SUBARU

LEGACY

2004 Model Year

PDF Service Manual

GENERAL INFORMATION SECTION (Pub.No.G2320GE1)

ENGINE SECTION 1 (Pub.No.G2320GE2)

ENGINE SECTION 2 (Pub.No.G2320GE3)

ENGINE SECTION 3 (Pub.No.G2320GE4)

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GENERAL INFORMATION SECTION

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This service manual has been prepared to provide SUBARU service personnel with the necessary information and data for the correct maintenance and repair of SUBARU vehicles.
This manual includes the procedures for maintenance, disassembling, reassembling, inspection and adjustment of components and diagnostics for guidance of experienced mechanics.
Please peruse and utilize this manual fully to ensure complete repair work for satisfying our customers by keeping their vehicle in optimum condition. When replacement of parts during repair work is needed, be sure to use SUBARU genuine parts.

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

FOREWORD

FW

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1. Foreword

A: FOREWORD

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

Applied model:
BL*****, BP***** from 2004MY

The manuals contain the latest information at the time of publication. Changes in 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

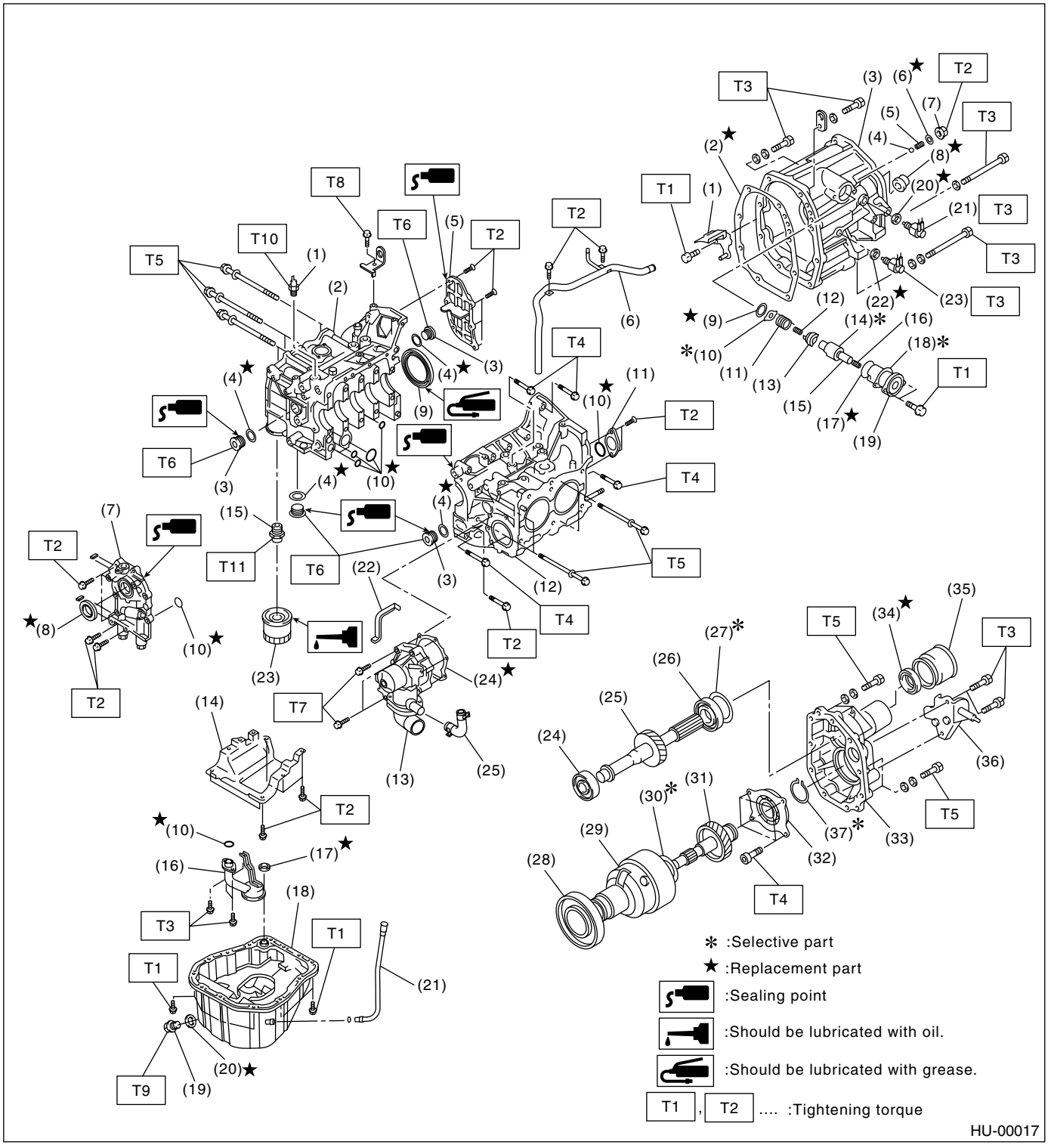
Each section consists of SCT that are broken down into SC that are divided into sections for each component. The specification, maintenance and other information for the components are included, and the diagnostic information has also been added where necessary.

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.
To order parts, refer to parts catalogue.
Example:



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 Single-Range (A)

A: REMOVAL (B)

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

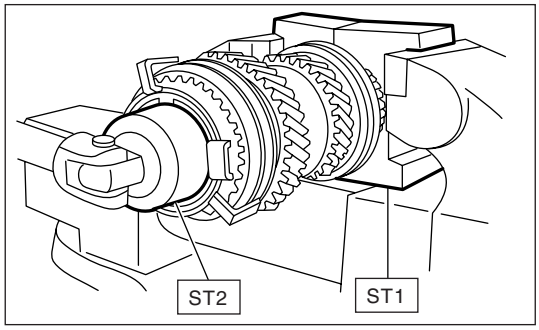
---

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

NOTE: (D)
Secure the lock nuts in two Places affer tightening.

ST2 499987003 SOCKET WRENCH
ST1 498937000 (E) TRANSMISSION HOLDER (F)

Tightening torque:
118 N·m (12.0 kgf-m, 86.8 ft-lb) (G)



(H)

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 ( ).

