

1. Foreword

A: FOREWORD

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

Applicable model:
2006MY BL****, BP****

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

HU

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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 diagnostic information has also been added where necessary.

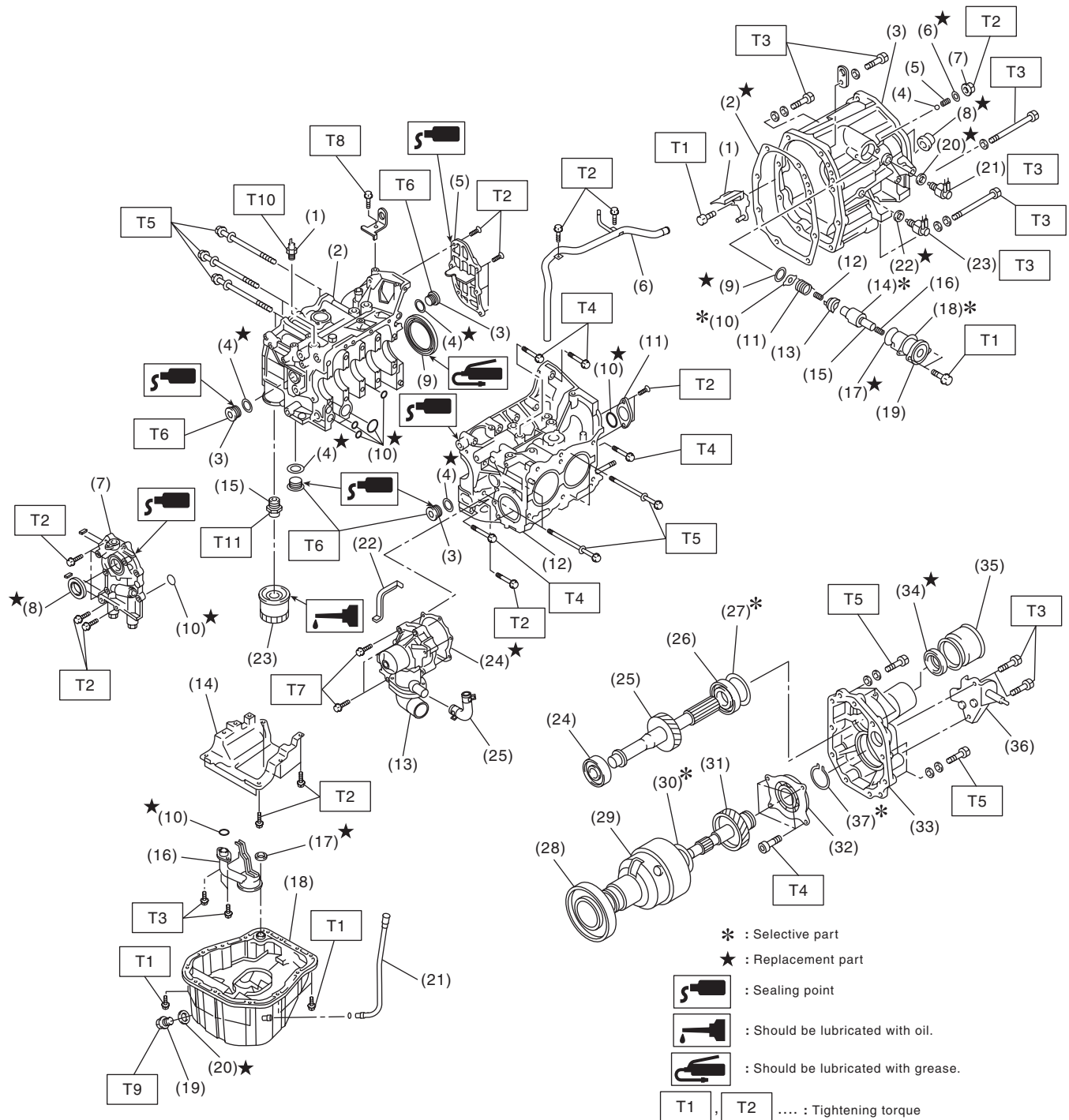
2. CONTENTS

The first page has an index with tabs.

3. COMPONENT

Illustrations are provided for each component. The information necessary for repair work (tightening torque, grease up points, etc.) is described on these illustrations. Information is described using symbol.

Example:



HU-00017

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4. SPECIFICATION

If necessary, specifications are also included.

5. INSPECTION

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

6. MAINTENANCE

- Maintenance instructions for serviceable parts describe work area and detailed step with illustration. It also describes the use of special tool, tightening torque, caution for each procedure.
- If many serviceable parts are included in one service procedure, appropriate reference is provided for each parts.

Example:

15.Main Shaft Assembly for Sin- (A) gle-Range

A: REMOVAL (B)

1) Remove the manual transmission assembly from vehicle. <Ref. to MT-33, REMOVAL, Manual Transmission Assembly.> (C)

11) Tighten the lock nuts to the specified torque using ST1 and ST2.

NOTE: (D)

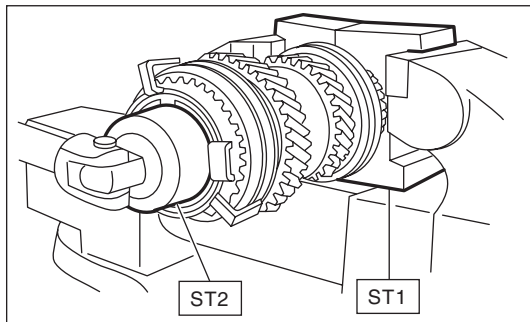
Secure the lock nuts in two Places after tightening.

ST1 498937000 TRANSMISSION HOLDER

ST2 499987003 (E) SOCKET WRENCH (35) (F)

Tightening torque:

118 N·m (12.0 kgf-m, 86.8 ft-lb) (G)



HU-00020

(A) Component

(B) Process

(C) Reference

(D) Cautions

(E) Tool number of special tool

(F) Name of special tool

(G) Tightening torque

(H) Illustration

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.

Example:

Tightening torque:

44 N·m (4.5 kgf-m, 33 ft-lb)

Item	SI units	Conventional unit	Remarks
Force	N (Newton)	kgf	1 kgf = 9.80655 N
Mass (Weight)	kg, g	kg, g	
Capacity	ℓ, mℓ or cm ³	ℓ or cc	1 cc = 1 cm ³ = 1 mℓ
Torque	N·m	kgf-m, kgf-cm	1 kgf-m = 9.80655 N·m
Rotating speed	rpm	rpm	
Pressure	kPa (kilopascal)	kgf/cm ²	1 kgf/cm ² = 98.0655 kPa
		mmHg	1 mmHg = 0.133322 kPa
Power	W	PS	1 PS = 0.735499 kW
Calorie	W·h	cal	1 kcal = 1.16279 W·h
Fuel consumption rate	g/kw·h	g/PS·h	1 g/PS·h = 1.3596 g/kW·h

The figure used in these manuals are described in the SI units and conventional units are described in ().

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9. EXPLANATION OF TERMINOLOGY

List

AAI	: Air Assist Injection	MD	: Mini Disc
A/B	: Airbag	MFI	: Multi Point Injection
ABS	: Anti-lock Brake System	MP-T	: Multi-Plate Transfer
A/C	: Air Conditioner	MT	: Manual Transmission
A/F	: Air Fuel Ratio	NA	: Natural Aspiration
ALT	: Generator	NC	: Normal Close (Relay)
ASSY	: Assembly	NO	: Normal Open (Relay)
AT	: Automatic Transmission	OP	: Option Parts
ATF	: Automatic Transmission Fluid	P/S	: Power Steering
BATT	: Battery	P/W	: Power Window
CD-R/RW	: CD Recordable/Rewritable	PCD	: Pitch Circle Diameter
CPU	: Central Processing Unit	PCV	: Positive Crankcase Ventilation
DOHC	: Double Overhead Camshaft	RH	: RH (Right Hand)
DVD	: Digital Versatile Disc	Rr	: Rear
ECM	: Engine Control Module	SOHC	: Single Overhead Camshaft
EGR	: Exhaust Gas Recirculation	SRS	: Supplemental Restraint System
ELR	: Emergency Locking Retractor	SSM	: Subaru Select Monitor
EX	: Exhaust	ST	: Special Tool
F/B	: Fuse & Joint Box	SW	: Switch
FL	: Fusible Link	TCS	: Traction Control System
Ft	: Full-time (AWD)	TGV	: Tumble Generator Valve
FWD	: Front Wheel Drive	T/M	: Transmission
GPS	: Global Positioning System	ViS-C	: Viscous Coupling
H/U	: Hydraulic Unit	VSV	: Vacuum Switching Valve
IG	: Ignition	VTD	: Variable Torque Distribution
INT	: Intermittent	W/H	: Wiring Harness
ISC	: Idle Speed Control	Pr	: Primary
LH	: LH (Left Hand)	2ndr	: Secondary
LSD	: Limited Slip Differential		
M/B	: Main Fuse & Relay Box		

SPECIFICATIONS

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LEGACY

SPECIFICATIONS

1. LEGACY

A: DIMENSION

1. SEDAN MODEL

Model			2.5 L SOHC	2.5 L DOHC turbo
Overall length		mm (in)	4,730 (186.2)	
Overall width		mm (in)	1,730 (68.1)	
Overall height (at C.W.)		mm (in)	1,425 (56.1), 1,435 (56.5) ^{*2}	
Compartment	Length	mm (in)	1,900 (74.8)	
	Width	mm (in)	1,445 (56.9)	
	Height	mm (in)	1,165 (45.9), 1,100 (43.3) ^{*1}	
Wheelbase		mm (in)	2,670 (105.1)	
Tread	Front	mm (in)	1,495 (58.9)	
	Rear	mm (in)	1,485 (58.5)	
Minimum road clearance		mm (in)	150 (5.9), 160 (6.3) ^{*2}	

*1: With sunroof

*2: 2.5 GT spec. B model

2. WAGON MODEL

Model			2.5 L SOHC	2.5 L DOHC turbo
Overall length		mm (in)	4,795 (188.8)	
Overall width		mm (in)	1,730 (68.1)	
Overall height (at C.W.)		mm (in)	1,475 (58.1)	
Compartment	Length	mm (in)	1,840 (72.4)	
	Width	mm (in)	1,445 (56.9)	
	Height	mm (in)	1,190 (46.9), 1,145 (45.1) ^{*1}	
Wheelbase		mm (in)	2,670 (105.1)	
Tread	Front	mm (in)	1,495 (58.9)	
	Rear	mm (in)	1,485 (58.5)	
Minimum road clearance		mm (in)	150 (5.9)	155 (6.1)

*1: With sunroof

B: ENGINE

Model			2.5 L SOHC	2.5 L DOHC turbo
Engine type			Horizontally opposed, liquid cooled, 4-cylinder, 4-stroke gasoline engine	
Valve arrangement			Overhead camshaft	
Bore x stroke		mm (in)	99.5 x 79.0 (3.917 x 3.110)	
Displacement		cm ³ (cu in)	2,457 (149.9)	
Compression ratio			10.0	8.2
Ignition order			1 — 3 — 2 — 4	
Idle speed at Park or Neutral position		rpm	650 (MT) 700 (AT)	750
Maximum output		kW (HP)/rpm	130 (175)/6,000	186 (250)/6,000
Maximum torque		N·m (kgf-m, ft-lb)/rpm	229 (23.4, 169)/4,400	339 (34.5, 250)/3,600

C: ELECTRICAL

Model			2.5 L SOHC	2.5 L DOHC turbo
Ignition timing (at idling) BTDC			13°	MT: 12° AT: 17°
Spark plug	Type and manufacturer		NGK: FR5AP-11	NGK: ILFR6B
Generator			12V — 110A	
Battery	Type and capacity (5HR)	MT	12V — 48AH (55D23L)	
		AT	12V — 52AH (75D23L)	

D: TRANSMISSION

Model			2.5 L SOHC		2.5 L DOHC turbo	
Transmission type			5MT	4AT	5MT	5AT
Clutch type			DSPD	TCC	DSPD	TCC
Gear ratio	1st		3.454	2.785	3.166	3.540
	2nd		2.062	1.545	1.882	2.264
	3rd		1.448	1.000	1.296	1.471
	4th		1.088	0.694	0.972	1.000
	5th		0.780	—	0.738	0.834
	Rev.		3.333	2.272	3.333	2.370
Reduction gear (Front)	1st reduction	Type of gear	—	Helical	—	Helical
		Gear ratio	—	1.000	—	1.000
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid	Hypoid
		Gear ratio	3.900	4.111	4.111	3.272
Reduction gear (Rear)	Transfer reduction	Type of gear	Helical	—	Helical	—
		Gear ratio	1.000	—	1.000	—
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid	Hypoid
		Gear ratio	3.900	4.111	4.111	3.272

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

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

5AT: Electronically controlled fully-automatic, 5-forward speeds and 1-reverse

DSPD: Dry Single Plate Diaphragm

TCC: Torque Converter Clutch

E: STEERING

Model			2.5 L SOHC	2.5 L DOHC turbo
Type			Rack & pinion	
Turns, lock to lock			3.2	2.8
Minimum turning diameter m (ft)	Curb to curb		10.8 (35.4), 11.6 (38.0) ^{*1}	
	Wall to wall		11.6 (38.1), 12.4 (40.7) ^{*1}	

^{*1}: 2.5 GT spec. B model

F: SUSPENSION

Front	Macpherson strut type suspension
Rear	Multi-link type suspension

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G: BRAKE

Model	2.5 L SOHC	2.5 L DOHC turbo
Service brake system	Dual circuit hydraulic with vacuum suspended power unit	
Front	Ventilated disc brake	
Rear	Disc brake	Ventilated disc brake
Parking brake	Mechanical on rear brakes	

H: TIRE

Model	2.5 L SOHC	2.5 L DOHC turbo
Wheel size	17 × 7JJ	17 × 7JJ, 18 × 7JJ ^{*1}
Tire size	P205/55R17 88V	215/45 ZR17, 215/45 R18 89Y ^{*1}
Type	Tubeless, Steel belted radial	

^{*1}: 2.5 GT spec. B model

I: CAPACITY

Model			2.5 L SOHC		2.5 L DOHC turbo	
			5MT	4AT	5MT	5AT
Fuel tank ℓ (US gal, Imp gal)			64 (16.9, 14.1)			
Engine oil	Total capacity ℓ (US qt, Imp qt)		4.8 (5.2, 4.3)		5.0 (5.3, 4.4)	
	Filling amount of engine oil ℓ (US qt, Imp qt)	When replacing engine oil and oil filter	4.2 (4.4, 3.7)		4.3 (4.5, 3.8)	
		When replacing engine oil only	4.0 (4.2, 3.5)			
Transmission gear oil ℓ (US qt, Imp qt)			3.5 (3.7, 3.1)	—	3.5 (3.7, 3.1)	—
ATF ℓ (US qt, Imp qt)			—	9.5 (10.0, 8.4)	—	9.8 (10.4, 8.6)
Front differential gear oil ℓ (US qt, Imp qt)			—	1.2 (1.3, 1.1)	—	1.4 (1.5, 1.2)
Rear differential gear oil ℓ (US qt, Imp qt)			0.8 (0.8, 0.7)			
Power steering fluid ℓ (US qt, Imp qt)			0.7 (0.7, 0.6)			
Engine coolant ℓ (US qt, Imp qt)			6.5 (6.9, 5.7)	6.4 (6.8, 5.6)	7.3 (7.7, 6.4)	7.2 (7.6, 6.3)

J: WEIGHT**1. US MODEL**

Model		Sedan							
		2.5 L SOHC						2.5 L DOHC turbo	
		2.5 i		2.5 i Limited				2.5 GT	
		5MT	4AT	5MT		4AT		5MT	5AT
Curb weight (C.W.)	Front kg (lb)	810 (1,785)	830 (1,830)	820 (1,810)	822 (1,815)	840 (1,855)	842 (1,860)	828 (1,830)	858 (1,895)
	Rear kg (lb)	663 (1,465)	663 (1,465)	678 (1,495)	679 (1,495)	678 (1,495)	679 (1,495)	667 (1,470)	667 (1,470)
	Total kg (lb)	1,473 (3,250)	1,493 (3,295)	1,498 (3,305)	1,501 (3,310)	1,518 (3,350)	1,521 (3,355)	1,495 (3,300)	1,525 (3,365)
Gross axle weight ratio (G.A.W.R.)	Front kg (lb)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)
	Rear kg (lb)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)
Gross vehicle weight (G.V.W.) kg (lb)		1,960 (4,325)	1,960 (4,325)	1,960 (4,325)	1,960 (4,325)	1,960 (4,325)	1,960 (4,325)	2,010 (4,435)	2,010 (4,435)
Option	Vehicle Dynamics Control	—	—	—	—	—	—	—	—
	Power package	—	—	○	○	○	○	—	—
	Side airbag	○	○	○	○	○	○	○	○
	Curtain airbag	○	○	○	○	○	○	○	○
	Sunroof	—	—	○	○	○	○	—	—
	Navigation (DVD)	—	—	—	○	—	○	—	—

Model		Sedan					Wagon			
		2.5 L DOHC turbo					2.5 L SOHC			
		2.5 GT Limited			2.5 GT spec. B	2.5 i		2.5 i Limited		
		5MT		5AT		5MT	5MT	4AT	5MT	
Curb weight (C.W.)	Front kg (lb)	843 (1,860)	843 (1,860)	873 (1,925)	873 (1,925)	850 (1,875)	810 (1,785)	830 (1,830)	820 (1,810)	822 (1,815)
	Rear kg (lb)	682 (1,505)	685 (1,510)	682 (1,510)	685 (1,515)	692 (1,525)	688 (1,520)	688 (1,520)	708 (1,565)	709 (1,565)
	Total kg (lb)	1,525 (3,365)	1,528 (3,370)	1,555 (3,435)	1,558 (3,440)	1,542 (3,400)	1,498 (3,305)	1,518 (3,350)	1,528 (3,375)	1,531 (3,380)
Gross axle weight (G.A.W.R.)	Front kg (lb)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)
	Rear kg (lb)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)
Gross vehicle weight (G.V.W.) kg (lb)		2,010 (4,435)	2,010 (4,435)	2,010 (4,435)	2,010 (4,435)	2,010 (4,435)	1,960 (4,325)	1,960 (4,325)	2,010 (4,435)	2,010 (4,435)
Option	Vehicle Dynamics Control	—	—	—	—	—	—	—	—	—
	Power package	○	○	○	○	○	—	—	○	○
	Side airbag	○	○	○	○	○	○	○	○	○
	Curtain airbag	○	○	○	○	○	○	○	○	○
	Sunroof	○	○	○	○	○	—	—	○	○
	Navigation (DVD)	—	○	—	○	○	—	—	—	○

LEGACY

SPECIFICATIONS

Model			Wagon							
			2.5 L SOHC		2.5 L DOHC turbo					
			2.5 i Limited		2.5 GT		2.5 GT Limited			
			4AT		5MT	5AT	5MT		5AT	
Curb weight (C.W.)	Front	kg (lb)	840 (1,855)	842 (1,860)	828 (1,830)	858 (1,895)	843 (1,860)	843 (1,860)	873 (1,925)	873 (1,925)
	Rear	kg (lb)	708 (1,565)	709 (1,565)	692 (1,525)	692 (1,525)	712 (1,575)	715 (1,580)	712 (1,575)	715 (1,580)
	Total	kg (lb)	1,548 (3,420)	1,551 (3,425)	1,520 (3,355)	1,550 (3,420)	1,555 (3,435)	1,558 (3,440)	1,585 (3,500)	1,588 (3,505)
Gross axle weight ratio (G.A.W.R.)	Front	kg (lb)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)
	Rear	kg (lb)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)
Gross vehicle weight (G.V.W.)			kg (lb)	2,010 (4,435)	2,010 (4,435)	2,060 (4,545)	2,060 (4,545)	2,060 (4,545)	2,060 (4,545)	2,060 (4,545)
Option	Vehicle Dynamics Control		—	—	—	—	—	—	—	—
	Power package		○	○	—	—	○	○	○	○
	Side airbag		○	○	○	○	○	○	○	○
	Curtain airbag		○	○	○	○	○	○	○	○
	Sunroof		○	○	—	—	○	○	○	○
	Navigation (DVD)		—	○	—	—	—	○	—	○

