

**GENERAL INFORMATION
SECTION**

This service manual has been prepared to provide SUBARU service personnel with the necessary information and data for the correct maintenance and repair of SUBARU vehicles.

This manual includes the procedures for maintenance, disassembling, reassembling, inspection and adjustment of components and diagnostics for guidance of experienced mechanics.

Please peruse and utilize this manual fully to ensure complete repair work for satisfying our customers by keeping their vehicle in optimum condition. When replacement of parts during repair work is needed, be sure to use SUBARU genuine parts.

All information, illustration and specifications contained in this manual are based on the latest product information available at the time of publication approval.

FOREWORD**FW****HOW TO USE THIS MANUALS****HU****SPECIFICATIONS****SPC****PRECAUTION****PC****NOTE****NT****IDENTIFICATION****ID****RECOMMENDED MATERIALS****RM****PRE-DELIVERY INSPECTION****PI****PERIODIC MAINTENANCE SERVICES****PM**

FOREWORD



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1. Foreword

A: FOREWORD

These manuals are used when performing maintenance, repair or diagnosis of the Subaru IMPREZA.

Applied model: GG***** and GD***** from 2001MY.

The additional manuals below are also available:
AUTOMATIC TRANSMISSION SERVICE MANUAL (Pub. No. G0853ZE)

The manuals contain the latest information at the time of publication. Changes in the specifications, methods, etc. may be made without notice.

HOW TO USE THIS MANUALS

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1. How to Use This Manuals

A: HOW TO USE THIS MANUALS

1. STRUCTURE

Each section consists of SCT that are broken down into SC that are divided into sections for each component. The specification, maintenance and other information for the components are included, and the diagnosis information has also been added where necessary.

2. INDEX

The first page has an index with tabs. And at the end of each section is an alphabetical index.

3. COMPONENTS

For each component, a composition drawing is included.

4. SPECIFICATIONS

If necessary, specifications are also included

5. INSPECTION

Inspections are included to be carried out before and after maintenance.

6. MAINTENANCE

Maintenance instructions are provided for each component. When multiple components comprise one process, refer to the instructions for that process for each component.

7. DIAGNOSIS

Tables showing a step-by-step process make it easy to conduct diagnosis.

8. SI UNITS

Measurements in these manuals are according to the SI units. Metric and yard/pound measurements are also included.

SPECIFICATIONS

SPC

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1. Impreza 2

1. Impreza

A: DIMENSIONS

Model			Sedan	Wagon	OUTBACK
Overall length		mm (in)	4,405 (173.4)		
Overall width		mm (in)	1,730 (68.1)	1,695 (66.7)	1,710 (67.3)
Overall height (at CW)		mm (in)	1,440 (56.7)	1,465 (57.7), 1,485 (58.5)★2	1,475 (58.1), 1,495 (58.9)★2
Compartment	Length	mm (in)	1,890 (74.4)	1,845 (72.6)	
	Width	mm (in)	1,380 (54.3)		
	Height	mm (in)	1,180 (46.5)	1,200 (47.2), 1,150 (45.3)★3	1,200 (47.2), 1,150 (45.3)★3
Wheelbase		mm (in)	2,525 (99.4)		
Tread	Front	mm (in)	1,485 (58.5)	1,465 (57.7)	1,460 (57.5)
	Rear	mm (in)	1,475 (58.1), 1,480 (58.3)★1	1,455 (57.3)	1,455 (57.3)
Minimum road clearance		mm (in)	150 (5.9), 155 (6.1)★1	150 (5.9), 155 (6.1)★1	160 (6.3)

★1: WRX

★2: With roof rail

★3: With sun roof

B: ENGINE

Model		Turbo 2.0 L	2.5 L
Engine type		Horizontally opposed, liquid cooled, 4-cylinder, 4-stroke gasoline engine	
Valve arrangement		Overhead camshaft type	
Bore × Stroke	mm (in)	92 × 75 (3.62 × 2.95)	99.5 × 79.0 (3.917 × 3.110)
Displacement	cm ³ (cu in)	1,994 (121.67)	2,457 (149.9)
Compression ratio		8.0	10.0
Firing order		1 — 3 — 2 — 4	
Idle speed at Park/Neutral position (A/C OFF)	rpm	750	650 (MT) 700 (AT)
Maximum output	kW (HP)/rpm	169 (227)/6,000	123 (165)/5,600
Maximum torque	N·m (kgf-m, ft-lb)/rpm	294 (30.0, 217)/4,000	226 (23.0, 166)/4,000

C: ELECTRICAL

Model		Turbo 2.0 L		2.5 L	
Ignition timing at idling speed		BTDC/rpm		12°±10°/750	
Spark plug		NGK: PFR6G		MT: 10°±10°/650 AT: 10°±10°/700	
Generator		12V — 75A		CHAMPION: RC10YC4(Standard) NGK: BKR5E-11 NGK: BKR6E-11	
Battery	Type	12V — 90A		MT: 12V — 48AH (55D23L) AT: 12V — 52AH (65D23L)	
	Reserve capacity	min		MT: 99 AT: 111	
	Cold cranking amperes	amp		MT: 356 AT: 520	

D: TRANSMISSION

Model			Turbo 2.0 L	
Transmission type			5MT★1	4AT★2
Clutch type			DSPD	TCC
Gear ratio	1st		3.454	2.785
	2nd		1.947	1.545
	3rd		1.366	1.000
	4th		0.972	0.694
	5th		0.738	—
	Reverse		3.333	2.272
Reduction gear (Front drive)	1st reduction	Type of gear	—	Helical
		Gear ratio	—	1.000
	Final reduction	Type of gear	Hypoid	Hypoid
		Gear ratio	3.900	4.111
Reduction gear (Rear drive)	Transfer reduction	Type of gear	Helical	—
		Gear ratio	1.100	—
	Final reduction	Type of gear	Hypoid	Hypoid
		Gear ratio	3.545	4.111

5MT★1: 5 forward speeds with synchromesh and 1-reverse

4AT★2: Electronically controlled fully-automatic, 4-forward speeds and 1-reverse

DSPD: Dry Single Plate Diaphragm

TCC: Torque Converter Clutch

Model			2.5 L			
			RS		Others	
Transmission type			5MT★1	4AT★2	5MT★1	4AT★2
Clutch type			DSPD	TCC	DSPD	TCC
Gear ratio	1st		3.454	3.027	3.454	2.785
	2nd		2.062	1.619	2.062	1.545
	3rd		1.448	1.000	1.448	1.000
	4th		1.088	0.694	1.088	1.694
	5th		0.780	—	0.780	—
	Reverse		3.333	2.272	3.333	2.272
	Dual range		—	—	—	—
Reduction gear (Front drive)	1st reduction	Type of gear	—	Helical	—	Helical
		Gear ratio	—	1.000	—	1.000
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid	Hypoid
		Gear ratio	4.111	4.444	3.900	4.111
Reduction gear (Rear drive)	Transfer reduction	Type of gear	Helical	—	Helical	—
		Gear ratio	1.000	—	1.000	—
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid	Hypoid
		Gear ratio	4.111	4.444	3.900	4.111

5MT★1: 5 forward speeds with synchromesh and 1-reverse

4AT★2: Electronically controlled fully-automatic, 4-forward speeds and 1-reverse

DSPD: Dry Single Plate Diaphragm

TCC: Torque Converter Clutch

E: STEERING

Model			TS	OTHERS
Type			Rack and Pinion	
Turns, lock to lock			3.2	3
Minimum turning circle m (ft)	Curb to curb		10.2 (33.5)	10.8 (35.4)
	Wall to wall		11.1 (36.3)	11.7 (38.3)

F: SUSPENSION

Front	Macpherson strut type, Independent, Coil spring
Rear	Dual-link strut type, Independent, Coil spring

G: BRAKE

Model	SEDAN	WAGON
Service brake system	Dual circuit hydraulic with vacuum suspended power unit	
Front	Ventilated disc brake	
Rear	Disc brake	Drum brake, Disc brake★1
Parking brake	Mechanical on rear brakes	

★1: WRX

H: TIRE

Model	TS	OTHERS
Rim size	15 × 6JJ	16 × 6 ¹ / ₂ JJ
Tire size	P195/60R15 87H	P205/55R16 89V
Type	Steel belted radial, Tubeless	

I: CAPACITY

Model		Turbo 2.0 L		2.5 L	
		5MT	4AT	5MT	4AT
Fuel tank	ℓ (US gal, Imp gal)	60 (15.9, 13.2)		60 (15.9, 13.2)	
Engine oil	Upper level	ℓ (US qt, Imp qt) 4.5 (4.8, 4.0)		4.0 (4.2, 3.5)	
	Lower level	ℓ (US qt, Imp qt) 3.5 (3.7, 3.1)		3.0 (3.2, 2.6)	
Transmission gear oil	ℓ (US qt, Imp qt)	3.5 (3.7, 3.1)	—	3.5 (3.7, 3.1)	—
Automatic transmission fluid	ℓ (US qt, Imp qt)	—	9.3 (9.8, 8.2)	—	9.5 (10.0, 8.4)
AT differential gear oil	ℓ (US qt, Imp qt)	—	1.2 (1.3, 1.1)	—	1.2 (1.3, 1.1)
AWD rear differential gear oil	ℓ (US qt, Imp qt)	0.8 (0.8, 0.6)			
Power steering fluid	ℓ (US qt, Imp qt)	0.7 (0.7, 0.6)			
Engine coolant	ℓ (US qt, Imp qt)	7.7 (8.1, 6.8)	7.6 (8.0, 6.7)	7.0 (7.4, 6.2)	6.9 (7.3, 6.1)

J: WEIGHT

1. U.S. SPEC. VEHICLE

Sedan

Model			AWD			
			Turbo 2.0 L		2.5 L	
			WRX		RS	
			5MT★1	4AT★1	5MT	4AT
Curb weight (C.W.)	Front	kg (lb)	826 (1,820)	851 (1,875)	778 (1,715)	803 (1,770)
	Rear	kg (lb)	569 (1,255)	569 (1,255)	567 (1,250)	567 (1,250)
	Total	kg (lb)	1,395 (3,075)	1,420 (3,130)	1,345 (2,965)	1,370 (3,020)
Gross vehicle weight (G.V.W.)	Front	kg (lb)	998 (2,200)	998 (2,200)	939 (2,070)	939 (2,070)
	Rear	kg (lb)	857 (1,890)	857 (1,890)	857 (1,890)	857 (1,890)
	Total	kg (lb)	1,837 (4,050)	1,795 (4,050)	1,778 (3,920)	1,837 (4,050)

★1: Excludes weight of side air bag.

SPECIFICATIONS

Wagon

Model			AWD	
			Turbo 2.0 L	
			WRX	
			5MT★2	4AT★2
Curb weight (C.W.)	Front	kg (lb)	825 (1,820)	851 (1,875)
	Rear	kg (lb)	606 (1,335)	605 (1,335)
	Total	kg (lb)	1,431 (3,155)	1,458 (3,210)
Gross vehicle weight (G.V.W.)	Front	kg (lb)	998 (2,200)	998 (2,200)
	Rear	kg (lb)	925 (2,040)	925 (2,040)
	Total	kg (lb)	1,901 (4,190)	1,901 (4,190)

Model			AWD			
			2.5 L			
			TS		OUTBACK	
			5MT★1	4AT★1	5MT	4AT
Curb weight (C.W.)	Front	kg (lb)	773 (1,705)	796 (1,755)	783 (1,725)	805 (1,775)
	Rear	kg (lb)	603 (1,330)	606 (1,335)	601 (1,325)	603 (1,330)
	Total	kg (lb)	1,376 (3,035)	1,402 (3,090)	1,384 (3,050)	1,408 (3,105)
Gross vehicle weight (G.V.W.)	Front	kg (lb)	939 (2,070)	939 (2,070)	939 (2,070)	939 (2,070)
	Rear	kg (lb)	925 (2,040)	925 (2,040)	925 (2,040)	925 (2,040)
	Total	kg (lb)	1,833 (4,040)	1,833 (4,040)	1,833 (4,040)	1,833 (4,040)

★1: Excludes weight of ABS, cruise control.

★2: Excludes weight of side air bag.

2. CANADA SPEC. VEHICLE

Sedan

Model			AWD			
			Turbo 2.0 L		2.5 L	
			WRX		RS	
			5MT	4AT	5MT	4AT
Curb weight (C.W.)	Front	kg (lb)	826 (1,820)	851 (1,875)	778 (1,715)	803 (1,770)
	Rear	kg (lb)	573 (1,265)	573 (1,265)	567 (1,250)	567 (1,250)
	Total	kg (lb)	1,399 (3,085)	1,424 (3,140)	1,345 (2,965)	1,370 (3,020)
Gross vehicle weight (G.V.W.)	Front	kg (lb)	998 (2,200)	998 (2,200)	939 (2,070)	939 (2,070)
	Rear	kg (lb)	857 (1,890)	857 (1,890)	857 (1,890)	857 (1,890)
	Total	kg (lb)	1,837 (4,050)	1,837 (4,050)	1,778 (3,920)	1,778 (3,920)

Wagon

Model			AWD					
			Turbo 2.0 L		2.5 L			
			WRX		TS		OUTBACK	
			5MT★1	4AT	5MT★1	4AT★1	5MT	4AT
Curb weight (C.W.)	Front	kg (lb)	826 (1,820)	851 (1,875)	758 (1,670)	780 (1,720)	783 (1,725)	805 (1,775)
	Rear	kg (lb)	610 (1,345)	610 (1,345)	594 (1,310)	597 (1,315)	601 (1,325)	603 (1,330)
	Total	kg (lb)	1,436 (3,165)	1,461 (3,220)	1,352 (2,980)	1,377 (3,035)	1,384 (3,050)	1,408 (3,105)
Gross vehicle weight (G.V.W.)	Front	kg (lb)	998 (2,200)	998 (2,200)	939 (2,070)	939 (2,070)	939 (2,070)	939 (2,070)
	Rear	kg (lb)	925 (2,040)	925 (2,040)	925 (2,040)	925 (2,040)	925 (2,040)	925 (2,040)
	Total	kg (lb)	1,901 (4,190)	1,901 (4,190)	1,833 (4,040)	1,833 (4,040)	1,833 (4,040)	1,833 (4,040)

★1: Excludes weight of air conditioner

PRECAUTION

PC

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1. Precaution

A: PRECAUTION

Please clearly understand and adhere to the following general precautions. They must be strictly followed to avoid minor or serious injury to the person doing the work or people in the area.

1. ABS

Handle the ABS as a total system. Do not disassemble or attempt to repair individual parts. Doing so could prevent the ABS system from operating when needed or cause it to operate incorrectly and result in injury.

2. BRAKE FLUID

If brake fluid gets in your eyes or on your skin, do the following:

- Wash out your eyes and seek immediate medical attention.
- Wash your skin with soap and then rinse thoroughly with water.

3. ELECTRIC FAN

The electric fan may rotate without warning, even when the engine is not on. Do not place your hand, cloth, tools or other items near the fan at any time.

4. ROAD TESTS

Always conduct road tests in accordance with traffic rules and regulations to avoid bodily injury and interrupting traffic.

5. AIRBAG

To prevent bodily injury from unexpected deployment of airbags and unnecessary maintenance, follow the instructions in this manual when performing maintenance on the airbag components or nearby, and the airbag wiring harnesses or nearby.

To prevent unexpected deployment, perform one of the steps below and then wait at least 20 seconds to discharge electricity before beginning work.

- Step 1: Turn the ignition switch OFF.
- Step 2: Remove the negative battery terminal.

6. AIRBAG DISPOSAL

To prevent bodily injury from unexpected airbag deployment, do not dispose the airbag modules in the same way as other refuse. Follow instructions of SOA (distributor) service for disposal of airbag module. Follow all government regulations concerning the disposal of refuse.

7. AIRBAG MODULE

Adhere to the following when handling and storing the airbag module to prevent bodily injury from unexpected deployment:

- Do not hold the harnesses or connectors to carry the module.
- Do not face the bag in the direction that it opens towards yourself or other people.
- Do not face the bag in the direction that it opens towards the floor or walls.

8. AIRBAG SPECIAL TOOLS

To prevent unexpected deployment, only use special tools.

9. WINDOW

Always wear safety glasses when working around any glass to prevent glass fragments from damaging your eyes.

10. WINDOW ADHESIVE

Always use the specified urethane adhesive when attaching glass to prevent it from coming loose and falling, resulting in accidents and injury.

NOTE

NT

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1. Note

A: NOTE

This is the information that can improve the efficiency of maintenance and assure the sound work.

1. FASTENER NOTICE

Fasteners are used to prevent the parts from damage and dislocation due to looseness. Fasteners must be tightened to the specified torque.

Do not apply paint, lubricant, rust retardant or other substances to the surface around bolts, fasteners, etc. Doing so will make it difficult to obtain the correct torque and result in looseness and other problems.

2. STATIC ELECTRICITY DAMAGE

Do not touch the ECM, connectors, logic boards and other such parts when there is a risk of static electricity. Always use a static electricity prevention cord or touch grounded metal before conducting work.

3. IGNITION OFF BATTERY

When removing the battery cables, always be sure to turn the ignition off to prevent electrical damage to the ECM from rush current.

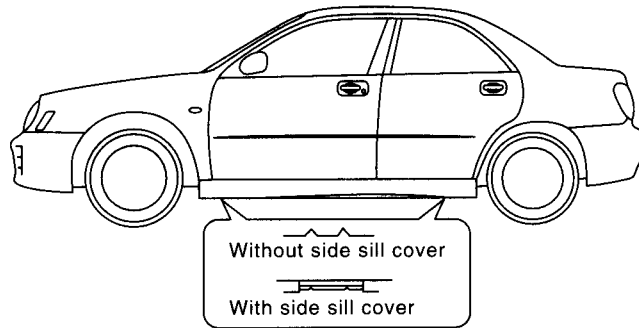
4. SERVICE PARTS

Use authentic service parts for maximum performance and maintenance, when conducting repairs. Subaru/FHI will not be responsible for poor performance resulting from the use of parts not specified by a genuine dealer.

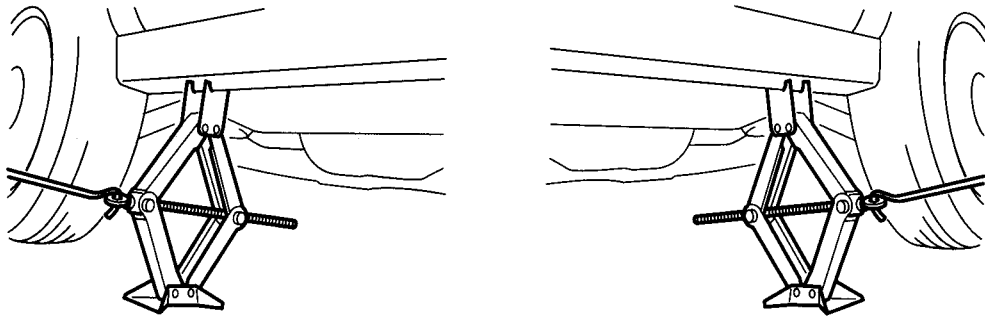
5. LIFTS AND JACKS

When using a lift or jack-ridged rack to raise a vehicle, always follow the instructions concerning jack-up points and weight limits to prevent the vehicle from falling, which could result in injury. Be especially careful to make sure the vehicle is balanced before raising it.

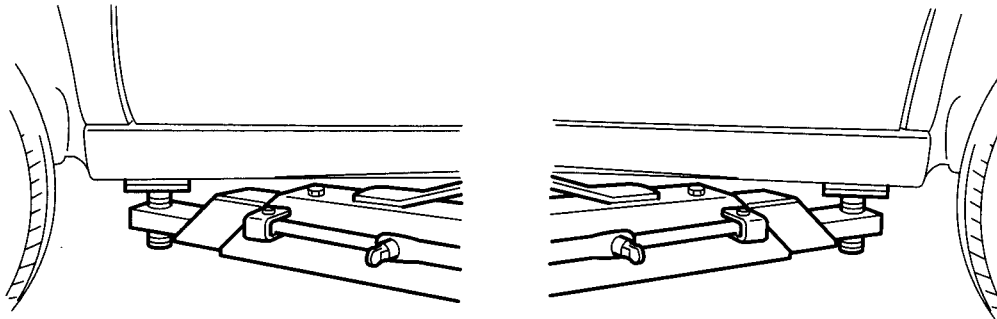
Support locations



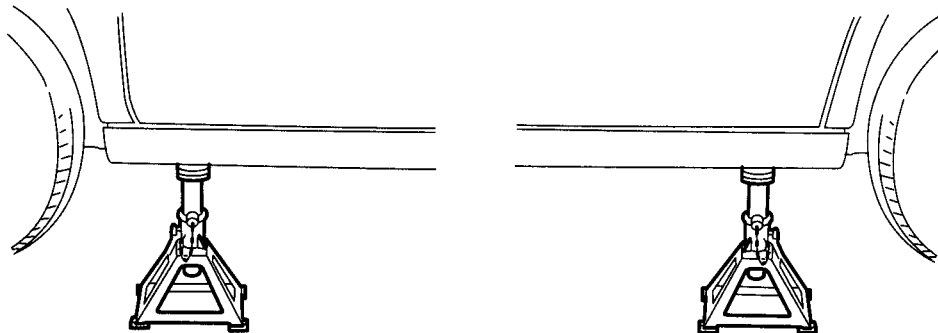
Pantograph jack



Lift

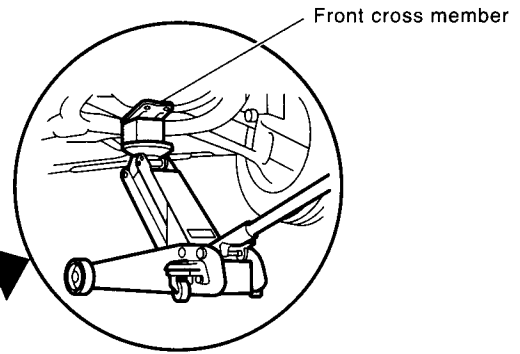
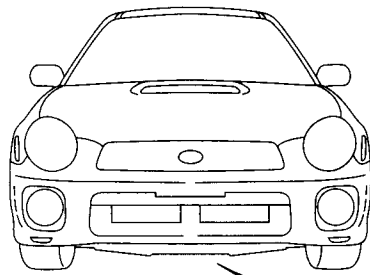


Safety stand

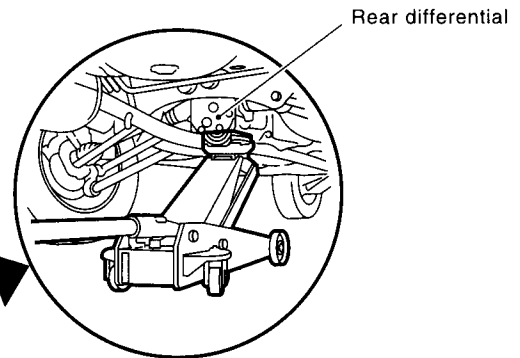
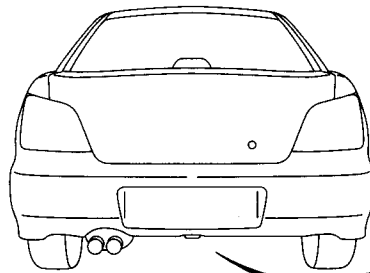


