READINESS CODES	11/99
P0440 1998/1999 FORESTER	11/99
WXV-79 ENGINE CONTROL MODULE SERVICE PROGRAM	11/00
FREEZE FRAME DATA	05/01
IGNITION COIL SERVICE PRECAUTION	01-02/02
2002MY LEGACY ATMOSPHERIC PRESSURE SOLENOID VALVE OPERATION	03-04/02
DTC P1591 2002MY IMPREZA WRX M/T	03-04/02
C.I.D. NUMBER FOR REPROGRAMMING	03-04/02

WWG-90 CAMPAIGN BULLETIN CORRECTION	08/02
ECM REFLASHING CLAIM CODING	01-02/03
DIAGNOSTIC TROUBLE CODES AFTER WWK-94	05/03
ECM CALIBRATION IDENTIFICATION NUMBERS	05/03
ECM REFLASHING	05/03

12-BODY, GLASS, & UPHOLSTERY

1995 SUBARU LEGACY "FLUTTERING" NOISE	08/95
SUBARU OUTBACK FRONT LICENSE PLATE MOUNTING KIT	10/95
WINTER DRIVING TIP, INTERIOR WINDOW FOGGING	01/96
FOGGY FILM ON WINDOWS	01/96
LEGACY WIND NOISE	02/96
WATER IN THE ROCKER PANELS	07/96
LOOSE BOLTS ON WINDOW REGULATORS	09/96
POOR DRAINAGE FROM ROCKER PANELS: 1995/96 LEGACY MODELS	09/96
'97 LEGACY BODY CREAKING NOISE, RH SIDE ROCKER PANEL AREA	02/97
PROPER OPERATION OF SEAT BELTS, ELR VS. ALR	08/97
NEW CUP HOLDER FOR '98MY LEGACY	11/97
REPLACEMENT WIPER BLADE REFILLS	09/98
IMPROPER DRIVER'S SIDE WINDOW OPERATION	10/98
1999MY IMPREZA WIND NOISE	01/99
BUMPER COVER INSTALLATION TIP	02/99
FRONT SEAT TRACKS	04/99
1999 FORESTER RADIO ANTENNA	04/99
TETHER ANCHOR POINTS 1995 – 1999MY LEGACY SEDAN/SUS	07/99
2000MY LEGACY FRONT LICENSE PLATE MOUNTING	09/99
2000MY WIPER WASHER SYSTEM	09/99
UPHOLSTERY ITEMS – REPAIR/REPLACE	10/99
FORESTER TAILGATE SQUEAKS/RATTLES/POPPING	11/99
METALLIC WINDOW TINT FILMS	04/00
FRONT LICENSE PLATE MOUNTING FOR 2001MY FORESTER	04/00
WIND NOISE/CROSSBAR INSTALLATION	08/00
INOPERATIVE WINDSHIELD WASHERS	02/01
WRX ALUMINUM HOOD PRECAUTION	10/01
2002MY IMPREZA SEDAN TRUNK LOCK CYLINDER	01-02/02
WINDSHIELD WIPER WASHER CONNECTION	11/02
SOUND DAMPENING PAD	04/03

13-PAINT

'95 LEGACY OUTBACK PAINT	01/95
CORRECTION TO SERVICE BULLETIN 13-67-95R	11/95
HELPLINE UPDATE	01/96
WATER SPOTTING ON PAINTED SURFACES	09/96
PAINT PROCEDURES FOR SUBARU BUMPERS	08/01

14-SPECIAL TOOLS

SELECT MONITOR REPAIR	11/96
2001MY SUBARU FORESTER SELECT MONITOR CARTRIDGE	02/00
NEW SELECT MONITOR REPAIRS – AN UPDATE	11/00
NEW SELECT MONITOR CARTRIDGE	01/01
SUBARU FUEL INJECTOR CLEANER TOOL	05/01
SELECT MONITOR CABLES	10/01
SELECT MONITOR IMAGE LOADER SOFTWARE/HARDWARE	03-04/02
OXYGEN SENSOR REMOVING TOOL	01-02/03
2003MY IMPREZA SELECT MONITOR CARTRIDGE APPLICATION	01-02/03