2. CANADA MODEL

Model			Sedan							
			2.5 L SOHC						2.5 L DOHC turbo	
			2.5 i		2.5 i Limited				2.5 GT	
			5MT	4AT	5MT		4AT		5MT	5AT
Curb weight (C.W.)	Front	kg (lb)	810 (1,785)	830 (1,830)	820 (1,810)	822 (1,815)	840 (1,855)	842 (1,860)	828 (1,830)	858 (1,895)
	Rear	kg (lb)	663 (1,465)	663 (1,465)	678 (1,495)	679 (1,495)	678 (1,495)	679 (1,495)	667 (1,470)	667 (1,470)
	Total	kg (lb)	1,473 (3,250)	1,493 (3,295)	1,498 (3,305)	1,501 (3,310)	1,518 (3,350)	1,521 (3,355)	1,495 (3,300)	1,525 (3,365)
Gross axle weight ratio (G.A.W.R.)	Front	kg (lb)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)
	Rear	kg (lb)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)
Gross vehicle weight (G.V.W.)			kg (lb)	1,960 (4,325)	1,960 (4,325)	1,960 (4,325)	1,960 (4,325)	1,960 (4,325)	2,010 (4,435)	2,010 (4,435)
Option	Vehicle Dynamics Control		—	—	—	—	—	—	—	—
	Power package		—	—	○	○	○	○	—	—
	Side airbag		○	○	○	○	○	○	○	○
	Curtain airbag		○	○	○	○	○	○	○	○
	Sunroof		—	—	○	○	○	○	—	—
	Navigation (DVD)		—	—	—	○	—	○	—	—

Model			Sedan				Wagon			
			2.5 L DOHC turbo				2.5 L SOHC			
			2.5 GT Limited				2.5 i		2.5 i Limited	
			5MT		5AT		5MT	4AT	5MT	
Curb weight (C.W.)	Front	kg (lb)	843 (1,860)	843 (1,860)	873 (1,925)	873 (1,925)	810 (1,785)	830 (1,830)	820 (1,810)	822 (1,815)
	Rear	kg (lb)	682 (1,505)	685 (1,510)	682 (1,510)	685 (1,515)	688 (1,520)	688 (1,520)	708 (1,565)	709 (1,565)
	Total	kg (lb)	1,525 (3,365)	1,528 (3,370)	1,555 (3,435)	1,558 (3,340)	1,498 (3,305)	1,518 (3,350)	1,528 (3,375)	1,531 (3,380)
Gross axle weight ratio (G.A.W.R.)	Front	kg (lb)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)
	Rear	kg (lb)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)
Gross vehicle weight (G.V.W.)			kg (lb)	2,010 (4,435)	2,010 (4,435)	2,010 (4,435)	1,960 (4,325)	1,960 (4,325)	2,010 (4,435)	2,010 (4,435)
Option	Vehicle Dynamics Control		—	—	—	—	—	—	—	—
	Power package		○	○	○	○	—	—	○	○
	Side airbag		○	○	○	○	○	○	○	○
	Curtain airbag		○	○	○	○	○	○	○	○
	Sunroof		○	○	○	○	—	—	○	○
	Navigation (DVD)		—	○	—	○	—	—	—	○

LEGACY

SPECIFICATIONS

Model			Wagon							
			2.5 L SOHC		2.5 L DOHC turbo					
			2.5 i Limited		2.5 GT		2.5 GT Limited			
			4AT		5MT	5AT	5MT		5AT	
Curb weight (C.W.)	Front	kg (lb)	840 (1,855)	842 (1,860)	828 (1,830)	858 (1,895)	843 (1,860)	843 (1,860)	873 (1,925)	873 (1,925)
	Rear	kg (lb)	708 (1,565)	709 (1,565)	692 (1,525)	692 (1,525)	712 (1,575)	715 (1,580)	712 (1,575)	715 (1,580)
	Total	kg (lb)	1,548 (3,420)	1,551 (3,425)	1,520 (3,355)	1,550 (3,420)	1,555 (3,435)	1,558 (3,440)	1,585 (3,500)	1,588 (3,505)
Gross axle weight ratio (G.A.W.R.)	Front	kg (lb)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)
	Rear	kg (lb)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)
Gross vehicle weight (G.V.W.)			kg (lb)	2,010 (4,435)	2,010 (4,435)	2,060 (4,545)	2,060 (4,545)	2,060 (4,545)	2,060 (4,545)	2,060 (4,545)
Option	Vehicle Dynamics Control		—	—	—	—	—	—	—	—
	Power package		○	○	—	—	○	○	○	○
	Side airbag		○	○	○	○	○	○	○	○
	Curtain airbag		○	○	○	○	○	○	○	○
	Sunroof		○	○	—	—	○	○	○	○
	Navigation (DVD)		—	○	—	—	—	○	—	○

3. OPTION

Option	Front kg (lb)	Rear kg (lb)	Total kg (lb)
Vehicle Dynamics Control	6.4 (14.1)	0.2 (0.4)	6.6 (14.5)
Audio	1.8 (4.0)	0.7 (1.5)	2.5 (5.5)
Power package	1.8 (4.0)	3.1 (6.8)	4.9 (10.8)
Side airbag	1.9 (4.2)	1.9 (4.2)	3.8 (8.4)
Curtain airbag (Sedan model)	0.4 (0.9)	5.3 (11.7)	5.7 (12.6)
Curtain airbag (Wagon model)	0.5 (1.1)	5.0 (11.0)	5.5 (12.1)
Sunroof (Sedan model)	8.1 (17.9)	8.9 (19.6)	17.0 (37.5)
Sunroof (Wagon model)	8.3 (18.3)	18.7 (41.3)	27.0 (59.6)
Navigation (DVD)	2.2 (4.9)	0.8 (1.8)	3.0 (6.6)

2. OUTBACK

A: DIMENSION

1. SEDAN MODEL

Model			3.0 L DOHC
Overall length	mm (in)		4,730 (186.2)
Overall width	mm (in)		1,770 (69.7)
Overall height (at C.W.)	mm (in)		1,515 (59.6)
Compartment	Length	mm (in)	1,900 (74.8)
	Width	mm (in)	1,445 (56.9)
	Height	mm (in)	1,100 (43.3)
Wheelbase	mm (in)		2,670 (105.1)
Tread	Front	mm (in)	1,495 (58.9)
	Rear	mm (in)	1,490 (58.7)
Minimum road clearance	mm (in)		214.6 (8.44)

2. WAGON MODEL

Model			2.5 L SOHC	2.5 L DOHC turbo	3.0 L DOHC
Overall length	mm (in)		4,795 (188.8)		
Overall width	mm (in)		1,770 (69.7)		
Overall height (at C.W.)	mm (in)		1,605 (63.2)		
Compartment	Length	mm (in)	1,840 (72.4)		
	Width	mm (in)	1,445 (56.9)		
	Height	mm (in)	1,190 (46.9), 1,145 (45.1)* ¹		
Wheelbase	mm (in)		2,670 (105.1)		
Tread	Front	mm (in)	1,495 (58.9)		
	Rear	mm (in)	1,490 (58.7)		
Minimum road clearance	mm (in)		215 (8.5)	220 (8.7)	215 (8.5)

*1: With sunroof

B: ENGINE

Model		2.5 L SOHC	2.5 L DOHC turbo	3.0 L DOHC
Engine type		Horizontally opposed, liquid cooled, 4-cylinder, 4-stroke gasoline engine		Horizontally opposed, liquid cooled, 6-cylinder, 4-stroke gasoline engine
Valve arrangement		Overhead camshaft		
Bore × stroke	mm (in)	99.5 × 79.0 (3.917 × 3.110)		89.2 × 80.0 (3.512 × 3.150)
Displacement	cm ³ (cu in)	2,457 (149.9)		3,000 (183.06)
Compression ratio		10.0	8.2	10.7
Ignition order		1 — 3 — 2 — 4		1 — 6 — 3 — 2 — 5 — 4
Idle speed at Park or Neutral position	rpm	650 (MT) 700 (AT)	750	650
Maximum out-put	kW (HP)/rpm	130 (175)/6,000	186 (250)/6,000	186 (250)/6,600
Maximum torque	N·m (kgf-m, ft-lb)/rpm	229 (23.4, 16.9)/4,400	339 (34.5, 250)/3,600	297 (30.3, 219)/4,200

OUTBACK

SPECIFICATIONS

C: ELECTRICAL

Model			2.5 L SOHC	2.5 L DOHC turbo	3.0 L DOHC
Ignition timing (at idling) BTDC			MT: 10° AT: 15°	MT: 12° AT: 17°	15°
Spark plug	Type and manufacturer		NGK: FR5AP-11	NGK: ILFR6B	NGK: ILFR6B
Generator			12V — 110A		
Battery	Type and capacity (5HR)	MT	12V — 48AH (55D23L)		
		AT	12V — 52AH (75D23L)		

D: TRANSMISSION

Model		2.5 L SOHC		2.5 L DOHC turbo		3.0 L DOHC
Transmission type		5MT	4AT	5MT	5AT	5AT
Clutch type		DSPD	TCC	DSPD	TCC	TCC
Gear ratio	1st	3.454	2.785	3.166	3.540	3.540
	2nd	2.062	1.545	1.882	2.264	2.264
	3rd	1.448	1.000	1.296	1.471	1.471
	4th	1.088	0.694	0.972	1.000	1.000
	5th	0.871	—	0.738	0.834	0.834
	Rev.	3.333	2.272	3.333	2.370	2.370
Reduction gear (Front)	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	4.444	3.583
Reduction gear (Rear)	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	4.444	3.583

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

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

5AT: Electronically controlled fully-automatic, 5-forward speeds and 1-reverse

DSPD: Dry Single Plate Diaphragm

TCC: Torque Converter Clutch

E: STEERING

Model		2.5 L SOHC	2.5 L DOHC turbo	3.0 L DOHC
Type		Rack & pinion		
Turns, lock to lock		3.2		
Minimum turning diameter	m (ft)	Curb to curb	10.8 (35.4)	
		Wall to wall	11.6 (38.1)	

F: SUSPENSION

Front	Macpherson strut type suspension
Rear	Multi-link type suspension

G: BRAKE

Model	Except for 2.5 L DOHC turbo	2.5 L DOHC turbo
Service brake system	Dual circuit hydraulic with vacuum suspended power unit	
Front	Ventilated disc brake	
Rear	Disc brake	
Parking brake	Mechanical on rear brakes	

H: TIRE

Model	2.5 L SOHC	2.5 L DOHC turbo	3.0 L DOHC
Wheel size	17 × 7JJ	17 × 7JJ	17 × 7JJ
Tire size	P205/55 R17 95V		
Type	Tubeless, Steel belted radial		

OUTBACK

SPECIFICATIONS

I: CAPACITY

Model			2.5 L SOHC		2.5 L DOHC turbo		3.0 L DOHC
			5MT	4AT	5MT	5AT	5AT
Fuel tank ℓ (US gal, Imp gal)			64 (16.9, 14.1)				
Engine oil	Total capacity (Overhaul) ℓ (US qt, Imp qt)		4.8 (5.2, 4.3)		5.0 (5.3, 4.4)		7.0 (7.4, 6.2)
	Filling amount of engine oil ℓ (US qt, Imp qt)	When replacing engine oil and oil filter	4.2 (4.4, 3.7)		4.3 (4.5, 3.8)		5.7 (6.0, 5.0)
		When replacing engine oil only	4.0 (4.2, 3.5)				5.5 (5.8, 4.8)
Transmission gear oil ℓ (US qt, Imp qt)			3.5 (3.7, 3.1)	—	3.5 (3.7, 3.1)	—	—
ATF ℓ (US qt, Imp qt)			—	9.5 (10.0, 8.4)	—	9.8 (10.4, 8.6)	9.8 (10.4, 8.6)
Front differential gear oil ℓ (US qt, Imp qt)			—	1.2 (1.3, 1.1)	—	1.4 (1.5, 1.2)	1.4 (1.5, 1.2)
Rear differential gear oil ℓ (US qt, Imp qt)			0.8 (0.8, 0.7)				
Power steering fluid ℓ (US qt, Imp qt)			0.7 (0.7, 0.6)				
Engine coolant ℓ (US qt, Imp qt)			6.5 (6.9, 5.7)	6.4 (6.8, 5.6)	7.3 (7.7, 6.4)	7.2 (7.6, 6.3)	7.4 (7.8, 6.5)

J: WEIGHT

1. US MODEL

Model		Sedan	Wagon					
		3.0 L DOHC	2.5 L SOHC					
		3.0 R	2.5 i			2.5 i Limited		
		5AT	5MT	4AT	5MT		4AT	
Curb weight (C.W.)	Front kg (lb)	907 (2,005)	805 (1,775)	825 (1,820)	815 (1,795)	817 (1,800)	835 (1,840)	837 (1,845)
	Rear kg (lb)	698 (1,540)	700 (1,545)	700 (1,545)	715 (1,580)	716 (1,580)	715 (1,580)	716 (1,580)
	Total kg (lb)	1,605 (3,545)	1,505 (3,320)	1,525 (3,365)	1,530 (3,375)	1,533 (3,380)	1,550 (3,420)	1,553 (3,425)
Gross axle weight ratio (G.A.W.R.)	Front kg (lb)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)
	Rear kg (lb)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)
Gross vehicle weight (G.V.W.) kg (lb)		2,060 (4,545)	2,010 (4,435)	2,010 (4,435)	2,010 (4,435)	2,010 (4,435)	2,010 (4,435)	2,010 (4,435)
Option	Vehicle Dynamics Control	—	—	—	—	—	—	—
	Power package	○	—	—	○	○	○	○
	Side airbag	○	○	○	○	○	○	○
	Curtain airbag	○	○	○	○	○	○	○
	Sunroof	○	—	—	○	○	○	○
	Navigation (DVD)	—	—	—	—	○	—	○

Model		Wagon									
		2.5 L DOHC turbo						3.0 L DOHC			
		2.5 GT		2.5 GT Limited				3.0: R L.L. Bean	3.0 R Limited		
		5MT	5AT	5MT		5AT		5AT			
Curb weight (C.W.)	Front	kg (lb)	848 (1,875)	878 (1,940)	862 (1,905)	864 (1,910)	892 (1,970)	894 (1,975)	907 (2,005)	915 (2,020)	917 (2,025)
	Rear	kg (lb)	698 (1,540)	698 (1,540)	723 (1,595)	724 (1,595)	723 (1,595)	724 (1,595)	723 (1,595)	730 (1,610)	731 (1,610)
	Total	kg (lb)	1,546 (3,415)	1,576 (3,480)	1,585 (3,500)	1,588 (3,505)	1,615 (3,565)	1,618 (3,570)	1,630 (3,600)	1,645 (3,630)	1,648 (3,635)
Gross axle weight ratio (G.A.W.R.)	Front	kg (lb)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)
	Rear	kg (lb)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)	1,061 (2,340)
Gross vehicle weight (G.V.W.)		kg (lb)	2,060 (4,545)	2,060 (4,545)	2,060 (4,545)	2,060 (4,545)	2,060 (4,545)	2,060 (4,545)	2,100 (4,635)	2,100 (4,635)	2,100 (4,635)
Option	Vehicle Dynamics Control		—	—	—	—	—	—	—	○	○
	Power package		—	—	○	○	○	○	○	○	○
	Side airbag		○	○	○	○	○	○	○	○	○
	Curtain airbag		○	○	○	○	○	○	○	○	○
	Sunroof		—	—	○	○	○	○	○	○	○
	Navigation (DVD)		—	—	—	○	—	○	—	—	○

OUTBACK

SPECIFICATIONS

2. CANADA MODEL

Model			Sedan	Wagon					
			3.0 L DOHC	2.5 L SOHC					
			3.0 R	2.5 i		2.5 i Limited			
			5AT	5MT	4AT	5MT		4AT	
Curb weight (C.W.)	Front	kg (lb)	907 (2,005)	805 (1,775)	825 (1,820)	815 (1,795)	817 (1,800)	835 (1,840)	837 (1,845)
	Rear	kg (lb)	698 (1,540)	700 (1,545)	700 (1,545)	715 (1,580)	716 (1,580)	715 (1,580)	716 (1,580)
	Total	kg (lb)	1,605 (3,545)	1,505 (3,320)	1,525 (3,365)	1,530 (3,375)	1,533 (3,380)	1,550 (3,420)	1,553 (3,425)
Gross axle weight ratio (G.A.W.R.)	Front	kg (lb)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)
	Rear	kg (lb)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)
Gross vehicle weight (G.V.W.)			2,060 (4,545)	2,010 (4,435)	2,010 (4,435)	2,010 (4,435)	2,010 (4,435)	2,010 (4,435)	2,010 (4,435)
Option	Vehicle Dynamics Control		—	—	—	—	—	—	—
	Power package		○	—	—	○	○	○	○
	Side airbag		○	○	○	○	○	○	○
	Curtain airbag		○	○	○	○	○	○	○
	Sunroof		○	—	—	○	○	○	○
	Navigation (DVD)		—	—	—	—	○	—	○

Model			Wagon									
			2.5 L DOHC turbo						3.0 L DOHC			
			2.5 GT		2.5 GT Limited				3.0 R	3.0 R Limited		3.0: R L.L. Bean
			5MT	5AT	5MT		5AT		5AT			
Curb weight (C.W.)	Front	kg (lb)	848 (1,875)	878 (1,940)	862 (1,905)	864 (1,910)	892 (1,970)	894 (1,975)	892 (1,970)	915 (2,020)	917 (2,025)	907 (2,005)
	Rear	kg (lb)	698 (1,540)	698 (1,540)	723 (1,595)	724 (1,595)	723 (1,595)	724 (1,595)	703 (1,550)	730 (1,610)	731 (1,610)	723 (1,595)
	Total	kg (lb)	1,546 (3,415)	1,576 (3,480)	1,585 (3,500)	1,588 (3,505)	1,615 (3,565)	1,618 (3,570)	1,595 (3,520)	1,645 (3,630)	1,648 (3,635)	1,630 (3,600)
Gross axle weight ratio (G.A.W.R.)	Front	kg (lb)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)	1,040 (2,295)
	Rear	kg (lb)	1,060 (2,340)	1,060 (2,334 0)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,334 0)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)	1,060 (2,340)
Gross vehicle weight (G.V.W.)			kg (lb)	2,060 (4,545)	2,060 (4,545)	2,060 (4,545)	2,060 (4,545)	2,060 (4,545)	2,100 (4,635)	2,100 (4,635)	2,100 (4,635)	2,100 (4,635)
Option	Vehicle Dynamics Control		—	—	—	—	—	—	—	○	○	—
	Power package		—	—	○	○	○	○	—	○	○	○
	Side airbag		○	○	○	○	○	○	○	○	○	○
	Curtain airbag		○	○	○	○	○	○	○	○	○	○
	Sunroof—		—	—	○	○	○	○	—	○	○	○
	Navigation (DVD)		—	—	—	○	—	○	—	—	○	—

3. OPTION

Option	Front kg (lb)	Rear kg (lb)	Total kg (lb)
Vehicle Dynamics Control	6.4 (14.1)	0.2 (0.4)	6.6 (14.5)
Audio	1.8 (4.0)	0.7 (1.5)	2.5 (5.5)
Power package	1.8 (4.0)	3.1 (6.8)	4.9 (10.8)
Side airbag	1.9 (4.2)	1.9 (4.2)	3.8 (8.4)
Curtain airbag (Sedan model)	0.4 (0.9)	5.3 (11.7)	5.7 (12.6)
Curtain airbag (Wagon model)	0.5 (1.1)	5.0 (11.0)	5.5 (12.1)
Sunroof (Sedan model)	8.1 (17.9)	8.9 (19.6)	17.0 (37.5)
Sunroof (Wagon model)	8.3 (18.3)	18.7 (41.3)	27.0 (59.6)
Navigation (DVD)	2.2 (4.9)	0.8 (1.8)	3.0 (6.6)

PRECAUTION

PC

	Page
1. Precaution	2



1. Precaution

A: CAUTION

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 parts which are not instructed in this manual. Follow the directions in this manual when performing maintenance on the ABS/CM&H/U. When parts other than those specified are disassembled, it is possible that the ABS system will not operate when needed or cause it to operate incorrectly and result in injury.