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Front



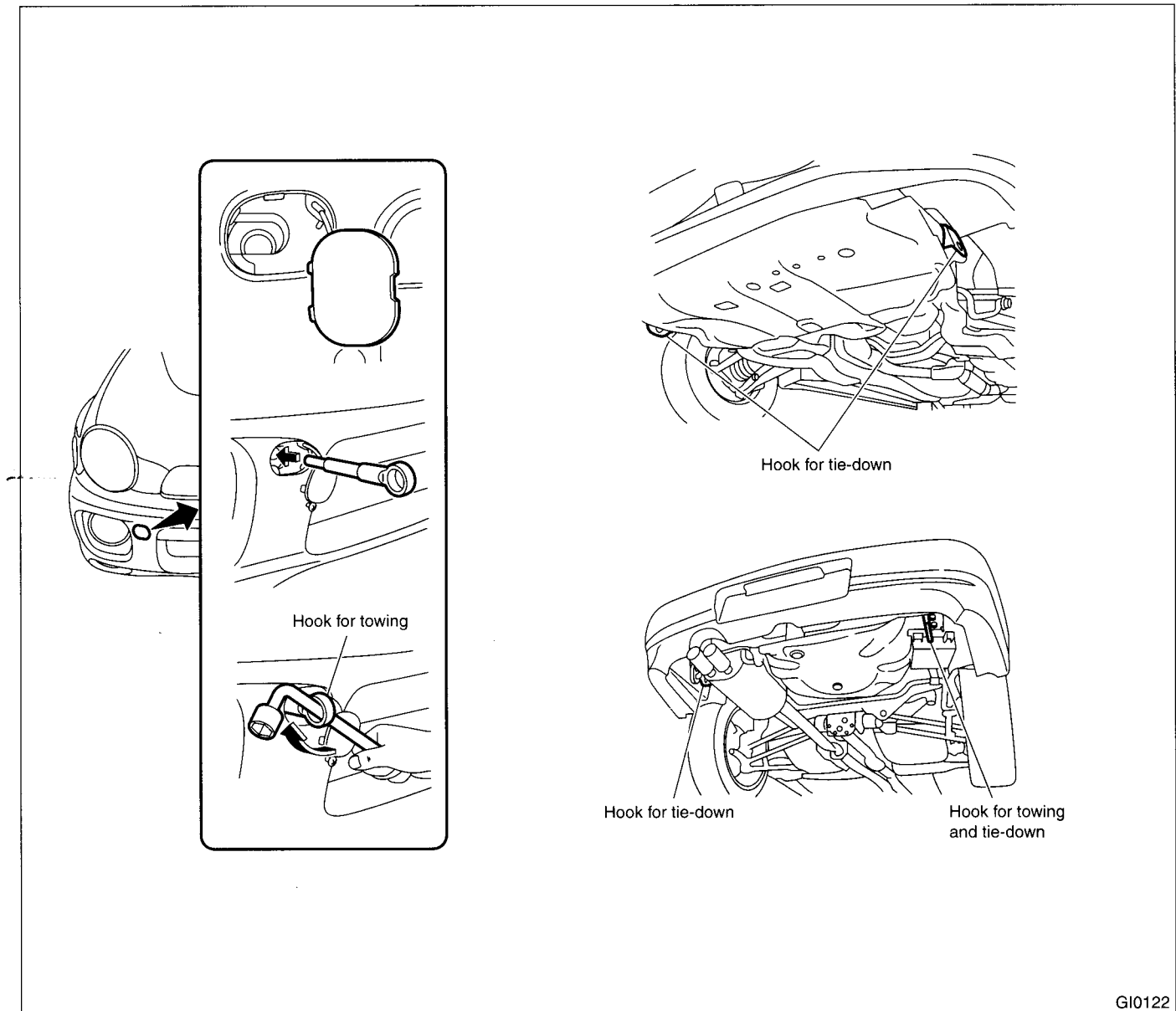
Rear

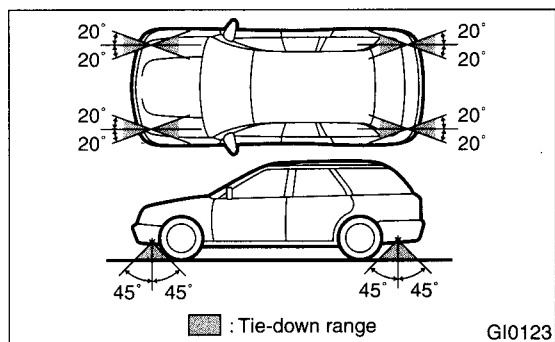
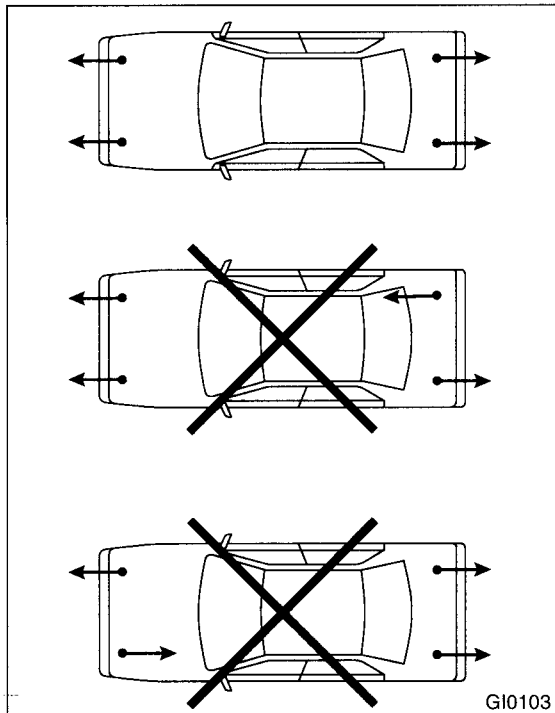


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6. TIE DOWNS

Tie downs are used when transporting vehicles and when using the chassis dynamo. Attach tie downs only to the specified points on the vehicle.





7. TOWING

Avoid towing vehicles except when the vehicle cannot be driven. For vehicles with AWD, AT or VTD, use a loader instead of towing. When towing other vehicles, to prevent excessive weight from damaging the hook or vehicle:

- Do not tow other vehicles with a front towing hook.
- Make sure the vehicle towing is heavier than the vehicle being towed.

8. TRAINING

For an information about training, contact a dealer or agent.

9. GENERAL SCAN TOOL

Using general scan tools will greatly improve the efficiency of repairing engine electronic controls. The Subaru Select Monitor can be used to diagnose the engine and also the ABS, the air conditioner and other parts.

IDENTIFICATION

ID

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1. Identification	2

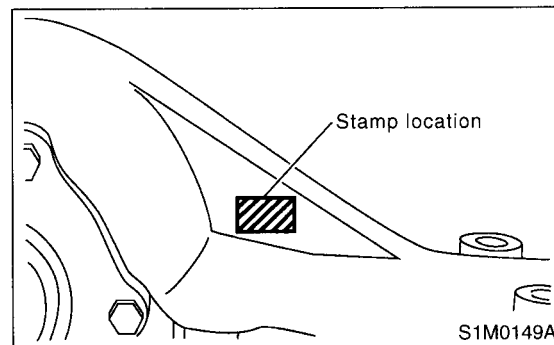
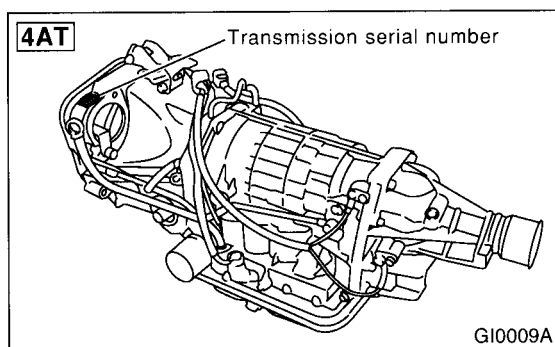
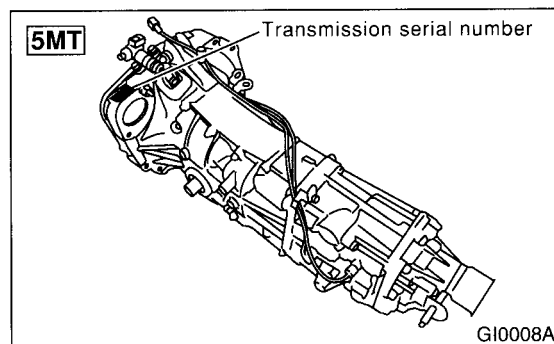
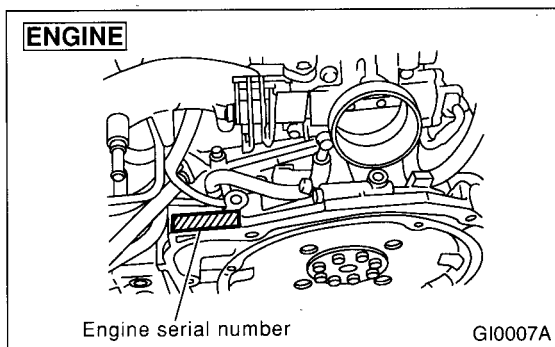
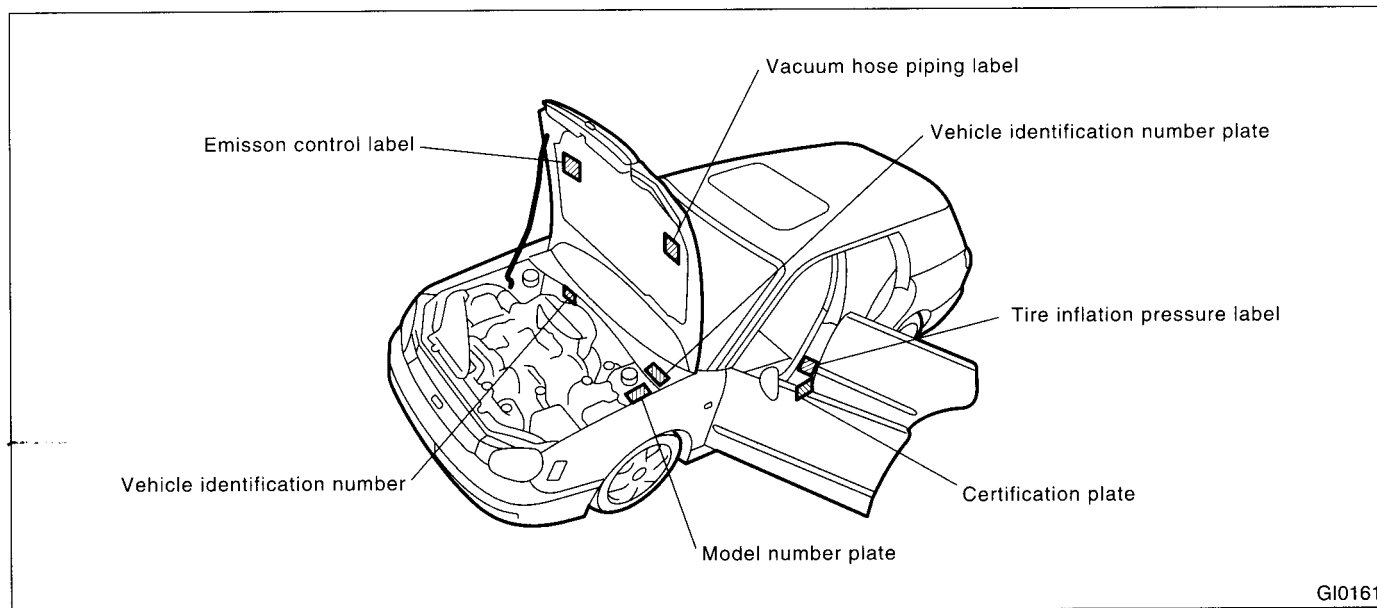
1. Identification

A: IDENTIFICATION

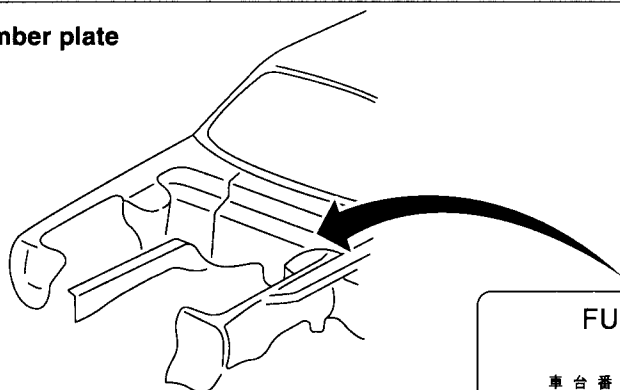
1. IDENTIFICATION NUMBER AND LABEL LOCATIONS

The VIN (Vehicle Identification Numbers) is used to classify the vehicle.

Positioning of the plate label for identification



Model number plate



FUJI HEAVY INDUSTRIES LTD.													
										型 式		□ □ □ □	
車 台 番 号													
VIN													
J F 1 B D 4 L G 9 R G 0 0 2 0 0 1													
○ アプライトモデル													
applied model													
B D 4 A L 3 G													
オプションコード													
option code													
E 0													
○													
トリムコード				エンジン型式				E J 2 0 E N M A B A					
trim code				engine type									
4 1 0													
外装飾コード				ミッション型式				T M 7 5 2 R G A A A					
Color code				transmission type									
2 3 0													
富士重工業株式会社													

GI0011A

IDENTIFICATION

IDENTIFICATION

2. MEANING OF V.I.N.

The meaning of the VIN is as follows:

• North America

[JF1GD255X2G500001]

The starting and ending brackets ([]) are stop marks.

Digits	Code	Meaning	Details
1 to 3	JF1	Manufacturer body area	JF1: Passenger car, FHI made
4	G	Car line	G: IMPREZA
5	D	Body type	D: 4 Door Sedan G: Wagon
6	2	Displacement	2: 2.0 L AWD Turbo 6: 2.5 L AWD
7	5	Grade	5: TS 7: RS 8: OUTBACK 9: WRX
8	5	Restraint	5: Manual belts, dual airbag. 6: Manual belts, dual airbag, side airbag.
9	X	Check digit	0-9 & X
10	2	Model year	2: 2002MY 3: 2003MY
11	G	Transmission type	G: Full-time AWD 5-speed MT H: Full-time AWD 4-speed AT
12 to 17	500001	Manufacture number	From 500001: 4 Door Sedan From 800001: Wagon

3. MODEL NUMBER PLATE

The model number plate indicates: the applied model, the option code, the trim code, the engine type, the transmission type, and the exterior color code. This information is helpful when placing orders for parts.

GDEAY4R

Digits	Code	Meaning	Details
1	G	Series	G: IMPREZA
2	D	Body style	D: 4 Door Sedan G: Wagon
3	E	Engine displacement Drive system Suspension system	A: 2.0 L AWD Turbo E: 2.5 L AWD
4	A	Minor change	A: Initial
5	Y	Destination	Y: Left-hand drive for United States and Canada
6	4	Grade	4: TS 6: RS 7: OUTBACK 8: WRX
7	R	Transmission, fuel feed system	R: SOHC MPI 4-speed AT P: DOHC B MPI 4-speed AT J: SOHC MPI 5-speed MT AWD D: DOHC B MPI 5-speed MT AWD

The engine and transmission type are as follows:

• Engine

EJ251AW3AB

Digits	Code	Meaning	Details
1 and 2	EJ	Engine type	EJ: 4 cylinders
3 and 4	25	Displacement	20: 2.0 L 25: 2.5 L
5	1	Fuel feed system	1: D-MPI SOHC-A 5: MPI Turbo
6	A	Exhaust regulations	US Federal & California
7	W	Transmission	W: MT X: AT
8	3	Minor change	3: 3 is applied for this vehicle.
9 to 10	AB	Detailed specifications	Used when ordering parts. See the parts catalog for details.

IDENTIFICATION

IDENTIFICATION

• Transmission

TV1A4Z1AA

Digits	Code	Meaning	Details	
1	T	Transmission	T: Transmission	
2	V	Transmission type	Y: Full-time AWD MT center differential V: Full-time AWD AT center differential Z: Full-time AWD AT MPT	
3 and 4	1A	Classification	75: MT 1A: AT	
5	4	Series	MT	4: 5 MT
			AT	4: New AT
6	Z	Transmission specifications	V: Full-time AWD 5-speed MT with viscous coupling center differential single range Z: Full-time AWD 4-speed AT with MPT Y: Full-time AWD 4-speed AT with VTD	
7	1	Minor change	1: Initial	
8 to 10	AA	Detailed specifications	Used when ordering parts. See the parts catalog for details.	

• Rear differential

EH

Code	Reduction gear ratio	LSD
EG	3.900	No
EH	4.111	No
EL	4.444	No
EJ	4.111	Viscous
EF	3.545	Viscous

RECOMMENDED MATERIALS

RM

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1. Recommended Materials

A: RECOMMENDED MATERIALS

1. GENERAL

To insure the best performance, always use the specified oil, gasoline, adhesive, sealant, etc. or that of equivalent quality.

2. FUEL

Always use a gasoline of the same or higher octane value than specified in the owner's manual. Ignoring the specifications below will result in damage or poor operation of the engine and fuel injection system. Use the specified gasoline to correct performance.

• Unleaded gasoline

Use unleaded gasoline and not leaded gasoline on vehicles with a catalytic converter installed to reduce air pollution. Using leaded gasoline will damage the catalytic converter.

RECOMMENDED MATERIALS

Use either the lubricants in the table below or equivalent lubricants. See the table below to choose the correct SAE viscosity.

SAE viscosity	SAE viscosity No. and applicable temperature SAE J300								
Engine oil	(°C)	-30	-20	-10	0	10	20	30	40
	(°F)	-22	-4	14	32	50	68	86	104
				10W-30 or 10W-40					
		5W-30 Recommend							

GI0003A

RECOMMENDED MATERIALS

RECOMMENDED MATERIALS

SAE viscosity	SAE viscosity No. and applicable temperature SAE J300								
Manual transmission oil	(°C)	-30	-20	-10	0	10	20	30	40
	(°F)	-22	-4	14	32	50	68	86	104
	90								
	85W								
	80W								
Rear differential	75W-90								
	GI0005A								
	Front differential								
	SAE viscosity No. and applicable temperature SAE J300								
Front differential	(°C)	-30	-20	-10	0	10	20	30	40
	(°F)	-22	-4	14	32	50	68	86	104
	90								
	85W								
	80W								
Front differential	80W-90								
	GI0005A								

GI0004A

GI0005A

4. FLUID

Use the fluids specified in the table below. Do not mix two different kinds or makes of fluid.

Fluid	Recommended	Alternative	Remarks
Automatic transmission fluid	DEXRON III	—	
Power steering fluid	DEXRON III	—	
Brake fluid	FMVSS No. 116 DOT3	FMVSS No. 116 DOT4	
Clutch fluid	FMVSS No. 116 DOT3	FMVSS No. 116 DOT4	

5. COOLANT

Use the genuine coolant to protect the engine. The table below shows the ratio of coolant to distilled water.

Coolant	Recommended	Item number	Alternative
Coolant	SUBARU coolant	000016218	None
Water for dilution	Distilled water	—	Tap water

6. REFRIGERANT

Standard air conditioners on Subaru vehicles use HFC134a refrigerant. Do not mix it with other refrigerants. Also, do not use any air compressor oil except for DH-PR.

Air conditioner	Recommended	Item number	Alternative
Refrigerant	HFC134a	—	None
Compressor oil	DH-PR	—	None

7. GREASE

Use the grease and supplementary lubricants shown in the table below.

Grease	Application point	Recommended	Item number	Alternative
Supplementary lubricants	- O2 sensor - Bolts, etc.	SUBARU CRC	004301003	—
Grease	MT main shaft	FX clutch grease	000040901	—
	Clutch master cylinder push rod	Slicolube G-40M	004404003	—
	- Steering shaft bush (Toe board) - Gear shift bush	SUNLIGHT2	003602010	—
	Steering gear box	Valiant grease M-2	003608001	—
	Disc brake	Niglube RX-2	003606000 or 725191040	—
	Drum brake	Molykote No. 7439	72519460	—
	- Brake pad - Brake shoe	Molykote AS-880N	26298AC000	—
	Front axle SFJ	SSG-6003	28093TA000	—
	Front axle EBJ	NTG 2218	28093AA000	—
	Rear axle EBJ (Turbo model)	NTG 2218	28093AA000	—
	Rear axle BJ (Non-turbo model)	Molylex No. 2	723223010	—
	Rear axle DOJ	VU-3A702	23223GA050	—
	- Control cable - Throttle linkage - Water pump - Door latch - Door striker	Slicolube G-30M	004404002	—

8. ADHESIVES

Use the adhesives shown in the table below, or equivalent.

Adhesive	Application point	Recommended	Item number	Alternative
Adhesive	Windshield and body	Essex Chemical Crop's Urethane E	—	Sunstar 580
	Soft vinyl	Cemedine 540	—	3M's EC-776 EC-847 or EC-1022 (Spray type)
	Momentary sealant	Cemedine 3000	—	Armstrong's Eastman 910

9. SEAL MATERIAL

Use the seal material shown in the table below, or equivalent.

Seal material	Application point	Recommended	Item number	Alternative
	Engine case	Three Bond 1215	004403007	Dow Corning's No. 7038
	Transmission oil pan	Three Bond 1217B	K0877YA020	—
	Torque converter clutch case	Three Bond 1215B	004403007	Dow Corning's No. 7038
	Rear differential	Three Bond 1324	004403042	—
	Rear differential	Three Bond 1105	004403010	—
	Weatherstrip	Starcalking B-33A	000018901	Butyl Rubber sealant
	Steering adjusting screw	Three Bond 1102	004403006	—
	SOHC cam cap	Three Bond 1280B	K0877YA018	—

RECOMMENDED MATERIALS

RECOMMENDED MATERIALS

PRE-DELIVERY INSPECTION

PI



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1. Pre-delivery Inspection

A: GENERAL

The purposes of the pre-delivery inspection (PDI) are as follows.

- Remove the additional parts used for ensuring the vehicle quality during transportation and restore the vehicle to its normal state.
- Check if the vehicle before delivery is in a normal state.
- Check for any damage or missing parts that may have taken place during transportation or storage.
- Make sure to provide a complete vehicle to the customer.

Because of the above reasons, all dealerships must always carry out the PDIs before delivering a vehicle.

In addition, all franchised shops and PDI centers must check the status of every vehicle received to identify who is responsible for any possible defects.

B: PDI PROCEDURE

Follow the procedures shown in the table below.

Static Checks Just After Vehicle Receipt

Step	Check point
1. Appearance check	(1) If the vehicle is covered with protective coating, visually check the vehicle body for damage and dents. If the protective coating has been removed, visually check the body paints for small areas of damage or stains. (2) Visually check the glass and light lenses for any damage and cracks or excessive gaps to the body sheet metal. (3) Visually check the plated parts for any damage.
2. Tire check	(4) Check the tires for damage, abnormal conditions, and dents on the wheels. (5) Check the tire air pressure.
3. Fuse installation	(6) If the vehicle is about to be delivered to the customer, attach a room lamp fuse.
4. Check the doors for lock/unlock and open/close operations.	(7) Using the key, check if the door can be locked and unlocked normally. (8) Open and close all doors to see that there are no abnormal conditions. (9) Operate the power door locking switch to check that all doors is locked and unlocked normally.
5. Power window operation check	(10) Check the power window for correct operations.
6. Check the trunk lid open/close operations.	(11) Operate the trunk lock release lever to check that the trunk opens normally. (12) Using the key, check if the trunk lid can be unlocked normally. (13) Open and close the trunk lid to see that there are no abnormal conditions.
7. Check the rear gate for lock/unlock and open/close operations.	(14) Using the key, check if the rear gate can be lock and unlocked normally. (15) Open and close the rear gate to see that there are no abnormal conditions. (16) Operate the power door locking switch to check that the rear gate is locked and unlocked normally.
8. Operation check of trunk lid release handle	(17) Operate the trunk lid release lever to check the trunk is unlocked normally.
9. Operation check of fuel lid opener lock release lever	(18) Operate the fuel lid opener to check that the fuel lid is unlocked normally.
10. Accessory check	Check the following accessories are provided: • Owner's manual • Warranty booklet • Service booklet • Spare key • Jack • Tool set • Spare tire
11. Operation check of hood lock release system	(1) Operate the hood lock release lever to check that the hood opens normally.
12. Connection of air conditioner harness	(2) If the vehicle is about to be delivered to the customer, connect the air conditioner harness.
13. Battery	(3) Check the battery for any abnormal conditions such as rust and trace of battery fluid leaks.
14. Brake fluid	(4) Check the fluid amount.
15. Engine oil	(5) Check the oil amount.
16. Transmission fluid	(6) Check the fluid amount. (7) For AT, check the front differential oil.
17. AT front differential oil	(8) Check the AT front differential oil amount.
18. Coolant	(9) Check the coolant amount.
19. Clutch fluid	(10) Check the clutch fluid amount.
20. Window washer fluid	(11) Check the window washer fluid amount.
21. Hood latch check	(12) Check that the hood is closed and latched securely.