15-ACCESSORY

IMPREZA ACCESSORY	01/95
HUBCAPS	01/95
ACCESSORY "OUTBACK" WHEEL COVERS	03/95
1995 SUBARU LEGACY FRONT END COVER (BRA)	03/95
INSTALLING IMPREZA FOG LAMP KITS	03/95
CRUISE CONTROL AND THE USE OF THE SELECT MONITOR	04/95
1995 LEGACY CRUISE CONTROL CORRECTIONS	04/95
1995 LEGACY LSi SECURITY SYSTEM MODULE I/O CHART	04/95
1995 LEGACY S/W ACCESSORY FORK MOUNT BIKE CARRIER	05/95
IMPREZA FOGLIGHT INSTALLATION	05/95
RADIO NOISE	06/95
1995 SUBARU LEGACY LSi ALARM SYSTEM	06/95
1995 SUBARU LEGACY CRUISE CONTROL	06/95
TESTING CRUISE CONTROL PUMPS	09/95
INSTALLATION OF SUBARU IMPREZA 'LX' S/W REAR SPOILER	09/95
1995 SUBARU LEGACY WITH PANASONIC RADIOS	11/95
1995/1996 SUBARU IMPREZA & LEGACY CRUISE CONTROL APPLICATIONS	11/95
ALLOY WHEEL CENTER CAPS	12/95
IMPREZA ACCESSORY FOGLAMP KIT PART NUMBER H4510FA100 FUSE LOCATION AND WIRING CHANGES FOR '96MY	12/95
OUTBACK TRAILER HITCH PART NUMBER L1010AS000 CHANGE IN TORQUE SPEC	12/95
CRUISE CONTROL FOR 2.2 LITER '96MY IMPREZA MANUAL TRANS VEHICLES	12/95
CRUISE CONTROL FOR NEWER LEGACY MODELS	12/95
LEGACY REMOTE KEYLESS ENTRY SYSTEM	12/95
LEGACY KEYLESS ENTRY DIAGNOSIS	01/96
LEGACY ACCESSORY KEYLESS ENTRY SYSTEM	01/96
LEGACY ROOF RACK INSTALLATION INFORMATION	02/96
INSTALLATION INSTRUCTION SUPPLEMENT FOR 96MY IMPREZA FOGLAMP KIT #H4510FA100	04/96
INTERIOR LIGHTS STAY ON LEAVING CAR	04/96
'95 & UP LEGACY LSi KEYLESS REMOTE SYSTEM	04/96
KEYLESS ENTRY ERRATIC TRANSMITTER OPERATION	05/96
MODIFICATION TO KEYLESS ENTRY SYSTEM INSTRUCTIONS	05/96
REVISED 1996 1/2 AND 1997 LEGACY CRUISE CONTROL SUPPLEMENTAL INSTALLATION INSTRUCTIONS .	07/96
1995/96 SUBARU LEGACY W/POWER ANTENNA	08/96
'97 LEGACY KEYLESS ENTRY	08/96