2. VEHICLE DYNAMICS CONTROL (VDC)

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

3. BRAKE FLUID

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

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

4. RADIATOR FAN

The radiator 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.

5. ROAD TEST

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

6. AIRBAG

To prevent bodily injury from unexpected deployment of airbags and unnecessary maintenance, follow the instructions in this manual when performing maintenance on or near the airbag components, around front of the vehicle (radiator panel, front wheel apron, front side frame, front bumper, front hood, front fender), around side of the vehicle (front door, rear door, center pillar, rear fender, side sill, rear wheel apron), and on or near the airbag wiring harnesses.

To prevent unexpected deployment, turn the ignition switch to OFF and disconnect the ground cable from battery, then wait at least 20 seconds before starting work.

7. AIRBAG AND SEAT BELT PRETENSIONER DISPOSAL

To prevent bodily injury from unexpected airbag deployment, do not dispose the airbag modules and seat belt pretensioner in the same way as other waste. Follow all government regulations concerning disposal of refuse.

8. 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.

9. AIRBAG SPECIAL TOOL

To prevent unexpected deployment, only use special tools.

10.WINDOW

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

11.WINDOW ADHESIVE

Always use the recommended or equivalent adhesive when attaching glass to prevent it from coming falling, resulting in accidents and injury.

12.OIL

When handling oil, carefully observe the following to prevent unexpected accidents.

- Prepare container and waste cloths when performing work which oil could possibly spill. If oil spills, wipe it off immediately to prevent from penetrating into floor or flowing outside, for environmental protection.
- Follow all government regulations concerning disposal of refuse when disposing.

13.FUEL

When handling and storing fuel, carefully observe the following to prevent unexpected accidents.

- Be careful of fires.
- Prepare a container and cloth to prevent scattering of fuels when performing work where fuels can be spilled. If the fuel spills, wipe it off immediately to prevent it from penetrating the floor or flowing out, to protect the environment.
- Follow all government and local regulations concerning disposal of refuse when disposing.

14.ENGINE COOLANT

When handling engine coolant, adhere to the following to prevent from unexpected accident.

- Never remove the radiator cap because of the danger of engine coolant blowing out when the engine coolant is hot.
- Prepare a container and cloth to prevent spraying of engine coolant when performing work in which engine coolant can be spilled. If the fuel spills, wipe it off immediately to prevent from penetrating into floor or flowing out for environmental protection.
- Follow all government and local regulations concerning disposal of refuse when disposing.

15.AIR CONDITIONER REFRIGERANT

In order to prevent from global warming, avoid releasing air conditioner refrigerant into the atmosphere. Using a refrigerant recovery system, discharge and reuse it.

16.HOSE REMOVAL/INSTALLATION PROCEDURES

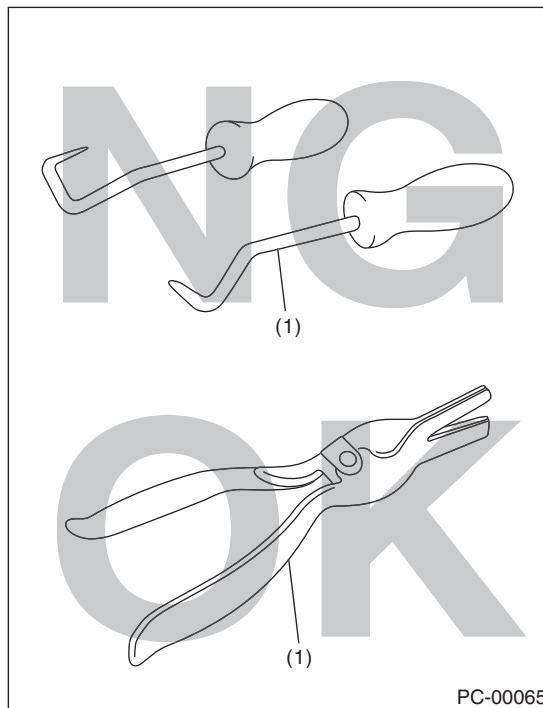
1. Hose Removal/Installation Pre-Procedures

- Be careful to inspect hoses so as not to use damaged or deformed hoses. Using such hoses could cause leakage or loss of oil, with leaked oil splashing on exhaust pipes or other hot parts, resulting in smoke or fire.
- Always remove hoses when performing work. Not removing the hoses and moving parts out of the way when performing procedures may damage the inside of hoses and cause other negative affects.

2. Hose Removal/Installation Procedures and Inspection

- Remove hoses according to the following instructions.

- If using the hose remover (general tool), do not use the sharp-pointed hose remover (hose plucker) as it may damage pipe surfaces or hoses.



(1) Hose remover

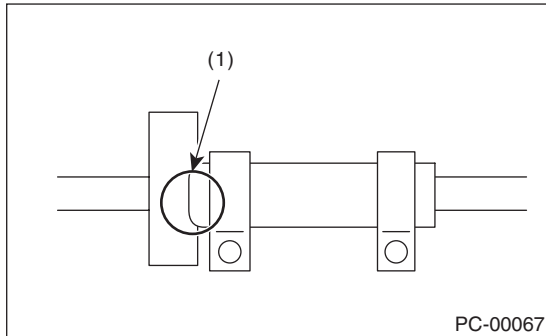
- When using pliers to make hose removal easier, always be sure to use a cloth to protect the hose, slightly rotate the hose, and then pull straight out by hand.

Precaution

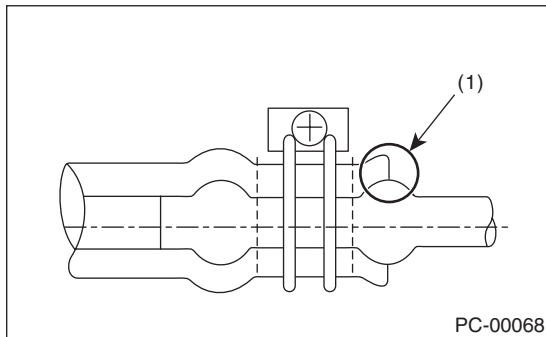
PRECAUTION

- **Inspect the following points in continuous use, and replace any hoses that are damaged or defective with new parts.**

- Replace any hoses that are riding over the stay or spool with new parts.



(1) Hose riding over a stay

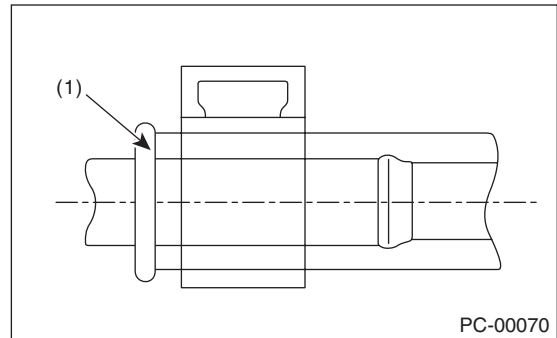
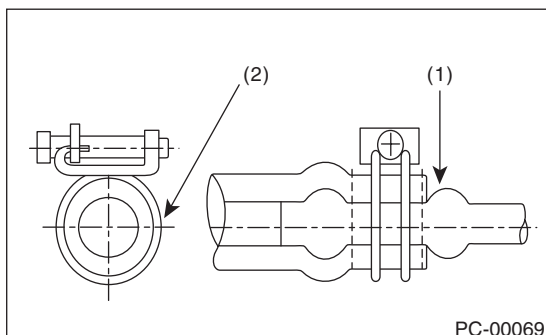


(1) Hose riding over a spool

- Check the inner and outer surfaces of the hose for damage, cracks, breakage, hardening/softening/swelling of rubber, internal peeling, and that there are no deformations caused by infiltration/adhesion of foreign matter, and no twisted hoses. Replace any defective hoses with new parts.

- **Install hoses according to the following instructions.**

- Carefully check the installation positions.
- Do not use any lubricants.
- Securely insert until the specified positions (until contacting spool).



- (1) Contacting the spool. (Do not excessively insert the hose to prevent the hose from becoming wrinkled up.)
- (2) Apply an equal clamping force all around the hose periphery.

- Check that the position and orientation of hose clamps, and the hose layout are correct. (Check that the position and orientation are matching, they are not excessively short/long, there are no differences with before performing the procedures, and that there is clearance between hoses and surrounding parts.)
- After installing, check that there are no disconnection of hoses or leakage from hoses. (Check that hoses are securely fixed by the clamps.)
- **Inspect the hose clips and clamps according to the following points, and replace any parts that are damaged or defective with new parts.**
 - Check for deformations, rust, damage, and adhering of foreign matter.
 - For clips, check that the spring functions and has clamping force.
 - For clamps, check that the screw can clinch, the clamp has not become oval shaped, and the screw is not damaged.
- **Inspect the pipes according to the following points, and replace any parts that are damaged or defective with new parts.**

Check that the pipes do not have any damage, rust, peeling (including peeling plating), foreign matter adhering, twisting, crushing, bending, or cracks.
- **Replace the following parts with new parts if the hoses have been removed or their installation positions have been changed.**

ATF cooler hose, engine oil cooler hose, MT oil cooler hose, power steering suction hose, and power steering return hose.

NOTE

NT

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1. Note	2



1. Note

A: NOTE

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

1. FASTENERS NOTICE

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

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

2. STATIC ELECTRICITY DAMAGE

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

3. BATTERY

When removing the battery terminal, always be sure to turn the ignition switch to OFF to prevent electrical damage of the control module from over-current. Be sure to remove the battery ground cable first.

4. SERVICE PARTS

Use genuine parts for maximum performance and maintenance when conducting repairs. Subaru/FHI will not be responsible for poor performance resulting from the use of parts except for genuine parts.

5. PROTECTING VEHICLE UNDER MAINTENANCE

Make sure to attach the fender cover, seat covers, etc. before work.

6. ENSURING SECURITY DURING WORK

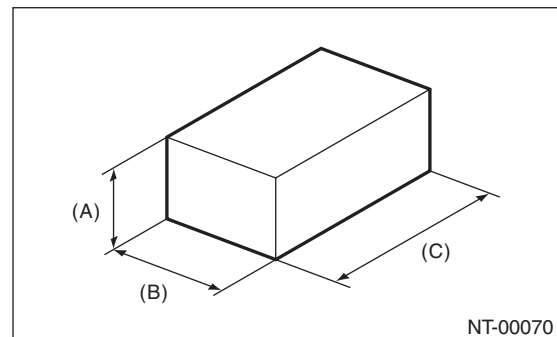
When working in a group of two or more, perform the work with calling each other to ensure mutual safety.

7. LIFT AND JACK

When using a lift or shop jack raise a vehicle or using rigid rack to support a vehicle, always follow instructions concerning jack-up points and weight limits to prevent the vehicle from falling, which could result in injury. Be especially careful that the vehicle is balanced before raising it. Be sure to set the wheel stoppers when jacking-up only the front or rear side of the vehicle.

NOTE:

- When using a lift, follow its operation manual before work.
- Do not work or leave unattended while the vehicle is supported with jack, support it with rigid racks.
- Be sure to use the rigid racks with rubber attached to cradle to support the vehicle.
- When using a plate lift, use a rubber attachment.

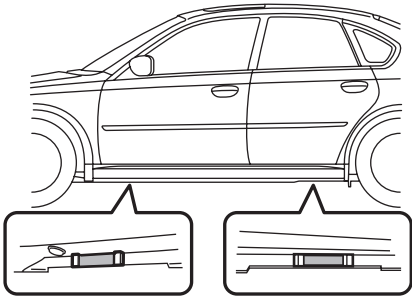


- (A) 80 mm (3.1 in) or more
- (B) 100 — 150 mm (3.94 — 5.91 in)
- (C) 120 — 190 mm (4.72 — 7.48 in)

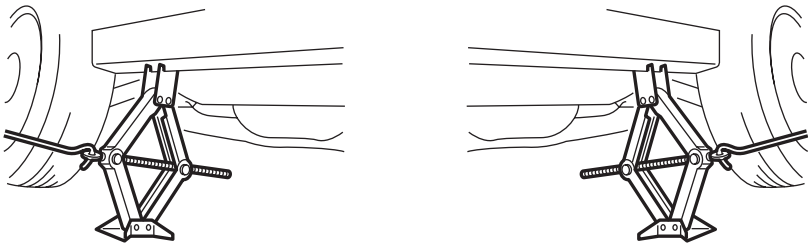
- Align the cushion rubber end of plate lift with the end of rubber attachment. (Portion b) Also, align the protrusion portion of the supporting locations with the end of attachment. (Portion a)

- Do not use the plate lift whose attachment does not reach the supporting locations.

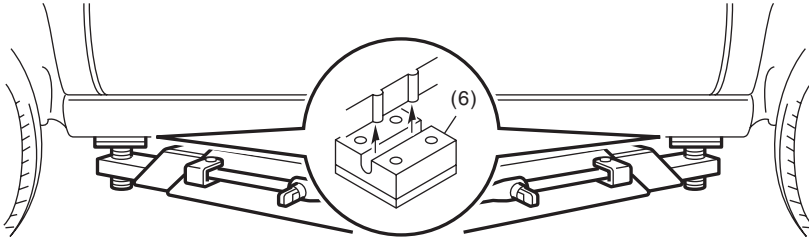
(1)



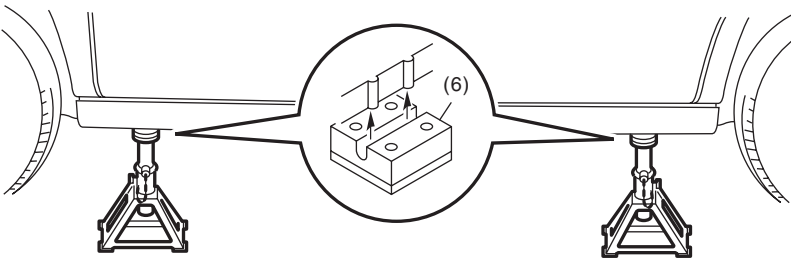
(2)



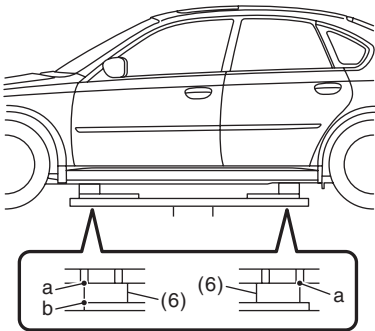
(3)



(4)



(5)



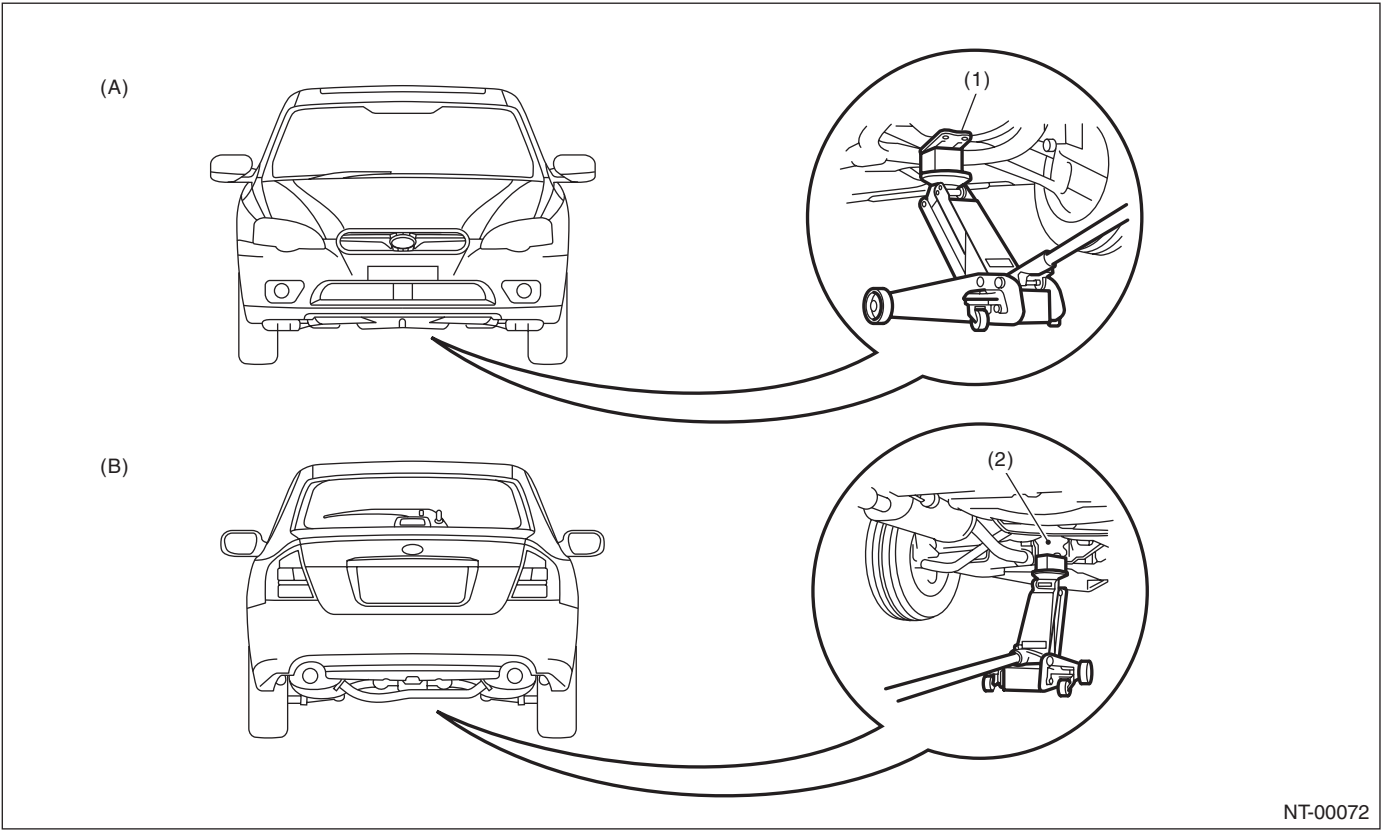
(1) Supporting locations
(2) Pantograph jack