PRE-DELIVERY INSPECTION

PRE-DELIVERY INSPECTION

Step	Check point
22. Keyless entry system	(13) Check that the keyless entry system operates normally.
23. Security system	(14) Check that the security system operates normally.
24. Seat	(15) Check the seat surfaces for smears or dirt. (16) Check the seat installation conditions and functionality.
25. Seat belt	(17) Check the seat belt installation conditions and functionality.
26. Wheel alignment	(18) Check that the wheel alignments are properly adjusted.

Checks with the Engine Running

Step	Check point
27. Read memory and test mode connectors	(1) Read memory and test mode connectors
28. Starting condition	(2) Start the engine and check that the engine starts smoothly.
29. Exhaust system	(3) Check that the exhaust noise is normal and no leaks are found.
30. Indicator light	(4) Check that all indicator lights operate normally.
31. Clock	(5) Check that the clock operates normally.
32. Radio	(6) Check that the radio system operates normally.
33. Cigarette lighter	(7) Check that the cigarette lighter operates normally.
34. Lighting system	(8) Check that the lighting systems operate normally.
35. Window washer	(9) Check that the window washer system operates normally.
36. Wiper	(10) Check that the wiper system operates normally.

Dynamic Test with the Vehicle Running

Step	Check point
37. Brake test	(1) Check that the foot brake operates normally.
38. Parking brake	(2) Check that the parking brake operates normally.
39. AT shift control	(3) Check that the AT shift patterns are correct.
40. Heater & ventilation	(4) Check that the heater & ventilation system operates normally.
41. Air conditioner	(5) Check that the air conditioner operates normally.
42. Cruise control	(6) Check that the cruise control system operates normally.

Checks after Dynamic Test

Step	Check point
43. ATF level	(1) Check that the ATF level is normal.
44. Power steering fluid level	(2) Check that the power steering fluid level is normal.
45. Fluid leak check	(3) Check for fluid/oil leaks.
46. Water leak check	(4) Spray the vehicle with water and check for water leaks.
47. Appearance check 2	(5) Remove the protective coating (if any). (6) Check the body paints for damage and smears. (7) Check the plated parts for damage and rust.

1. APPEARANCE CHECK

- If the vehicle is covered with protective coating, visually check the vehicle body for damage and dents.
- If there is no protective coating, check the body paints for small areas of damage or stains and repair as necessary.
- Check the window glass, door glass, and lights for any cracks or damage and repair or replace the parts as necessary.
- Check the plated parts, such as the grilles and door knobs, for damage or loss of gloss and repair or replace the parts as necessary.

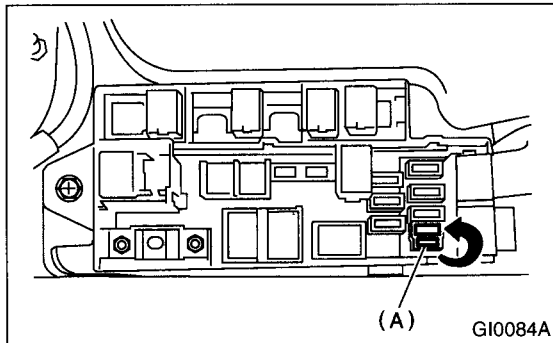
2. TIRE CHECK

- Check the tire outer faces for any damage.
- Check the tire air pressure by referring to the following table.

Tire size	Tire inflation pressure kPa (kg/cm ² , psi)	
	Front	Rear
P195/60R1587H	220 (2.2, 32)	200 (2.0, 25)
P205/55R1689V	220 (2.2, 32)	200 (2.0, 25)

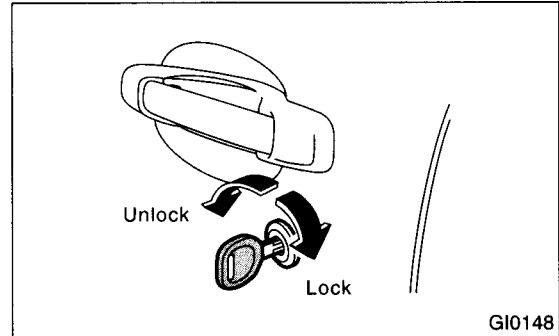
3. FUSE INSTALLATION

A vehicle just delivered has no fuses for the room lamp circuit to prevent battery discharge. Attach a 15 A fuse as shown in the figure.

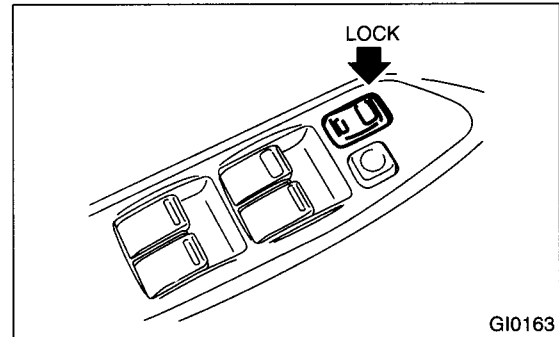


4. CHECK THE DOOR OPERATIONS, LOCK/UNLOCK AND OPEN/CLOSE, AS FOLLOWS.

Using the key, lock and unlock the door several times to check for normal operation. Open and close the door several times for smooth movement.



Operate the power door locking switch on the front door arm rest, and check that all doors lock and unlock normally.

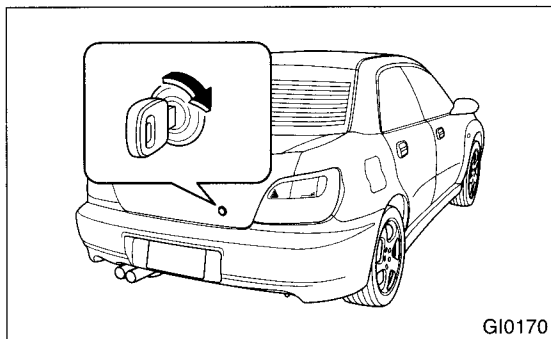


5. POWER WINDOW OPERATION CHECK

Manipulate the power window switches one by one to check that each of the power windows goes up and down with no abnormal noises.

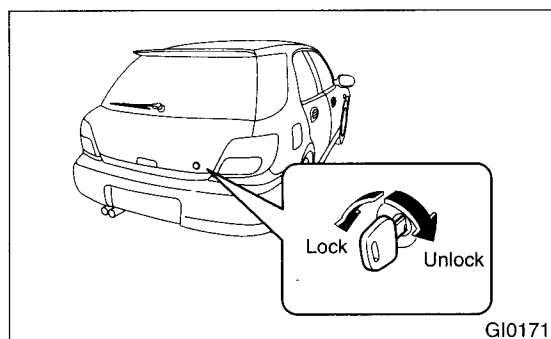
6. CHECK THE TRUNK LID OPERATIONS, OPEN/CLOSE, AS FOLLOWS.

- Operate the trunk lock release lever and verify that the trunk lid opens.
- Using the key, open the trunk lid several times to check for normal operation.
- Open and close the trunk lid several times for smooth movement.



7. CHECK THE REAR GATE OPERATIONS, LOCK/UNLOCK AND OPEN/CLOSE, AS FOLLOWS.

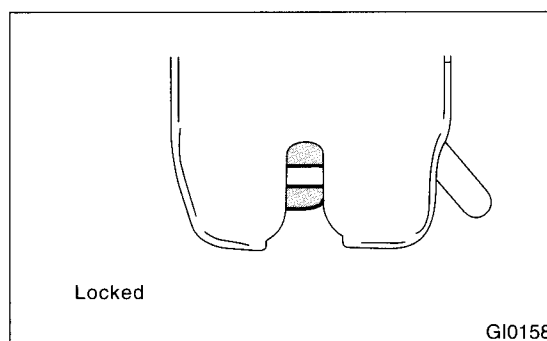
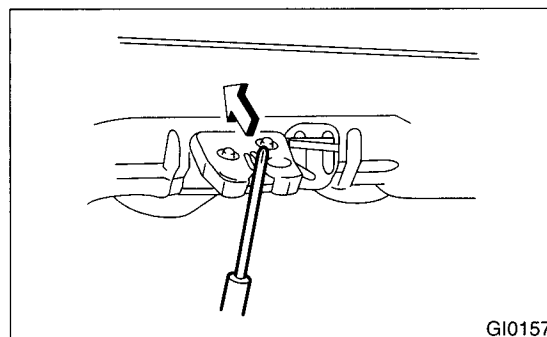
- Using the key, lock and unlock the rear gate several times to check for normal operation.
- Open and close the rear gate several times for smooth movement.



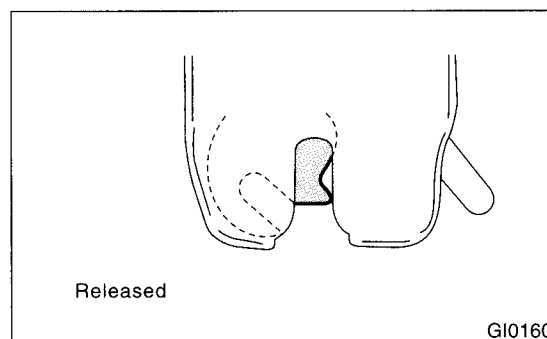
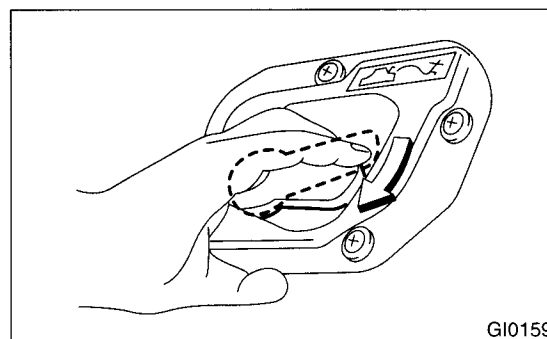
- Operate the power door locking switch to check that the rear gate is locked and unlocked normally.

8. OPERATION CHECK OF TRUNK LID RELEASE HANDLE

- 1) Use a screwdriver with a thin blade. Slide the screwdriver blade from the slit aperture of the lock assembly fully to the end until you hear a click. This places the latch in the locked position.



- 2) Move the release handle from outside the vehicle, in the direction of the arrow to check if the latch is released.



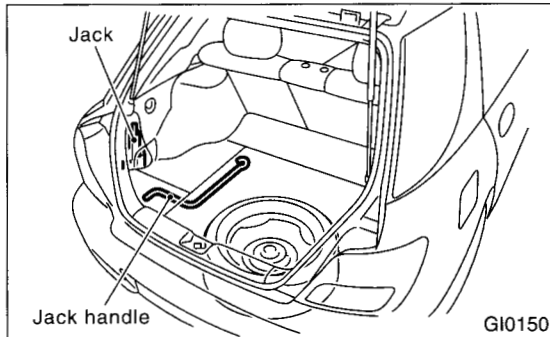
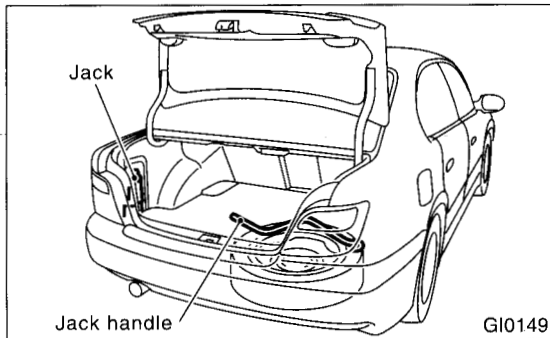
9. OPERATION CHECK OF FUEL LID OPENER LOCK RELEASE LEVER

Operate the fuel lid opener and verify that the fuel lid opens normally. Check that the filler cap is securely closed.

10.ACCESSORY CHECK

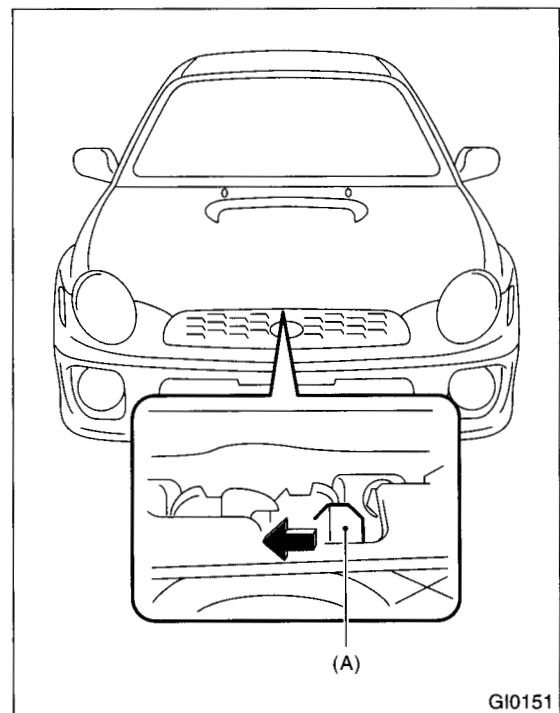
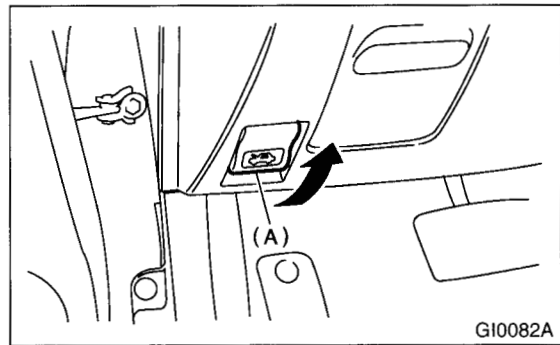
Check that the following accessories are provided in the luggage compartment or cargo area.

- Owner's manual
- Warranty booklet
- Service booklet
- Spare key
- Jack
- Tool set
- Spare tire



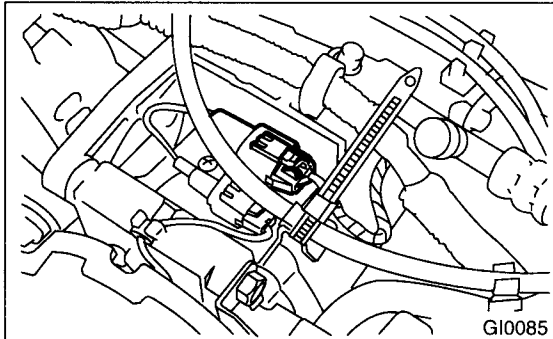
11.OPERATION CHECK OF HOOD LOCK RELEASE SYSTEM

Unlatch and open the hood while checking that no abnormal conditions are found. Then, support the hood with the hood stay.



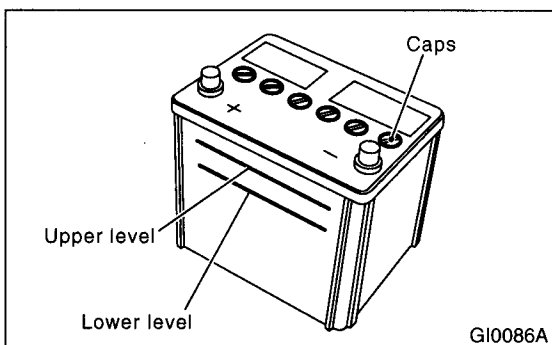
12.CONNECTION OF AIR CONDITIONER HARNESS

A vehicle just delivered has its air conditioner harness disconnected to protect the air conditioner compressor. Connect the harness as shown in the figure.



13.BATTERY

Check the battery terminals to make sure that no rust or corruptions due to fluid leaks are found. Check that the battery caps are securely tightened.

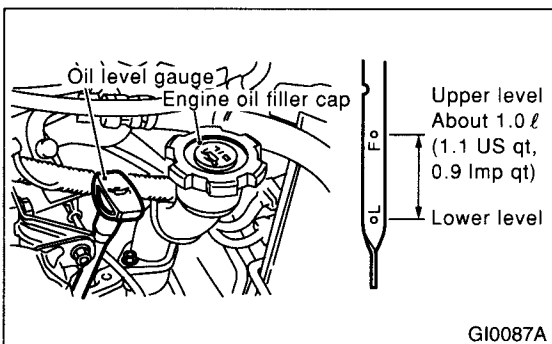


14.BRAKE FLUID

Check the brake fluid amount. If the amount is insufficient, carry out a brake line test to identify brake fluid leaks and check the brake operation. After that, refill the brake fluid tank with the specified type of fluid.

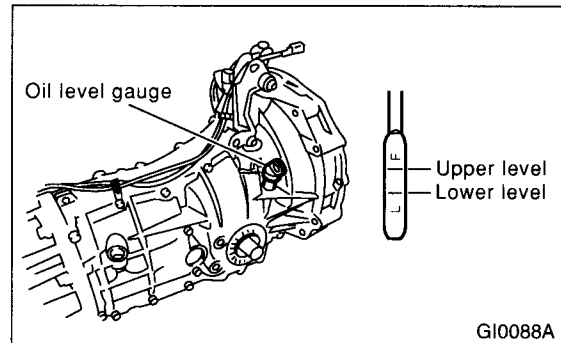
15.ENGINE OIL

Check the engine oil amount. If the amount is insufficient, check that no leaks are found. Then, add the necessary amount of the specified engine oil.



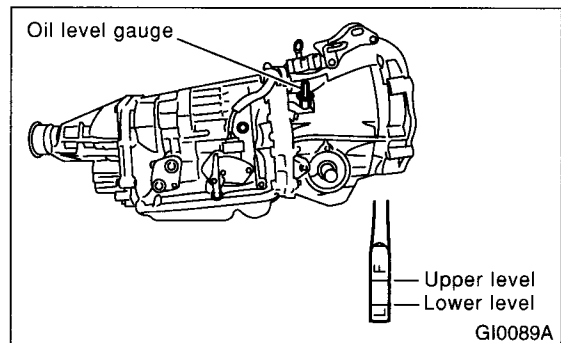
16.TRANSMISSION FLUID

Check the transmission fluid amount. If the amount is insufficient, check that no leaks are found. Then, add the necessary amount of the specified fluid.



17.AT FRONT DIFFERENTIAL OIL

Check the AT front differential oil amount. If the amount is insufficient, check that no leaks are found. Then, add the necessary amount of the specified AT front differential oil.

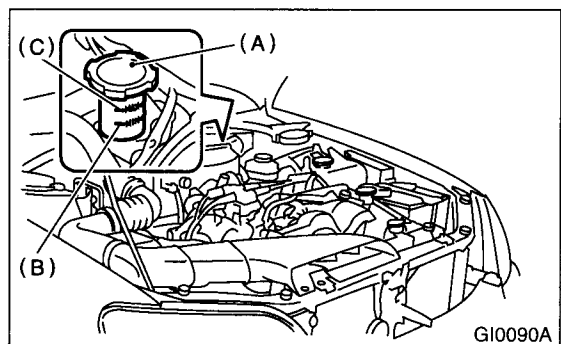


18.COOLANT

Check the coolant amount on the reservoir. If the amount is insufficient, check that no leaks are found. Then, add the necessary amount of coolant with the specified concentration.

19.CLUTCH FLUID

Check the clutch fluid amount. If the amount is insufficient, check that no leaks are found. Then, add the necessary amount of the specified fluid.



20. WINDOW WASHER FLUID

Check the window washer fluid amount. If the amount is insufficient, check that no leaks are found. Then, add the necessary amount of washer fluid commercially available.

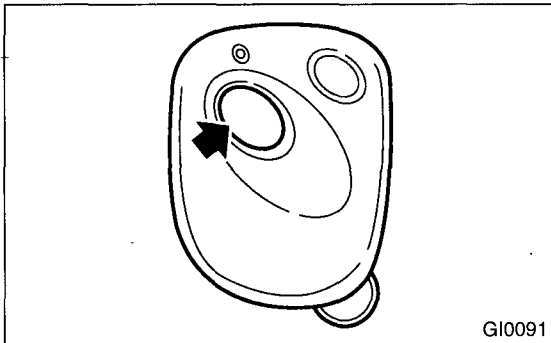
21. HOOD LATCH CHECK

Retract the hood stay and close the hood. Check that the hood is securely latched.

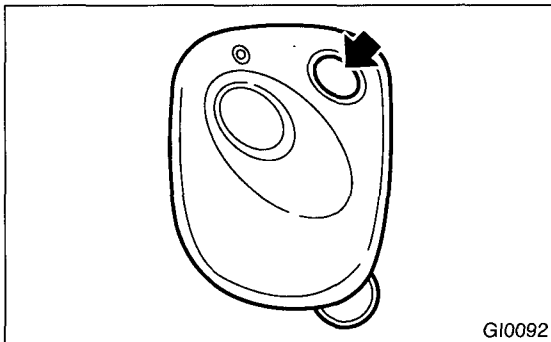
22. KEYLESS ENTRY SYSTEM

Check the keyless entry system operations as follows:

- Fully open all the door windows.
- Remove the key from the ignition switch and close all the doors including rear gate (wagon).
- Press the "LOCK/ARM" button on the transmitter momentarily once and check if all the doors are locked and the horn chirps once.

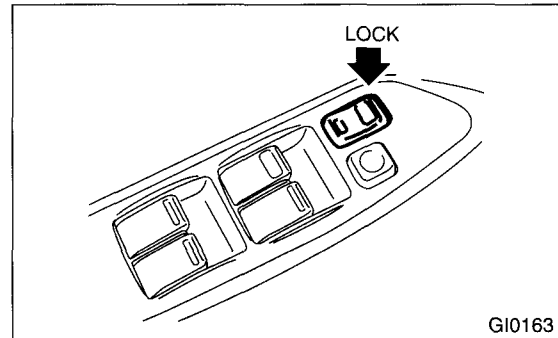


- Press the "UNLOCK/DISARM" button on the transmitter momentarily once and check if the driver's door is unlocked, the horn chirps twice and the dome light illuminates.



- Press the "UNLOCK/DISARM" button on the transmitter momentarily once again within five seconds and check if all the doors including the rear gate on wagon are unlocked.
- Press the "LOCK/ARM" button on the transmitter a little bit of time (approx. 1.5 sec.) and check if a panicking condition occurs; the horn sounds continuously. Also, check if that condition lasts for 30 seconds or until any button of the transmitter is pressed.