9. EXPLANATION OF TERMINOLOGY

- **List**

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

SPECIFICATIONS

SPC

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1. LEGACY.....2

1. LEGACY

A: DIMENSION

1. SEDAN MODEL

Model			2.0 L SOHC	2.0 L DOHC turbo	2.5 L SOHC	3.0 L DOHC
Overall length		mm (in)	4,665 (183.7)			
Overall width		mm (in)	1,730 (68.1)			
Overall height (at C.W.)		mm (in)	1,425 (56.1)			
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)	1,490 (58.7)			
Minimum road clearance		mm (in)	150 (5.9)			

★1: With sunroof

2. WAGON MODEL

Model			2.0 L SOHC	2.0 L DOHC turbo	2.5 L SOHC	3.0 L DOHC
Overall length		mm (in)	4,720 (185.8)			
Overall width		mm (in)	1,730 (68.1)			
Overall height (at C.W.)		mm (in)	1,470 (57.9)			
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)	150 (5.9)	

★1: With sunroof

3. OUTBACK MODEL

Model			2.0 L SOHC	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)	1,545 (60.8)	
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)	200 (7.9)	

★1: With sunroof

B: ENGINE

Model		2.0 L SOHC	2.0 L DOHC turbo	2.5 L SOHC	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)	92 × 75 (3.62 × 2.95)		99.5 × 79.0 (3.917 × 3.110)	89.2 × 80.0 (3.512 × 3.150)
Displacement	cm^3 (cu in)	1,994 (121.67)		2,457 (149.9)	3,000 (183.06)
Compression ratio		10.0	9.5	10.0	10.7
Ignition order		1 — 3 — 2 — 4			1 — 6 — 3 — 2 — 5 — 4
Idle speed at Park or Neutral position	rpm	650	650	650	650
Maximum output	kW (PS)/rpm	101 (137)/5,600	180 (245)/6,400	121 (165)/5,600	180 (245)/6,600
Maximum torque	N·m (kgf-m, ft-lb)/rpm	187 (19.1, 137.9)/4,400	310 (31.6, 228.6)/2,400	226 (23.0, 166.7)/4,400	297 (30.3, 219.1)/4,200

C: ELECTRICAL

Model				2.0 L SOHC	2.0 L DOHC turbo	2.5 L SOHC	3.0 L DOHC
Ignition timing (at idling)			BTDC	13°	14°	13°	15°
Spark plug	Type and manufacturer			CHAMPION: RC10YC4	NGK:ILFR6B	CHAMPION: RC10YC4 NGK: PFR5B-11★1	NGK:ILFR6B
Generator				12V — 110A			
Battery	Type and capacity (5HR)	EC, EK, K4	MT	12V — 48AH (55D23L)	—	12V — 48AH (55D23L)	—
			AT	12V — 52AH (65D23L)	—	12V — 52AH (75D23L)	12V — 52AH (75D23L)
		KA		—	12V — 48AH (55D23L)	12V — 27AH (34B19L)	12V — 48AH (55D23L)
		KS		12V — 27AH (34B19L)	—		

★1: EC, EK model

D: TRANSMISSION

Model			SEDAN, WAGON					
			2.0 L SOHC		2.0 L DOHC turbo	2.5 L SOHC		3.0 L DOHC
Transmission type			4AT	5MT	5AT	4AT	5MT	5AT
Clutch type			TCC	DSPD	TCC	TCC	DSPD	TCC
Gear ratio		1st	2.785	3.454	3.540	2.785	3.454	3.540
		2nd	1.545	1.947	2.264	1.545	2.062	2.264
		3rd	1.000	1.366	1.471	1.000	1.448	1.471
		4th	0.694	0.972	1.000	0.694	1.088	1.000
		5th	—	0.738	0.834	—	0.825, 0.780★1	0.834
		Rev.	2.272	3.333	2.370	2.272	3.333	2.370
Auxiliary transmission gear ratio★2		High	—	1,000	—	—	1,000	—
		Low	—	1,447	—	—	1,196	—
Reduction gear (Front)	1st reduction	Type of gear	Helical	—	Helical	Helical	—	Helical
		Gear ratio	1.000	—	1.000	1.000	—	1.000
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid	Hypoid	Hypoid	Hypoid
		Gear ratio	4.111	4.111	3.272	4.111	3.700, 4.111★1	3.083
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	Hypoid	Hypoid
		Gear ratio	4.111	4.111	3.272	4.111	3.700, 4.111★1	3.083

Model			OUTBACK		
			2.5 L SOHC		3.0 L DOHC
Transmission type			4AT	5MT	5AT
Clutch type			TCC	DSPD	TCC
Gear ratio		1st	2.785	3.454	3.540
		2nd	1.545	2.062	2.264
		3rd	1.000	1.448	1.471
		4th	0.694	1.088	1.000
		5th	—	0.825	0.834
		Rev.	2.272	3.333	2.370
Auxiliary transmission gear ratio★2		High	—	1,000	—
		Low	—	1,196	—
Reduction gear (Front)	1st reduction	Type of gear	Helical	—	Helical
		Gear ratio	1.000	—	1.000
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid
		Gear ratio	4.444	3.900, 4.111★1	3.272
Reduction gear (Rear)	Transfer reduction	Type of gear	—	Helical	—
		Gear ratio	—	1.000	—
	Final reduction	Type of gear	Hypoid	Hypoid	Hypoid
		Gear ratio	4.444	3.900, 4.111★1	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
★1: KA, K4 model
★2: Dual range model only

E: STEERING

Model			SEDAN, WAGON			
			2.0 L SOHC	2.0 L DOHC turbo	2.5 L SOHC	3.0 L DOHC
Type			Rack and Pinion			
Turns, lock to lock			3.2	2.8	3.2	2.8
Minimum turning diameter	m (ft)	Center of tire width to center of tire width	10.8 (35.4)			
		Wall to wall	11.6 (38.1)			

Model			OUTBACK	
			2.5 L SOHC	3.0 L DOHC
Type			Rack and Pinion	
Turns, lock to lock			3.2	
Minimum turning diameter	m (ft)	Center of tire width to center of tire width	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 2.0 L DOHC turbo	2.0 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	SEDAN, WAGON				OUTBACK	
	2.0 L SOHC	2.0 L DOHC turbo	2.5 L SOHC	3.0 L DOHC	2.5 L SOHC	3.0 L DOHC
Wheel size	16 × 6 $^{1}/_{2}$JJ	17 × 7JJ	16 × 6 $^{1}/_{2}$JJ 17 × 7JJ	17 × 7JJ	16 × 6 $^{1}/_{2}$JJ	17 × 7JJ
Tire size	205/55 R16 89V	215/45 R17 87W	205/55 R16 89V 215/45 R17 87W	215/45 R17 87W	215/60 R16 95V 215/60 R16 95H★1	215/55 R17 94V 215/55 R17 93H★1
Type	Steel belted radial, Tubeless					

★1: KA model

I: CAPACITY

Model			2.0 L SOHC				2.0 L DOHC turbo
			4AT		5MT		5AT
			LHD	RHD	LHD	RHD	
Fuel tank		ℓ (US gal, Imp gal)	64 (16.9, 14.1)				
Engine oil	Capacity (at overhaul)	ℓ (US qt, Imp qt)	4.5 (4.8, 4.0)				5.0 (5.3, 4.4)
	Filling amount of engine oil (at replace)	ℓ (US qt, Imp qt)	4.0 (4.2, 3.5)				
Transmission gear oil		ℓ (US qt, Imp qt)	—		3.5 (3.7, 3.1) 4.0 (4.2, 3.5)★2		—
ATF		ℓ (US qt, Imp qt)	8.4 (8.9, 7.4)		—		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)	0.8 (0.8, 0.7)				
Engine coolant		ℓ (US qt, Imp qt)	6.3 (6.7, 5.5) 6.7 (7.1, 5.9)★1	6.4 (6.8, 5.6) 6.8 (7.2, 6.0)★1	6.4 (6.8, 5.6)	6.5 (6.9, 5.7)	7.3 (7.7, 6.4)