LEGACY OUTBACK TRAILER HITCH HARNESS	08/96
LEGACY OUTBACK CROSSBAR INSTALLATION TIPS	08/96
LEGACY LSi SECURITY SYSTEM	10/96
1996 IMPREZA ACCESSORY KEYLESS ENTRY KIT H7110FS000	01/97
1997 IMPREZA ACCESSORY CRUISE CONTROL	01/97
OUTBACK ROOF RACK CROSSBAR BOLT PART NUMBER CORRECTION	01/97
LEGACY SUBWOOFER/PREAMP, P/N H6300AS030	02/97
LEGACY OUTBACK TRAILER HITCH WIRING HARNESS	02/97
LEGACY KEYLESS ENTRY WITH SECURITY UPGRADE	02/97
CORRECTION TO INSTALLATION INSTRUCTIONS FOR KEYLESS ENTRY KITS H7110AS000 AND H7110AS300 FOR 1995 AND 1996 LEGACY	02/97
1997MY IMPREZA KEYLESS ENTRY KIT H7110FS000 WITH INCORRECT WIRING HARNESS	02/97
1997MY LEGACY KEYLESS ENTRY/SECURITY SYSTEM PROGRAMMING BUTTON LOCATIONS	02/97
1997 LEGACY KEYLESS ENTRY & SECURITY UPGRADE MODIFICATIONS	03/97
LEGACY KEYLESS ENTRY/SECURITY SYSTEM UPGRADE	04/97
'97 IMPREZA FOGLAMP INSTALLATION TIPS FOR KIT #H4510FA200	05/97
1997 LEGACY; PROGRAMMING REPLACEMENT KEYLESS ENTRY CONTROL UNIT	07/97
NEW CD CHANGER INSTALLATION PROCEDURES	08/97
FORESTER REMOVABLE ANTENNA	09/97
1996 SUBARU LEGACY KEYLESS ENTRY SYSTEM NOT OPERATING CORRECTLY	09/97
SUBARU KEYLESS ENTRY BATTERIES	09/97
ACCESSORY GAUGE PACK INFORMATION	10/97
1998 FORESTER KEYLESS ENTRY SYSTEM INFORMATION	10/97
1998 IMPREZA CRUISE CONTROL CONNECTOR	01/98
KEYLESS ENTRY SYSTEM OPERATION	01/98
FORESTER ACCESSORY BRUSH GUARD	01/98
1998 IMPREZA FOGLIGHT KIT #H4510FA200	02/98
1998 SUBARU FORESTER POWER MIRROR KIT	03/98
UPDATE OF KEYLESS ENTRY BULK HEAD HARNESS CHANGE	04/98
KEYLESS ENTRY/ALARM SYSTEM UPGRADE	04/98
1998 IMPREZA FOGLIGHT KIT #H4510FA200/220 CORRECTION	04/98
SUBARU KEYLESS ENTRY/SECURITY SYSTEM REFERENCE GUIDE	04/98
SUBARU ACCESSORY INSTALLATION MANUAL	04/98
PROGRAMMING SVX ALARM SYSTEMS	04/98
1998 SUBARU FORESTER POWER MIRROR KIT P/N CORRECTION	05/98
LEGACY STATION WAGON AUDIO HARNESS	05/98
ACCESSORY OPERATOR INSTRUCTIONS FOR 1999MY	07/98
1999MY LEGACY ACCESSORY CHANGES AND CORRECTIONS	07/98
REAR DIFFERENTIAL PROTECTOR	08/98
POOR AM RADIO RECEPTION ON FORESTER VEHICLES	10/98
1999MY LEGACY ACCESSORY CRUISE CONTROL	11/98
KEYLESS ENTRY/SECURITY SYSTEM TRANSMITTER BATTERIES	01/99
1999 CAL. SPEC. IMPREZA SECURITY KIT AVAILABILITY	01/99
SHOCK SENSOR MOUNTING FOR FORESTER/IMPREZA WITH SECURITY UPGRADE	01/99
KEYLESS ENTRY INTO 1999 FORESTER VEHICLES WITH 'ALL WEATHER PACKAGE'	01/99
KEYLESS AND SECURITY SYSTEM QUALITY IMPROVEMENTS	01/99
1999MY FORESTER RADIO NOISE/POOR RECEPTION	04/99