- Press the "LOCK/ARM" button on the transmitter momentarily once with one of the doors including the rear gate (wagon) open and check if the horn chirps three times to warn of a door ajar. Then, bring all the doors including the rear gate (wagon) in closed condition and check if all the doors are locked and the horn chirps once.
- Press the "LOCK" side of the power door locking switch with any one of the doors including the rear gate (wagon) open. Then, bring all the doors including the rear gate (wagon) in the closed condition and check if all the doors are locked and the horn chirps once.



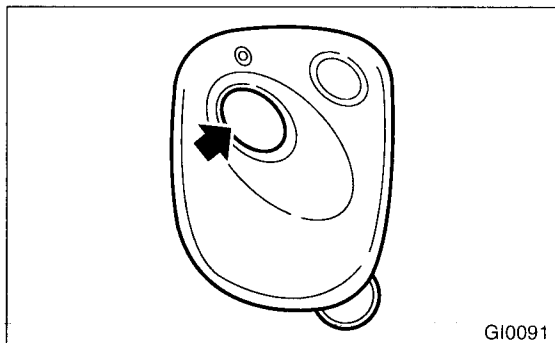
Check selecting audible signal operation.

- Using the horn, the system will give you an audible signal when the doors lock and unlock. If desired, you may turn the audible signal off. To turn the audible signal off, carry out the unlocking procedure of keyless entry system, then simultaneously depress LOCK/ARM and UNLOCK/DISARM buttons for more than two seconds. The horn will sound two times to inform you that the audible signal has been turned off. To turn the audible signal on, carry out the unlocking procedure of keyless entry system, then simultaneously depress LOCK/ARM and UNLOCK/DISARM buttons for more than two seconds. The horn will sound one time to inform you that the audible signal has been turned on.

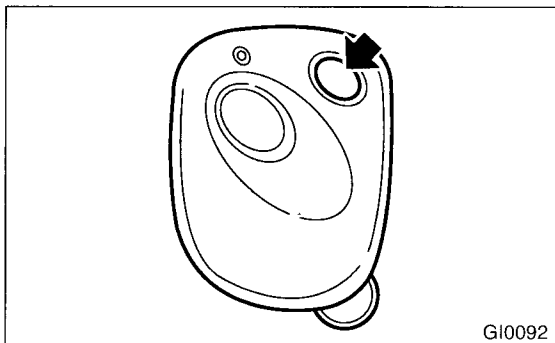
23.SECURITY SYSTEM

Check the security system operations as follows:

- Fully open all the door windows.
- Remove the key from the ignition switch and close all the doors including rear gate (wagon).
- Press the "LOCK/ARM" button on the transmitter momentarily once and check if all the doors are locked, the horn chirps once, the parking lights flash once and the security indicator light flashes slowly to ensure that the security system has been brought into the arming state.



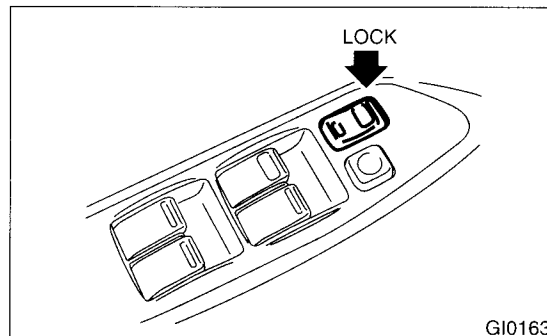
- Press the "UNLOCK/DISARM" button on the transmitter momentarily once and check if the driver's door is unlocked, the horn chirps twice, the parking light flash twice, the dome light illuminates and the security indicator light goes off to ensure that the system has been brought into the disarming state.



- Press the "UNLOCK/DISARM" button on the transmitter momentarily once again within five seconds and check if all the doors including the rear gate on wagon are unlocked.
- Press the "LOCK/ARM" button on the transmitter a little bit of time (approx. 1.5 sec.) and check if a panicking condition occurs; the horn sounds continuously, the parking lights flash and the security indicator light flashes rapidly. Also, check if that condition lasts for 30 seconds or until any button of the transmitter is pressed.
- Press the "LOCK/ARM" button on the transmitter momentarily once with one of the doors including the rear gate (wagon) open and check if the horn chirps three times to warn of a door ajar.

Then, bring all the doors including the rear gate (wagon) in closed condition and check if the arming condition is brought about; all the doors are locked, the horn chirps once and the parking lights flash once.

- Press the "LOCK" side of the power door locking switch with any one of the doors including the rear gate (wagon) open. Then, bring all the doors including the rear gate (wagon) in the closed condition and check if all the doors are locked, the horn chirps once and the parking lights flash once to ensure that the security system has been brought into the arming state.



- Unlock a door using the inner lock knob or the key and open the door while the security system is in the arming state. Check to ensure that the alarming condition occurs, i.e. the horn sounds continuously, the parking lights flash and security indicator light flashes rapidly, and that it lasts for 30 seconds or until the "UNLOCK/DISARM" button on the transmitter is pressed. Also, check to ensure that turning the ignition key to the "START" position in the arming state does not cause the starter motor to turn, thus the engine being prevented from starting.
- Apply a shock to the vehicle body with the security system in arming state, and check to ensure that the alarming condition occurs.
- Troubleshoot the security system if any one of the above-mentioned checks does not meet the requirements.

24.SEAT

Check that each seat provides full functionality in sliding and reclining. Check all available functions of the rear seat such as a trunk-through center arm rest.

25.SEAT BELT

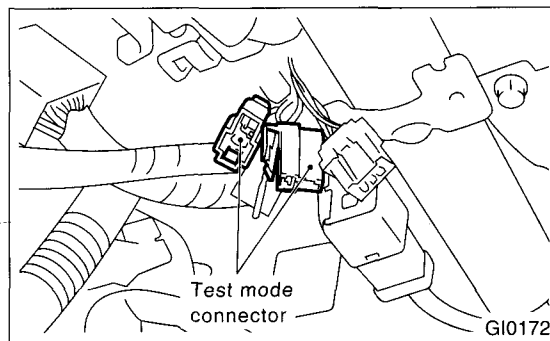
- Pull out the seat belt and then release it. Check that the belt webbing retracts smoothly.
- Check the seatbelt warning light and chime operations.

26. WHEEL ALIGNMENT

Check the wheel alignments. <Ref. to FS-8, Wheel Alignment.> and <Ref. to RS-9, Wheel Alignment, >

27. READ MEMORY AND TEST MODE CONNECTORS

Turn the ignition switch to ON and check that the check-engine light starts blinking. If the light blinks, return the ignition key to LOCK and disconnect the test mode connector. Then, turn the ignition key to ON again. If the check-engine light blinks at that time in spite of the disconnected test mode connector, carry out an engine diagnosis.



28. KEY WARNING SYSTEM

Check that the chime sounds when the driver's door opens and the key is in the "LOCK" or "ACC" position.

29. STARTING CONDITION

Start the engine and check that the engine starts smoothly. If any battery voltage problems are found, recharge or replace the battery. If any abnormal noises are observed, immediately stop the engine and check and repair the necessary components.

30. EXHAUST SYSTEM

Listen to the exhaust noise to see if no abnormal noises are observed.

31. INDICATOR LIGHT

Check that all the indicator lights are off.

32. CLOCK

Check the clock for normal operations and enough accuracy.

33. RADIO

Check the radio for full functionality and normal noise level. Also check the CD unit operations.

34. CIGARETTE LIGHTER

Check the cigarette lighter operations.

35. LIGHTING SYSTEM

- Check the headlight operations.
- Check the brake light operations.
- Check the other lights for normal operations.
- Check the daytime running light system operations.
- Check the illumination brightness control system operations.

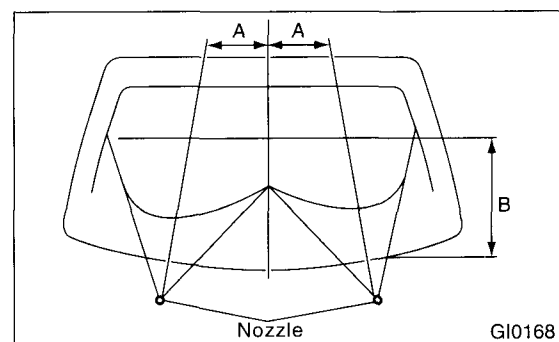
36. WINDOW WASHER

Check that the window washer system injects washer fluid to the specified area of the windshield shown in the figure.

Front Injection position:

A: 257mm (10.12 in)

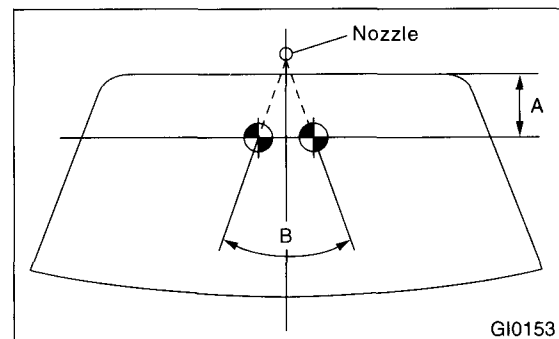
B: 512mm (20.16 in)



Rear Injection position:

A: 39 mm (2.36 in)

B: 72°



37. WIPER

Check the front and rear wipers for normal operations.

38. BRAKE TEST

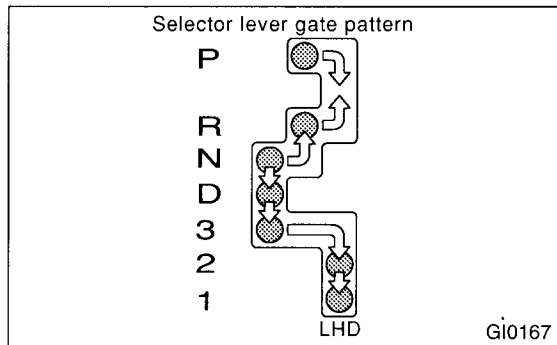
Check the foot brake for normal operations.

39. PARKING BRAKE

Check the parking brake for normal operations.

40. AT SHIFT CONTROL

Set the AT selector lever to each gear position while checking that the demanded gear position is correctly attained.



Selector Position	Gear Position			
	1st	2nd	3rd	4th
D	Yes	Yes	Yes	Yes
3	Yes	Yes	Yes	
2	Yes	Yes		
1	Yes			

- Check the shift lock system operations.
- Check the key interlock system operations.

41. HEATER & VENTILATION

Operate the heater and ventilation system to check for normal airflow and heating capacity.

42. AIR CONDITIONER

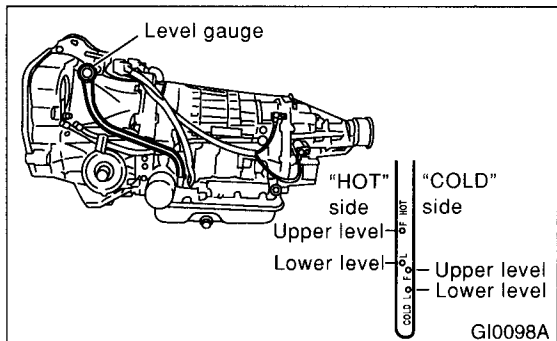
Operate the air conditioner. Check that the A/C compressor operates normally and enough cooling is provided.

43. CRUISE CONTROL

Operate the cruise control system. Check that the system is activated and deactivated correctly.

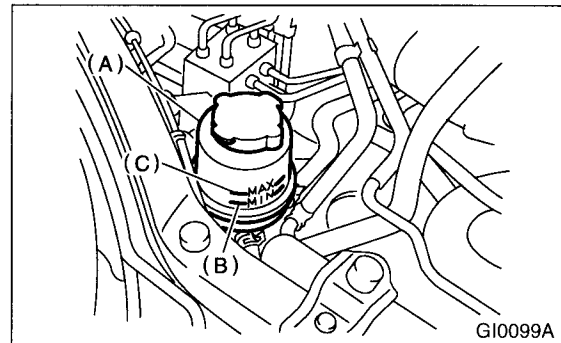
44. ATF LEVEL

Check that the ATF level is normal. If insufficient, check that no leaks are found. Then add the necessary amount of the specified ATF.



45. POWER STEERING FLUID LEVEL

Check that the power steering fluid level is normal. If insufficient, check that no leaks are found. Then add the necessary amount of the specified power steering fluid.



46. FLUID LEAK CHECK

Check the entire areas of the vehicle for any trace of coolant/oil/fluid leaks.

47. WATER LEAK TEST

Spray the vehicle with water and check that no water enters the passenger compartment.

- Before performing the water leakage test, remove anything that may obstruct the operation or which must be kept dry.
- Close all of the windows completely, and then close all of the doors tightly. Close the hood and trunk lid before starting the test.
- Connect a hose to a tap, and spray water on the vehicle. The rate of water discharge must be approx. 20 to 25 liters (5.3 to 6.6 US gal, 4.4 to 5.5 Imp gal) per minute.

When spraying water on areas adjacent to the floor and wheel house, increase the pressure. When directing water on areas other than the floor portion and wheel house, decrease the pressure. But the force of water must be made strong occasionally by pressing the end of the hose.

NOTE:

Be sure to keep the hose at least 10 cm (3.9 in) from the vehicle.

- Check the following areas:
 - Front window and body framework mating portion
 - Door mating portions
 - Glass mating portions
 - Rear quarter window mating portions
 - Rear window and body framework mating portion
 - Around roof drips

- If any dampness in the compartments is discovered after the water has been applied, carefully check all areas that may have possibly contributed to the leak.

48.APPEARANCE CHECK 2

Check the vehicle body paints, plated faces, glass, and lenses for any dirt or damage.

PERIODIC MAINTENANCE SERVICES

PM

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GENERAL DESCRIPTION

PERIODIC MAINTENANCE SERVICES

1. General Description

A: GENERAL

Be sure to perform periodic maintenance in order to maintain vehicle performance and find problems before they become serious.

2. Schedule

A: MAINTENANCE SCHEDULE 1

		MAINTENANCE INTERVAL																	
		[Number of months or km (miles), whichever occurs first]																	
	Months	3	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	112.5	120	Remarks
	× 1,000 km	4.8	12	24	36	48	60	72	81.4	96	108	120	132	144	156	168	180	192	
	× 1,000 miles	3	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	112.5	120	
1	Engine oil	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
2	Engine oil filter	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
3	Spark plugs					R				R				R				R	For 2.5 L
										R								R	For Turbo
4	Drive belt(s)					I				I				I		R			
5	Camshaft Drive belt					I				I				I		R			
6	Fuel line					(I)				(I)				(I)				I	Note (1)
7	Fuel filter					(R)				(R)				(R)				R	Note (1)
8	Air cleaner element					R				R				R				R	Note (2)
9	Cooling system					I				I				I				I	
10	Coolant					R				R				R				R	
11	Clutch system			I		I		I		I		I		I		I		I	
12	Transmission oil					I				I				I				I	
13	ATF					I				I				I				I	Note (3)
14	Front & rear differential oil					I				I				I				I	
15	Brake line			I		I		I		I		I		I		I		I	
16	Brake fluid					R				R				R				R	
17	Disc brake pads & discs					I				I				I				I	
18	Brake linings and drums					I				I				I				I	
19	Parking brake			I		I		I		I		I		I		I		I	
20	Suspension			I		I		I		I		I		I		I		I	
21	Wheel bearing					I				I								(I)	
22	Axle boots & joints			I		I		I		I		I		I		I		I	
23	Tire rotation		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	Note (4)
24	Steering system (Power steering)			I		I		I		I		I		I		I		I	
25	Supplement restraint system	Inspect every 10 years																	

Symbols used:

R: Replace

I: Inspection

(R) or (I): Recommended service for safe vehicle operation.

NOTE:

(1) This inspection is not required to maintain emission warranty eligibility and it does not affect the manufacturer's obligations under EPA's in-use compliance program.

(2) When the vehicle is used in extremely dusty conditions, the air cleaner element should be replaced more often.

(3) ATF filter is maintenance free part. ATF filter needs replacement, when it has physically damaged or ATF leaked.

(4) A tire should be replaced when the tread wear indicator appears as a solid band across the tread. The indicators appear when the remaining tread has been worn to 1.6 mm (0.063 in) or less.

SCHEDULE

PERIODIC MAINTENANCE SERVICES

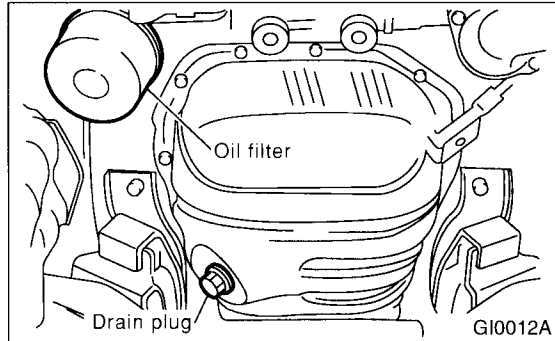
B: MAINTENANCE SCHEDULE 2

Item	Every	Repeat short distance drive	Repeat rough/muddy road drive	Extremely cold weather area	Salt or other corrosive used or coastal area	High humidity or mountain area	Repeat towing trailer
Engine oil	3.75 months	R		R			R
	6,000 km						
	3,750 miles						
Engine oil filter	3.75 months	R		R			R
	6,000 km						
	3,750 miles						
Fuel filter	15 months				I		
	24,000 km						
	15,000 miles						
Fuel line	15 months				I		
	24,000 km						
	15,000 miles						
Transmission oil	15 months						R
	24,000 km						
	15,000 miles						
ATF	15 months						R
	24,000 km						
	15,000 miles						
Front & rear differential oil	15 months						R
	24,000 km						
	15,000 miles						
Brake line	15 months	I	I		I		I
	24,000 km						
	15,000 miles						
Brake fluid	15 months					R	
	24,000 km						
	15,000 miles						
Disc brake pads & discs	15 months	I	I		I		I
	24,000 km						
	15,000 miles						
Brake linings and drums	15 months	I	I		I		I
	24,000 km						
	15,000 miles						
Parking brake	15 months	I	I		I		I
	24,000 km						
	15,000 miles						
Suspension	7.5 months		I	I	I		I
	12,000 km						
	7,500 miles						
Axle boots & joints	7.5 months	I	I	I	I		I
	12,000 km						
	7,500 miles						
Steering system (Power steering)	7.5 months	I	I	I	I		I
	12,000 km						
	7,500 miles						

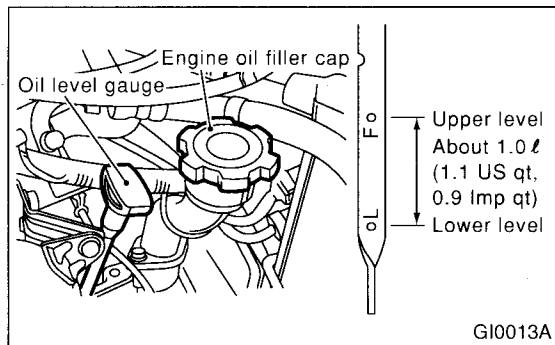
3. Engine Oil

A: REPLACEMENT

1) Drain the engine oil by loosening engine oil drain plug.



2) Open the engine oil filler cap for quick draining of the engine oil.

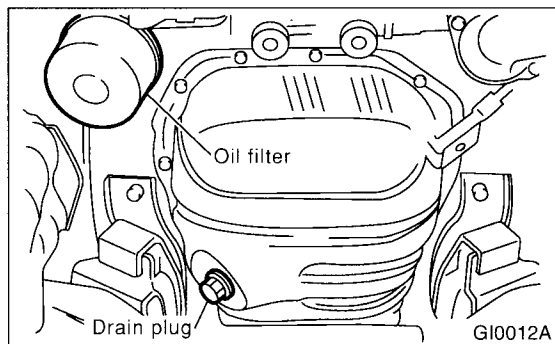


3) Replace the drain plug gasket.

4) Tighten the engine oil drain plug after draining engine oil.

Tightening torque:

44 N·m (4.5 kgf-m, 33 ft-lb)



5) Fill the engine oil through filler pipe up to the upper point on level gauge. Make sure that the vehicle is placed level when checking oil level. Use engine oil of proper quality and viscosity, selected in accordance with the table in figure.

Engine oil capacity (Non-TURBO model):

Upper level

4.0 l (4.2 US qt, 3.5 Imp qt)

Lower level

3.0 l (3.2 US qt, 2.6 Imp qt)

Engine oil capacity (TURBO model):

Upper level

4.5 ℓ (4.8 US qt, 4.0 Imp qt)

Lower level

3.5 l (3.7 US qt, 3.1 Imp qt)

SAE Viscosity No. and Applicable Temperature						
(°C)	-30	-20	-15	0	15	30 40
(°F)	-22	-4	5	32	59	86 104

GI0015A

The proper viscosity helps vehicle get good cold and hot starting by reducing viscous friction and thus increasing cranking speed.

NOTE:

- When replenishing oil, it does not matter if the oil to be added is a different brand from that in the engine; however, use oil having the API classification and SAE viscosity No. designated by SUBARU.
- If vehicle is used in desert areas with very high temperatures or for other heavy duty applications, the following viscosity oils may be used:

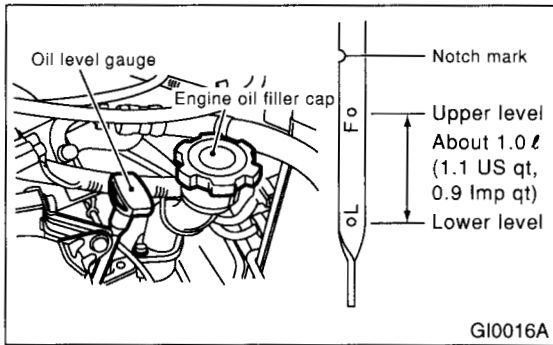
API classification: SJ or SH

SAE Viscosity No.: 30, 40, 10W-50, 20W-40, 20W-50

6) Close the engine oil filler cap.

7) Start the engine and warm it up for a time.

8) After the engine stops, recheck the oil level. If necessary, add the engine oil up to the upper level on level gauge.



B: INSPECTION

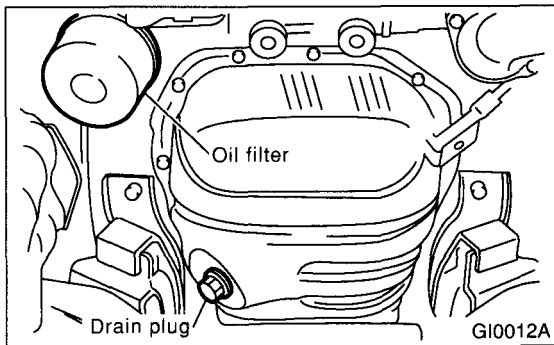
- 1) Park vehicle on a level surface.
- 2) Remove the oil level gauge and wipe it clean.
- 3) Reinsert the level gauge all the way. Be sure that the level gauge is correctly inserted and in the proper orientation.
- 4) Remove it again and note the reading. If the engine oil level is below the "L" line, add oil to bring the level up to the "F" line.
- 5) After turning off the engine, wait a few minutes for the oil to drain back into the oil pan before checking the level.
- 6) Just after driving or while the engine is warm, the engine oil level may show in the range between the "F" line and the notch mark. This is caused by thermal expansion of the engine oil.
- 7) To prevent overfilling the engine oil, do not add the oil above the "F" line when the engine is cold.

4. Engine Oil Filter

A: REPLACEMENT

1) Remove the oil filter with ST.

ST 498547000 OIL FILTER WRENCH



2) Get a new oil filter and apply a thin coat of engine oil to the seal rubber.

3) Install the oil filter by turning it by hand, being careful not to damage seal rubber.

4) Tighten more (approximately $2/3$ to $3/4$ turn) after the seal rubber contacts the oil pump case. Do not tighten excessively, or oil may leak.