Model			2.5 L SOHC				3.0 L DOHC	
			4AT		5MT		5AT	
			LHD	RHD	LHD	RHD	LHD	RHD
Fuel tank		ℓ (US gal, Imp gal)	64 (16.9, 14.1)					
Engine oil	Capacity (at overhaul)	ℓ (US qt, Imp qt)	4.5 (4.8, 4.0)				7.2 (7.6, 6.3)	
	Filling amount of engine oil (at replace)	ℓ (US qt, Imp qt)	4.0 (4.2, 3.5)				Approx. 5.5 (5.8, 4.8)	
Transmission gear oil		ℓ (US qt, Imp qt)	—		3.5 (3.7, 3.1) 4.0 (4.2, 3.5)★2		—	
ATF		ℓ (US qt, Imp qt)	9.3 (9.8, 8.2)		—		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)	0.8 (0.8, 0.7)					
Engine coolant		ℓ (US qt, Imp qt)	6.3 (6.7, 5.5) 6.7 (7.1, 5.9)★1	6.4 (6.8, 5.6) 6.8 (7.2, 6.0)★1	6.4 (6.8, 5.6)	6.5 (6.9, 5.7)	7.2 (7.6, 6.3) 7.7 (8.1, 6.7)★1	7.8 (8.2, 6.9)★1