1999MY FORESTER – CLICKING NOISE FROM RIGHT FRONT SPEAKER	05/99
ALPINE KEYLESS ENTRY WITH SECURITY UPGRADE SYSTEM OPERATION REMINDER	07/99
LIGHTED MIRROR SUNVISOR REPLACEMENT BULBS	08/99
NO RADIO VOLUME – 2000MY LEGACY LIMITED MODEL WAGONS	08/99
1999/2000MY LEGACY ALPINE KEYLESS ENTRY/SECURITY SYSTEM DOME LIGHT OPERATION	10/99
TRAILER HITCH BIKE ATTACHMENT	11/99
2000MY LEGACY REAR SPOILER	11/99
AUTO DIMMING MIRROR/COMPASS	01/00
REAR GATE BAR P/N E7510LS001 2000MY LEGACY WAGONS	05/00
COMPASS MIRROR 2000MY LEGACY/2001MY FORESTER	05/00
ELECTROCHROMIC COMPASS MIRROR	05/00
ACCESSORY INSTALLATION INSTRUCTIONS ON WEB	05/00
CD PLAYER/CHANGER VISUAL REFERENCE	05/00
PERFORMANCE GAUGE PACK OPERATION	05/00
2000MY LEGACY/OUTBACK HOOD DEFLECTOR ‘W’ CLIPS INSTALLATION	07/00
REPLACING A KEYLESS ENTRY TRANSMITTER BATTERY	08/00
2001MY FORESTER FRONT SPLASH GUARD INSTALLATION (P/N J1010FC000)	08/00
ACCESSORY BLOCK HEATERS	10/00
INTERNAL TRUNK RELEASE HANDLE	01/01
2002MY IMPREZA ACCESSORY APPLICATION – COMPASS MIRROR	03/01
2002MY IMPREZA TRAILER HITCH P/N L1010SS000	03/01
2002MY WRX/IMPREZA TECH T.I.P.S. SPECIAL EDITION	03/01
CROSS BAR POSITIONING	05/01
SHORT THROW SHIFTER	05/01
ACCESSORY UPDATES	07/01
TITANIUM SHIFT KNOB (P/N C1010FA100) SHIFT EMBLEM LOCATION	09/01
WRX PERFORMANCE GAUGE PACK	10/01
IMPREZA SEDAN SPOILER INSTALLATION TIPS	10/01
FORESTER SPLASH GUARD INSTALLATION TIPS	10/01
WRX STEERING COLUMN MOUNTED BOOST GAUGE	11/01
2002MY IMPREZA SUBWOOFER/AMPLIFIER COMPATIBILITY	11/01
2002MY IMPREZA FRONT UNDER SPOILER INSTALLATION CHANGE	01-02/02
2002MY WRX FRONT END COVER	01-02/02
2002MY IMPREZA 120 WATT SUBWOOFER BRACKET CHANGE	01-02/02
EC COMPASS MIRROR CALIBRATION	03-04/02
BAJA BED EXTENDER	09-10/02
SEAT HEATER INFORMATION	03/03
NEW BAJA/LEGACY HOOD DEFLECTOR INSTALLATION	03/03
IMPREZA SEDAN SPOILER CHANGES	05/03
BAJA BED COVER REPLACEMENT	05/03
 16-AUTOMATIC TRANSMISSION	
ECVT LOSS OF LINE PRESSURE	03/95
95MY 4EAT VEHICLE NOISE	05/95
1995 SUBARU LEGACY/IMPREZA SHIFT LOCK DIAGNOSIS	09/95
4EAT LOW OR ERRATIC LINE PRESSURE	09/95
REPEAT ECVT ECU FAILURES	10/95

CORRECT AXLE RATIOS	11/95
OVER-CAUTIOUS NOVEMBER UPDATE "CORRECT AXLE RATIOS" INFORMATION	12/95
1996 SUBARU LEGACY ATF COOLER HOSE RE-ROUTING	02/96
CHANGE IN CONFIGURATION OF 4EAT PINION SHAFT	04/96
4EAT DELAYED ENGAGEMENT INTO DRIVE WHEN WARM	05/96
MANUAL ROM ID...ERROR 3	05/96
4EAT AWD EXTENSION CASE ROLLER BEARING REMOVAL	07/96
4EAT SYSTEMS DIAGNOSIS	07/96
4EAT TRANSMISSION BINDING IN TURNS	08/96
LATE (1995) & 1996MY TRANSFER CLUTCH CHATTER	09/96
LIMITED SLIP ADDITIVE	11/96
4EAT COLD WEATHER OPERATION	11/96
4EAT SPEED SENSORS	04/97
CHECKING TIRE PRESSURES AT PDI	05/97
REMANUFACTURED TRANSAXLE PROGRAM	07/97
VEHICLE ENGINE RPM GOES TO ZERO WHEN COMING TO A STOP	08/97
1998 SUBARU IMPREZA FWD FUSE HOLDER	11/97
REAR AXLE BINDING ON TURNS - (ONE MORE TIME)	01/98
1999 2.2L 4EAT SUBARU LEGACY MODELS HARSH DOWNSHIFTING	09/98
1999 4EAT TRANSMISSION OPERATION	10/98
TRANSMISSION REPAIRS OR REPLACEMENTS	04/99
TRANSMISSION CONTROL UNITS (TCM) PART NUMBERS	09/99
1999MY AND LATER (SECOND GENERATION 4EAT) TROUBLE CODES	02/00
4EAT TORQUE BIND	11/01
PHASE 2 4EAT (1999 TO PRESENT) REPAIRS	03-04/02
4EAT REMANUFACTURED TRANSAXLE PROGRAM – A REMINDER	08/02
REMANUFACTURED TRANSMISSION PAPERWORK PACKETS	09-10/02
2003MY 4EAT DIFFERENTIAL DRAIN PLUG	11/02
2003MY LEGACY 2.5GT SPORT SHIFTER COLD WEATHER OPERATION	01-02/03
SLOPE CONTROL CHANGE FOR 2003-2004MY VEHICLES	04/03