5) After installing oil filter, run the engine and make sure that no oil is leaking around seal rubber.

NOTE:

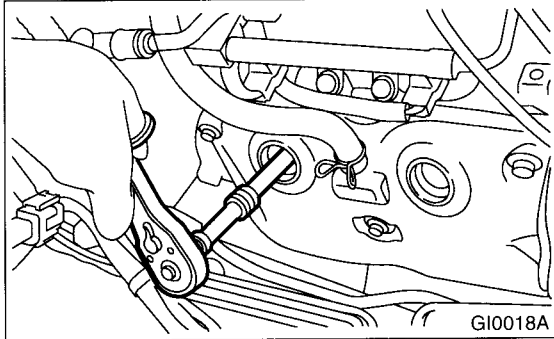
The filter element and filter case are permanently joined; therefore, interior cleaning is not necessary.

6) Check the engine oil level. <Ref. to PI-3, PDI PROCEDURE, Pre-delivery Inspection.>

5. Spark Plugs

A: REPLACEMENT

- 1) Remove the intake duct and intake chamber.
- 2) Remove the washer tank and put it aside.
- 3) Disconnect the spark plug cord.
- 4) Remove the spark plug with a plug-wrench.



- 5) Set the new spark plug.

Recommended spark plug :

Non-Turbo model

CHAMPION RC10YC4 (Standard)

NGK BKR5E-11

NGK BKR6E-11

Spark plug gap

1.0 — 1.1 mm (0.039 — 0.043 in)

Turbo model

NGK PFR6G

Spark plug gap

0.7 — 0.8 mm (0.028 — 0.031 in)

- 6) Tighten the spark plug lightly with hand, and then secure with a plug-wrench to the specified torque.

Tightening torque:

20.6 N·m (2.10 kgf·m, 15.19 ft·lb)

NOTE:

- Be sure to place the gasket between the cylinder head and spark plug.
- If the torque wrench is not available, tighten spark plug until gasket contacts cylinder head; then tighten further 1/4 to 1/2 turns.

6. Drive Belt(s)

A: INSPECTION

- 1) Replace the belts, if cracks, fraying or wear is found.
- 2) Check the drive belt tension and adjust it if necessary by changing generator installing position and/or idler pulley installing position.

Belt tension

(A)

replaced: 7 — 9 mm (0.276 — 0.354 in)

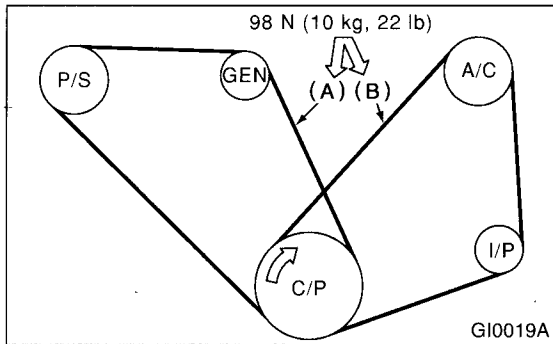
reused: 9.0 — 10.0 mm (0.354 — 0.394 in)

(B)*

replaced: 7.5 — 8.5 mm (0.295 — 0.335 in)

reused: 9.0 — 10.0 mm (0.354 — 0.394 in)

*: There is no belt (B) on models without an air conditioner.

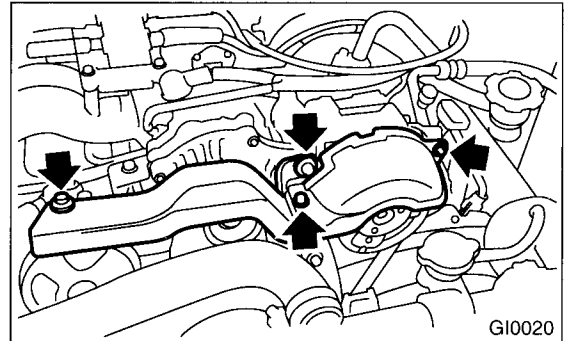


C/P	Crankshaft pulley
GEN	Generator
P/S	Power steering oil pump pulley
A/C	Air conditioning compressor pulley
I/P	Idler pulley

B: REPLACEMENT

1. V-BELT COVER

- 1) Remove the V-belt cover.



2. FRONT SIDE BELT (DRIVING POWER STEERING OIL PUMP AND GENERATOR)

NOTE:

Wipe off any oil or water on the belt and pulley.

- 1) Loosen the lock bolt (A).
- 2) Loosen the slider bolt (B).
- 3) Remove the front side belt (C).
- 4) Install a new belt, and tighten the slider bolt so as to obtain the specified belt tension.
- 5) Tighten the slider bolt (B).
- 6) Tighten the lock bolt (A).

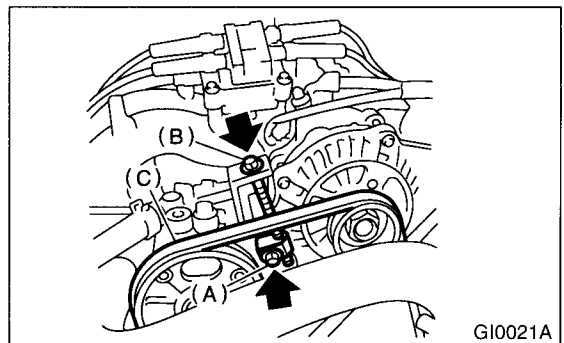
Tightening torque:

Lock bolt, through bolt:

25 N·m (2.5 kgf-m, 18 ft-lb)

Slider bolt:

8 N·m (0.8 kgf-m, 5.8 ft-lb)



3. REAR SIDE BELT (DRIVING AIR CONDITIONER)

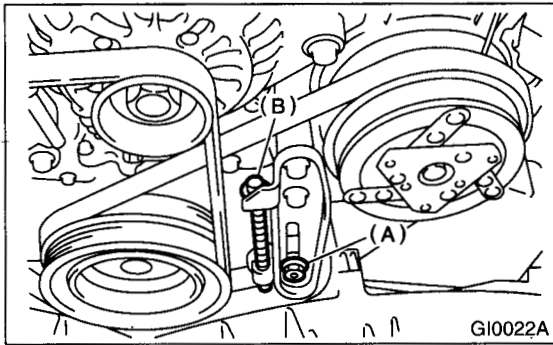
NOTE:

- Wipe off any oil or water on the belt and pulley.
- Before removing the rear side belt, remove the front side belt.

- 1) Loosen the lock nut (A).
- 2) Loosen the slider bolt (B).
- 3) Remove the rear side belt.
- 4) Install a new belt, and tighten the slider bolt so as to obtain the specified belt tension.
- 5) Tighten the slider bolt (B).
- 6) Tighten the lock nut (A).

Tightening torque:

22.6 N·m (2.3 kgf-m, 16.6 ft-lb)



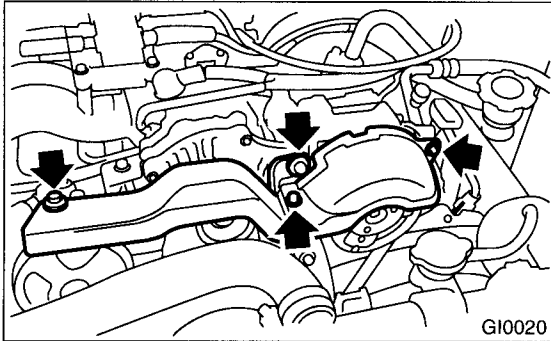
7. Camshaft Drive Belt

A: REPLACEMENT

1. SOHC MODEL

1) Remove the radiator fan <Ref. to CO-9, Radiator Main Fan System.> and air conditioner fan. <Ref. to CO-17, Radiator Sub Fan System.>

2) Remove the V-belt cover.

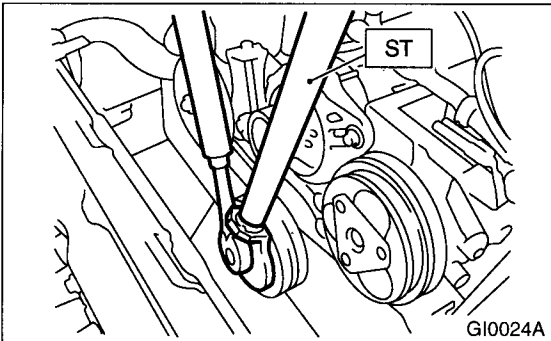


3) Remove the V-belts. <Ref. to ME(SOHC)-43, V-belt.>

4) Remove the air conditioning compressor drive belt tensioner.

5) Remove the pulley bolt. To lock crankshaft use ST.

ST 499977100 CRANKSHAFT PULLEY WRENCH

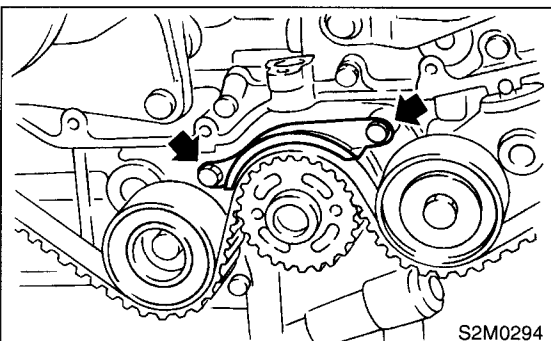


6) Remove the crankshaft pulley.

7) Remove the left side belt cover.

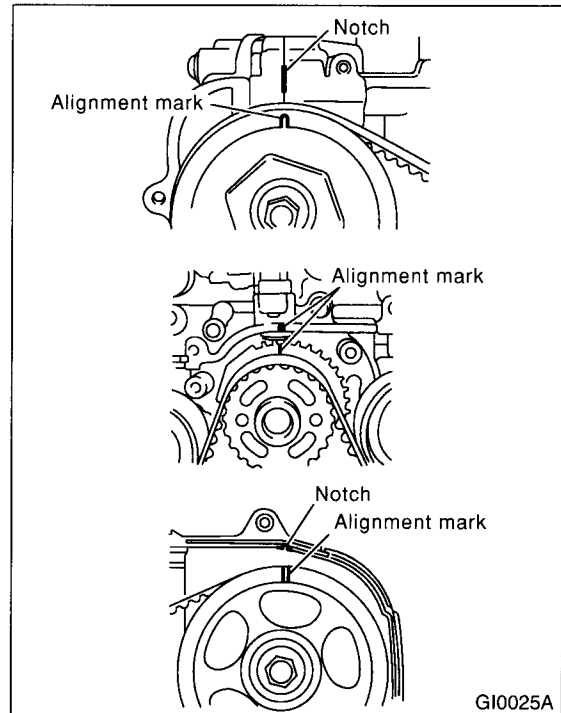
8) Remove the front belt cover.

9) Remove the timing belt guide. (MT vehicle only)



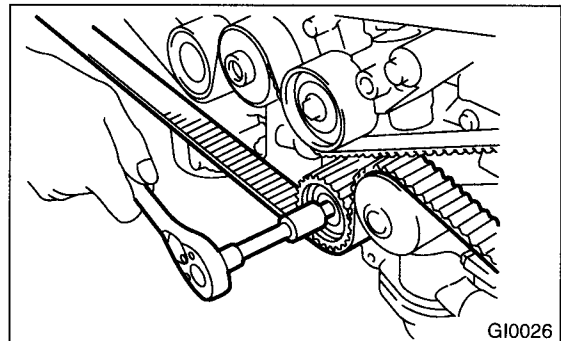
10) Turn the crankshaft and align alignment marks on crankshaft, and left and right camshaft sprockets with notches of belt cover and cylinder block:

ST 499987500 CRANKSHAFT SOCKET



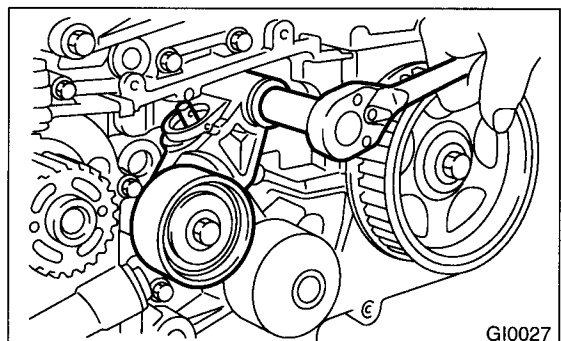
11) Remove the belt idler.

12) Remove the belt idler (No. 2).



13) Remove the timing belt.

14) Remove the automatic belt tensioner assembly.

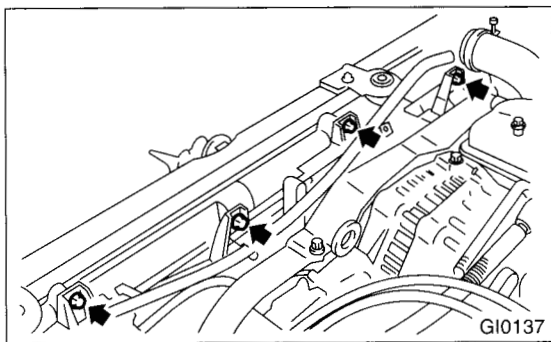


CAMSHAFT DRIVE BELT

PERIODIC MAINTENANCE SERVICES

2. DOHC MODEL

- 1) Remove the radiator fan and air conditioner fan.

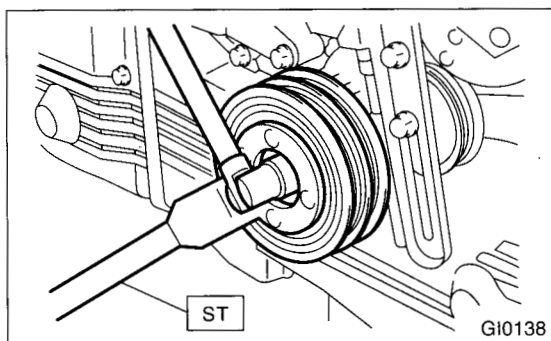


- 2) Remove the V-belts. <Ref. to ME(DOHC TURBO)-44, V-belt.>

- 3) Remove the air conditioning compressor drive belt tensioner.

- 4) Remove the pulley bolt. To lock crankshaft use ST.

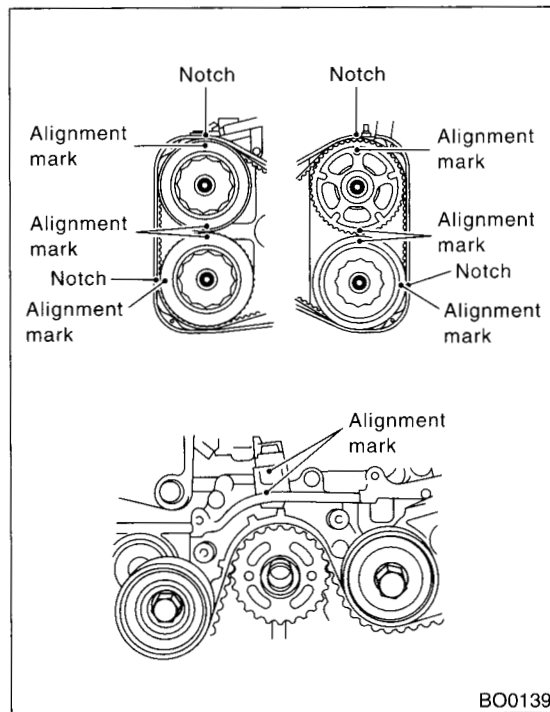
ST 499977300 CRANKSHAFT PULLEY WRENCH



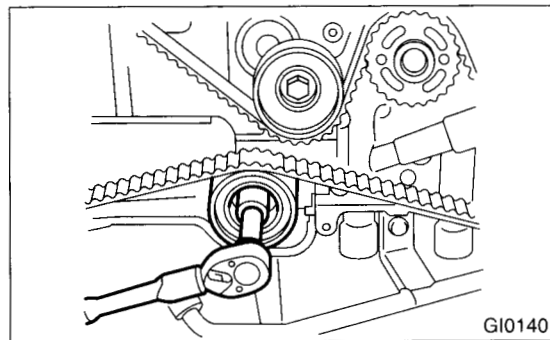
- 5) Remove the crankshaft pulley.
6) Remove the air conditioning compressor drive belt tensioner.
7) Remove the left side belt cover.
8) Remove the right side belt cover.
9) Remove the front belt cover.

- 10) Turn the crankshaft and align alignment marks on crankshaft, and left and right camshaft sprockets with notches of belt cover and cylinder block. To turn crankshaft, use ST:

ST 499987500 CRANKSHAFT SOCKET

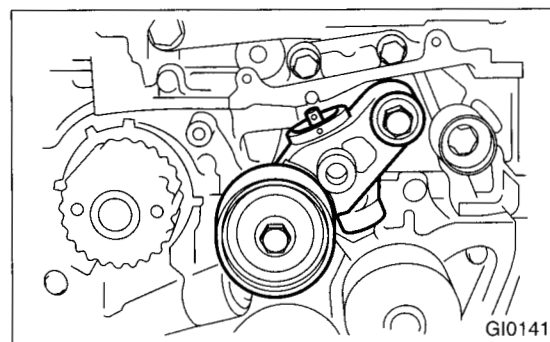


- 11) Remove the belt idler.



- 12) Remove the timing belt.

- 13) Remove the automatic belt tension adjuster assembly.



B: INSTALLATION**1. SOHC MODEL**

To install, reverse order of removal procedures.
<Ref. to ME(SOHC)-47, Timing Belt Assembly.>

2. DOHC MODEL

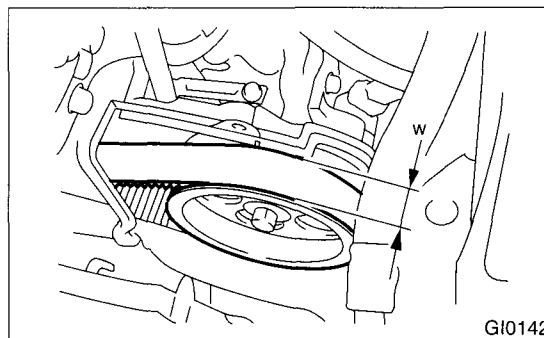
To install, reverse order of removal procedures.
<Ref. to ME(DOHC TURBO)-48, Timing Belt Assembly.>

CAUTION:

When installing the timing belt, be sure to align all alignment marks on the belt with corresponding marks on the sprockets. If incorrectly installed, interference between pistons and valves may occur.

C: INSPECTION**1. SOHC MODEL**

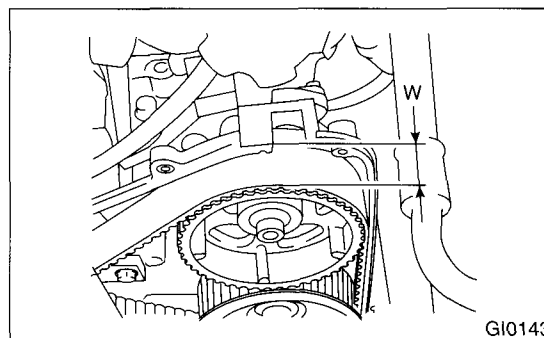
- 1) Remove the left and right timing belt covers.
- 2) While cranking engine at least four rotations, check the timing belt back surface for cracks or damage. Replace the faulty timing belt as needed.
- 3) Measure the timing belt width W. If it is less than 27 mm (1.06 in), check the idlers, tensioner, water pump pulley and cam sprocket to determine idler alignment (squareness). Replace the worn timing belt.



- 4) Install the left and right timing belt covers.

2. DOHC MODEL

- 1) Remove the left and right timing belt covers.
- 2) While cranking engine at least four rotations, check the timing belt back surface for cracks or damage. Replace the faulty timing belt as needed.
- 3) Measure the timing belt width W. If it is less than 30 mm (1.18 in), check the idlers, tensioner, water pump pulley and cam sprocket to determine idler alignment (squareness). Replace the worn timing belt.
- 4) Install the left and right timing belt covers.



8. Fuel Line

A: INSPECTION

The fuel line is located mostly internally, so check the pipes, areas near pipes, and engine compartment piping for rust, hose damage, loose bands, etc. If the faulty parts are found, repair or replace them. <Ref. to FU(SOHC)-68, Fuel Delivery, Return and Evaporation Lines.> or <Ref. to FU(DOHC TURBO)-68, Fuel Delivery, Return and Evaporation Lines.>

9. Fuel Filter

A: REPLACEMENT

For fuel filter replacement procedures, refer to "FU" section.

<Ref. to FU(SOHC)-65, Fuel Filter.> or <Ref. to FU(DOHC TURBO)-65, Fuel Filter.>

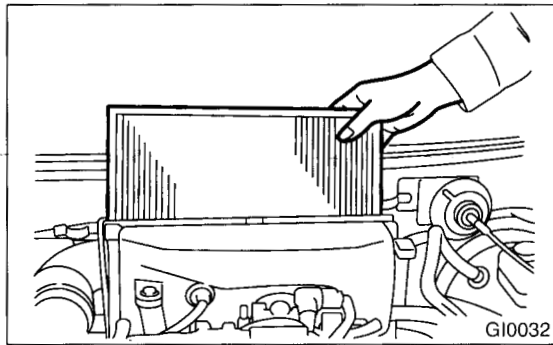
10. Air Cleaner Element

A: REPLACEMENT

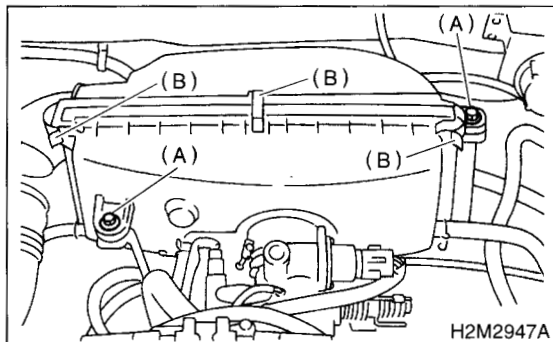
NOTE:

Do not attempt to clean the air cleaner element. The filter paper of the element is wetted with a special non-inflammable slow-evaporating viscous liquid. It is resistant to cold weather and has a long service life. Dirt adhering to this filter paper forms porous laminations with the viscous liquid, which function as a filtration layer to reduce dust penetration into the filter paper. If this filter paper is cleaned, the filtration layer thus formed will be lost along with the viscous liquid.

1. NON-TURBO MODEL



- 1) Remove the bolt (A) which install air cleaner case to stays.
- 2) Remove the clip (B) above the air cleaner case.

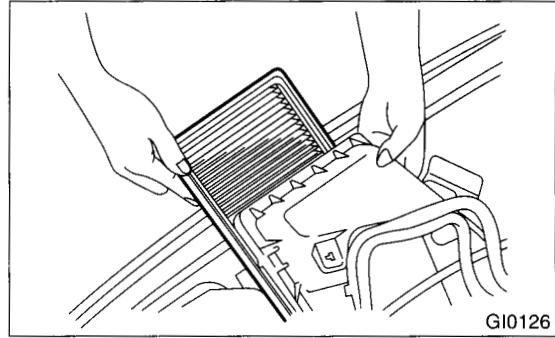


- 3) Remove the air cleaner.
- 4) Install in the reverse order of removal.

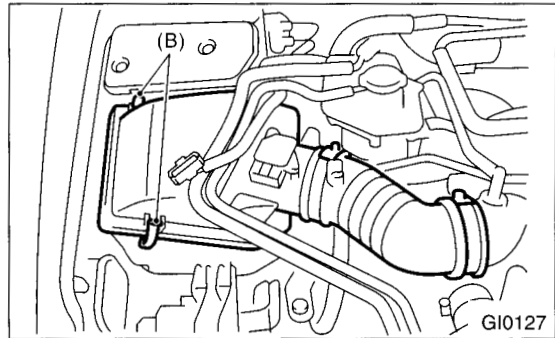
CAUTION:

Fasten with a clip after inserting the lower tab of the case.