(3) Swing arm lift
(4) Rigid rack

(5) Plate lift
(6) Attachment

NT-00086

NOTE



NT-00072

(A) Front

(B) Rear

(1) Front crossmember

(2) Rear differential

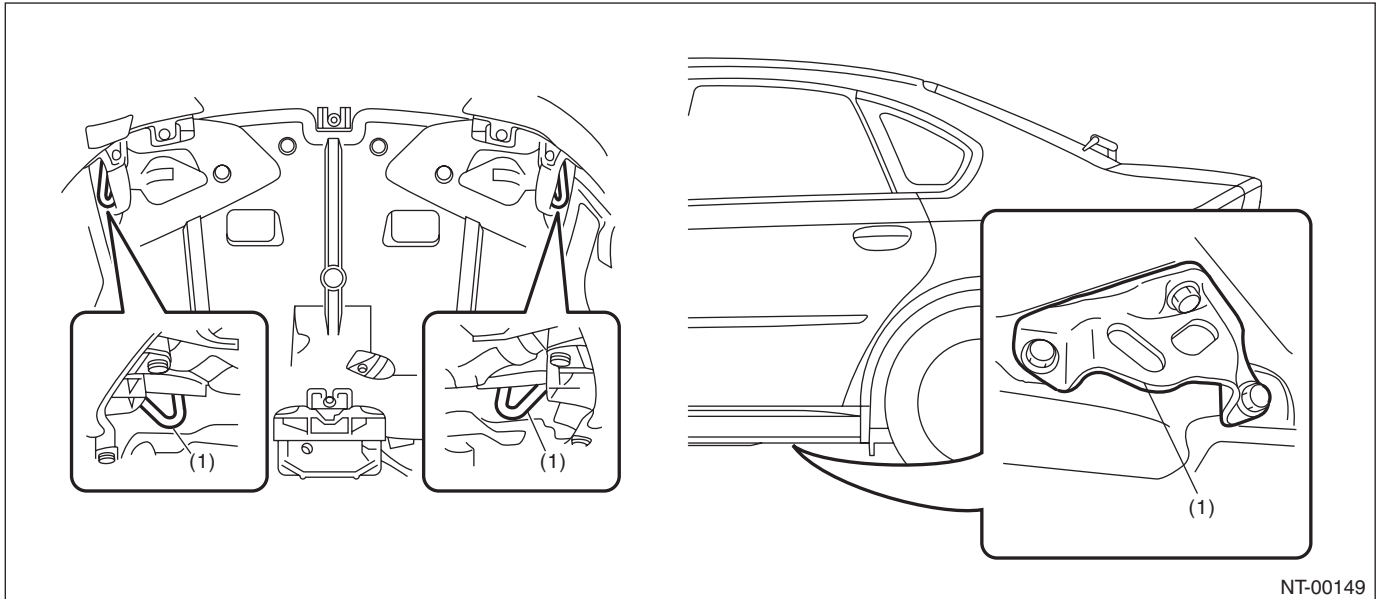
8. TIE-DOWNS

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

- Tie-down location

CAUTION:

Use the T-hook for rear tie-down. Do not use the hook other than T-hook, otherwise it can be removed when transporting vehicles

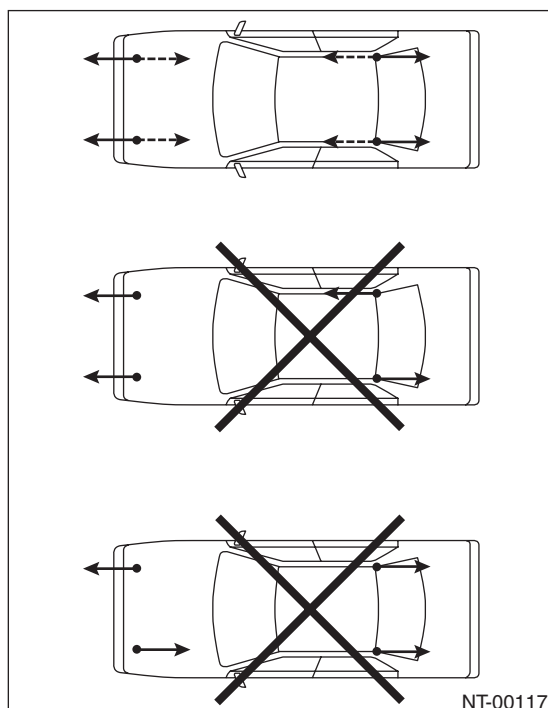


(1) Hook for tie-down

- CHAIN DIRECTION AT TIE-DOWN CONDITION

NOTE:

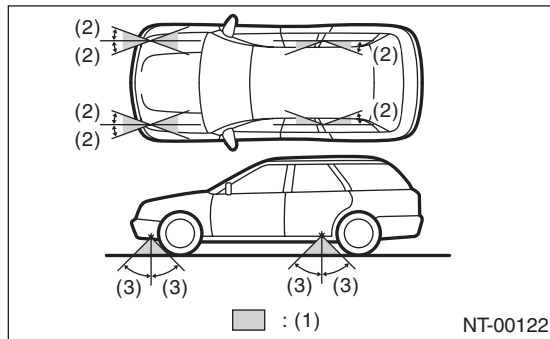
Pull the chains LH and RH in the same direction, but front and rear side in the counter direction. Pull all the chains in a same moment.



Note

NOTE

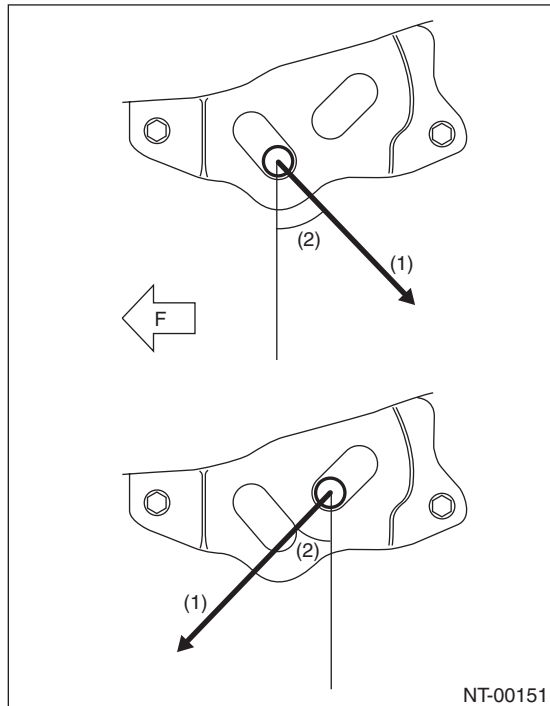
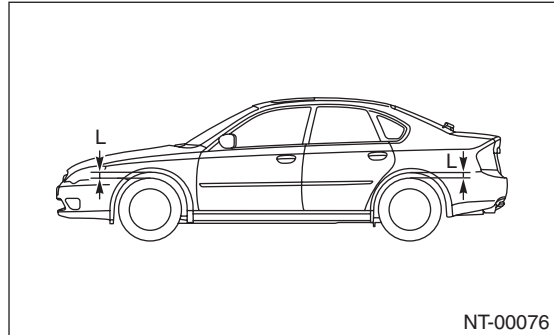
• CHAIN PULLING RANGE AT TIE-DOWN CONDITION



- (1) Chain pulling range at tie-down condition
- (2) 20°
- (3) 45°

• VEHICLE SINKING VOLUME AT TIE-DOWN CONDITION

Measure the distance between the highest tire point and highest arch point before and after tie-down. Difference of measured values (sinking volume) should be within 50 mm (1.97 in) and make sure to fix the vehicle securely.



(F) Front side

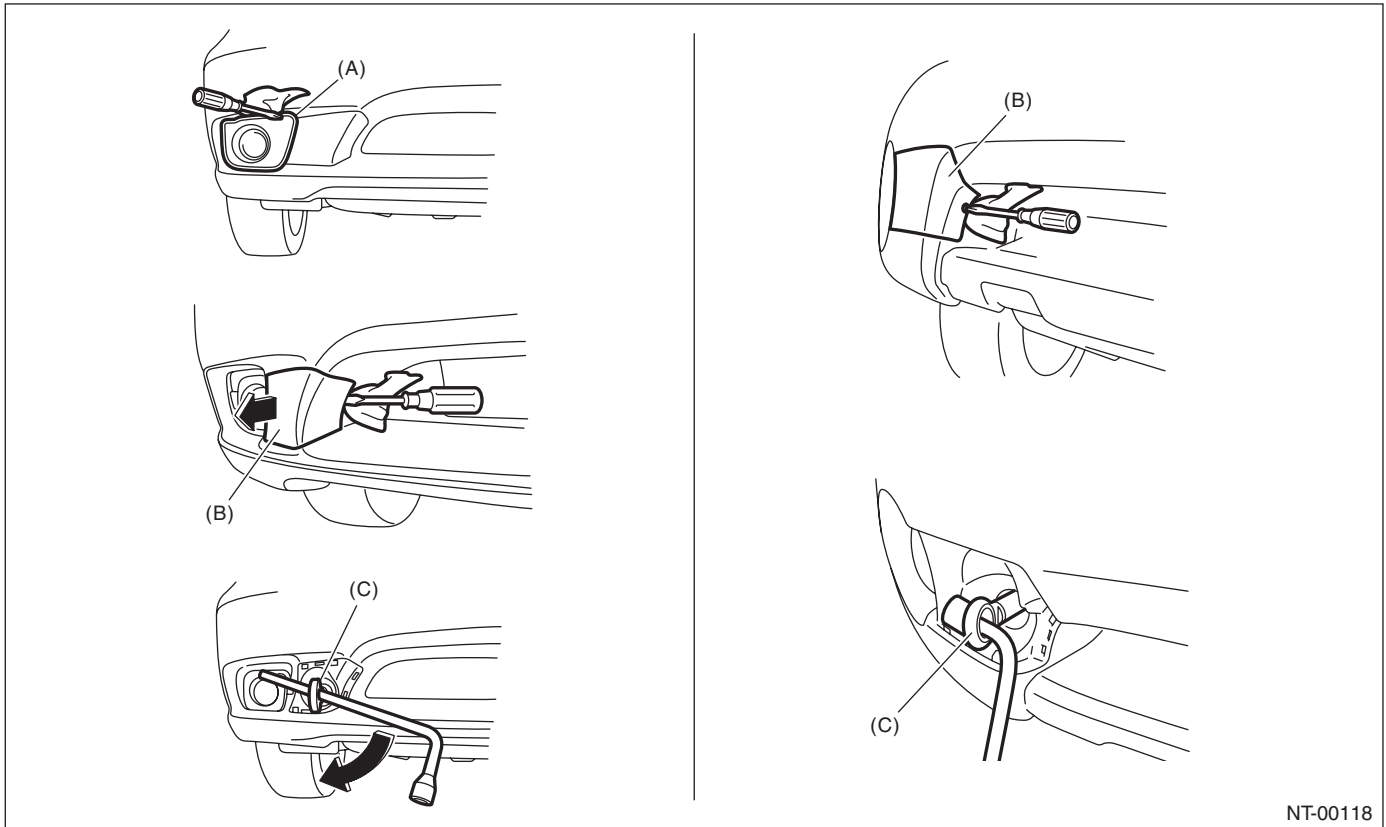
- (1) Tightening direction of chain
- (2) 45°

9. TOWING

Avoid towing vehicles except when the vehicle cannot be driven. For models with AWD, AT or VTD, use a loader instead of towing. When towing other vehicles, pay attention to the following to prevent hook or vehicle damage resulting from excessive weight.

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

Remove the fog light cover (except for OUTBACK model) and hook cover, and then install the hook.



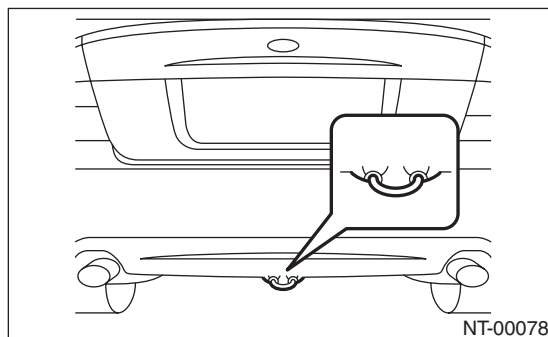
NT-00118

(A) Fog light cover (except for OUTBACK model)

(B) Hook cover

(C) Hook

- REAR

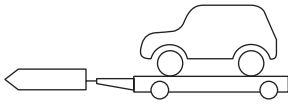
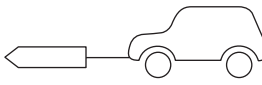
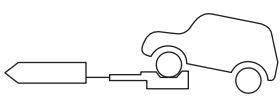
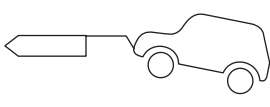


NT-00078

Note

NOTE

• NOTES

Towing	Precautions	MT	AT
Lifting up four wheels (On a trailer)  NT-00023	Towing the vehicle after lifting up all four wheels is a basic rule for AWD model.	○	○
Rope  NT-00024	• Check if both front and rear wheels are rotated normally. • AT model driving conditions: Driving speed 30 km/h (19 MPH) or less Allow driving distance 30 km (19 miles) or less	○	▲
Raising the front wheels  NT-00025	Prohibited for full-time AWD model.	×	×
Lifting up the front wheels  NT-00026	• Prohibited, due to damage on bumper, front grille, etc. • Do not raise the vehicle with bumper.	×	×

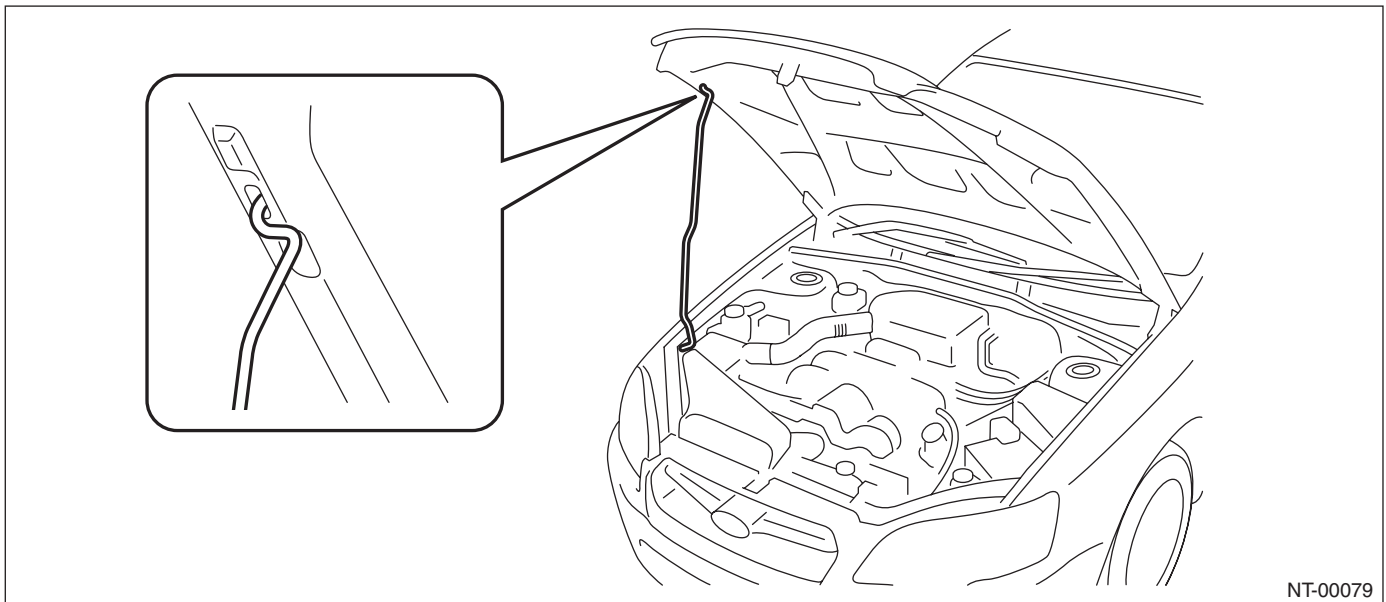
Marked ○ : OK, Marked × : Prohibited, Marked ▲ : Conditionally OK.

CAUTION:

- Check ATF, gear oil and rear differential oil before driving.
- Place the shift lever in “N” position during towing.
- Do not lift up the rear wheels to avoid unsteady rotation.
- Turn the ignition key to “ACC”, then check the steering wheel moves freely.
- Release the parking brake to avoid tire dragging.
- Since the power steering does not work, be careful for the heavy steering effort (When engine is stopped)
- Since the servo brake does not work, be careful that the brake is not applied effectively. (When engine is stopped)
- In case of the malfunction of internal transmission or drive system, lift up four wheels (on a trailer) for towing.

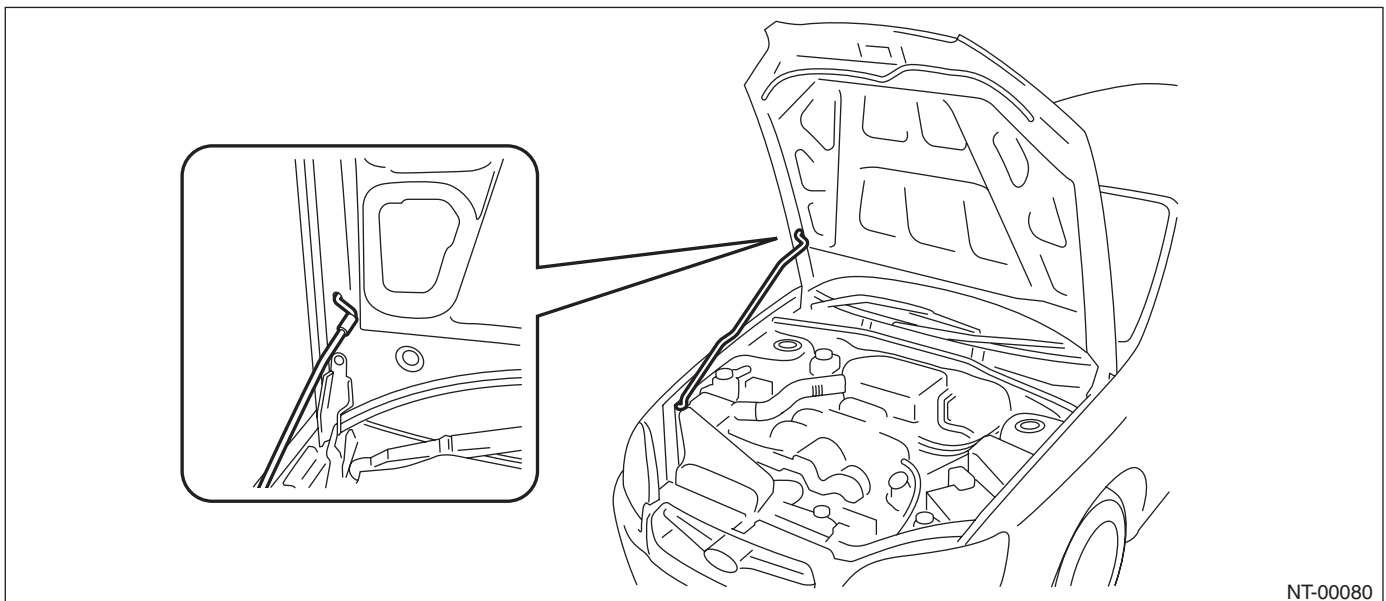
10.FRONT HOOD STAY INSTALLATION

- AT THE CHECK AND GENERAL MAINTENANCE



- WHEN WIDER HOOD OPENING IS NECESSARY

Set the stay into the hole of lower hood as shown in the figure below.



NOTE

11.GENERAL SCAN TOOL

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

12.AWD CIRCUIT MEASURES

1) Full-time AWD MT model

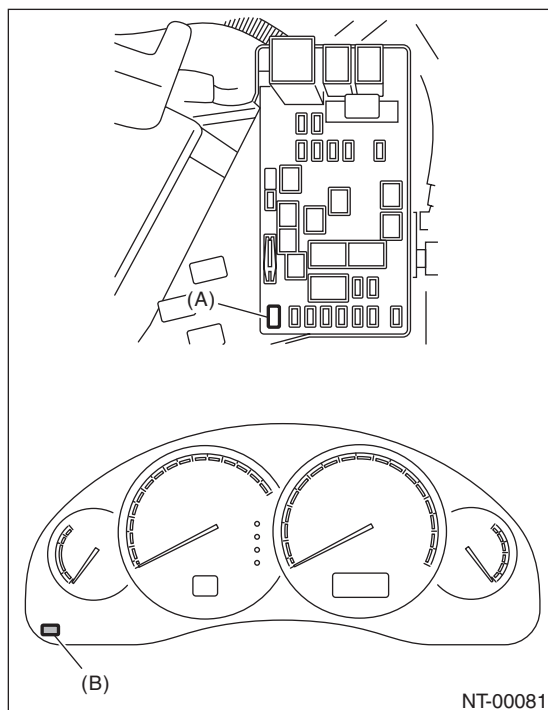
Since viscous coupling (limited slip differential) is used in the center differential, cut-off of AWD circuit cannot be carried out.