★1: With ATF cooler (with warmer function)
★2: Dual range model only

J: WEIGHT

1. SEDAN MODEL

- LHD model

Option code★1			EC					
Model			2.0 L SOHC					
			AWD					
			2.0 i					
			5MT (Single range)					
Curb weight (C.W.)	Front	kgf (lb)	740 (1,631)	755 (1,664)	760 (1,676)	760 (1,676)	765 (1,686)	775 (1,709)
	Rear	kgf (lb)	590 (1,301)	590 (1,301)	590 (1,301)	590 (1,301)	605 (1,334)	615 (1,356)
	Total	kgf (lb)	1,330 (2,932)	1,345 (2,965)	1,350 (2,976)	1,350 (2,976)	1,370 (3,020)	1,390 (3,064)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		—	—	—	❍	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	—	—	—	—	—
	Winter pack		—	—	—	❍	❍	❍
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	—	—	—	—	❍
	A/C		—	❍	❍	❍	❍	❍
	Side airbag		❍	❍	❍	❍	❍	❍
	Curtain airbag		—	—	—	—	❍	❍
	Sunroof		—	—	—	—	❍	❍
	Navigation system		—	—	❍	—	—	❍
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			EC					
Model			2.0 L SOHC					
			AWD					
			2.0 i					
			4AT					
Curb weight (C.W.)	Front	kgf (lb)	760 (1,676)	775 (1,709)	780 (1,720)	780 (1,720)	785 (1,731)	795 (1,753)
	Rear	kgf (lb)	590 (1,301)	590 (1,301)	590 (1,301)	590 (1,301)	605 (1,334)	615 (1,356)
	Total	kgf (lb)	1,350 (2,976)	1,365 (3,009)	1,370 (3,020)	1,370 (3,020)	1,390 (3,064)	1,410 (3,109)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		—	—	—	❍	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	—	—	—	—	—
	Winter pack		—	—	—	❍	❍	❍
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	—	—	—	—	❍
	A/C		—	❍	❍	❍	❍	❍
	Side airbag		❍	❍	❍	❍	❍	❍
	Curtain airbag		—	—	—	—	❍	❍
	Sunroof		—	—	—	—	❍	❍
	Navigation system		—	—	❍	—	—	❍
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			EC					
Model			2.5 L SOHC					
			AWD					
			2.5 i					
			5MT (Single range)					
Curb weight (C.W.)	Front	kgf (lb)	760 (1,676)	770 (1,698)	765 (1,686)	770 (1,698)	765 (1,686)	775 (1,709)
	Rear	kgf (lb)	600 (1,323)	605 (1,334)	600 (1,323)	605 (1,334)	605 (1,334)	610 (1,345)
	Total	kgf (lb)	1,360 (2,998)	1,375 (3,031)	1,365 (3,009)	1,375 (3,031)	1,370 (3,020)	1,385 (3,053)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		❍	❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	—	—	—	❍	❍
	Winter pack		—	—	—	—	❍	❍
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	❍	—	❍	—	❍
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		❍	❍	❍	❍	❍	❍
	Curtain airbag		—	—	—	—	—	—
	Sunroof		—	—	—	—	—	—
	Navigation system		—	—	❍	❍	❍	❍
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			EC					
Model			2.5 L SOHC					
			AWD					
			2.5 i					
			5MT (Single range)			4AT		
Curb weight (C.W.)	Front	kgf (lb)	775 (1,709)	780 (1,720)	785 (1,731)	780 (1,720)	790 (1,742)	785 (1,731)
	Rear	kgf (lb)	615 (1,356)	625 (1,378)	625 (1,378)	600 (1,323)	605 (1,334)	600 (1,323)
	Total	kgf (lb)	1,390 (3,064)	1,405 (3,097)	1,410 (3,109)	1,380 (3,042)	1,395 (3,075)	1,385 (3,053)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		❍	❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		❍	❍	❍	—	—	—
	Winter pack		❍	❍	❍	—	—	—
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	❍	❍	—	❍	—
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		❍	❍	❍	❍	❍	❍
	Curtain airbag		❍	❍	❍	—	—	—
	Sunroof		❍	❍	❍	—	—	—
	Navigation system		—	—	❍	—	—	❍
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			EC					
Model			2.5 L SOHC					
			AWD					
			2.5 i					
			4AT					
Curb weight (C.W.)	Front	kgf (lb)	790 (1,742)	785 (1,731)	795 (1,753)	800 (1,764)	805 (1,774)	805 (1,774)
	Rear	kgf (lb)	605 (1,334)	605 (1,334)	610 (1,345)	615 (1,356)	625 (1,378)	625 (1,378)
	Total	kgf (lb)	1,395 (3,075)	1,390 (3,064)	1,405 (3,097)	1,415 (3,120)	1,430 (3,153)	1,430 (3,153)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)
Option	Vehicle Dynamics Control		—	—	—	❍	❍	❍
	Cruise control		❍	❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	❍	❍	❍	❍	❍
	Winter pack		—	❍	❍	❍	❍	❍
	15 inch tire		—	—	—	—	—	—
	17 inch tire		❍	—	❍	—	❍	❍
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		❍	❍	❍	❍	❍	❍
	Curtain airbag		—	—	—	❍	❍	❍
	Sunroof		—	—	—	❍	❍	❍
	Navigation system		❍	❍	❍	—	—	❍
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			EC			
Model			3.0 L DOHC			
			AWD			
			3.0 R, 3.0 R-A			
			5AT			
Curb weight (C.W.)	Front	kgf (lb)	875 (1,929)	880 (1,940)	890 (1,962)	890 (1,962)
	Rear	kgf (lb)	625 (1,378)	630 (1,389)	635 (1,400)	635 (1,400)
	Total	kgf (lb)	1,495 (3,296)	1,510 (3,329)	1,525 (3,362)	1,525 (3,362)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	2,030 (4,475)	2,030 (4,475)	2,030 (4,475)	2,030 (4,475)
Option	Vehicle Dynamics Control		—	❍	❍	❍
	Cruise control		❍	❍	❍	❍
	McIntosh audio		—	—	—	—
	Leather interior		❍	❍	❍	❍
	Winter pack		❍	❍	❍	❍
	15 inch tire		—	—	—	—
	17 inch tire		—	—	—	—
	A/C		❍	❍	❍	❍
	Side airbag		❍	❍	❍	❍
	Curtain airbag		—	—	❍	❍
	Sunroof		—	—	❍	❍
	Navigation system		—	—	—	❍
	Self levelizer		—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			K4			KS		K4
Model			2.0 L SOHC					
			AWD					
			2.0 i					
			5MT (Single range)					4AT
Curb weight (C.W.)	Front	kgf (lb)	750 (1,653)	740 (1,631)	755 (1,664)	750 (1,653)	760 (1,676)	770 (1,698)
	Rear	kgf (lb)	590 (1,301)	590 (1,301)	590 (1,301)	590 (1,301)	600 (1,323)	590 (1,301)
	Total	kgf (lb)	1,340 (2,954)	1,330 (2,932)	1,345 (2,965)	1,340 (2,954)	1,360 (2,998)	1,360 (2,998)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		—	—	❍	—	—	—
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	—	—	—	—	—
	Winter pack		—	—	—	—	—	—
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	—	—	—	—	—
	A/C		❍	—	❍	❍	❍	❍
	Side airbag		—	—	❍	—	—	—
	Curtain airbag		—	—	—	—	—	—
	Sunroof		—	—	—	—	❍	—
	Navigation system		—	—	—	—	—	—
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			K4	KS		K4		KS
Model			2.0 L SOHC			2.5 L SOHC		
			AWD					
			2.0 i			2.5 i		
			4AT			5MT (Single range)		
Curb weight (C.W.)	Front	kgf (lb)	775 (1,709)	770 (1,698)	780 (1,720)	770 (1,698)	775 (1,709)	760 (1,676)
	Rear	kgf (lb)	590 (1,301)	590 (1,301)	595 (1,312)	610 (1,345)	620 (1,367)	595 (1,312)
	Total	kgf (lb)	1,365 (3,009)	1,360 (2,998)	1,375 (3,031)	1,380 (3,042)	1,395 (3,075)	1,355 (2,987)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,930 (4,255)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		❍	—	—	❍	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	—	—	—	—	—
	Winter pack		—	—	—	—	—	—
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	—	—	—	❍	—
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		❍	—	—	❍	❍	—
	Curtain airbag		—	—	—	❍	❍	—
	Sunroof		—	—	❍	❍	❍	—
	Navigation system		—	—	—	—	—	—
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			KS		K4			
Model			2.5 L SOHC		2.5 L SOHC			
			AWD					
			2.5 i					
			5MT (Single range)		4AT			
Curb weight (C.W.)	Front	kgf (lb)	770 (1,698)	770 (1,698)	790 (1,742)	795 (1,753)	795 (1,753)	800 (1,764)
	Rear	kgf (lb)	605 (1,334)	610 (1,345)	610 (1,345)	620 (1,367)	615 (1,356)	625 (1,378)
	Total	kgf (lb)	1,375 (3,031)	1,380 (3,042)	1,400 (3,086)	1,415 (3,120)	1,410 (3,109)	1,425 (3,142)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,930 (4,255)	1,930 (4,255)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)
Option	Vehicle Dynamics Control		—	—	❍	❍	—	—
	Cruise control		❍	❍	—	—	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	❍	—	—	❍	❍
	Winter pack		—	—	—	—	—	—
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	—	—	❍	—	❍
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		—	—	❍	❍	❍	❍
	Curtain airbag		—	—	❍	❍	❍	❍
	Sunroof		❍	❍	❍	❍	❍	❍
	Navigation system		—	—	—	—	—	—
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			KS			K4	
Model			2.5 L SOHC			3.0 L DOHC	
			AWD				
			2.5 i			3.0 R, 3.0 R-A	
			4AT			5AT	
Curb weight (C.W.)	Front	kgf (lb)	780 (1,720)	790 (1,742)	790 (1,742)	890 (1,962)	880 (1,940)
	Rear	kgf (lb)	595 (1,312)	605 (1,334)	610 (1,345)	635 (1,400)	635 (1,400)
	Total	kgf (lb)	1,375 (3,031)	1,395 (3,075)	1,400 (3,086)	1,525 (3,362)	1,515 (3,340)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	2,030 (4,475)	2,030 (4,475)
Option	Vehicle Dynamics Control		—	—	—	❍	—
	Cruise control		❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	—
	Leather interior		—	—	❍	❍	❍
	Winter pack		—	—	—	—	—
	15 inch tire		—	—	—	—	—
	17 inch tire		—	—	—	—	—
	A/C		❍	❍	❍	❍	❍
	Side airbag		—	—	—	❍	❍
	Curtain airbag		—	—	—	❍	❍
	Sunroof		—	❍	❍	❍	❍
	Navigation system		—	—	—	—	—
	Self levelizer		—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