2. TURBO MODEL



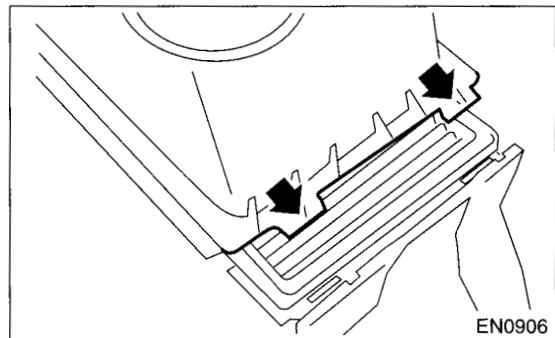
- 1) Remove the clip (B) above the air cleaner case.



- 2) Remove the air cleaner.
- 3) Install in the reverse order of removal.

CAUTION:

Before installing air cleaner upper cover, align holes with protruding portion of air cleaner lower case, then secure upper cover to lower case.



11. Cooling System

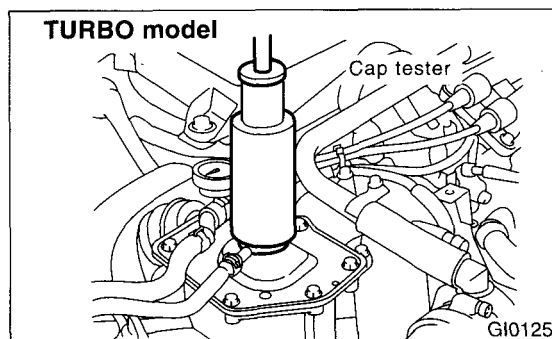
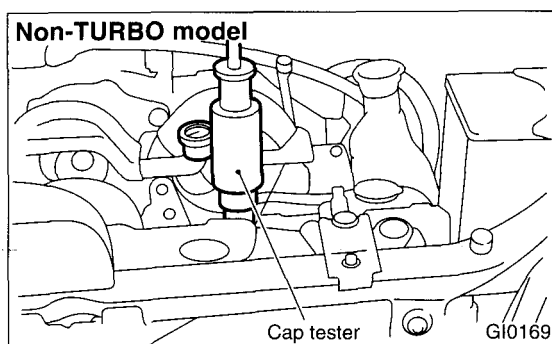
A: INSPECTION

1) Check the radiator for leakage, filling it with coolant and attach radiator cap tester to the filler neck. Then apply a pressure of 157 kPa (1.6 kg/cm², 23 psi) and check the following points:

- Each portion of radiator for leakage
- Hose joints and other connections for leakage

NOTE:

- When attaching or detaching tester and when operating tester, use special care not to deform radiator filler neck.



- When performing this check, be sure to keep the engine stationary and fill radiator with coolant.
- Wipe off check points before applying pressure.
- Use care not to spill coolant when detaching tester from radiator.

2) Check the radiator cap valve open pressure using radiator cap tester.

NOTE:

Rust or dirt on cap may prevent valve from functioning normally: be sure to clean cap before testing.

Raise the pressure until the needle of gauge stops and see if the pressure can be retained for five to six seconds. The radiator cap is normal if a pressure above the service limit value has been maintained for this period.

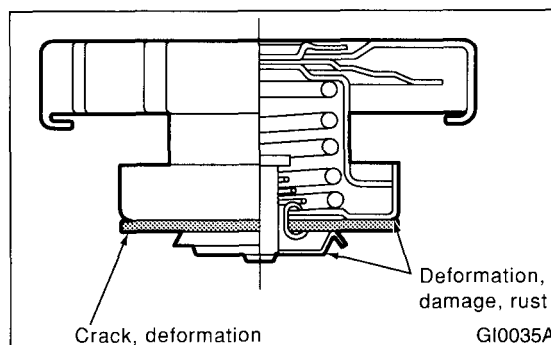
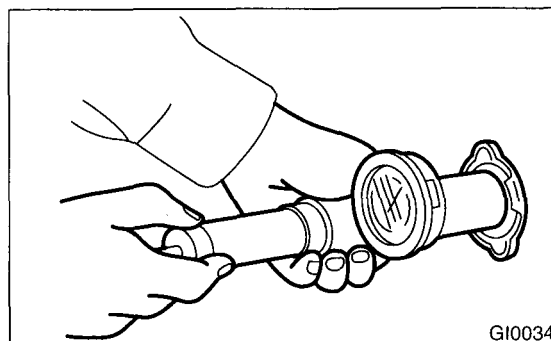
Radiator cap valve open pressure

Standard value:

93 — 123 kPa (0.95 — 1.25 kg/cm², 14 — 18 psi)

Service limit:

83 kPa (0.85 kg/cm², 12 psi)



3) If the coolant temperature exceeds 76.0 to 80.0°C (169 to 176°F) while radiator is not so hot, check thermostat. If thermostat does not open at 76.0 to 80.0°C (169 to 176°F), replace it with a new one.

4) If electric fan does not operate when coolant temperature exceeds 90 to 94°C (194 to 201°F), check thermoswitch or fan motor.

12. Coolant

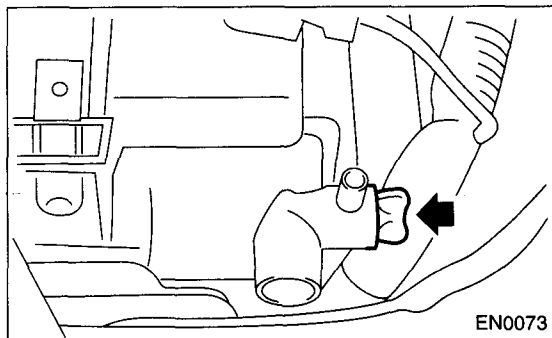
A: REPLACEMENT

1. REPLACEMENT OF COOLANT

WARNING:

The radiator is of the pressurized type. Do not attempt to open the radiator cap immediately after the engine has been stopped.

- 1) Lift up the vehicle.
- 2) Remove the under cover.
- 3) Place a container under drain pipe.
- 4) Loosen and remove the drain plug to drain engine coolant into the container.



- 5) For quick draining, open the radiator cap.

CAUTION:

Be careful not to spill coolant on the floor.

- 6) Drain the coolant from reservoir tank.
- 7) Tighten the radiator drain screw securely after draining coolant.
- 8) Slowly pour the prepared coolant from radiator filler port to neck of filler, then pour into the reservoir tank up to "FULL" level.

Coolant capacity (fill up to "FULL" level)

Non-turbo AT model:

Approx. 6.9 ℓ (7.3 US qt, 6.1 Imp qt)

Non-turbo MT model:

Approx. 7.0 ℓ (7.4 US qt, 6.2 Imp qt)

Turbo AT model:

Approx. 7.6 ℓ (8.0 US qt, 6.7 Imp qt)

Turbo MT model:

Approx. 7.7 ℓ (8.1 US qt, 6.8 Imp qt)

NOTE:

The SUBARU Genuine Coolant containing anti-freeze and anti-rust agents is especially made for SUBARU engine, which has an aluminum crank-case. Always use SUBARU Genuine Coolant, since other coolant may cause corrosion.

- 9) Securely install the radiator cap.
- 10) Run engine for more than five minutes at 2,000 to 3,000 rpm. (Run engine until radiator becomes hot in order to purge air trapped in cooling system.)

- 11) Stop the engine and wait until coolant temperature lowers. Then open the radiator cap to check coolant level and add coolant up to radiator filler neck. Next, add coolant into reservoir tank up to "FULL" level.

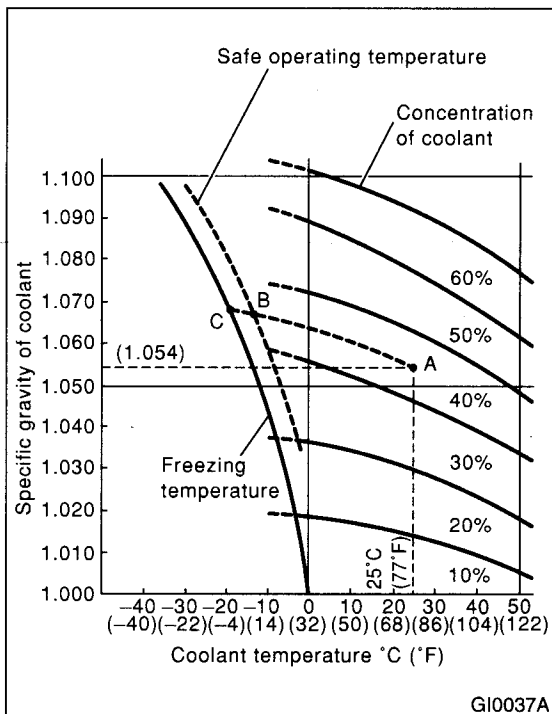
- 12) After adding coolant, securely the install radiator and reservoir tank caps.

2. RELATIONSHIP OF SUBARU COOLANT CONCENTRATION AND FREEZING TEMPERATURE

The concentration and safe operating temperature of the SUBARU coolant is shown in the diagram. Measuring the temperature and specific gravity of the coolant will provide this information.

[Example]

If the coolant temperature is 25°C (77°F) and its specific gravity is 1.054, the concentration is 35% (point A), the safe operating temperature is -14°C (7°F) (point B), and the freezing temperature is -20°C (-4°F) (point C).



3. PROCEDURE TO ADJUST THE CONCENTRATION OF THE COOLANT

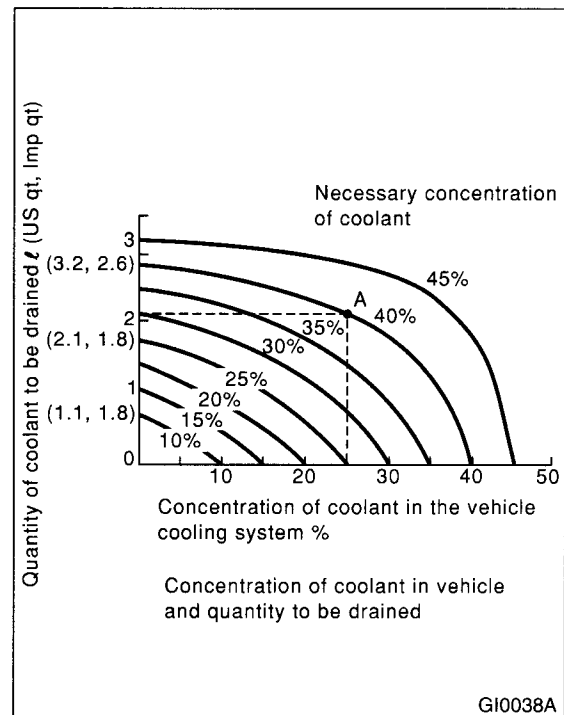
To adjust the concentration of the coolant according to temperature, find the proper fluid concentration in the above diagram and replace the necessary amount of coolant with an undiluted solution of SUBARU genuine coolant (concentration 50).

The amount of coolant that should be replaced can be determined using the diagram.

[Example]

Assume that the coolant concentration must be increased from 25% to 40%. Find point A, where the 25% line of coolant concentration intersects with the 40% curve of the necessary coolant concentration, and read the scale on the vertical axis of the graph at height A. The quantity of coolant to be drained is 2.1 liters (2.2 US qt, 1.8 Imp qt). Drain 2.1 liters (2.2 US qt, 1.8 Imp qt) of coolant from the cooling system and add 2.1 liters (2.2 US qt, 1.8 Imp qt) of the undiluted solution of SUBARU coolant.

If a coolant concentration of 50% is needed, drain all the coolant and refill with the undiluted solution only.



13. Idle Mixture

A: INSPECTION AND ADJUSTMENT

1. IDLE MIXTURE

Before measuring the idle mixture, make sure that the ignition timing and the engine idle speed are within specifications.

- 1) Set the gear position at "Neutral" for MT, or "N" or "P" for AT.
- 2) Warm up the engine sufficiently until cooling fan starts to operate.
- 3) Measure the idle mixture with the CO meter.

Engine idle speed	CO
700±100 rpm	1.0±0.5%

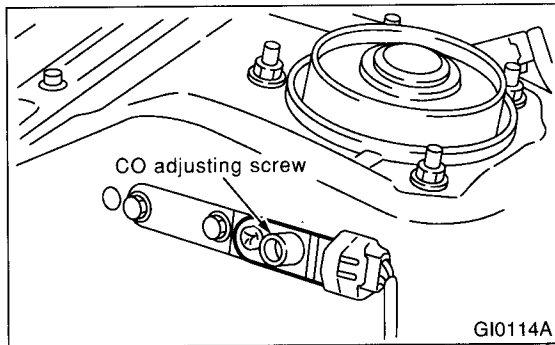
4) If out of specification, adjust the idle mixture using CO adjusting screw of mass air flow sensor.

5) After adjusting the CO value, check and adjust the increment coefficient of CO resistor by using Select Monitor.

(1) Select the "Current data display & Save" on the select monitor.

(2) If out of specified data, adjust the increment coefficient of CO resistor while rotating CO adjusting screw.

Specified data:
0.28 — 4.22 V



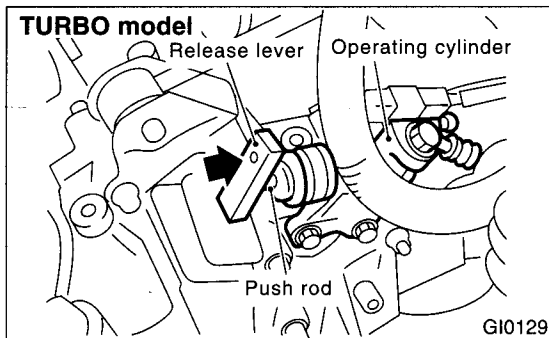
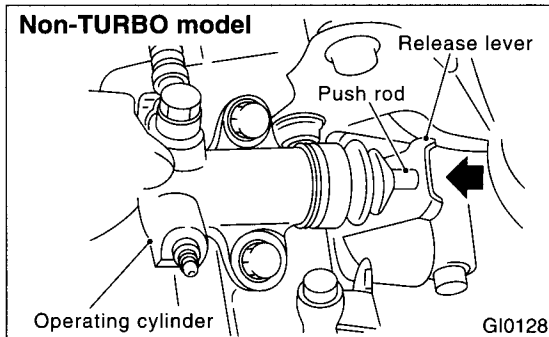
NOTE:

If driving the vehicle on out of specified data, the "trouble code 49" is indicated in many case.

14. Clutch System

A: INSPECTION AND ADJUSTMENT

1) Push the release lever to retract the push rod of the operating cylinder and check if the fluid level in the clutch reservoir tank rises or not.



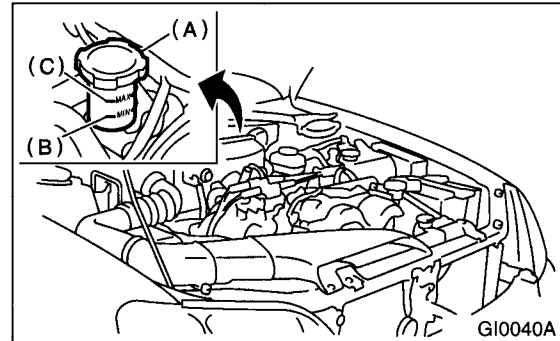
5) Check the fluid level using the scale on the outside of the clutch master cylinder tank (A). If the level is below "MIN" (B), add clutch fluid to bring it up to "MAX" (C).

Recommended clutch fluid:

FMVSS No. 116, fresh DOT3 or DOT4 brake fluid

NOTE:

- Avoid mixing different brands of brake fluid to prevent degradation of the fluid.
- Be careful not to allow dirt or dust to get into the reservoir tank.



- 2) If the fluid level rises, pedal free play is correct.
- 3) If the fluid level does not rise, or the push rod cannot be retracted, adjust the clutch pedal. <Ref. to CL-26, Clutch Pedal.>
- 4) Inspect the underside of master cylinder, clutch damper and operating cylinder for clutch system, hoses, piping and their couplings for fluid leaks. If the fluid leaks are found, correct them by retightening their fitting bolt and/or replacing their parts.

15. Transmission Oil

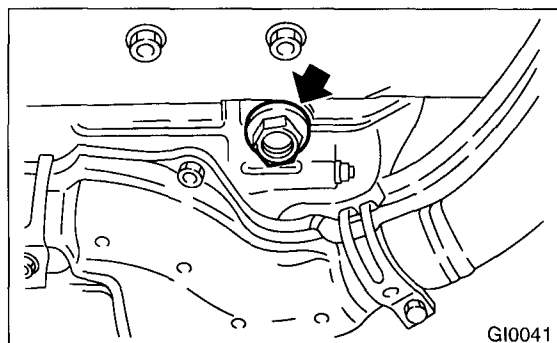
A: REPLACEMENT

1. MANUAL TRANSMISSION

1) Drain the gear oil by removing drain plug after allowing the engine to cool for 3 to 4 hours.

NOTE:

Before starting work, cool off the engine well.



2) Reinstall the drain plug after draining gear oil and tighten it to the specified torque.

Tightening torque:

44 N·m (4.5 kgf-m, 32.5 ft-lb)

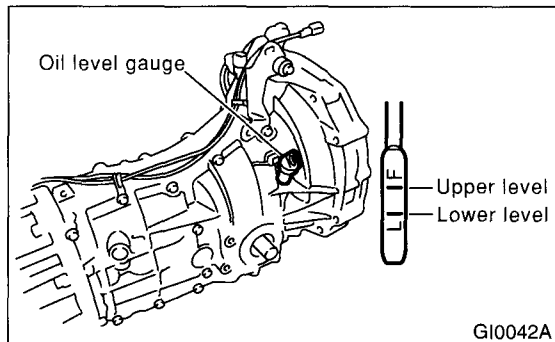
NOTE:

- Be sure to place a gasket between the transmission case and drain plug.
- Replace the gasket with a new one.
- Each oil manufacturer has its base oil and additives. Thus, do not mix two or more brands.

3) Fill the transmission gear oil through the oil level gauge hole up to the upper point of level gauge.

Gear oil capacity:

3.5 ℓ (3.7 US qt, 3.1 Imp qt)



16.ATF

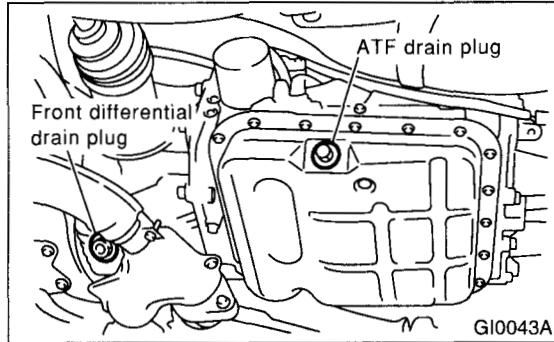
A: REPLACEMENT

1. AUTOMATIC TRANSMISSION FLUID

1) Drain ATF (Automatic Transmission Fluid) by removing drain plug after allowing the engine to cool for 3 to 4 hours.

NOTE:

Before starting work, cool off the engine well.



2) Reinstall the drain plug after draining ATF, and tighten it to the specified torque.

Tightening torque:

24.5 N·m (2.5 kgf-m, 18.1 ft-lb)

3) Fill ATF up to the middle of the "COLD" side on level gauge by using the gauge hole.

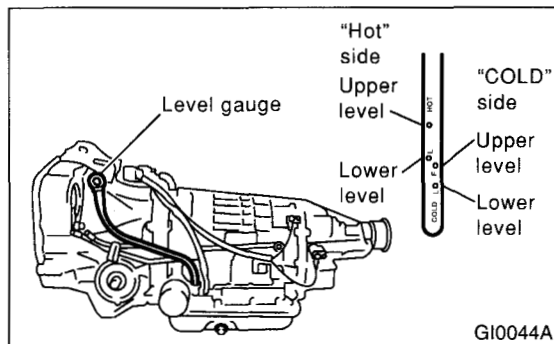
Recommended fluid:

Dexron III type automatic transmission fluid

Fluid capacity:

Fill the same amount drained from ATF drain plug hole.

4) Run the vehicle until the ATF temperature rises to 60 to 80°C (140 to 176°F) and check the ATF level.



2. ATF FILTER

NOTE:

ATF filter is maintenance free part. ATF filter needs replacement, when it has physically damaged or ATF leaked.

For the replacement procedures of the ATF filter:
<Ref. to AT-44, ATF Filter.>

17. Front & Rear Differential Oil

A: REPLACEMENT

1. FRONT DIFFERENTIAL (MANUAL TRANSMISSION)

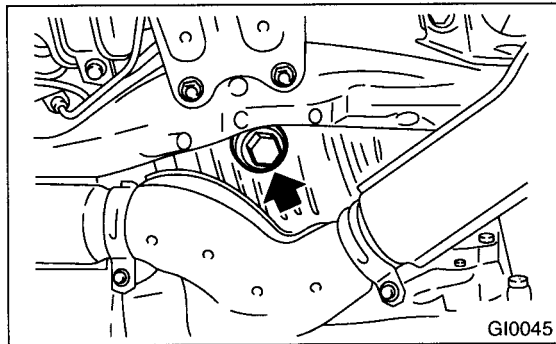
For M/T vehicle, manual transmission oil works as differential oil to lubricate differential. Refer to "Transmission Oil". <Ref. to PM-22, Transmission Oil.>

2. FRONT DIFFERENTIAL (AUTOMATIC TRANSMISSION)

1) Drain the differential gear oil by removing drain plug after allowing the engine to cool for 3 to 4 hours.

NOTE:

Before starting work, cool off the engine well.



2) Reinstall drain plug after draining differential gear oil and tighten it to the specified torque.

Tightening torque:

44 N·m (4.5 kgf-m, 32.5 ft-lb)

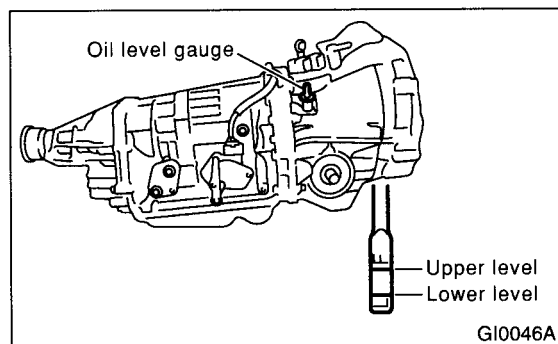
NOTE:

- Be sure to place a gasket between the transmission case and drain plug.
- Replace the gasket with a new one.
- Each oil manufacturer has its base oil and additives. Thus, do not mix two or more brands.

3) Fill differential gear oil through the oil level gauge hole up to the upper point of level gauge.

Differential gear oil capacity:

1.1 — 1.3 ℓ (1.2 — 1.4 US qt, 1.0 — 1.1 Imp qt)



3. REAR DIFFERENTIAL

- 1) Drain the oil by removing drain plug.
- 2) Remove the filler plug for quick draining oil.
- 3) Reinstall the drain plug after draining oil.

NOTE:

- Apply the fluid packing to drain plug threads before installation in Except Non-TURBO AT model.