2) Full-time AWD 5AT model

Since VTD type is used in the center differential, cut-off of AWD circuit cannot be carried out.

3) Full-time AWD 4AT model

Insert a spare fuse into FWD fuse holder in the fuse box located in the left side of engine room to select the FWD. Since electronically controlled MT-P hydraulic multi-plate clutch is adapted for center differential, select FWD. When maintenance is performed with jack-up or on the free roller, check the illumination of AWD warning light in the combination meter.



- (A) FWD fuse holder
- (B) AWD warning light

13.SPEEDOMETER TEST

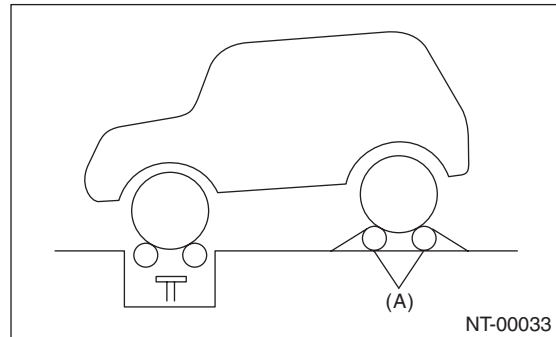
1) Rear wheel free roller system

- (1) Set the free roller on the floor of rear wheel side securely according to the wheel base and rear tread of the vehicle.

- (2) Let the vehicle ride on the tester and free roller gently.

CAUTION:

Fix the vehicle using a pulling metal (chain or wire) to the front and rear towing hooks or tie-down hook to prevent the lateral runout of front wheels and springing out of vehicle.



- (A) Free roller

- (3) Set the speedometer tester.
- (4) Conduct the speedometer test work.

CAUTION:

Do not operate the clutch quickly and do not accelerate or decelerate suddenly during work.

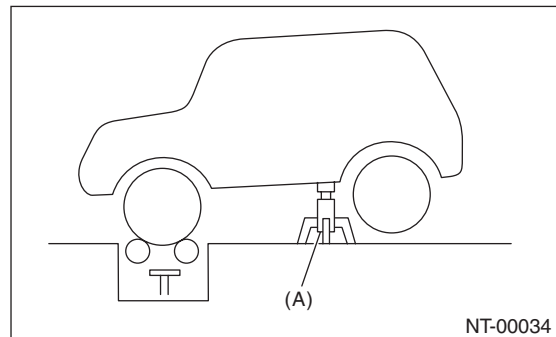
2) Rear wheel jack-up system

- (1) Set the vehicle on speedometer tester.

CAUTION:

Fix the vehicle using a pulling metal (chain or wire) to the front and rear towing hooks or tie-down hook to prevent the lateral runout of front wheels and springing out of vehicle.

- (2) Jack up the rear wheels and set the rigid racks to the specified locations of side sill.



- (A) Rigid rack

- (3) Conduct the speedometer test work.

CAUTION:

Do not operate the clutch quickly and do not accelerate or decelerate suddenly during work.

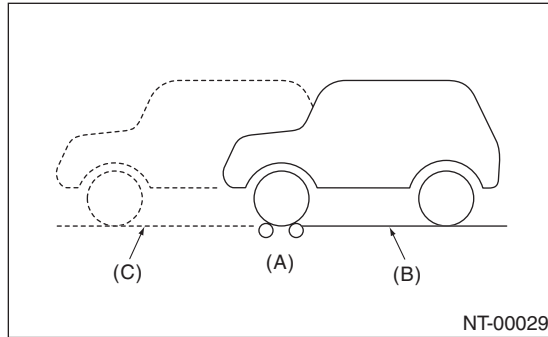
14.BRAKE TEST

1) Full-time AWD MT model

- (1) Perform this test after driving the vehicle 2 to 3 km (1.24 to 1.86 miles) on road in order to stabilize the viscous torque of viscous coupling.
- (2) Keep the front or rear wheels on the ground for this test.

NOTE:

Effect of the viscous torque on braking force will be added approx. 25 kg compared with FWD model.

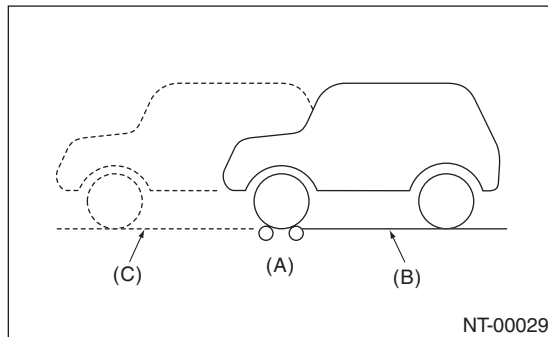


- (A) Brake tester
- (B) Position for measuring front wheel
- (C) Position for measuring rear wheel

- (3) When the brake dragging force is large.
 - Check the dragging of brake pad or brake shoe.
 - Since it may be affected by the viscosity of viscous coupling, jack up either of the front or rear two wheels to check the each wheel rotation condition with the viscous coupling affection removed.

2) Full-time AWD AT model

- (1) Keep the front or rear wheels on the ground during measurement.



- (A) Brake tester
- (B) Position for measuring front wheel
- (C) Position for measuring rear wheel

- (2) When the brake dragging force is large.
 - Check the dragging of brake pad or brake shoe.

Specifications:

	Braking force
Rear wheel total	More than 10% of load on front or rear wheels
Difference between right and left wheels	Less than 8% of load on front or rear wheels
Grand total	More than 50% of vehicle weight at the time of test

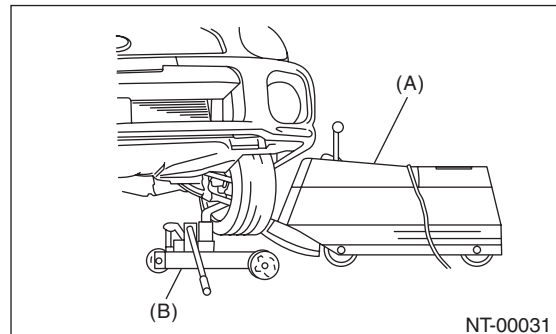
- When measurement is difficult to carry out because both of front wheels are locked, brake force measurement in this condition conforms to standard grand total.

15.ON THE CAR WHEEL BALANCING

CAUTION:

- Carry out this procedures after measuring the balance of each single tire.
- Set the vehicle so that the front and rear wheels are the same height.
- Release the parking brake during measurement.
- Rotate each wheel by hands, and make sure it rotates without dragging.
- Do not operate the clutch quickly and do not accelerate or decelerate suddenly during work.
- When an error is indicated during engine drive, do not use the motor drive together.

- 1) Set the rigid rack to the specified locations of side sill, jack up the front or rear two wheels of non-measuring side and set the pickup stands to two wheels of measuring side.



- (A) Balancer body
- (B) Pickup stand

- 2) For drive wheel, drive the tires with engine for measurement.
- 3) For non-drive wheel, drive the tires from the on the car wheel balancer for measurement.

NOTE

IDENTIFICATION

ID

	Page
1. Identification	2



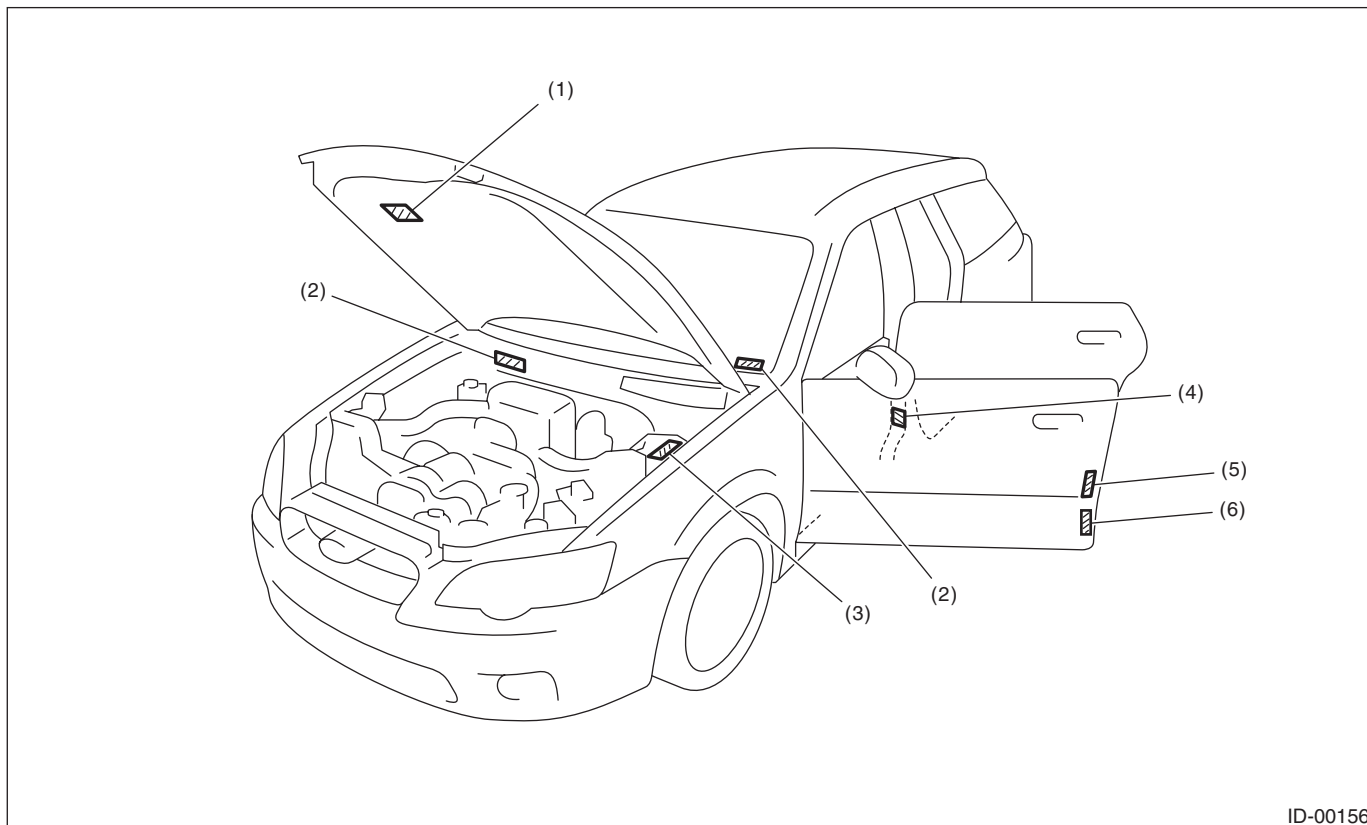
1. Identification

A: IDENTIFICATION

1. IDENTIFICATION NUMBER & LABEL LOCATIONS

The V.I.N. (Vehicle Identification Numbers) is used to classify the vehicle.

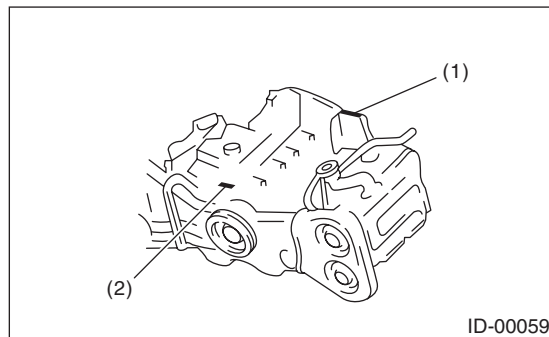
• POSITIONING OF THE PLATE LABEL FOR IDENTIFICATION



ID-00156

- | | | |
|--|---|---|
| (1) Emission control label | (3) Model number plate
(Applied models before 30th August, 2005) | (5) Emission control label FMVSS label (U.S. model)
CMVSS label (Canada model) |
| (2) Vehicle identification number (V.I.N.) | (4) Tire inflation pressure label (Driver side) | (6) Model number label
(Applied models after 31th August, 2005)
(Driver's side) |

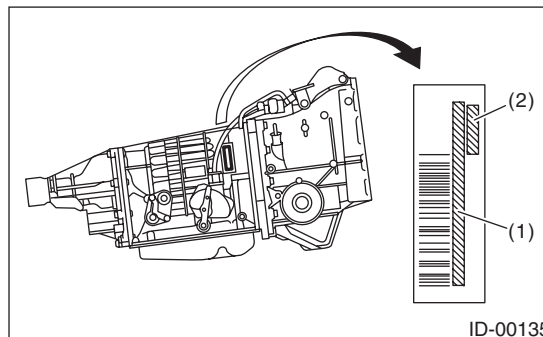
• ENGINE



ID-00059

- (1) Engine serial number (Punch mark)
(2) Engine type (Crankcase upper side)

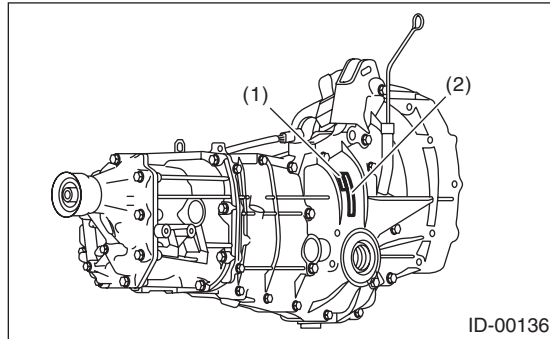
• AUTOMATIC TRANSMISSION



ID-00135

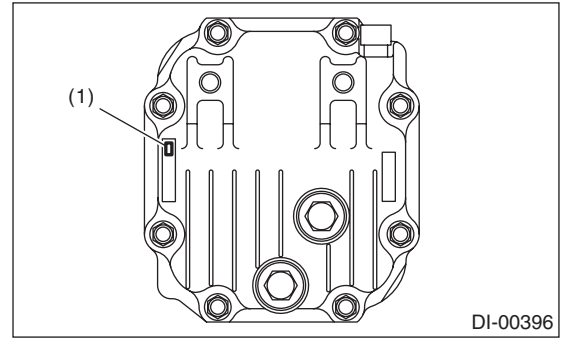
- (1) AT type label
(2) Transmission serial number label

• MANUAL TRANSMISSION



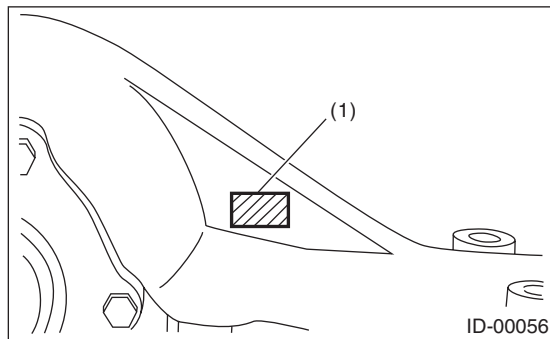
- (1) Transmission serial No.
- (2) MT type label

VA1-TYPE



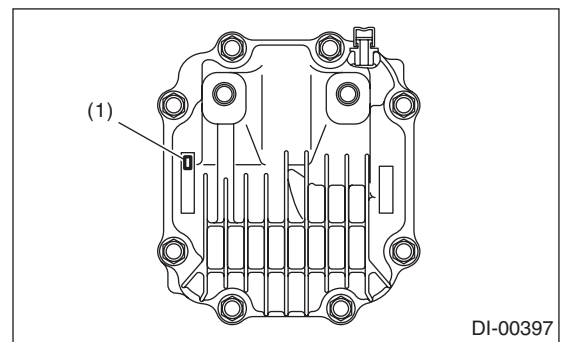
- (1) Type (label)

• REAR DIFFERENTIAL T-TYPE



- (1) Type (white paint)

VA2-TYPE



- (1) Type (label)

• Model number plate (Applied models before 30th August, 2005)

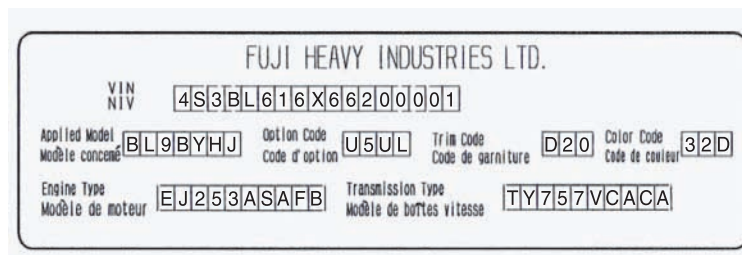
FUJI HEAVY INDUSTRIES LTD.			
		型式	
車台番号 VIN	4S3BL616X66200001		
アプライドモデル Applied model	BL9BYHJ	オプションコード Option CODE	U5UL
トリムコード TRIM CODE	D20	エンジン型式 Engine type	EJ253ASAFB
外装色コード COLOR CODE	32D	ミッション型式 Transmission type	TY757VCACA

ID-00139

Identification

IDENTIFICATION

- **Model number label (Applied models after 31th August, 2005)**



ID-00158

2. MEANING OF V.I.N.

The meaning of the V.I.N. is as follows:

4S3BL616X66200001

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

Digits	Code	Meaning	Details
1 — 3	4S3	Manufacturer body area	4S3: Except for OUTBACK model 4S4: OUTBACK model
4	B	Car line	LEGACY
5	L	Body type	L: Sedan P: Wagon
6	6	Displacement	6: 2.5 L AWD 8: 3.0 L AWD
7	1	Grade	1: i 2: i Limited 4: R 5: R Limited 6: R L.L. Bean 7: GT Limited or GT spec. B 8: GT
8	6	Restraint or GVWR Class	6: Manual belts, Dual airbag, Side airbag (Except for OUTBACK model) C: Class C (GVWR 4001 — 5000 lb) (OUTBACK model)
9	X	Check digit	0 — 9&X
10	6	Model year	6: 2006MY 7: 2007MY
11	6	Transmission type	4: Full-time AWD 5AT 6: Full-time AWD 5MT 7: Full-time AWD 4AT
12 — 17	200001	Serial number	From 200001: Sedan From 300001: Wagon

3. MODEL NUMBER PLATE

The model number plate indicates the type, V.I.N. <Ref. to ID-4, MEANING OF V.I.N., IDENTIFICATION, Identification.>, applied model, option code, trim code, engine type, transmission type and the exterior color code. This information is helpful when placing orders for parts.

• BL9BYHJ

Digits	Code	Meaning	Details
1	B	Series	LEGACY
2	L	Body type	L: Sedan P: Wagon
3	9	Engine displacement Drive system Suspension system	9: 2.5 L AWD E: 3.0 L AWD
4	B	Model year	B: 2006MY
5	Y	Destination	Y: U.S, Canada
6	H	Grade	8: 2.5 GT Limited (ivory interior) 9: OUTBACK 2.5 XT Limited (ivory interior) A: OUTBACK 2.5 XT C: 2.5 GT Limited or 2.5 GT spec. B (black interior) D: OUTBACK 2.5 XT Limited (black interior) E: 2.5 GT H: 2.5 i K: 2.5 i Limited S: OUTBACK 2.5 i T: OUTBACK 2.5 i Limited U: OUTBACK 3.0 R V: OUTBACK 3.0 R Limited X: OUTBACK 3.0 R L.L. Bean
7	J	Transmission, fuel feed system	J: SOHC MFI 5MT D: DOHC MFI Turbo 5MT L: SOHC MFI 4AT TIP V: DOHC MFI Turbo 5AT TIP U: DOHC MFI 5AT TIP

The engine and transmission type are as follows.

• ENGINE

EJ253ASAFB

Digits	Code	Meaning	Details
1 and 2	EJ	Engine type	EJ: 4 cylinders EZ: 6 cylinders
3 and 4	25	Displacement	25: 2.5 L 30: 3.0 L
5	3	Fuel feed system	3: MFI non-turbo (SOHC) D: MFI non-turbo (DOHC, H6) 5: MFI turbo
6	A	Emission control	A: For states not using California emission standards B: For USA C: For states using California emission standards
7	S	Mounted transmission	L: 5AT S: 5MT (Flexible type flywheel) T: 5MT (Dual mass type flywheel) V: 4AT (H4), 5AT (H6)
8 — 10	AFB	Detailed specifications	Used when ordering parts. See the parts catalog for details.