• RHD model

Option code★1			EK					
Model			2.0 L SOHC					
			AWD					
			2.0 i					
			5MT (Single range)				4AT	
Curb weight (C.W.)	Front	kgf (lb)	755 (1,664)	760 (1,676)	770 (1,698)	775 (1,709)	775 (1,709)	780 (1,720)
	Rear	kgf (lb)	590 (1,301)	590 (1,301)	605 (1,334)	610 (1,345)	590 (1,301)	590 (1,301)
	Total	kgf (lb)	1,345 (2,965)	1,350 (2,976)	1,375 (3,031)	1,385 (3,053)	1,365 (3,009)	1,370 (3,020)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		—	—	—	—	—	—
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	—	—	—	—	—
	Winter pack		—	—	—	—	—	—
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	—	—	❍	—	—
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		—	❍	❍	❍	—	❍
	Curtain airbag		—	—	❍	❍	—	—
	Sunroof		—	—	❍	❍	—	—
	Navigation system		—	—	—	—	—	—
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			EK					
Model			2.0 L SOHC		2.5 L SOHC			
			AWD					
			2.0 i		2.5 i			
			4AT		5MT (Single range)			
Curb weight (C.W.)	Front	kgf (lb)	790 (1,742)	795 (1,753)	760 (1,676)	765 (1,686)	770 (1,698)	775 (1,709)
	Rear	kgf (lb)	605 (1,334)	610 (1,345)	600 (1,323)	600 (1,323)	605 (1,334)	620 (1,367)
	Total	kgf (lb)	1,395 (3,075)	1,405 (3,097)	1,360 (2,998)	1,365 (3,009)	1,375 (3,031)	1,395 (3,075)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,900 (4,189)	1,900 (4,189)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		—	—	—	—	—	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	—	—	—	—	❍
	Winter pack		—	—	—	—	—	❍
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	❍	—	—	❍	—
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		❍	❍	—	❍	❍	❍
	Curtain airbag		❍	❍	—	—	—	❍
	Sunroof		❍	❍	—	—	—	❍
	Navigation system		—	—	—	—	—	—
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			EK					
Model			2.5 L SOHC					
			AWD					
			2.5 i					
			5MT (Single range)		4AT			
Curb weight (C.W.)	Front	kgf (lb)	785 (1,731)	785 (1,731)	780 (1,720)	785 (1,731)	790 (1,742)	805 (1,774)
	Rear	kgf (lb)	625 (1,378)	625 (1,378)	600 (1,323)	600 (1,323)	610 (1,345)	615 (1,356)
	Total	kgf (lb)	1,410 (3,109)	1,410 (3,109)	1,380 (3,042)	1,385 (3,053)	1,400 (3,086)	1,420 (3,131)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)
Option	Vehicle Dynamics Control		—	—	—	—	—	❍
	Cruise control		❍	❍	—	—	—	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		❍	❍	—	—	—	❍
	Winter pack		❍	❍	—	—	—	❍
	15 inch tire		—	—	—	—	—	—
	17 inch tire		❍	❍	—	—	❍	—
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		❍	❍	—	❍	❍	❍
	Curtain airbag		❍	❍	—	—	—	❍
	Sunroof		❍	❍	—	—	—	❍
	Navigation system		—	❍	—	—	—	—
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			EK				
Model			2.5 L SOHC			3.0 L DOHC	
			AWD				
			2.5 i			3.0 R, 3.0 R-A	
			4AT			5AT	
Curb weight (C.W.)	Front	kgf (lb)	810 (1,785)	805 (1,774)	810 (1,785)	890 (1,962)	890 (1,962)
	Rear	kgf (lb)	620 (1,367)	620 (1,367)	620 (1,367)	635 (1,400)	635 (1,400)
	Total	kgf (lb)	1,430 (3,153)	1,425 (3,142)	1,430 (3,153)	1,525 (3,362)	1,525 (3,362)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	2,030 (4,475)	2,030 (4,475)
Option	Vehicle Dynamics Control		❍	❍	❍	❍	❍
	Cruise control		❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	—
	Leather interior		❍	❍	❍	❍	❍
	Winter pack		❍	❍	❍	❍	❍
	15 inch tire		—	—	—	—	—
	17 inch tire		❍	—	❍	—	—
	A/C		❍	❍	❍	❍	❍
	Side airbag		❍	❍	❍	❍	❍
	Curtain airbag		❍	❍	❍	❍	❍
	Sunroof		❍	❍	❍	❍	❍
	Navigation system		—	❍	❍	—	❍
	Self levelizer		—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			KA					
Model			2.0 L SOHC					
			AWD					
			2.0 i					
			5MT (Single range)				4AT	
Curb weight (C.W.)	Front	kgf (lb)	755 (1,664)	760 (1,676)	765 (1,687)	780 (1,720)	775 (1,709)	780 (1,720)
	Rear	kgf (lb)	590 (1,301)	590 (1,301)	595 (1,312)	610 (1,345)	590 (1,301)	590 (1,301)
	Total	kgf (lb)	1,340 (2,954)	1,350 (2,976)	1,360 (2,998)	1,390 (3,064)	1,365 (3,009)	1,370 (3,020)
Unladen mass (U.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Gross vehicle mass (G.V.M.)	Total	kgf (lb)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)	1,900 (4,189)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		—	❍	❍	❍	—	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	—	—	—	—	—
	Winter pack		—	—	—	—	—	—
	15 inch tire		—	—	❍	—	—	—
	17 inch tire		—	—	—	❍	—	—
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		—	—	—	❍	—	—
	Curtain airbag		—	—	—	❍	—	—
	Sunroof		—	—	—	❍	—	—
	Navigation system		—	—	—	—	—	—
	Self levelizer		—	—	—	—	—	—
	Grade up		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			KA					
Model			2.0 L SOHC		2.0 L DOHC turbo		2.5 L SOHC	
			AWD					
			2.0 i		2.0 GT		2.5 i	
			4AT		5AT		5MT (Single range)	
Curb weight (C.W.)	Front	kgf (lb)	785 (1,731)	800 (1,764)	845 (1,863)	860 (1,896)	765 (1,687)	770 (1,698)
	Rear	kgf (lb)	595 (1,312)	610 (1,345)	615 (1,356)	635 (1,400)	600 (1,323)	605 (1,334)
	Total	kgf (lb)	1,380 (3,042)	1,410 (3,109)	1,460 (3,219)	1,495 (3,296)	1,365 (3,009)	1,375 (3,031)
Unladen mass (U.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Gross vehicle mass (G.V.M.)	Total	kgf (lb)	1,900 (4,189)	1,900 (4,189)	2,000 (4,409)	2,000 (4,409)	1,930 (4,255)	1,930 (4,255)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		❍	❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	❍	—	—
	Leather interior		—	—	—	❍	—	—
	Winter pack		—	—	—	—	—	—
	15 inch tire		❍	—	—	—	—	—
	17 inch tire		—	❍	—	—	—	❍
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		—	❍	❍	❍	—	—
	Curtain airbag		—	❍	—	❍	—	—
	Sunroof		—	❍	—	❍	—	—
	Navigation system		—	—	—	—	—	—
	Self levelizer		—	—	—	—	—	—
	Grade up		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			KA					
Model			2.5 L SOHC					
			AWD					
			2.5 i					
			5MT (Single range)			4AT		
Curb weight (C.W.)	Front	kgf (lb)	775 (1,709)	780 (1,720)	785 (1,731)	785 (1,731)	790 (1,742)	795 (1,753)
	Rear	kgf (lb)	615 (1,356)	620 (1,367)	625 (1,378)	595 (1,312)	605 (1,334)	615 (1,356)
	Total	kgf (lb)	1,390 (3,064)	1,400 (3,086)	1,410 (3,109)	1,380 (3,042)	1,395 (3,053)	1,410 (3,109)
Unladen mass (U.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Gross vehicle mass (G.V.M.)	Total	kgf (lb)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		❍	❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	—	❍	—	—	—
	Winter pack		—	—	❍	—	—	—
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	❍	❍	—	❍	—
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		❍	❍	❍	—	—	❍
	Curtain airbag		❍	❍	❍	—	—	❍
	Sunroof		❍	❍	❍	—	—	❍
	Navigation system		—	—	❍	—	—	—
	Self levelizer		—	—	—	—	—	—
	Grade up		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			KA					
Model			2.5 L SOHC					
			AWD					
			2.5 i					
			4AT					
Curb weight (C.W.)	Front	kgf (lb)	800 (1,764)	785 (1,731)	795 (1,753)	805 (1,774)	810 (1,786)	815 (1,797)
	Rear	kgf (lb)	625 (1,378)	605 (1,334)	610 (1,345)	615 (1,356)	625 (1,378)	625 (1,378)
	Total	kgf (lb)	1,425 (3,142)	1,390 (3,064)	1,405 (3,097)	1,420 (3,131)	1,435 (3,164)	1,440 (3,175)
Unladen mass (U.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Gross vehicle mass (G.V.M.)	Total	kgf (lb)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)	1,930 (4,255)
Option	Vehicle Dynamics Control		—	—	—	❍	❍	❍
	Cruise control		❍	❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	❍	❍	❍	❍	❍
	Winter pack		—	—	—	—	—	❍
	15 inch tire		—	—	—	—	—	—
	17 inch tire		❍	—	❍	—	❍	❍
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		❍	—	—	❍	❍	❍
	Curtain airbag		❍	—	—	❍	❍	❍
	Sunroof		❍	—	—	❍	❍	❍
	Navigation system		—	—	—	—	—	❍
	Self levelizer		—	—	—	—	—	—
	Grade up		—	❍	❍	❍	❍	❍