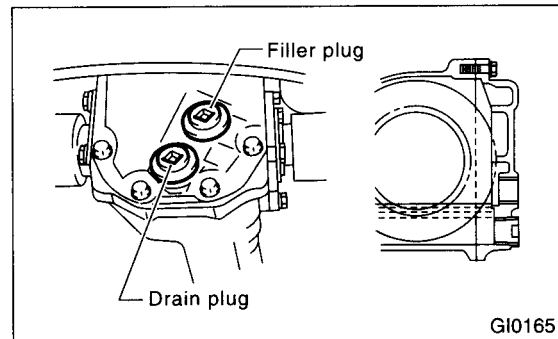
Fluid packing:

Three Bond 1105

Tightening torque:

49.0 N·m (5.0 kgf-m, 36.2 ft-lb)

4) After installing drain plug onto rear differential gear case firmly, fill oil up fully to the mouth of filler plug.



Oil capacity:

0.8 ℓ (0.8 US qt, 0.7 Imp qt)

NOTE:

Each oil manufacturer has its base oil and additives. Thus, do not mix two or more brands.

5) Install the filler plug onto rear differential gear case firmly.

NOTE:

Apply the fluid packing to filler plug before installation.

Fluid packing:

Three Bond 1105

Tightening torque:

49.0 N·m (5.0 kgf-m, 36.2 ft-lb)

18.Brake Line

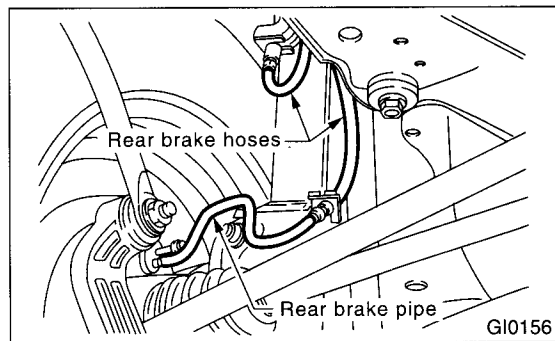
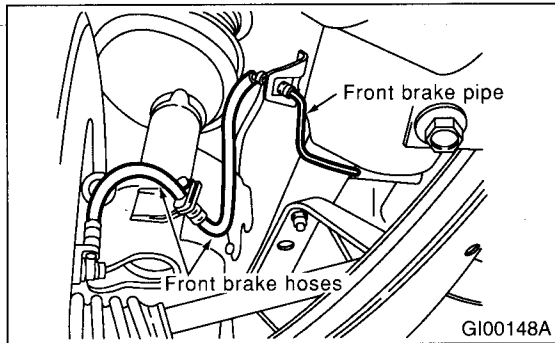
A: INSPECTION

1. BRAKE LINE

- 1) Check the scratches, swelling, corrosion and/or traces of fluid leakage on brake hoses or pipe joints.
- 2) Check the possibility of adjacent parts interfering with brake pipes/hoses during driving, and loose connections/clamps.
- 3) Check any trace of fluid leakage, scratches, etc. on master cylinder, wheel cylinder and pressure control valve.

NOTE:

- When the brake fluid level in the reservoir tank is lower than the specified limit, the brake fluid warning light on the combination meter will come on.
- Visually check brake hose (using a mirror where it is difficult to see) for any damage.



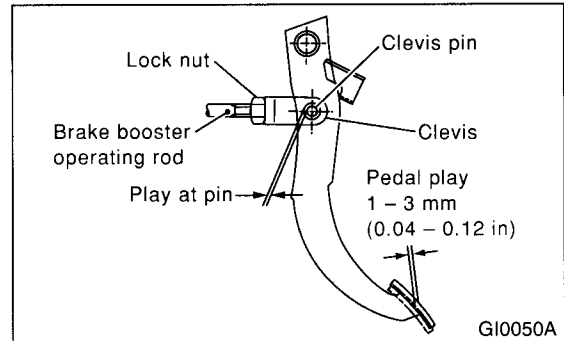
B: CHECKING

1. SERVICE BRAKE

- 1) Check the free play of brake pedal with a force of less than 10 N (1 kgf, 2 lb).

Brake pedal free play:

1 — 3 mm (0.04 — 0.12 in)



- 2) If the free play is out of specifications above, adjust the brake pedal as follows:

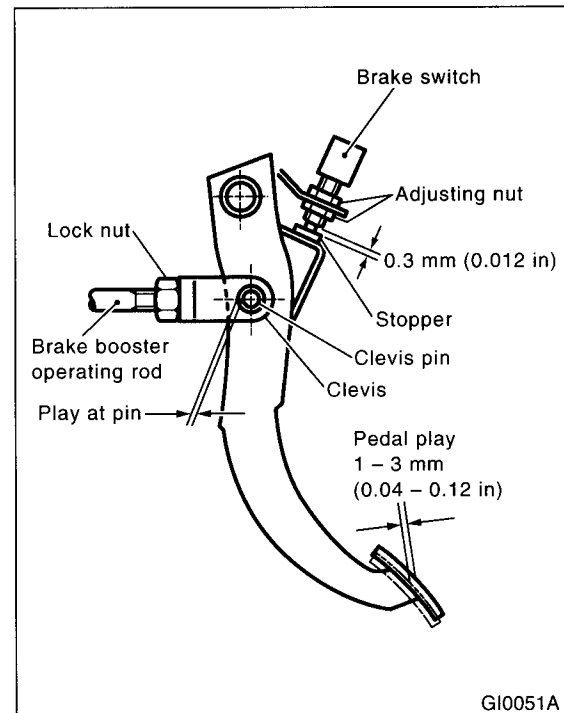
(1) Be sure the engine is off. (No vacuum is applied to brake booster.)

(2) There should be play between brake booster clevis and pin at brake pedal installing portion.

[Depress brake pedal pad with a force of less than 10 N (1 kgf, 2 lb) to a stroke of 1 to 3 mm (0.04 to 0.12 in).]

(3) Depress the surface of brake pad by hand.

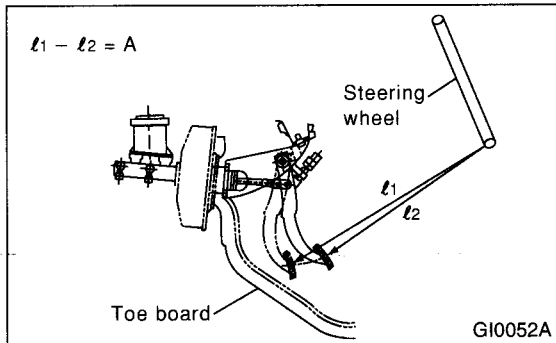
(4) If there is no free play between clevis pin and clevis, turn brake switch adjusting nut until the clearance between stopper and screw of brake switch becomes 0.3 mm (0.012 in).



3) Check the pedal stroke.

While the engine is idling, depress the brake pedal with a 490 N (50 kgf, 110 lb) load and measure the distance between the brake pedal and steering wheel. With the brake pedal released, measure the distance between the pedal and steering wheel again. The difference between the two measurements must be less than 95 mm (3.74 in). If the distance is more than specified, there is a possibility air is in the inside of the hydraulic unit.

Brake pedal reserve distance: A
more than 95 mm (3.74 in)/ 490 N (50 kgf, 110 lb)



4) Check to see if air is in the hydraulic brake line by the feel of pedal operation. If air appears to exist in the line, bleed it from the system.

5) Check for even operation of all brakes, using a brake tester or by driving the vehicle for a short distance on a straight road.

2. BRAKE SERVO SYSTEM

1) With the engine off, depress the brake pedal several times applying the same pedal force: Make sure the travel distance should not change.

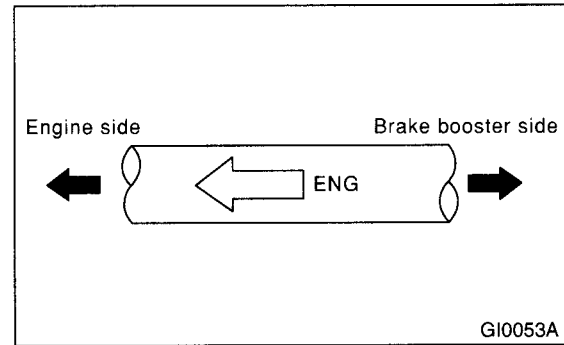
2) With the brake pedal depressed, start the engine: Make sure the pedal should move slightly toward the floor.

3) With the brake pedal depressed, stop the engine and keep the pedal depressed for 30 seconds: Make sure the pedal height should not change.

4) Check the valve is built into vacuum hose. Disconnect the vacuum hose to inspect function of check valve.

Blow air into vacuum hose from its brake booster side end: Air must flow out of engine side end of hose. Next blow air into hose from engine side: Air should not flow out of hose.

Replace the both check valve and vacuum hose if the check valve is faulty. Engine side of vacuum hose is indicated by marking "ENGINE" as shown.



5) Check the vacuum hose for cracks or other damage.

NOTE:

When installing the vacuum hose on the engine and brake booster, do not use soapy water or lubricating oil on their connections.

6) Check the vacuum hose to make sure it is tight and secure.

19.Brake Fluid

A: REPLACEMENT

- 1) Either jack up the vehicle and place a safety stand under it, or lift up the vehicle.
- 2) Remove the both front and rear wheels.
- 3) Draw out the brake fluid from master cylinder with syringe.
- 4) Refill the reservoir tank with recommended brake fluid.

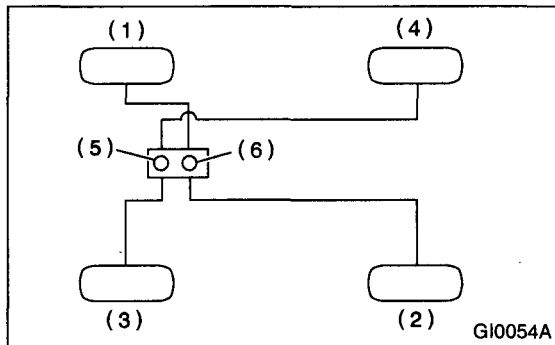
Recommended brake fluid:

FMVSS No. 116, fresh DOT3 or 4 brake fluid

NOTE:

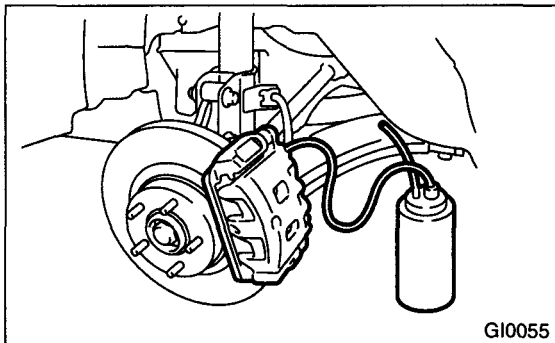
- Avoid mixing different brands of brake fluid to prevent degrading the quality of the fluid.
- Be careful not to allow dirt or dust to get into the reservoir tank.

Bleeding sequence (1) → (2) → (3) → (4)



- (1) Front right
- (2) Rear left
- (3) Front left
- (4) Rear right
- (5) Secondary
- (6) Primary

- 5) Install one end of a vinyl tube onto the air bleeder and insert the other end of the tube into a container to collect the brake fluid.



NOTE:

- Cover the bleeder with waste cloth, when loosening it, to prevent brake fluid from being splashed over surrounding parts.
 - During bleeding operation, keep the brake reserve tank filled with brake fluid to eliminate entry of air.
 - Brake pedal operation must be very slow.
 - For convenience and safety, it is advisable to have two men working.
 - The amount of brake fluid required is approximately 500 ml (16.9 US fl oz, 17.6 Imp fl oz) for total brake system.
- 6) Instruct your co-worker to depress the brake pedal slowly two or three times and then hold it depressed.
 - 7) Loosen the bleeder screw approximately 1/4 turn until a small amount of brake fluid drains into container, and then quickly tighten screw.
 - 8) Repeat steps 6) and 7) above until there are no air bubbles in drained brake fluid and new fluid flows through vinyl tube.

NOTE:

Add the brake fluid as necessary while performing the air bleed operation, in order to prevent the tank from running short of brake fluid.

- 9) After completing the bleeding operation, hold brake pedal depressed and tighten the screw and install the bleeder cap.

Tightening torque:

8 N·m (0.8 kgf-m, 5.8 ft-lb)

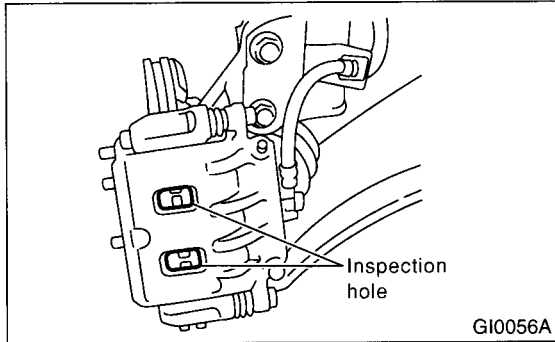
- 10) Bleed the air from each wheel cylinder by following the previous 5 steps.
- 11) Depress the brake pedal with a force of approximately 294 N (30 kgf, 66 lb) and hold it there for approximately 20 seconds. At this time check pedal to see if it makes any unusual movement. Visually inspect bleeder screws and brake pipe joints to make sure that there is no fluid leakage.
- 12) Install the wheels, and drive the vehicle for a short distance between 2 to 3 km (1 to 2 miles) to make sure that brakes are operating properly.

20.Disc Brake Pads and Discs

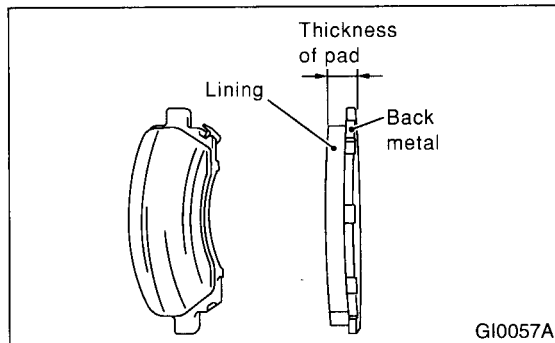
A: INSPECTION

1. DISC BRAKE PAD AND DISC

- 1) Jack up the vehicle and support with rigid racks. Then remove wheels.
- 2) Visually check pad thickness through inspection hole of disc brake assembly. Replace the pad if necessary.



Pad thickness including back metal mm (in)		
	Front	Rear
Standard	17 (0.67)	14 (0.55)
Service limit	7.5 (0.295)	6.5 (0.256)



- 3) Check the disc rotor, and correct or replace if it is damaged or worn.

Brake disc thickness mm (in)		
	Front	Rear
Standard	24 (0.94)	10 (0.39)
Wear limit	22 (0.87)	8.5 (0.335)

- 4) Measure the disc rotor runout at a point less than 5 mm (0.20 in) from the outer periphery of the rotor.

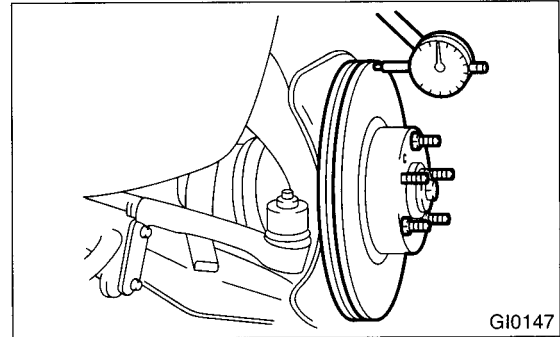
Disc rotor runout limit:

Front: 0.075 mm (0.0030 in)

Rear: 0.070 mm (0.0028 in)

NOTE:

When replacing a pad, always replace the pads for both the left and right wheels at the same time. Also replace pad clips if they are twisted or worn.



21.Brake Linings and Drums

A: INSPECTION

1. REAR DRUM BRAKE

1) Remove the brake drum, and check that there is no fluid leakage from wheel cylinder.

If there is fluid leakage from wheel cylinder, replace it.

2) Inspect the brake shoes for damage or deformities and check the brake linings for wear.

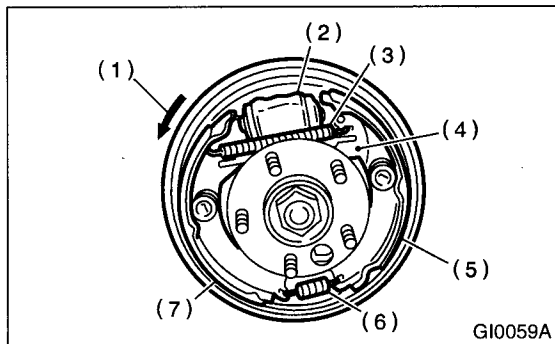
NOTE:

- Always replace both leading and trailing brake shoes for the left and right wheels at the same time.
- When either the left or the right brake assembly is replaced, always replace the leading shoe and trailing shoe of the other.
- The cotter pin, once removed, cannot be reused.

Thickness of lining (except back metal)

Standard value: 4.1 mm (0.161 in)

Service limit: 1.5 mm (0.059 in)



- (1) Rotational direction of drum (Forward)
- (2) Wheel cylinder
- (3) Upper shoe return spring
- (4) Adjusting lever
- (5) Trailing shoe
- (6) Lower shoe return spring
- (7) Leading shoe

To replace the trailing shoe, remove the cotter pin. Clevis pin should also be replaced if worn.

3) Check the brake drum for wear, dents or other damage.

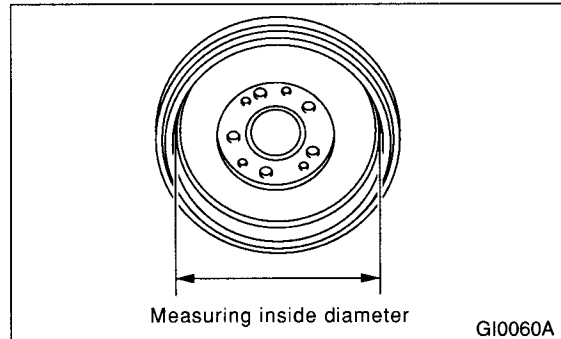
If the inside surface of brake drum is streaked, correct the surface with emery cloth (#200 or more). If it is unevenly worn, tapered, or the outside surface of brake drum is damaged, correct or replace it.

Brake drum inner diameter

Standard value: 228.6 mm (9.000 in)

Service limit: 230.6 mm (9.079 in)

If deformation or wear of back plate, shoe, etc. is noticeable, replace the affected parts.



2. PARKING BRAKE (REAR DISC BRAKE)

Inspect brake linings and drums of both sides of the rear brake at the same time by removing brake drums.

1) Inspect the brake shoes for damage or deformation and check the brake linings for wear.

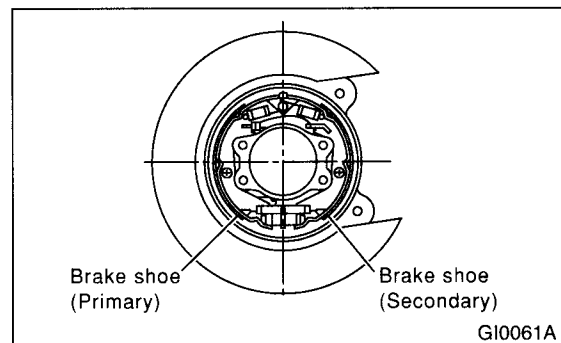
NOTE:

Always replace both primary and secondary brake shoes for the left and right wheels at the same time.

Brake lining thickness excluding back metal

Standard value: 3.2 mm (0.126 in)

Wear limit: 1.5 mm (0.059 in)

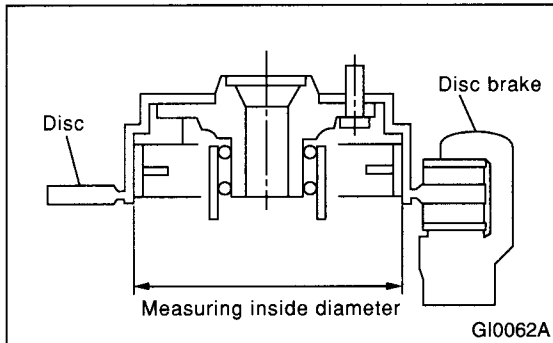


2) Check the brake drum for wear, dents or other damage. If the inside surface of brake drum is streaked, correct the surface with emery cloth (#200 or more). If it is unevenly worn, tapered, or the outside surface of brake drum is damaged, correct or replace it.

Brake drum inside diameter

Standard value: 170 mm (6.69 in)

Wear limit: 171 mm (6.73 in)



3) If the deformation or wear of back plate, shoe, etc. is noticeable, replace them.

4) When the shoe return spring tension is excessively weakened, replace it, taking care to identify upper and lower springs.

B: ADJUSTMENT

1. REAR DRUM BRAKE

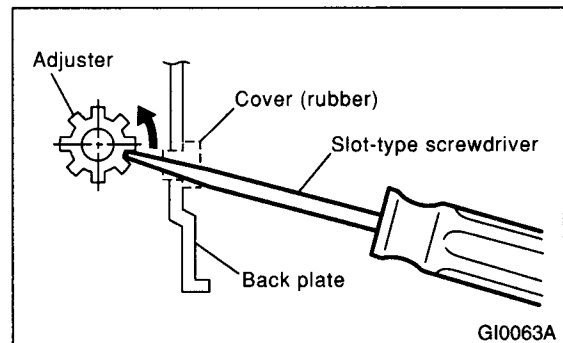
The main brake is adjusted automatically, and so there is no need to adjust it.

2. PARKING BRAKE (REAR DISC BRAKE)

For rear disc brake, adjust parking brake after bleeding the air.

1) Remove rear cover (rubber) installed at back plate.

2) Turn adjuster toward arrow mark (upward) until it is locked slightly, by using slot-type screwdriver as shown in illustration.



3) Turn back (downward) the adjuster 3 to 4 notches.

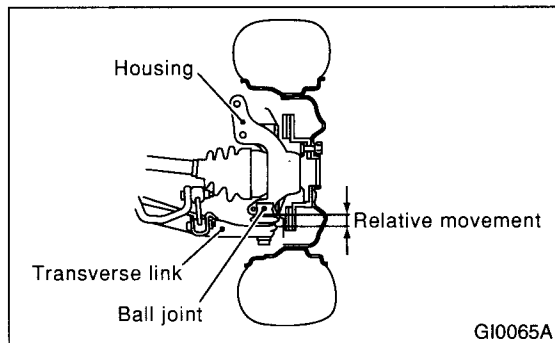
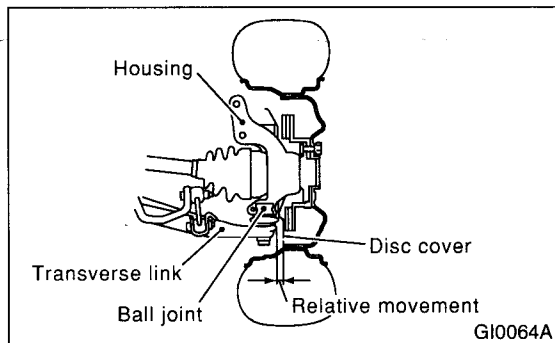
4) Install the cover (rubber) at original position correctly.

22.Suspension

A: INSPECTION

1. SUSPENSION BALL JOINT

- 1) Jack up the vehicle until front wheels are off ground.
- 2) Next, grasp the bottom of tire and move it in and out. If relative movement is observed between brake disc cover and end of transverse link, ball joint may be excessively worn.
- 3) Next, grasp the end of transverse link and move it up and down. Relative movement between housing and transverse link boss indicates ball joint may be excessively worn.
- 4) If the relative movement is observed in the immediately preceding two steps, remove and inspect the ball joint. If the free play exceeds standard, replace the ball joint. <Ref. to FS-19, Front Ball Joint.>



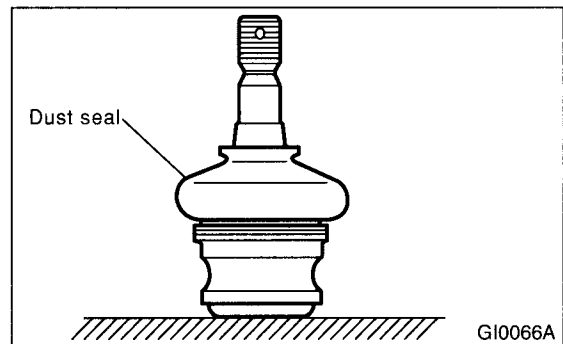
5) Damage of dust seal

Visually inspect ball joint dust seal. If it is damaged, remove the transverse link. <Ref. to FS-17, Front Transverse Link.> And measure free play of ball joint. <Ref. to FS-19, Front Ball Joint.>

- (1) When looseness exceeds standard value, replace ball joint.
- (2) If the dust seal is damaged, replace with the new ball joint.