Identification

IDENTIFICATION

• Transmission

TY757VCACA

Digits	Code	Meaning	Details
1	T	Transmission	T: Transmission
2	Y	Transmission type	Y: Full-time AWD MT center differential B: Full-time AWD AT center differential Z: Full-time AWD AT MPT
3 and 4	75	Identification	75: 5MT 1B: 4AT 5C: 5AT
5	7	Series	LEGACY, OUTBACK
6	V	Transmission specifications	C: Full-time AWD VTD 5AT L: Full-time AWD MPT 4AT V: Full-time AWD 5MT single range with viscous coupling center differential
7	C	Mounted vehicle	C: 2.5 L SOHC M: 3.0 L DOHC W: 2.5 L DOHC Turbo
8 — 10	ACA	Detailed specifications	Used when ordering parts. See the parts catalog for details.

• REAR DIFFERENTIAL

XJ

Code	Reduction gear ratio	LSD
XJ	4.111	None
T1	3.900	None
JP	4.111	Viscous
XU	3.272	Viscous
CF	4.444	Viscous
XW	3.583	Viscous
JE	4.111	Viscous
CD	4.444	Viscous

• Option

U5UL

Digits	Code	Meaning	Details
1 — 2	U5	Destination	U5: U.S. For states using California emission standards U6: U.S. For states not using California emission standards U4: U.S. For USA U0: Canada
3	U	Option equipment	E: Vehicle dynamics control (VDC), Cruise control, Power pack U: Cruise control 3: Cruise control, Power pack
4	L	Option equipment	C: A/C, Side airbag, Curtain airbag, Grade up package L: A/C, Side airbag, Curtain airbag W: A/C, Side airbag, Curtain airbag, Sunroof

RECOMMENDED MATERIALS

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Recommended Materials

RECOMMENDED MATERIALS

1. Recommended Materials

A: RECOMMENDED MATERIALS

1. GENERAL

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

2. FUEL

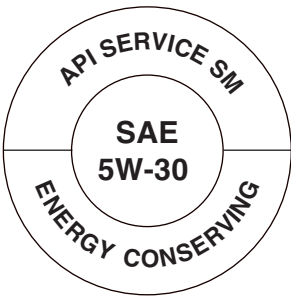
Always use gasoline of the same or higher octane value than specified in the owner's manual. Ignoring the specifications below will result in damage or poor performance of engine and fuel injection system. Use the specified gasoline to correct performance.

Unleaded gasoline

In order to reduce air pollution, use unleaded gasoline for the vehicle equipped with catalytic converter. Using leaded gasoline may damage the catalytic converter.

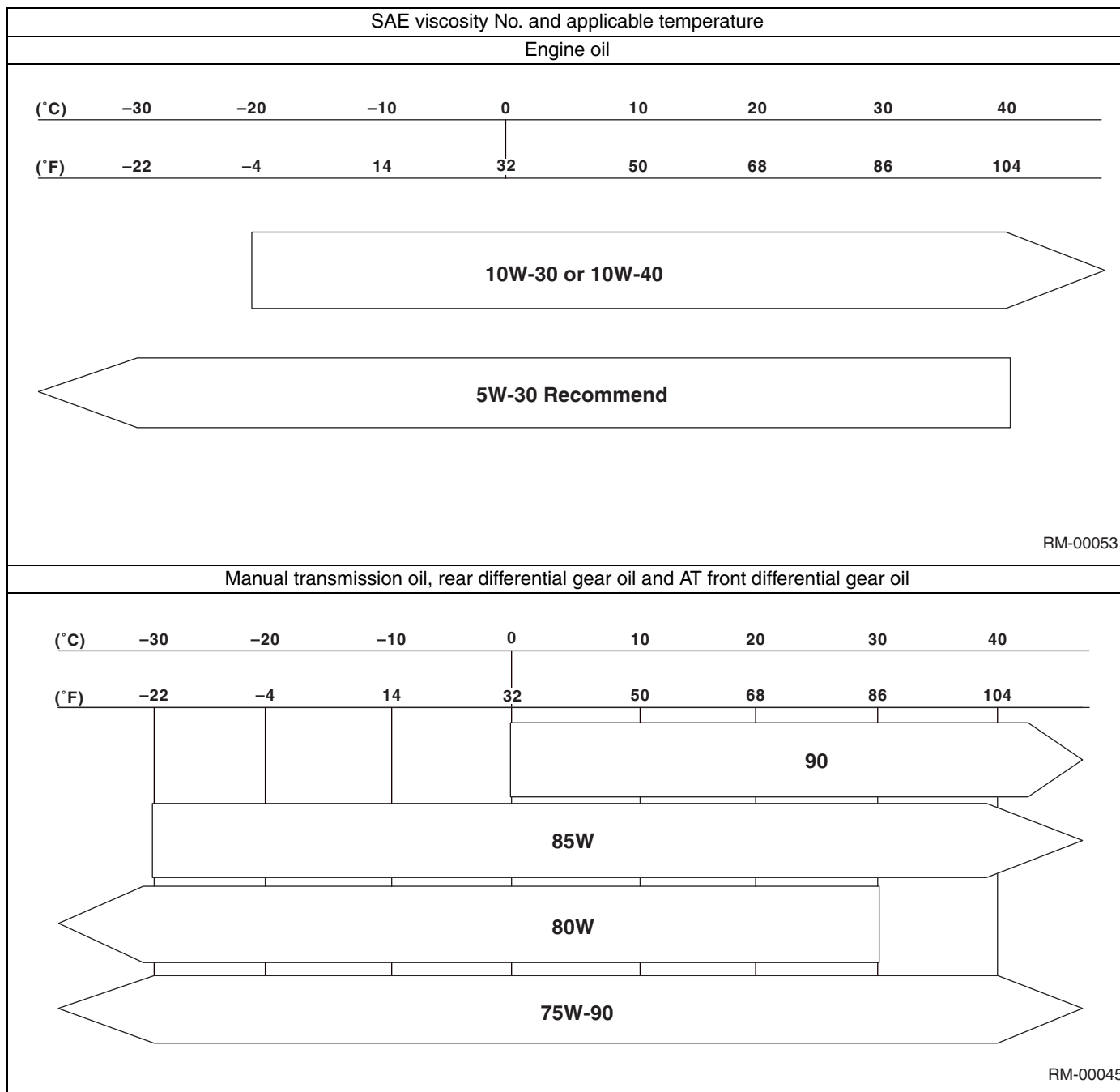
3. LUBRICANTS

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

Lubricants	Recommended materials	
	API Standard	ILSAC Standard
Engine oil	SM "Energy conserving"  RM-00049	GF-4  RM-00002
Manual Transmission Oil	GL-5	—
AT front differential gear oil	GL-5	—
Rear differential gear oil	GL-5	—

Recommended Materials

RECOMMENDED MATERIALS



4. FLUID

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

CAUTION:

Be sure to use the recommended or equivalent ATF for 5AT. Using material except recommended one or substitute would cause trouble.

Fluid	Recommended materials	Alternative	Remarks
Automatic transmission fluid	Subaru ATF Type-HP	IDEMITSU: Apolloil ATF HP Castrol: Transmax J	—
Power steering fluid	DEXRON III	—	—
Brake fluid	FMVSS No. 116 DOT3	—	—
Clutch fluid	FMVSS No. 116 DOT3	—	—

Recommended Materials

RECOMMENDED MATERIALS

5. COOLANT

Use genuine coolant to protect the engine.

Coolant	Recommended materials	Item number	Alternative
Coolant	SUBARU coolant	000016218	None
Water for dilution	Distilled water	—	Tap water (Soft water)
Cooling system protective agent	Cooling system conditioner	SOA345001	None

6. REFRIGERANT

Standard air conditioners on Subaru vehicles use HFC134a refrigerant. Do not mix it with other refrigerants. Also, do not use any compressor oil other than DENSO OIL 8.

Air conditioner	Recommended materials	Item number	Alternative
Refrigerant	HFC134a	—	None
Compressor oil	DENSO OIL 8	—	None

7. GREASE

Use grease and supplementary lubricants shown in the table below.

Grease	Application point	Recommended materials	Item number	Alternative
Supplementary lubricants	- Oxygen sensor - Bolts etc.	Spray type lubricant	—	—
Grease	MT main shaft	NICHIMOLY N-130	—	—
	Clutch master cylinder push rod	SILICONE GREASE G-40M	004404003	—
	- Gear shift lever - Clutch activating cylinder - Clutch pedal - Brake pedal - Clutch bearing - Clutch release lever	KOPR-KOTE	003603001	—
	Select lever	Multemp AC-D Multemp SH-W (Shift lock part)	—	—
	- Door latch - Door striker	SILICONE GREASE G-30M	004404002	—
	Steering gearbox	VALIANT GREASE M2	003608001	—
	Disc brake (lock pin, guide pin, piston boot)	NIGLUBE RX-2	K0779GA102	—
	Between brake pad and shim	Molykote AS-880N	K0777YA010	—
	Brake pad clip	Molykote M7439	003602001	—
	Front axle PTJ	NKG302	28395AG02A	—
	- Rear axle BJ - Rear axle EBJ	NTG2218-M	28395AG01A	—
	Rear axle DOJ	NKG205	28495AG00A	—

Recommended Materials

RECOMMENDED MATERIALS

8. ADHESIVE

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

Adhesive	Application point	Recommended materials	Item number	Alternative
Adhesive	Windshield, rear window glass, rear quarter glass, rear gate and body	Dow Automotive's Adhesive: ESSEX U-400HV or equivalent Glass primer: U-401 and No. U-402 Painted surface primer: U-413	—	—
	Rearview mirror base	REPAIR KIT IN MR	65029FC000	—
	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 materials	Item number	Alternative
Seal material	- MT transmission case - Cylinder block - Converter case - DOHC camshaft cap (Turbo model) - Cylinder head plug (Turbo model) - Oil pump (Except for 3.0 L model)	THREE BOND 1215	004403007	DOW CORNING No. 7038
	Transmission oil pan (AT model)	THREE BOND 1217B	K0877YA020	—
	Engine oil pan (Except for 3.0 L model)	THREE BOND 1207C	004403012	—
	- Rear differential - Engine oil pressure switch - Connector (Oil hose) (Turbo model) - Cylinder head (Nipple) (3.0 L model) - Camshaft bowl-shape plug (3.0 L model)	THREE BOND 1324	004403042	—
	- Rear differential - PCV valve	THREE BOND 1105	004403010	DOW CORNING No. 7038
	Steering adjusting screw	THREE BOND 1141	004403006	—
	- SOHC camshaft cap - Cam cap (3.0 L model) - Cylinder head plug (3.0 L model) - Rocker cover (3.0 L model) - Oil pan (Pan upper) (3.0 L model) - Block (Pan upper) (3.0 L model) - Back cover (Front cover, block, head, pan upper) (3.0 L model)	THREE BOND 1280B	K0877YA018	THREE BOND 1217G
	- Front sealing cover - Rear sealing cover	3M Butyl Rubber 8626	—	—

Recommended Materials

RECOMMENDED MATERIALS

PRE-DELIVERY INSPECTION

PI

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1. Pre-delivery Inspection

A: GENERAL DESCRIPTION

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 condition.
- Check the vehicle before delivery is in normal condition.
- Check the vehicle or parts for any damage occurred during transportation or storage.
- Check the vehicle after repair is in normal condition.
- Make sure to provide a complete vehicle to customer.

For above reasons, all SUBARU dealers (dealerships) must carry out the PDIs before delivery of vehicle.

Refer to this manual unless otherwise specified.

B: PRE-DELIVERY INSPECTION (PDI) PROCEDURE

STATIC CHECKS JUST AFTER VEHICLE RECEIPT

PROCEDURE	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 painted area for damage or stains in detail. 2. Visually check the glass and light lenses for any damage, cracks or excessive gaps between body sheet metal. 3. Visually check the plated parts for any damage.
2. Tire check	1. Check the tires for damage, defective, and dents on wheels. 2. Check the tire air pressure.
3. Fuse installation	If the vehicle is about to be delivered to customer, attach a back-up fuse.
4. Air conditioner harness connection	If the vehicle is about to be delivered to the customer, connect the air conditioner harness.
5. Lock/unlock and open/close operation checks of doors	1. Using the key, check the trunk lid can be locked or unlocked normally. 2. Open and close all doors to check that there are no defective. 3. Operate the power door lock switch to check that the door (rear gate) is locked and unlocked normally.
6. Operation check of child safety lock system	Check the child safety lock system operates normally.
7. Open/close operation checks of trunk lid	1. Operate the trunk lock release lever to check that the trunk lid opens normally. 2. Check that main and sub keys can lock/unlock the release lever, and that valet key can not lock/unlock the release lever. 3. Open and close the trunk lid to see that there are no abnormal conditions.
8. Operation check of trunk lid release lever	Operate the trunk lid release lever to check that the trunk lock is unlocked normally.
9. Check the rear gate for lock/unlock and open/close operations	1. Check if the rear gate can be unlocked normally through the emergency hole. 2. Open and close the rear gate to see that there are no abnormal conditions.
10. Operation check of fuel lid opener lock release lever	Operate the fuel lid opener to check that the fuel lid is unlocked normally.
11. Accessory check	Check that the following accessories are provided. • Owner's manual • Warranty booklet • Maintenance note • Spare key • Jack • Tool set • Spare tire
12. Operation check of front hood lock release system	Operate the front hood lock release lever to check that the front hood is unlocked normally.
13. Battery	Check the battery terminals for any abnormal conditions such as rust and trace of battery fluid leaks.
14. Brake fluid	Check that the fluid level is normal.
15. Engine oil	Check that the oil level is normal.
16. Transmission gear oil	Check that the transmission gear oil level is normal.
17. AT front differential oil	Check that the AT front differential oil level is normal.
18. Engine coolant	Check that the engine coolant level is normal.
19. Clutch fluid	Check that the clutch fluid level is normal.
20. Window washer fluid	Check that the window washer fluid level is normal.
21. Front hood latch check	Check that the hood is closed and latched securely.
22. Keyless entry system	Check that the keyless entry system operates normally.
23. Alarm system	Check that the alarm system operates normally.

Pre-delivery Inspection

PRE-DELIVERY INSPECTION

PROCEDURE	Check point
24. Seat	1. Check the seat surfaces for stains or dirt. 2. Check the seat installation conditions and functionality. 3. Check that the occupant detection system for passenger's seat operates normally.
25. Seat belt	1. Check the seat belt installation conditions and functionality. 2. Check that the seat belt warning system operates normally.

CHECKS WITH ENGINE RUNNING

PROCEDURE	Check point
26. Test mode connector	Test mode connector
27. Immobilizer system	1. Check that the engine starts with all keys that are equipped on vehicle. 2. 60 seconds after turning ignition switch from ON to ACC or OFF, or immediately after removing the key, check that the security indicator light blinking.
28. Starting condition	Start the engine and check that the engine starts smoothly.
29. Exhaust system	Check that the exhaust noise is normal and no leaks are found.
30. Indicator and warning lights	Check that all the indicator and warning lights are gone out.
31. Clock	Check that the clock operates normally.
32. Audio	Check the radio, CD player for normal operation.
33. Navigation system	1. Check all display functions for normal operation. 2. Check the map disc (DVD) are provided on vehicle. 3. Check that the navigation system operates normally.
34. Front accessory power supply socket	Check that the front accessory power socket operates normally.
35. Lighting system	Check that the lighting system operates normally.
36. Wiper deicer	Check that the wiper deicer operates normally.
37. Illumination control	Check that the illumination control operates normally.
38. Window washer	Check that the window washer system operates normally.
39. Wiper	Check that the wiper system operates normally.
40. Power window operation check	Check that the power window operations normally.
41. Sunroof	Check that the sunroof operates normally.
42. Door mirror	Check that the remote control mirror operates normally.

DYNAMIC TEST WITH THE VEHICLE RUNNING

PROCEDURE	Check point
43. Brake test	Check the foot brake for normal operations.
44. Parking brake	Check the parking brake for normal operations.
45. AT shift control	Check that the AT shift patterns are correct.
46. Heater and ventilation	Check that the heater and ventilation system operates normally.
47. Air conditioner	Check that the air conditioner operates normally.
48. Cruise control	Check that the cruise control system operates normally.

CHECKS AFTER DYNAMIC TEST

PROCEDURE	Check point
49. ATF level	Check that the ATF level is correct.
50. Power steering fluid level	Check that the power steering fluid level is normal.
51. Fluid leak check	Check for fluid/oil leaks.
52. Water leak test	Spray the vehicle with water and check for water leaks.
53. Appearance check 2	1. Remove the protective coating (if equipped). 2. Check the body paints for damage and stain. 3. Check the plated parts for damage and rust.

1. APPEARANCE CHECK

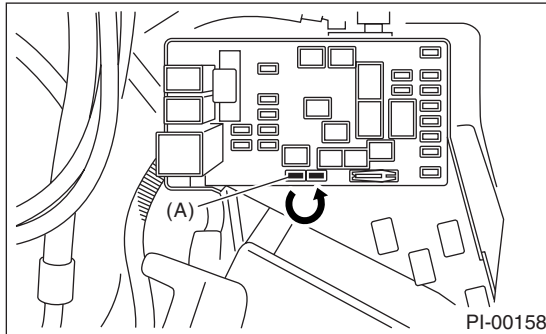
- If the vehicle is covered with protective coating, visually check the vehicle body for damage and dents.
- When the protective coating is removed, visually check the body paints for damage or stains in detail and repair as necessary.
- Visually check the windshield glass, door glasses and light lenses for any damage, cracks or excessive gaps to the body sheet metal and repair as necessary.
- Visually check the plated parts, such as the grilles and door knobs, for damage or loss of gloss and replace the parts as necessary.

2. TIRE CHECK

- Check the tires for damage, defective, and dents on wheels.
- Check and adjust the tire size, spare tire and tire air pressure described on the tire air pressure label (driver's side).

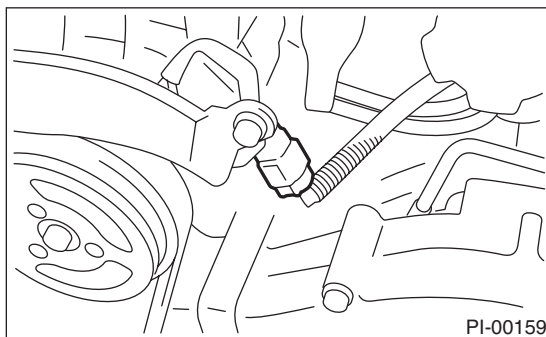
3. FUSE INSTALLATION

Fuses for the back-up circuit have been removed to prevent battery discharge. If the vehicle is about to be delivered to the customer, attach a 20 A fuse (A) as shown in the figure.



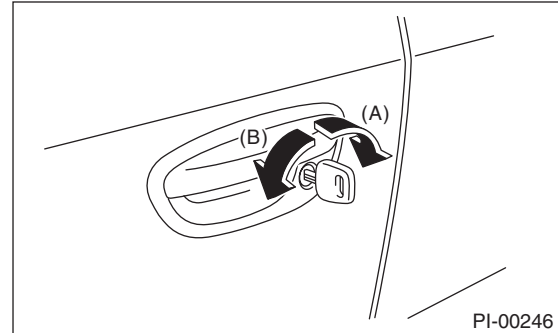
4. AIR CONDITIONER HARNESS CONNECTION

Disconnect the air conditioner harness immediately after vehicle delivery to protect the air conditioner compressor. Connect the harness as shown in the figure. (Except for 3.0 L model)



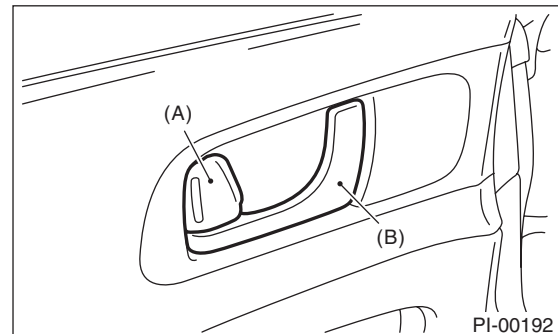
5. CHECK THE DOORS FOR LOCK/UNLOCK AND OPEN/CLOSE OPERATIONS

1) 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.