17-SRS AIR BAG

1995 SUBARU LEGACY PASSENGER SRS	06/95
DIAGNOSING SRS (AIR BAG) CODES	07/95
REMOVAL OF PASSENGER'S AIR BAG MODULE	04/96
DEPLOYED SRS AIR BAGS	06/96
PASSENGER'S SIDE AIR BAG	11/96
DEPOWERED AIR BAGS	02/98
ALL 1998 MODEL AIR BAG APPLICABILITY	03/98
AVAILABILITY OF RETROFIT AIR BAG 'ON - OFF' SWITCHES	08/98
SUBARU VEHICLES EQUIPPED WITH SRS SIDE AIRBAGS	08/00
10 YEAR SRS INSPECTIONS	08/00
DIAGNOSING SRS (AIR BAG) CODES	10/00
SUBARU VEHICLES EQUIPPED WITH SRS SIDE AIRBAGS	07/01
2002MY IMPREZA SRS HARNESS CHANGE	10/01

18-SERVICE MANUAL CORRECTIONS

1995 SUBARU LEGACY SERVICE MANUAL CORRECTIONS	03/95
1995 LEGACY SERVICE MANUAL REVISION	07/95
1996 LEGACY SERVICE MANUAL SUPPLEMENT	09/95
IMPREZA SERVICE MANUAL SUPPLEMENT	12/95
SERVICE BULLETIN MANUAL AND SERVICE HELPLINE UPDATE SUPPLEMENT	12/95
1998 IMPREZA SERVICE MANUAL	11/97
COPYING PAGES FROM SERVICE MANUALS	03/98
CORRECTION TO SUBARU FORESTER SERVICE MANUAL	04/98
EVAPORATIVE SYSTEM DIAGNOSIS T.R.B. CORRECTIONS	08/99
2000MY SUBARU LEGACY AND IMPREZA SERVICE MANUALS	01/00
REAR WHEEL ALIGNMENT SPECIFICATION CORRECTION	01/00
2000MY SUBARU LEGACY SERVICE MANUAL CORRECTION	02/00
SERVICE BULLETIN 13-74-00 CORRECTION	08/00
SERVICE MANUAL CORRECTIONS, 2001MY FORESTER AND LEGACY	08/00
SERVICE MANUAL CORRECTION 2001MY LEGACY	08/00
CORRECTION TO SERVICE BULLETIN 10-70-00	03/01

**2003 CALENDAR OF
SUBARU HOLIDAYS**

New Year's Day

Wednesday, January 1, 2003

Presidents' Day

Monday, February 17, 2003

Memorial Day

Monday, May 26, 2003

Independence Day

Friday, July 4, 2003

Labor Day

Monday, September 1, 2003

Thanksgiving

Thursday, November 27, 2003

Friday, November 28, 2003

Christmas

Thursday, December 25, 2003

Friday, December 26, 2003

New Year's Day

Thursday, January 1, 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:** _____