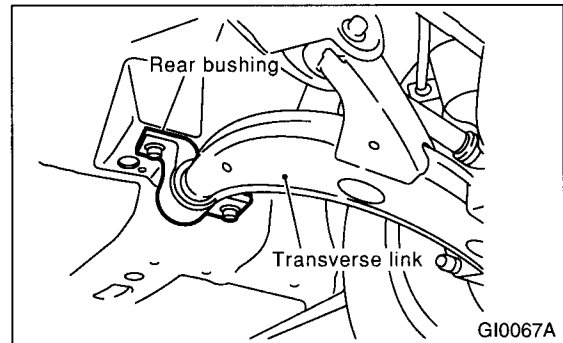
NOTE:

When transverse link ball joint has been removed or replaced, check toe-in of front wheel. If front wheel toe-in is not at specified value, adjust toe-in. <Ref. to FS-8, Wheel Alignment.>



2. TRANSVERSE LINK'S REAR BUSHING

Check oil leaks at around liquid-filled bushing. If oil leaks, replace bushing.



3. WHEEL ARCH HEIGHT

1) Unload the cargoes and set the vehicle in curb weight (empty) condition.

2) Then, check the wheel arch height of front and rear suspensions to ensure that they are within specified values.

3) When the wheel arch height is out of standard, visually inspect following components and replace deformed parts.

- Suspension components [Front strut assembly and rear strut assembly]

- Body parts to which suspensions are installed.

4) When no components are deformed, adjust wheel arch height by replacing coil spring in the suspension whose wheel arch height is out of standard. <Ref. to FS-8, Wheel Alignment.> <Ref. to RS-9, Wheel Alignment.>

4. WHEEL ALIGNMENT OF FRONT SUSPENSION

1) Check the alignment of front suspension to ensure that following items conform to standard values.

- Toe-in
- Camber angle
- Caster angle
- Steering angle

<Ref. to FS-8, Wheel Alignment.>

2) When the caster angle does not conform to standard value, visually inspect following components and replace deformed parts.

- Suspension components [Strut assembly, crossmember, transverse link, etc.]

- Body parts to which suspensions are installed.

3) When the toe-in and camber are out of standard value, adjust them so that they conform to respective service standard.

4) When the right-and-left turning angles of tire are out of standard, adjust to standard value.

5. WHEEL ALIGNMENT OF REAR SUSPENSION

1) Check the alignment of rear suspension to ensure that following items are within standard values.

- Toe-in
- Camber angle
- Thrust angle

<Ref. to RS-9, Wheel Alignment.>

2) When the camber angle does not conform to standard value, visually inspect parts listed below. If the deformation is observed, replace damaged parts.

- Suspension components [Strut assembly, crossmember, trailing link, lateral links, etc.]

- Body parts to which suspensions are installed.

3) When the toe-in and thrust angle are out of standard value, adjust them so that they conform to respective service standard.

6. OIL LEAKAGE OF STRUT AND SHOCK ABSORBER

Visually inspect front strut and rear strut for oil leakage as instructed. Replace front strut and rear strut if oil leaks excessively.

7. TIGHTNESS OF BOLTS AND NUTS

Check the bolts and nuts shown in the figure for looseness. Retighten the bolts and nuts to specified torque. If self-lock nuts and bolts are removed, replace them with new ones.

Front suspension: <Ref. to FS-2, General Description.>

Rear suspension: <Ref. to RS-2, General Description.>

8. DAMAGE TO SUSPENSION PARTS

1) Check the following parts and the fastening portion of the vehicle body for deformation or excessive rusting which impairs the suspension. If necessary, replace damaged parts with new ones. If minor rust formation, pitting, etc. are noted, remove rust and apply remedial anti-corrosion measures.

- Front suspension
 - Transverse link
 - Crossmember
 - Strut

- Rear suspension
 - Crossmember
 - Lateral links
 - Trailing link
 - Strut

- In the district where salt is sprayed to melt snow on a road in winter, check suspension parts for damage caused by rust every 12 months after lapse of 60 months. Take rust prevention measure as required.

23. Wheel Bearing

A: INSPECTION

1. FRONT WHEEL BEARING

NOTE:

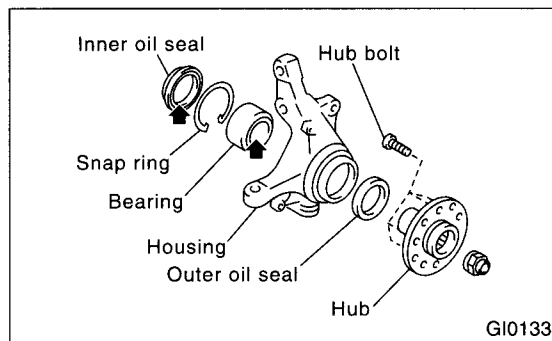
Inspect the condition of front wheel bearing grease.

- 1) Jack up the front of vehicle.
- 2) While holding front wheel by hand, swing it in and out to check bearing free play.
- 3) Loosen the wheel nuts and remove the front wheel.
- 4) If the bearing free play exists in step 2) above, attach a dial gauge to hub and measure axial displacement in axial direction.

Service limit:

**Straight-ahead position within 0.05 mm
(0.0020 in)**

- 5) Remove the bolts and self-locking nuts, and extract transverse link from the front crossmember.
 - 6) While lightly hammering spring pin which secures S.F.J. to transmission spindle, remove it.
 - 7) Extract S.F.J. from the transmission spindle. <Ref. to DS-17, Front Axle.>
 - 8) While supporting front drive shaft horizontally with one hand, turn the hub with the other to check for noise or binding.
- If the hub is noisy or binds, disassemble the front axle and check condition of oil seals, bearing, etc.



2. REAR WHEEL BEARING

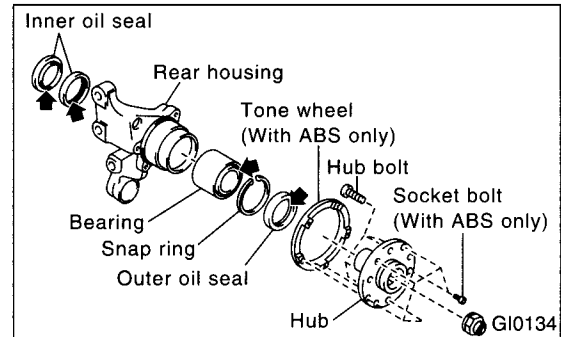
- 1) Jack up the rear of vehicle.
- 2) While holding rear wheel by hand, swing it in and out to check bearing free play.
- 3) Loosen the wheel nuts and remove the rear wheel.
- 4) If the bearing free play exists in step 2) above, attach a dial gauge to hub COMPL and measure axial displacement in axial direction.

Service limit:

**Straight-ahead position within 0.05 mm
(0.0020 in)**

- 5) Remove the DOJ of rear drive shaft from rear differential. <Ref. to DS-39, Rear Drive Shaft.>

- 6) While supporting rear drive shaft horizontally with one hand, turn the hub COMPL with the other to check for noise or binding.
- If the hub COMPL is noisy or binds, disassemble the rear axle and check condition of oil seals, bearings, etc.

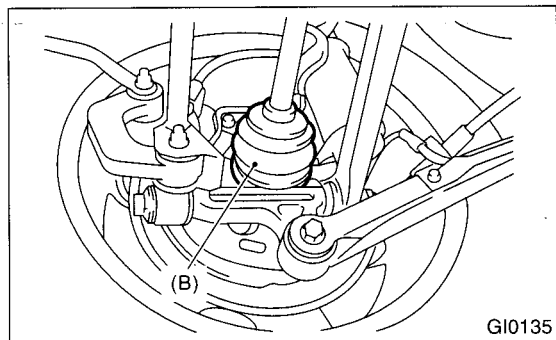
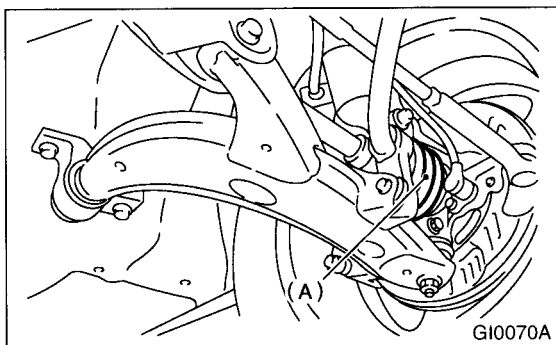


24. Axle Boots & Joints

A: INSPECTION

1. FRONT AND REAR AXLE BOOTS

Inspect the front axle boots (A) and rear axle boots (B) for deformation, damage or failure. If faulty, replace them with new ones. <Ref. to DS-32, Front Drive Shaft.> <Ref. to DS-39, Rear Drive Shaft.>



2. PROPELLER SHAFT

Inspect the propeller shaft for damage or failure. If faulty, replace with new one. <Ref. to DS-14, Propeller Shaft.>

25. Steering System (Power Steering)

A: INSPECTION

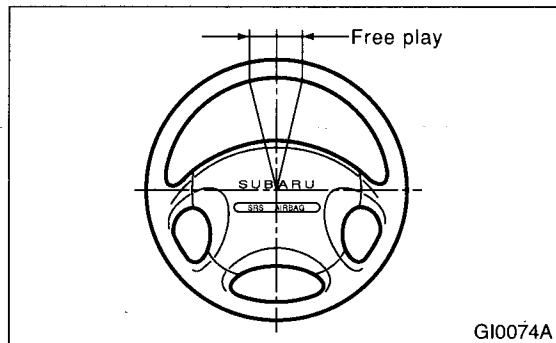
1. STEERING WHEEL

- 1) Set the steering wheel in a straight-ahead position, and check the wheel spokes to make sure they are correctly set in their specified positions.
- 2) Lightly turn the steering wheel to the left and right to determine the point where front wheels start to move.

Measure the distance of the movement of steering wheel at the outer periphery of wheel.

Steering wheel free play:

0 — 17 mm (0 — 0.67 in)



Move the steering wheel vertically toward the shaft to ascertain if there is play in the direction.

Maximum permissible play:

0.5 mm (0.020 in)

- 3) Drive the vehicle and check the following items during operation.

(1) Steering force:

The effort required for steering should be smooth and even at all points, and should not vary.

(2) Pull to one side:

Steering wheel should not be pulled to either side while driving on a level surface.

(3) Wheel runout:

Steering wheel should not show any sign of runout.

(4) Return factor:

Steering wheel should return to its original position after it has been turned and then released.

Maximum permissible play:

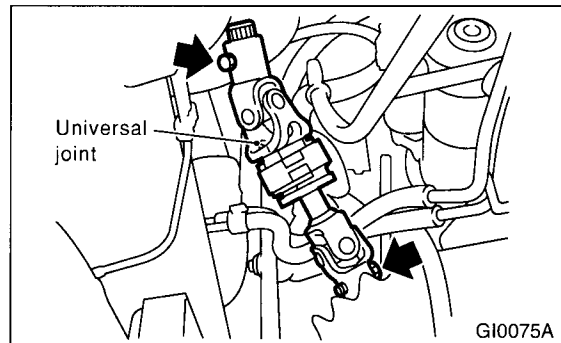
0.5 mm (0.020 in)

2. STEERING SHAFT JOINT

- 1) When the steering wheel free play is excessive, disconnect the universal joint of steering shaft and check it for any play and yawing torque (at the point of the crossing direction). Also inspect for any damage to sealing or worn serrations. If the joint is loose, retighten the mounting bolts to the specified torque.

Tightening torque:

24 N·m (2.4 kgf-m, 17.4 ft-lb)



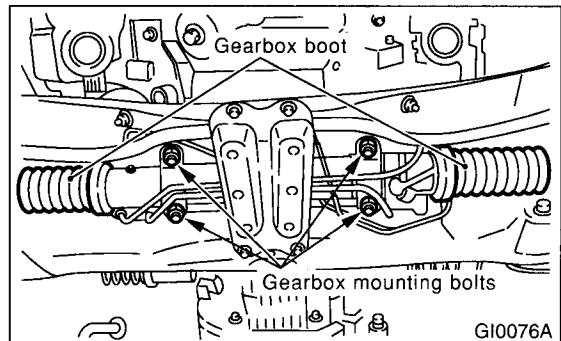
3. GEARBOX

- 1) With wheels placed on a level surface, turn the steering wheel 90° in both the left and right directions.

While the wheel is being rotated, reach under vehicle and check for looseness in gearbox.

Tightening torque:

59 N·m (6.0 kgf-m, 43.4 ft-lb)



- 2) Check the boot for damage, cracks or deterioration.

- 3) With vehicle on a level surface, quickly turn steering wheel to the left and right.

While steering wheel is being rotated, check the gear backlash. If any unusual noise is noticed, adjust the gear backlash in the following manner.

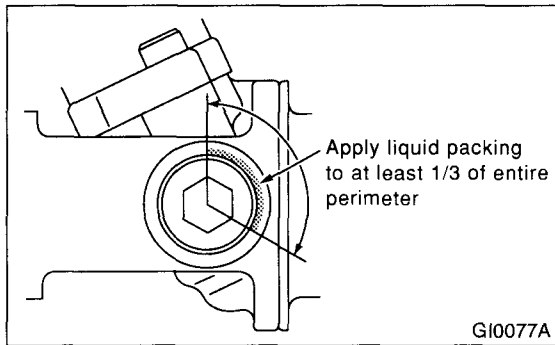
- (1) Tighten adjusting screw to 7.4 N·m (0.75 kgf-m, 5.4 ft-lb) and then loosen. Repeat this operation twice.

- (2) Retighten adjusting screw to 7.4 N·m (0.75 kgf-m, 5.4 ft-lb) and back off 25°.

STEERING SYSTEM (POWER STEERING)

PERIODIC MAINTENANCE SERVICES

- (3) Apply the liquid packing to at least 1/3 of entire perimeter of adjusting screw thread.



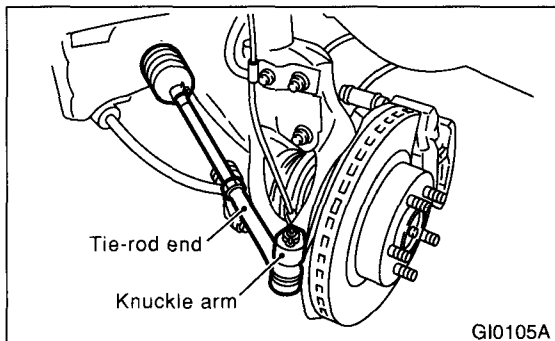
- (4) Install the lock nut. While holding adjusting screw with a wrench, tighten lock nut using ST. 926230000 SPANNER

Tightening torque (Lock nut):
39 N·m (4.0 kgf-m, 29 ft-lb)

Hold the adjusting screw with a wrench to prevent it from turning while tightening the lock nut.

4. TIE-ROD

- 1) Check the tie-rod and tie-rod ends for bends, scratches or other damage.



- 2) Check the connections of knuckle ball joints for play, inspect for damage on dust seals, and check free play of ball studs. If castle nut is loose, retighten it to the specified torque, then tighten further up to 60° until cotter pin hole is aligned.

Tightening torque:
27 N·m (2.75 kgf-m, 19.9 ft-lb)

- 3) Check the lock nut on the tie-rod end for tightness. If it is loose, retighten it to the specified torque.

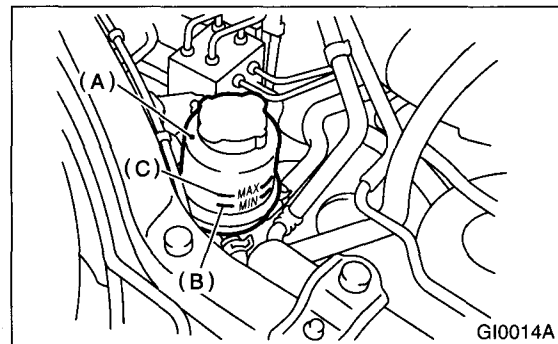
Tightening torque:
83 N·m (8.5 kgf-m, 61.5 ft-lb)

5. POWER STEERING FLUID LEVEL

NOTE:

The fluid level must be checked when the temperature of the reservoir tank surface is approximately 20°C (68°F).

- 1) Place the vehicle with engine "off" on the flat and level surface.
- 2) Check the fluid level using the scale on the outside of the reservoir tank (A). If the level is below "MIN" (B), add fluid to bring it up to "MAX" (C).



NOTE:

If fluid level is at MAX level or above, drain fluid to keep the level in the specified range of indicator by using a syringe or the like.

Recommended fluid:
Dexron IIE or III

Fluid capacity:
0.7 l (0.7 US qt, 0.6 Imp qt)

6. POWER STEERING FLUID FOR LEAKS

Inspect the underside of oil pump and gearbox for power steering system, hoses, piping and their couplings for fluid leaks.

If the fluid leaks are found, correct them by retightening their fitting bolts (or nuts) and/or replacing their parts.

NOTE:

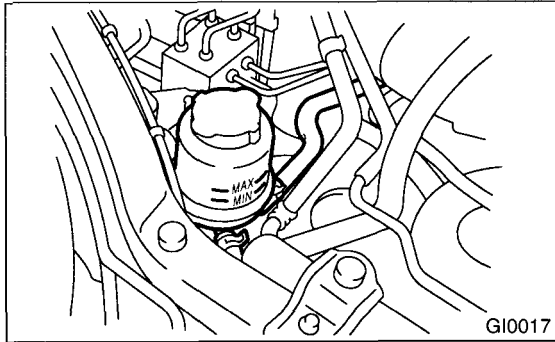
- Wipe the leakage fluid off after correcting fluid leaks, or a wrong diagnosis is taken later.
- Also pay attention to clearances between hoses (or pipings) and other parts when inspecting fluid leaks.

7. HOSES OF OIL PUMP FOR DAMAGES

Check the pressure hose and return hose of oil pump for crack, swell or damage. Replace the hose with new one if necessary.

NOTE:

Prevent hoses from revolving and/or turning when installing hoses.



8. POWER STEERING PIPES FOR DAMAGE

Check the power steering pipes for corrosion and damage.

Replace the pipes with new one if necessary.

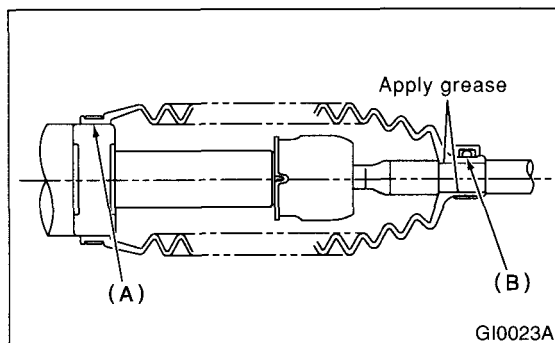
9. GEARBOX BOOTS

Inspect both sides of gearbox boots as follows, and correct the defects if necessary.

- 1) (A) and (B) positions of gearbox boot are fitted correspondingly in (A) and (B) grooves of gearbox and the rod.
- 2) Clips are fitted outside of (A) and (B) positions of boot.
- 3) Boot does not have crack and hole.

NOTE:

Rotate (B) position of gearbox boot against twist of it produced by adjustment of toe-in, etc.



10. FITTING BOLTS AND NUTS

Inspect the fitting bolts and nuts of oil pump and bracket for looseness, and retighten them if necessary.

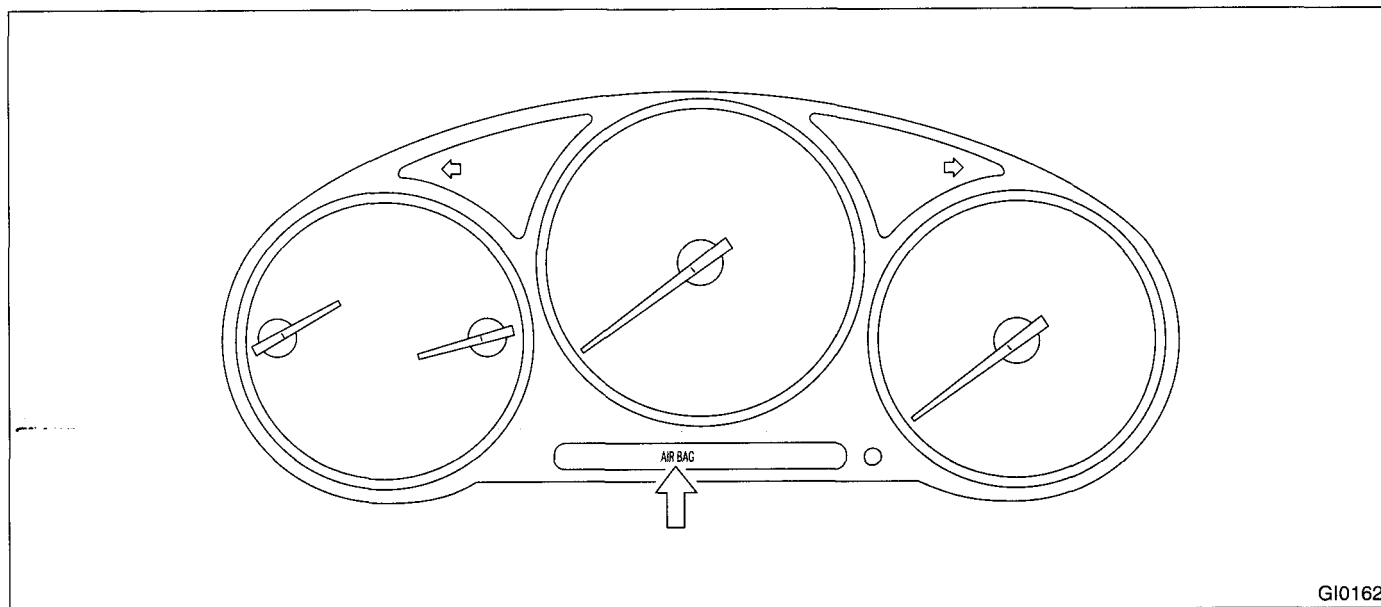
Inspect and/or retighten them when engine is cold.

26. Supplemental Restraint System

A: INSPECTION

Check the airbag system in accordance with the result of the self-diagnosis. <Ref. to AB-2, Basic Diagnostic Procedure.>

1) Ensure that airbag connectors are connected. If not, properly connect. When the ignition switch is turned ON with the connector(s) disconnected, the airbag warning light blinks to identify the fault.



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2) Turn the ignition switch ON, and connect the airbag diagnosis terminal of the service connector (located below lower cover) to the ground terminal.

3) The warning light blinks to indicate a trouble code (a fault is identified). When the airbag system is in good order (no trouble codes are stored in the memory), the warning light blinks on and off at 0.6 second intervals (as long as the diagnosis terminal is connected to the ground terminal).

4) When the warning light indicates a trouble code, check the airbag system in accordance with the trouble-shooting procedure. <Ref. to AB-2, Basic Diagnostic Procedure.>