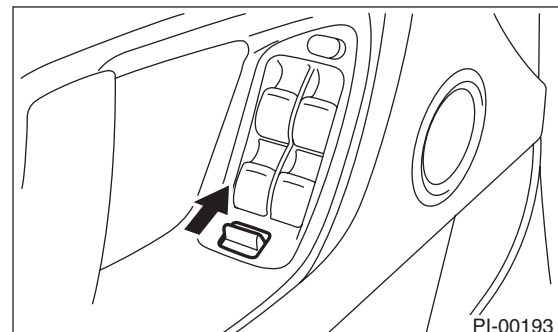
- (A) Unlock
(B) Lock

2) Completely close the driver's door, and then check the smooth movement with operating door lock knob from lock to unlock several times. Set the door lock knob (A) to lock position. Then pull the inner remote (B) to ensure that doors will not open. For other doors, place the door lock knob (A) to lock position and then pull the inner remote (B) to ensure that doors will not open.



- (A) Door lock knob
(B) Inner remote

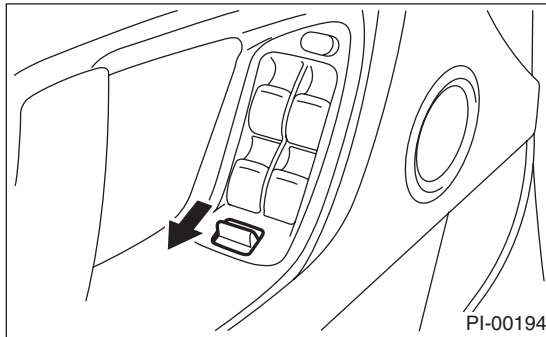
3) Close all the doors, and then press the lock on power door lock switch at driver's side. Check that all doors including rear gate are locked.



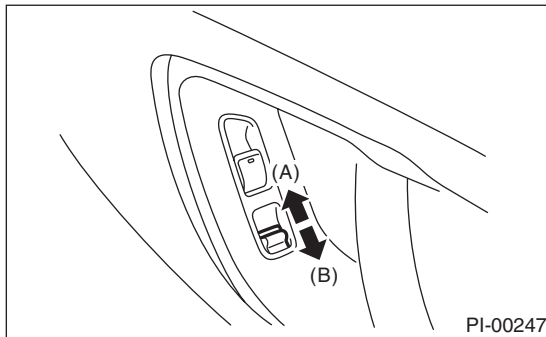
Pre-delivery Inspection

PRE-DELIVERY INSPECTION

4) Press the driver's side power door lock switch to unlock side. Check that all doors including rear gate are unlocked.



5) Check that the power door lock switch on the passenger's side also locks and unlocks.

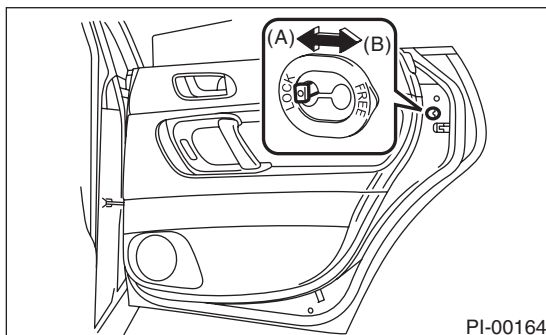


- (A) Lock
- (B) Unlock

6) Insert the key to ignition switch, and open the driver's side door. Press lock on power door lock. Check that the door is not locked.

6. CHECK THE OPERATION OF CHILD SAFETY LOCK SYSTEM

- 1) Set the child safety lock on both rear doors to the lock position.
- 2) Close the rear doors completely.
- 3) Check that the lock levers of the rear doors are in the unlock position. Then, pull inner remote of rear doors to ensure that the doors will not open.

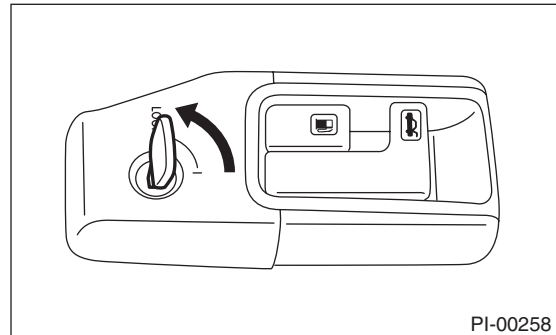


- (A) Lock
- (B) Unlock

4) Pull the outer handles to ensure that doors will open.

7. OPEN/CLOSE OPERATION CHECKS OF TRUNK LID

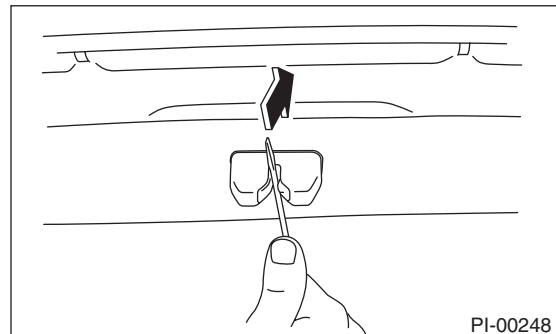
- 1) Operate the trunk lock release lever to check that the trunk lid opens normally.
- 2) Open and close the trunk lid several times for smooth movement.
- 3) Lock the trunk lock release lever using main key or sub key.



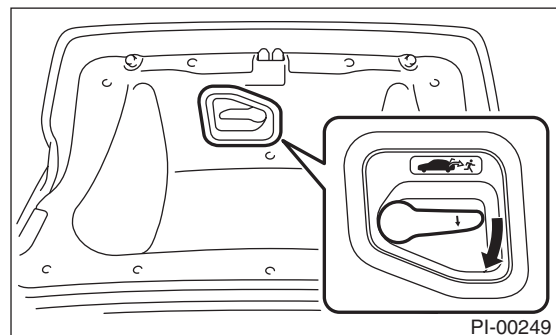
- 4) Check that the trunk lock release lever does not operate.
- 5) Check if the trunk lock release lever is not locked and unlocked using valet key.

8. OPERATION CHECK OF TRUNK LID RELEASE HANDLE

- 1) Use a flat tip screwdriver. 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.



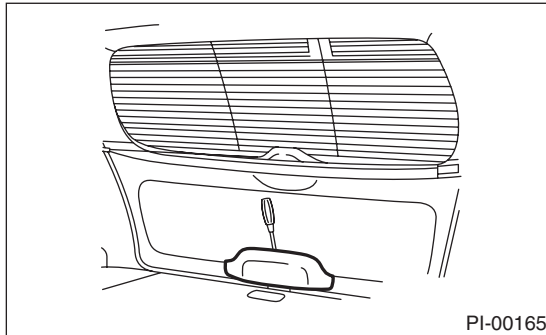
- 2) Move the release handle from outside the vehicle in the direction of the arrow to check if the latch is released.



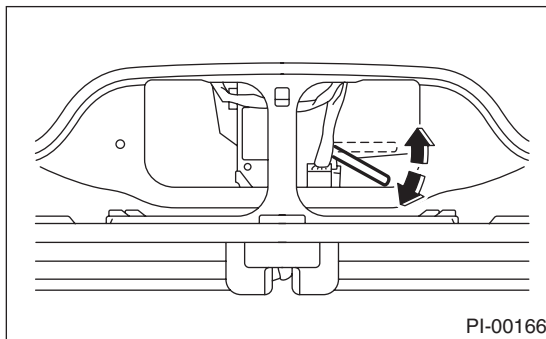
9. CHECK THE REAR GATE FOR LOCK/ UNLOCK AND OPEN/CLOSE OPERATIONS

- 1) Open and close the rear gate several times for smooth movement.
- 2) Operate the rear gate lever to check that the rear gate is locked and unlocked normally.

(1) Remove the cover inside the rear gate.



(2) Operate the lever to check that the rear gate is locked and unlocked normally.



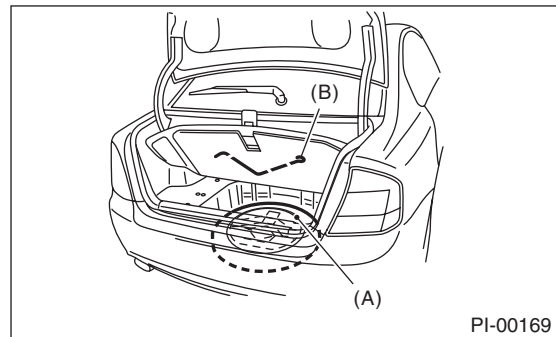
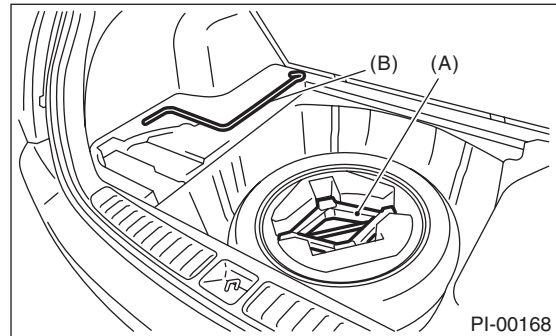
10. OPERATION CHECK OF FUEL LID OPENER LOCK RELEASE LEVER

Operate the fuel lid opener to check that the fuel lid is unlocked normally. Check that the filler cap is securely closed.

11. ACCESSORY CHECK

Check that the following accessories are provided.

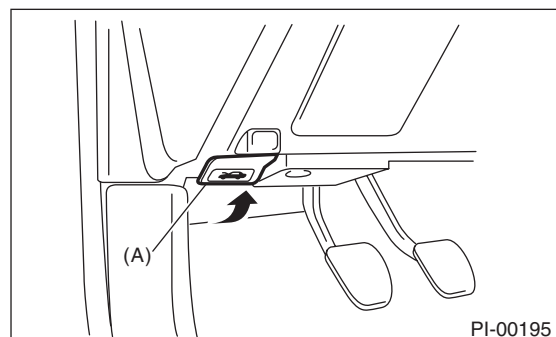
- Owner's manual
- Warranty booklet
- Maintenance note
- Spare key
- Jack
- Tool set
- Spare tire



- (A) Jack
(B) Jack handle

12. OPERATION CHECK OF FRONT HOOD LOCK RELEASE SYSTEM

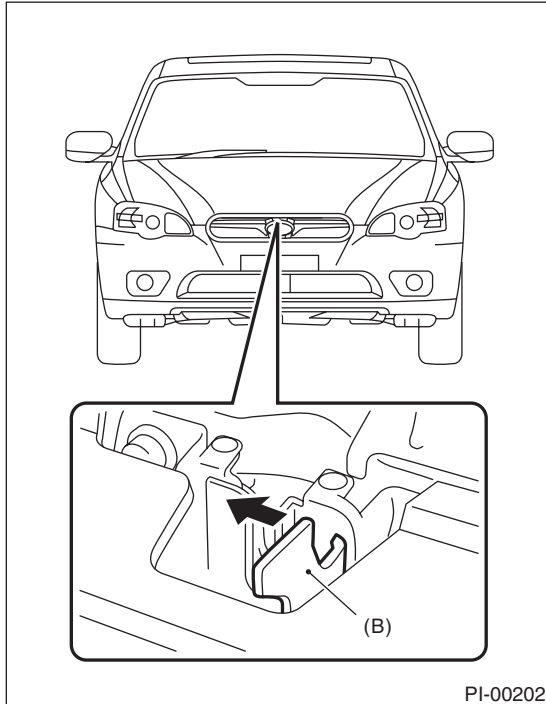
Operate the front hood lock release lever (A) to check that the front hood is unlocked normally.



Pre-delivery Inspection

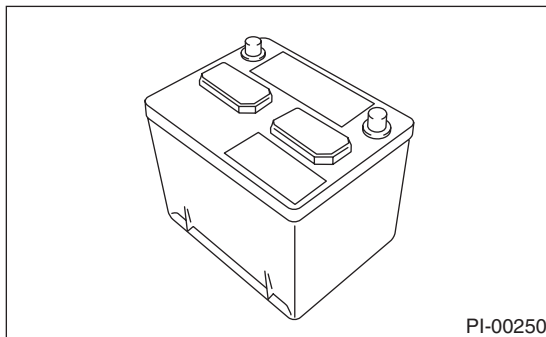
PRE-DELIVERY INSPECTION

Operate the lever (B) and check that the front hood is opened normally. Support the front hood with hood stay.



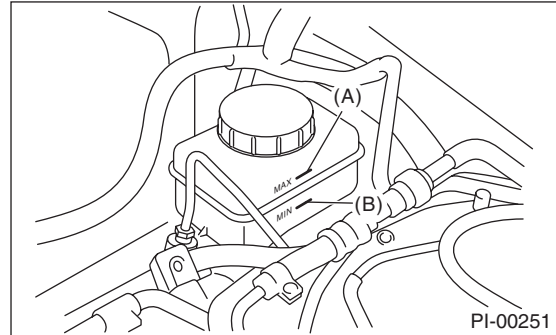
13.BATTERY

Check the battery terminals to make sure that there are no rust or corruptions due to fluid leaks.



14.BRAKE FLUID

Check that the brake fluid level is normal. 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.

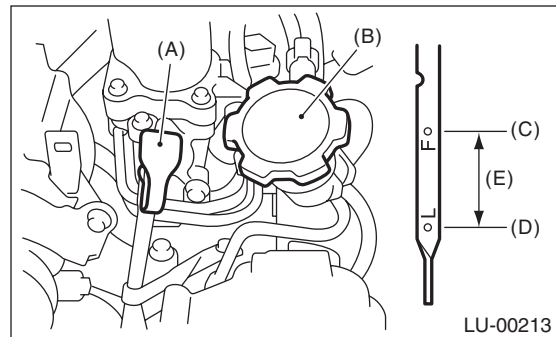


- (A) MAX. level
- (B) MIN. level

15.ENGINE OIL

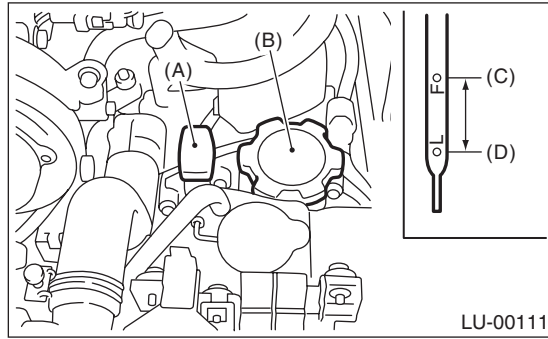
Check the engine oil amount. If the amount of oil is insufficient, check that no leaks are found. Then, add the necessary amount of the specified engine oil.

- Except for 3.0 L model



- (A) Oil level gauge
- (B) Engine oil filler cap
- (C) Upper level
- (D) Lower level
- (E) Approx. 1.0 L (1.1 US qt, 0.9 Imp qt)

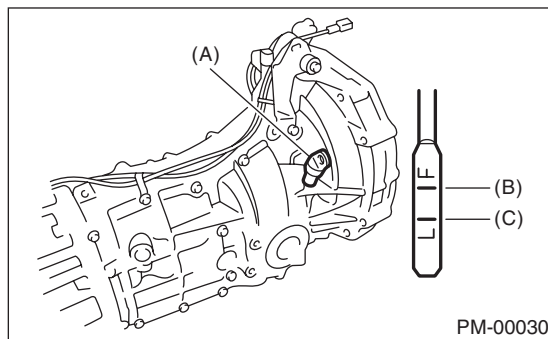
- 3.0 L model



- (A) Oil level gauge
- (B) Engine oil filler cap
- (C) Upper level
- (D) Lower level

16.TRANSMISSION GEAR OIL

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

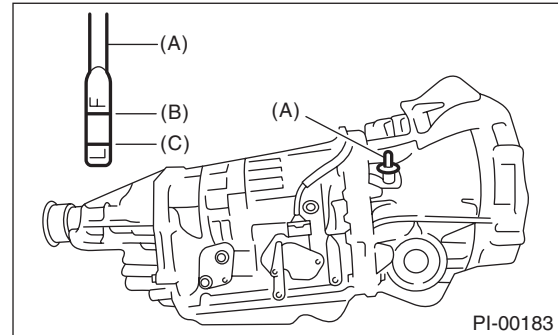


- (A) Oil level gauge
- (B) Upper level
- (C) Lower level

17.AT FRONT DIFFERENTIAL OIL

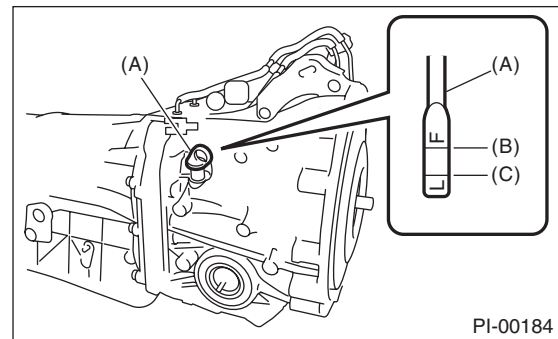
Check that the AT front differential oil level is normal. If the amount of oil is insufficient, check that no leaks are found. Then, add the necessary amount of the specified AT front differential oil.

- 4AT model



- (A) Oil level gauge
- (B) Upper level
- (C) Lower level

- 5AT model



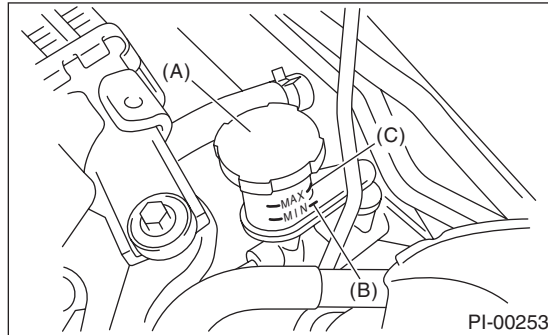
- (A) Oil level gauge
- (B) Upper level
- (C) Lower level

18.ENGINE COOLANT

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

19.CLUTCH FLUID

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



- (A) Reservoir tank
- (B) MIN. level
- (C) MAX. level

20.WINDOW WASHER FLUID

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

21.FRONT HOOD LATCH CHECK

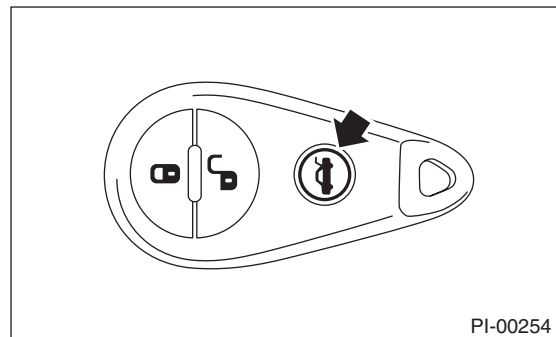
Retract the front hood stay and close the front hood. Check that the front hood is securely latched.