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

2. WAGON MODEL

- LHD model

Option code★1			EC					
Model			2.0 L SOHC					
			AWD					
			2.0 i					
			5MT (Dual range)					
Curb weight (C.W.)	Front	kgf (lb)	750 (1,653)	765 (1,686)	770 (1,698)	770 (1,698)	775 (1,709)	785 (1,731)
	Rear	kgf (lb)	610 (1,345)	610 (1,345)	610 (1,345)	610 (1,345)	635 (1,400)	645 (1,422)
	Total	kgf (lb)	1,360 (2,998)	1,375 (3,031)	1,380 (3,042)	1,380 (3,042)	1,410 (3,109)	1,430 (3,153)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,925 (4,244)	1,925 (4,244)	1,925 (4,244)	1,925 (4,244)	1,925 (4,244)	1,925 (4,244)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		—	—	—	❍	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	—	—	—	—	—
	Winter pack		—	—	—	❍	❍	❍
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	—	—	—	—	❍
	A/C		—	❍	❍	❍	❍	❍
	Side airbag		❍	❍	❍	❍	❍	❍
	Curtain airbag		—	—	—	—	❍	❍
	Sunroof		—	—	—	—	❍	❍
	Navigation system		—	—	❍	—	—	❍
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			EC					
Model			2.0 L SOHC					
			AWD					
			2.0 i					
			4AT					
Curb weight (C.W.)	Front	kgf (lb)	760 (1,676)	775 (1,709)	780 (1,720)	780 (1,720)	785 (1,731)	790 (1,742)
	Rear	kgf (lb)	610 (1,345)	610 (1,345)	610 (1,345)	610 (1,345)	635 (1,400)	640 (1,410)
	Total	kgf (lb)	1,370 (3,020)	1,385 (3,053)	1,390 (3,064)	1,390 (3,064)	1,420 (3,131)	1,430 (3,153)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,925 (4,244)	1,925 (4,244)	1,925 (4,244)	1,925 (4,244)	1,925 (4,244)	1,925 (4,244)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		—	—	—	❍	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	—	—	—	—	—
	Winter pack		—	—	—	❍	❍	❍
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	—	—	—	—	❍
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		—	❍	❍	❍	❍	❍
	Curtain airbag		—	—	—	—	❍	❍
	Sunroof		—	—	—	—	❍	❍
	Navigation system		—	—	❍	—	—	❍
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			EC					
Model			2.5 L SOHC					
			AWD					
			2.5 i					
			5MT (Dual range)					
Curb weight (C.W.)	Front	kgf (lb)	770 (1,698)	780 (1,720)	775 (1,709)	780 (1,720)	780 (1,720)	785 (1,731)
	Rear	kgf (lb)	620 (1,367)	625 (1,378)	620 (1,367)	625 (1,378)	620 (1,367)	630 (1,389)
	Total	kgf (lb)	1,390 (3,064)	1,405 (3,097)	1,395 (3,075)	1,405 (3,097)	1,400 (3,086)	1,415 (3,120)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,935 (4,266)	1,935 (4,266)	1,935 (4,266)	1,935 (4,266)	1,935 (4,266)	1,935 (4,266)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		❍	❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	—	—	—	❍	❍
	Winter pack		—	—	—	—	❍	❍
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	❍	—	❍	—	❍
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		❍	❍	❍	❍	❍	❍
	Curtain airbag		—	—	—	—	—	—
	Sunroof		—	—	—	—	—	—
	Navigation system		—	—	❍	❍	❍	❍
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			EC					
Model			2.5 L SOHC					
			AWD					
			2.5 i					
			5MT (Dual range)			4AT		
Curb weight (C.W.)	Front	kgf (lb)	785 (1,731)	790 (1,742)	800 (1,764)	780 (1,720)	790 (1,742)	785 (1,731)
	Rear	kgf (lb)	645 (1,422)	655 (1,444)	660 (1,455)	620 (1,367)	625 (1,378)	620 (1,367)
	Total	kgf (lb)	1,430 (3,153)	1,445 (3,186)	1,460 (3,219)	1,400 (3,086)	1,415 (3,120)	1,405 (3,097)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,935 (4,266)	1,935 (4,266)	1,935 (4,266)	1,945 (4,288)	1,945 (4,288)	1,945 (4,288)
Option	Vehicle Dynamics Control		—	—	❍	—	—	—
	Cruise control		❍	❍	❍	❍	❍	❍
	McIntosh audio		—	—	❍	—	—	—
	Leather interior		❍	❍	❍	—	—	—
	Winter pack		❍	❍	❍	—	—	—
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	❍	❍	—	❍	—
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		❍	❍	❍	❍	❍	❍
	Curtain airbag		❍	❍	❍	—	—	—
	Sunroof		❍	❍	❍	—	—	—
	Navigation system		—	—	❍	—	—	❍
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			EC					
Model			2.5 L SOHC					
			AWD					
			2.5 i					
			4AT					
Curb weight (C.W.)	Front	kgf (lb)	790 (1,742)	785 (1,731)	795 (1,753)	800 (1,764)	805 (1,775)	815 (1,797)
	Rear	kgf (lb)	625 (1,378)	625 (1,378)	630 (1,389)	645 (1,422)	655 (1,444)	660 (1,455)
	Total	kgf (lb)	1,415 (3,120)	1,410 (3,109)	1,425 (3,142)	1,445 (3,186)	1,460 (3,219)	1,475 (3,252)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,945 (4,288)	1,945 (4,288)	1,945 (4,288)	1,945 (4,288)	1,945 (4,288)	1,945 (4,288)
Option	Vehicle Dynamics Control		—	—	—	❍	❍	❍
	Cruise control		❍	❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	—	❍
	Leather interior		—	❍	❍	❍	❍	❍
	Winter pack		—	❍	❍	❍	❍	❍
	15 inch tire		—	—	—	—	—	—
	17 inch tire		❍	—	❍	—	❍	❍
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		❍	❍	❍	❍	❍	❍
	Curtain airbag		—	—	—	❍	❍	❍
	Sunroof		—	—	—	❍	❍	❍
	Navigation system		❍	❍	❍	—	—	❍
	Self levelizer		—	—	—	—	—	❍