22.KEYLESS ENTRY SYSTEM

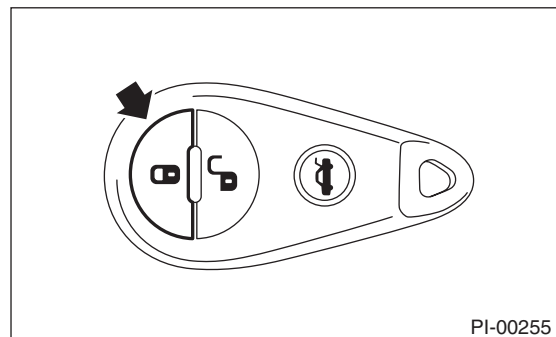
NOTE:

The following inspections show the initial settings. When the settings are different from the initial settings, use Subaru Select Monitor to check the details of each setting for inspections. <Ref. to LAN(diag)-27, OPERATION, Read Current Data.>

- 1) Fully open all the door windows.
- 2) Remove the key from the ignition switch and close all the doors including rear gate.
- 3) Press the rear gate and trunk open button for more than one second.
 - Check if the trunk is opened and the hazard light blinks twice and the buzzer sounds twice. (Sedan model)
 - Check if the rear gate is unlocked and the hazard light blinks twice and the buzzer sounds twice. (Wagon model)

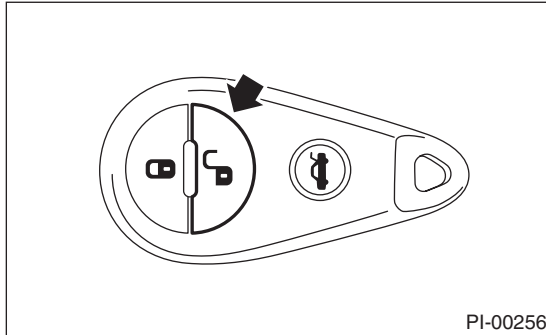


- 4) Press the "LOCK" button on the keyless transmitter with one of the doors (including the rear gate and trunk) opened. Check if all the doors are locked, hazard light blinks five times and the buzzer sounds five times and warning shows one of the doors (including the rear gate and trunk) open.
- 5) Close all the doors including rear gate and trunk. Press the "LOCK" button momentarily on the keyless transmitter. Check that all the doors (including rear gate and trunk) are locked, hazard light blinks once and buzzer sounds once.



6) Press the “UNLOCK” button momentarily on the keyless transmitter. Check that the driver’s door is unlocked and hazard light blinks twice and the buzzer sounds twice.

And press the “UNLOCK” button momentarily again in 5 seconds. Check that all the doors including rear gate are unlocked.



7) Within a distance of 10 m (33 ft) from a vehicle, press keyless transmitter’s “LOCK” button three times within 5 seconds. Check that the horn honks once and that the hazard light blinks three times.

8) Move the power door lock switch to the lock position with one of doors (including the rear gate) opened. Next, close all the doors including rear gate. Check if all the doors are locked and buzzer sounds once and the hazard light flashes once.

9) Check buzzer operation

The buzzer rings when the doors are locked or unlocked. The buzzer can be turned off if desired. Turn the buzzer off or on with following procedure.

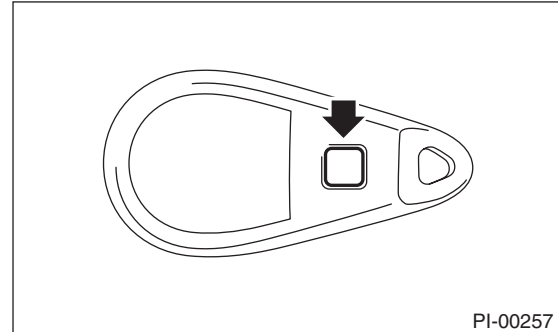
- (1) Close all the doors including rear gate, then remove the key from ignition key lock.
- (2) Press the power door lock switch to unlock and hold it until the operation is finished.
- (3) Insert the key into ignition key lock, and insert and remove the key in ignition key lock 5 times in 10 seconds.
- (4) When finished step (3), open and close the driver’s door once within 10 seconds.

NOTE:

When opening and closing of the door is not available within 10 seconds, hazard light blinks once and the change over operation is cancelled. Retry from the step (1).

- (5) Hazard light blinks 3 times and the buzzer sound turns ON or OFF.

10) Press the “Panic” button on the backside of the keyless transmitter. Check if the alarm condition happens (horn sounds continuously, hazard light blinks, security indicator comes on). Check whether this condition lasts until any button on the keyless transmitter is pressed or lasts for 30 seconds.

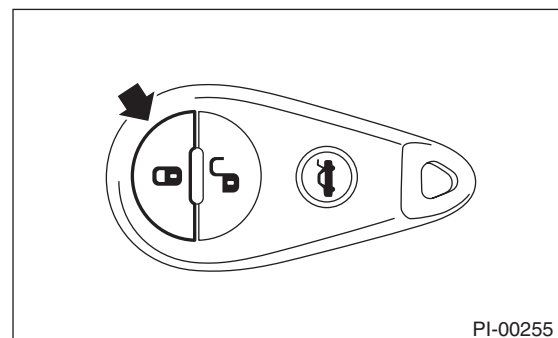


23.ALARM SYSTEM

NOTE:

The following inspections show the initial settings. When the settings are different from the initial settings, use Subaru Select Monitor to check the details of each setting for inspections. <Ref. to LAN(diag)-28, OPERATION, Function Setting (Customize).>

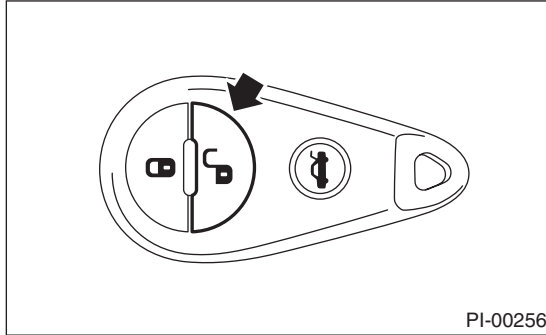
- 1) Fully open all the door windows.
- 2) Remove the key from the ignition switch and close all the doors including rear gate.
- 3) Press the “LOCK” button momentarily on the keyless transmitter. All doors are locked, and buzzer sound once, hazard blinks once, security indicator light blinks fast (five times per two seconds) for 30 seconds and goes slower (twice per two seconds), then the alarm system is in set condition.



Pre-delivery Inspection

PRE-DELIVERY INSPECTION

4) Press the “UNLOCK” button momentarily on the keyless transmitter. When the door of the driver’s seat is unlocked, the buzzer sounds twice, the hazard light flashes twice, the room light turns on and the security indicator light flashes once in three seconds, and the alarm system enters the release mode.



5) Close all the doors including rear gate. Press the “LOCK” button momentarily on the keyless transmitter. When all the doors are locked, buzzer sounds once, hazard blinks once and the alarm system is in set condition in 30 seconds.

6) Unlock a door using the inner lock knob and open the door while the security system is in the set mode. Check if the alarm condition happens (horn sounds continuously, hazard light blinks, security indicator comes on). Check if this condition lasts for a maximum of three minutes or until the “UNLOCK” button of the keyless transmitter is pressed.

NOTE:

The alarm condition will cease in 30 seconds once the door is closed.

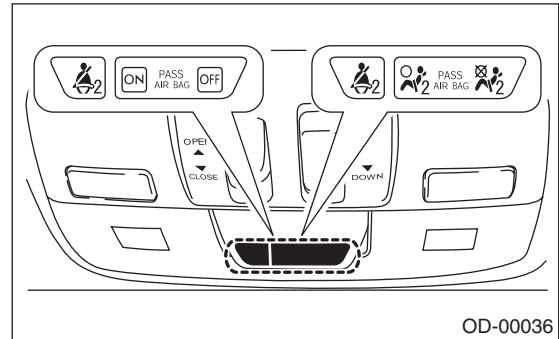
7) When none of above is applicable, check the troubleshooting of security system.

24.SEATS

- 1) Check the seat surfaces for stains or dirt.
- 2) 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 armrest.
- 3) Check the passenger’s seat occupant detection system.

(1) Turn the ignition switch to ON.

(2) Check that the ON and OFF of passenger’s airbag indicator light come on simultaneously for about 6 seconds and go off for 2 seconds, and then only OFF comes on again.



(3) With a person weighing approximately 70 kg (155 lb) or more sitting in the passenger’s seat, check whether the passenger’s airbag indicator light illuminates or not.

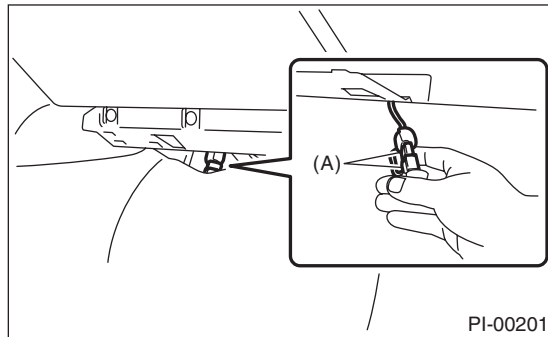
(4) Empty the passenger seat, then check whether the passenger side airbag indicator light turns off.

25.SEAT BELT

- 1) Check installation condition of seat belt.
- 2) Pull out the seat belt and then release it. Check that the belt retracts smoothly.
- 3) Check seat belt warning system
 - (1) Turn the ignition switch to ON without fastening driver’s and passenger’s seat belts.
 - (2) Check if the seat belt warning lights of driver’s and passenger’s side blink for about six seconds and the buzzer beeps intermittently.
 - (3) Then, check that the seat belt warning light comes on → blink → buzzer beeps in about 15 seconds cycles. (If the passengers seat is empty, seat belt warning light for passengers side does not operate.)

26. TEST MODE CONNECTOR

Turn the ignition switch to ON and check that the malfunction indicator light starts blinking. If the light blinks, return the ignition key to LOCK. Pull out the test mode connector from the back of glove box lower cover, and disconnect the test mode connector. Then, turn the ignition key to ON again. If the malfunction indicator light blinks at that time in spite of the disconnected test mode connector, carry out an engine diagnosis.



(A) Test mode connector (green)

27. IMMOBILIZER SYSTEM

- 1) Check that the engine starts with all keys that are equipped on vehicle.
- 2) 60 seconds after turning ignition switch from ON to ACC or OFF, or immediately after removing the key, check that the security indicator light blinking.

NOTE:

If malfunctions occur, refer to "IMMOBILIZER (DIAGNOSIS)".

28. STARTING CONDITION

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

29. EXHAUST SYSTEM

Listen to the exhaust noise to see if no noises are observed. Check for exhaust leaks.

30. INDICATOR AND WARNING LIGHTS

Check that all the indicator and warning lights are off.

31. CLOCK

Check the clock for normal operations and enough accuracy.

32. AUDIO

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

33. NAVIGATION SYSTEM

- 1) Check all display functions for normal operation.
- 2) Check the map disc (DVD) are provided on vehicle.
- 3) Check that the navigation system operates normally.

34. FRONT ACCESSORY POWER SUPPLY SOCKET

- 1) Check the operation of the front accessory power socket.
- 2) Check operation of the accessory power socket in console box.

35. LIGHTING SYSTEM

- 1) Check the headlight operations.
- 2) Check the stop light operation.
- 3) Check other lights for normal operations.

36. WIPER DEICER

Check that the wiper deicer operates normally.

37. ILLUMINATION CONTROL

Check that the illumination control operates normally.

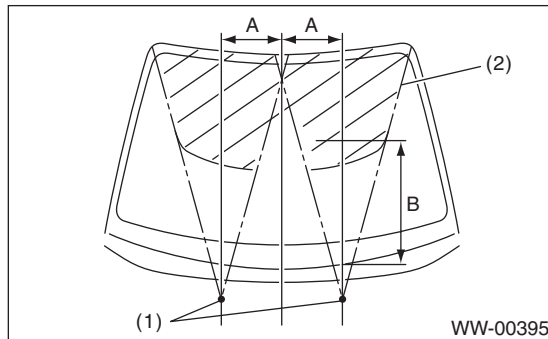
38.WINDOW WASHER

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

Front injection position:

A: 250 mm (9.84 in)

B: 535 mm (21.1 in)



(1) Nozzle

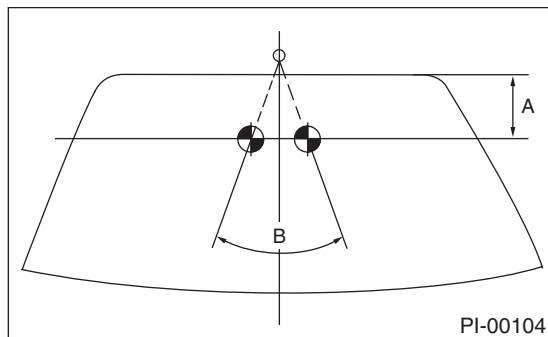
(2) Spray area (shaded area)

Rear injection position:

WAGON MODEL

A: 70 mm (2.8 in)

B: 70°



39.WIPER

Check the front and rear wipers for normal operations.

40.POWER WINDOW OPERATION CHECK

Operate the power window switches one by one to check that each of the power windows goes up and down without noises.

41.SUNROOF

Check that the sunroof operates normally.

42.DOOR MIRROR

Check that the remote control mirror operates normally.

43.BRAKE TEST

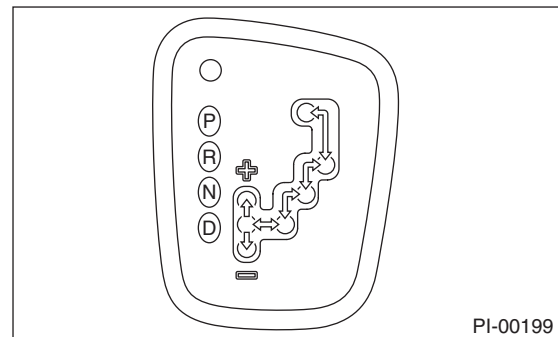
Check the foot brake for normal operations.

44.PARKING BRAKE

Check the parking brake for normal operations. When pulling the parking brake lever with force of 200 N (20.4 kgf, 45.0 lb), check that the lever stroke of parking brake lever is 5 to 6 notches.

45.AT SHIFT CONTROL

- 1) Turn the ignition switch to ON.
- 2) While brake pedal is not depressed, check if the select lever does not move from "P" range.
- 3) While brake pedal is depressed, check if the select lever moves from "P" range.
- 4) Set the select lever to other than "P" range.
- 5) When the ignition switch is turned to OFF, check if the ignition key switch cannot be removed.
- 6) Set the AT selector lever to each gear position and check the shifting while driving the vehicle.



• 4AT

Selector Position	Gear position			
	1st	2nd	3rd	4th
D	OK	OK	OK	OK
SPORT shift	OK	OK	OK	OK

• 5AT

Selector Position	Gear position				
	1st	2nd	3rd	4th	5th
D	OK	OK	OK	OK	OK
SPORT shift	OK	OK	OK	OK	OK

46.HEATER AND VENTILATION

Operate the heater and ventilation system to check for normal airflow outlet control, air inlet control, airflow capacity and heating performance.

47.AIR CONDITIONER

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

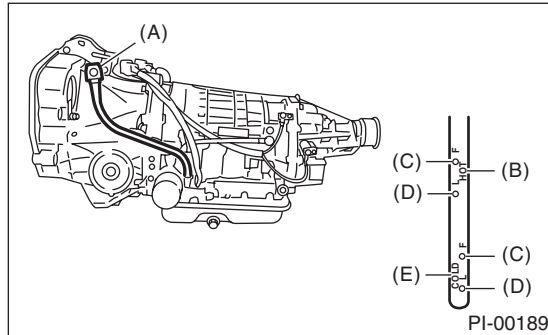
48.CRUISE CONTROL

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

49.ATF LEVEL

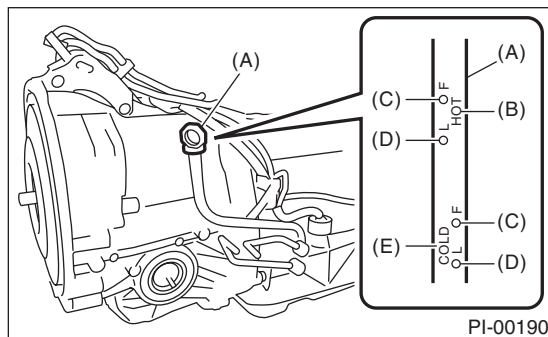
After selecting all positions (P, R, N, D), set the select lever in "P" range. Idle the engine for 1-2 minutes, and measure the ATF level. If the amount is insufficient, check that no leaks are found. Then, add the necessary amount of the specified ATF.

• 4AT



- (A) Level gauge
- (B) ATF level range at "HOT" [70 — 80°C (158 — 176°F)]
- (C) Upper level
- (D) Lower level
- (E) ATF level range at "COLD" [20 — 30°C (68 — 86°F)]

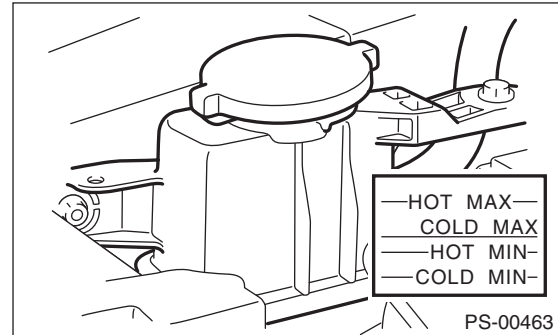
• 5AT



- (A) Level gauge
- (B) ATF level range at "HOT" [70 — 80°C (158 — 176°F)]
- (C) Upper level
- (D) Lower level
- (E) ATF level range at "COLD" [20 — 30°C (68 — 86°F)]

50.POWER STEERING FLUID LEVEL

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



51.FLUID LEAK CHECK

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

52.WATER LEAK TEST

Spray the vehicle with water using a hose 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 the windows and doors securely. Close the hood and trunk lid before starting the test.
- Spray the vehicle with water using a hose. The rate of water spray must be approx. 20 — 25 ̢ (5.3 — 6.6 US gal, 4.4 — 5.5 Imp gal) per minute.

When spraying water on areas adjacent to the floor and wheel house, increase the pressure. When spraying water on areas other than the floor 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) away from 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 the areas that may have possibly contributed to the leak.

53. APPEARANCE CHECK 2

1) When vehicle body is covered with protective film, peel it off.

NOTE:

- Use of steam facilitates peeling off the wrap guard.
- For a vehicle left for a long time or at low temperature, sprinkle some water heated to 50 — 60°C (122 — 140°F) over the vehicle to raise its surface temperature before peeling off the wrap guard. Do not use the water heated to over 60°C (140°F).
- If the adhesive remains exist on the coated surface, soak a flannel rag, etc. with a small amount of coating wax or solvent such as oil benzene and IPA, put the soaked cloth on the remains lightly, and then wipe them off with a flannel rag etc.
- Keep solvent from touching the resin or rubber parts. Do not use coating wax or solvent while the component surface temperature is high due to hot weather etc.
- If the coated surface is swollen out due to seams or moisture, expose the vehicle to the sunlight for a few hours or heat the seam and swollen portions using a dryer etc.
- Dispose of the peeled wrap guard as burnable industrial garbage.

2) Check the whole vehicle body for flaking paint, damage by transportation, corrosion, dirt, cracks or blisters.

NOTE:

- It is better to determine an inspection pattern in order to avoid missing an area, since the total inspection area is wide.
- Do not repair the body paint unless absolutely necessary. Also, if the vehicle is in need of repair to remove scratches or corroded paint, the repair area must be limited to the minimum. Re-painting and spray painting must be avoided as possible.

3) Check each window glass for scratches carefully. Slight damage may be removed by polishing with cerium oxide. (Fill a cup half with cerium oxide, and add warm water to it. Then agitate the content until it turns to wax. Apply this wax to a soft cloth, and polish the glass with it.)

4) Check each portion of the vehicle body and underside components for the formation of rust. If rust is discovered, remove it with sandpaper of #80 to #180 and treat the surface with rust preventive. After this treatment is completed, flush the portion thoroughly, and prepare the surface for repair painting.

5) Check each portion of body and all of the plated parts for deformation or distortion. Also, check each light lens for cracks.

6) Peel the protective tape, vinyl wrapping and identification seal attached to the following places.

- Seats
- Door trim
- Floor carpet
- Side sill
- Front hood lock release lever
- Edge rear
- Rear wiper
- Sedan rear combination light (Trunk lid opening portion)
- Roof rail
- Door mirror

PERIODIC MAINTENANCE SERVICES

PM

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