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			EC			K4		
Model			3.0 L DOHC			2.0 L SOHC		
			AWD					
			3.0 R			2.0 i		
			5AT			5MT (Dual range)		
Curb weight (C.W.)	Front	kgf (lb)	880 (1,940)	890 (1,962)	890 (1,962)	760 (1,676)	750 (1,653)	765 (1,686)
	Rear	kgf (lb)	640 (1,410)	665 (1,466)	665 (1,466)	610 (1,345)	610 (1,345)	610 (1,345)
	Total	kgf (lb)	1,520 (3,351)	1,555 (3,428)	1,555 (3,428)	1,370 (3,020)	1,360 (2,998)	1,375 (3,031)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	2,050 (4,519)	2,050 (4,519)	2,050 (4,519)	1,925 (4,244)	1,925 (4,244)	1,925 (4,244)
Option	Vehicle Dynamics Control		❍	❍	❍	—	—	—
	Cruise control		❍	❍	❍	—	—	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		❍	❍	❍	—	—	—
	Winter pack		❍	❍	❍	—	—	—
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	—	—	—	—	—
	A/C		❍	❍	❍	❍	—	❍
	Side airbag		❍	❍	❍	—	—	❍
	Curtain airbag		—	❍	❍	—	—	—
	Sunroof		—	❍	❍	—	—	—
	Navigation system		—	—	❍	—	—	—
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			KS	K4			KS
Model			2.0 L SOHC				
			AWD				
			2.0 i				
			5MT (Dual range)	4AT			
Curb weight (C.W.)	Front	kgf (lb)	760 (1,676)	770 (1,698)	775 (1,709)	785 (1,731)	770 (1,698)
	Rear	kgf (lb)	610 (1,345)	610 (1,345)	610 (1,345)	635 (1,400)	610 (1,345)
	Total	kgf (lb)	1,370 (3,020)	1,380 (3,042)	1,385 (3,053)	1,420 (3,131)	1,380 (3,042)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,925 (4,244)	1,925 (4,244)	1,925 (4,244)	1,925 (4,244)	1,925 (4,244)
Option	Vehicle Dynamics Control		—	—	—	—	—
	Cruise control		—	—	❍	—	—
	McIntosh audio		—	—	—	—	—
	Leather interior		—	—	—	—	—
	Winter pack		—	—	—	—	—
	15 inch tire		—	—	—	—	—
	17 inch tire		—	—	—	—	—
	A/C		❍	❍	❍	❍	❍
	Side airbag		—	—	❍	❍	—
	Curtain airbag		—	—	—	❍	—
	Sunroof		—	—	—	❍	—
	Navigation system		—	—	—	—	—
	Self levelizer		—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			K4					
Model			2.5 L SOHC					
			AWD					
			2.5 i					
			5MT (Dual range)				4AT	
Curb weight (C.W.)	Front	kgf (lb)	780 (1,720)	780 (1,720)	790 (1,742)	790 (1,742)	790 (1,742)	790 (1,742)
	Rear	kgf (lb)	635 (1,400)	645 (1,422)	650 (1,433)	655 (1,444)	635 (1,400)	645 (1,422)
	Total	kgf (lb)	1,415 (3,120)	1,425 (3,142)	1,440 (3,175)	1,445 (3,186)	1,425 (3,142)	1,435 (3,164)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,935 (4,266)	1,935 (4,266)	1,935 (4,266)	1,935 (4,266)	1,945 (4,288)	1,945 (4,288)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		❍	❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	—	—	❍	—	—
	Winter pack		—	—	—	—	—	—
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	—	❍	❍	—	—
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		❍	❍	❍	❍	❍	❍
	Curtain airbag		—	❍	❍	❍	—	❍
	Sunroof		❍	❍	❍	❍	❍	❍
	Navigation system		—	—	—	❍	—	—
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			K4				
Model			2.5 L SOHC				3.0 L DOHC
			AWD				
			2.5 i				3.0 R, 3.0 R-A
			4AT				5AT
Curb weight (C.W.)	Front	kgf (lb)	800 (1,764)	795 (1,753)	800 (1,764)	810 (1,785)	890 (1,962)
	Rear	kgf (lb)	650 (1,433)	645 (1,422)	650 (1,433)	650 (1,433)	665 (1,466)
	Total	kgf (lb)	1,450 (3,196)	1,440 (3,175)	1,450 (3,196)	1,460 (3,219)	1,555 (3,428)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,945 (4,288)	1,945 (4,288)	1,945 (4,288)	1,945 (4,288)	2,050 (4,519)
Option	Vehicle Dynamics Control		—	—	—	❍	❍
	Cruise control		❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	—
	Leather interior		—	❍	❍	❍	❍
	Winter pack		—	—	—	❍	—
	15 inch tire		—	—	—	—	—
	17 inch tire		❍	—	❍	❍	—
	A/C		❍	❍	❍	❍	❍
	Side airbag		❍	❍	❍	❍	❍
	Curtain airbag		❍	❍	❍	❍	❍
	Sunroof		❍	❍	❍	❍	❍
	Navigation system		—	—	—	❍	—
	Self levelizer		—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			KA					
Model			2.0 L SOHC					
			AWD					
			2.0 i					
			5MT (Dual range)			4AT		
Curb weight (C.W.)	Front	kgf (lb)	770 (1,698)	775 (1,709)	790 (1,742)	780 (1,720)	785 (1,731)	800 (1,764)
	Rear	kgf (lb)	610 (1,345)	615 (1,356)	640 (1,410)	610 (1,345)	615 (1,356)	640 (1,410)
	Total	kgf (lb)	1,380 (3,042)	1,390 (3,064)	1,430 (3,153)	1,390 (3,064)	1,400 (3,086)	1,440 (3,175)
Unladen mass (U.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Gross vehicle mass (G.V.M.)	Total	kgf (lb)	1,925 (4,244)	1,925 (4,244)	1,925 (4,244)	1,925 (4,244)	1,925 (4,244)	1,925 (4,244)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		❍	❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	—	—	—	—	—
	Winter pack		—	—	—	—	—	—
	15 inch tire		—	❍	—	—	❍	—
	17 inch tire		—	—	❍	—	—	❍
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		—	—	❍	—	—	❍
	Curtain airbag		—	—	❍	—	—	❍
	Sunroof		—	—	❍	—	—	❍
	Navigation system		—	—	—	—	—	—
	Self levelizer		—	—	—	—	—	—
	Grade up		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			KA					
Model			2.0 L DOHC turbo			2.5 L SOHC		
			AWD					
			2.0 GT			2.5 i		
			5AT			5MT (Dual range)		
Curb weight (C.W.)	Front	kgf (lb)	845 (1,863)	850 (1,874)	860 (1,896)	775 (1,709)	780 (1,720)	785 (1,731)
	Rear	kgf (lb)	635 (1,400)	645 (1,422)	665 (1,466)	620 (1,367)	625 (1,378)	645 (1,422)
	Total	kgf (lb)	1,480 (3,263)	1,495 (3,296)	1,525 (3,362)	1,395 (3,075)	1,405 (3,097)	1,430 (3,153)
Unladen mass (U.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Gross vehicle mass (G.V.M.)	Total	kgf (lb)	2,010 (4,431)	2,010 (4,431)	2,010 (4,431)	1,935 (4,266)	1,935 (4,266)	1,935 (4,266)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		❍	❍	❍	❍	❍	❍
	McIntosh audio		—	❍	❍	—	—	—
	Leather interior		—	❍	❍	—	—	—
	Winter pack		—	—	—	—	—	—
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	—	—	—	❍	—
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		❍	❍	❍	—	—	❍
	Curtain airbag		—	—	❍	—	—	❍
	Sunroof		—	—	❍	—	—	❍
	Navigation system		—	—	—	—	—	—
	Self levelizer		—	—	—	—	—	—
	Grade up		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			KA					
Model			2.5 L SOHC					
			AWD					
			2.5 i					
			5MT (Dual range)		4AT			
Curb weight (C.W.)	Front	kgf (lb)	795 (1,753)	805 (1,774)	780 (1,720)	790 (1,742)	795 (1,753)	800 (1,764)
	Rear	kgf (lb)	650 (1,433)	660 (1,455)	620 (1,667)	625 (1,378)	640 (1,410)	650 (1,433)
	Total	kgf (lb)	1,445 (3,186)	1,465 (3,230)	1,400 (3,086)	1,415 (3,120)	1,435 (3,164)	1,450 (3,197)
Unladen mass (U.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Gross vehicle mass (G.V.M.)	Total	kgf (lb)	1,935 (4,266)	1,935 (4,266)	1,945 (4,288)	1,945 (4,288)	1,945 (4,288)	1,945 (4,288)
Option	Vehicle Dynamics Control		—	❍	—	—	—	—
	Cruise control		❍	❍	❍	❍	❍	❍
	McIntosh audio		—	❍	—	—	—	—
	Leather interior		—	❍	—	—	—	—
	Winter pack		—	❍	—	—	—	—
	15 inch tire		—	—	—	—	—	—
	17 inch tire		❍	❍	—	❍	—	❍
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		❍	❍	—	—	❍	❍
	Curtain airbag		❍	❍	—	—	❍	❍
	Sunroof		❍	❍	—	—	❍	❍
	Navigation system		—	❍	—	—	—	—
	Self levelizer		—	—	—	—	—	—
	Grade up		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			KA				
Model			2.5 L SOHC				
			AWD				
			2.5 i				
			4AT				
Curb weight (C.W.)	Front	kgf (lb)	785 (1,731)	790 (1,742)	800 (1,764)	810 (1,786)	815 (1,797)
	Rear	kgf (lb)	620 (1,367)	630 (1,389)	645 (1,422)	650 (1,433)	660 (1,455)
	Total	kgf (lb)	1,405 (3,097)	1,420 (3,131)	1,445 (3,186)	1,460 (3,219)	1,470 (3,241)
Unladen mass (U.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Gross vehicle mass (G.V.M.)	Total	kgf (lb)	1,945 (4,288)	1,945 (4,288)	1,945 (4,288)	1,945 (4,288)	1,945 (4,288)
Option	Vehicle Dynamics Control		—	❍	❍	❍	❍
	Cruise control		❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	❍
	Leather interior		❍	❍	❍	❍	❍
	Winter pack		—	—	—	—	❍
	15 inch tire		—	—	—	—	—
	17 inch tire		—	❍	—	❍	❍
	A/C		❍	❍	❍	❍	❍
	Side airbag		—	—	❍	❍	❍
	Curtain airbag		—	—	❍	❍	❍
	Sunroof		—	—	❍	❍	❍
	Navigation system		—	—	—	—	❍
	Self levelizer		—	—	—	—	—
	Grade up		❍	❍	❍	❍	❍

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

3. OUTBACK

- LHD model

Option code★1			EC					
Model			2.5 L SOHC					
			AWD					
			OBK 2.5 i					
			5MT (Dual range)			4AT		
Curb weight (C.W.)	Front	kgf (lb)	785 (1,731)	795 (1,753)	800 (1,764)	795 (1,753)	805 (1,774)	810 (1,785)
	Rear	kgf (lb)	645 (1,422)	670 (1,477)	675 (1,488)	645 (1,422)	670 (1,477)	675 (1,488)
	Total	kgf (lb)	1,430 (3,153)	1,465 (3,230)	1,475 (3,252)	1,440 (3,175)	1,475 (3,252)	1,485 (3,274)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,960 (4,321)	1,960 (4,321)	1,960 (4,321)	1,970 (4,343)	1,970 (4,343)	1,970 (4,343)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		—	❍	❍	—	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	—	❍	—	—	❍
	Winter pack		—	❍	❍	—	❍	❍
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	—	—	—	—	—
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		❍	❍	❍	❍	❍	❍
	Curtain airbag		—	❍	❍	—	❍	❍
	Sunroof		—	❍	❍	—	❍	❍
	Navigation system		—	—	❍	—	—	❍
	Self levelizer		—	❍	❍	❍	❍	❍

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			EC				K4	
Model			3.0 L DOHC				2.5 L SOHC	
			AWD					
			OBK 3.0 R, OBK 3.0 R-A				OBK 2.5 i	
			5AT				5MT (Dual range)	
Curb weight (C.W.)	Front	kgf (lb)	885 (1,951)	890 (1,962)	900 (1,984)	900 (1,984)	785 (1,731)	795 (1,753)
	Rear	kgf (lb)	660 (1,455)	660 (1,455)	685 (1,510)	685 (1,510)	645 (1,422)	670 (1,477)
	Total	kgf (lb)	1,545 (3,406)	1,550 (3,417)	1,585 (3,494)	1,585 (3,494)	1,430 (3,153)	1,465 (3,230)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	2,060 (4,542)	2,060 (4,542)	2,060 (4,542)	2,060 (4,542)	1,960 (4,321)	1,960 (4,321)
Option	Vehicle Dynamics Control		—	❍	❍	❍	—	—
	Cruise control		❍	❍	❍	❍	❍	❍
	McIntosh audio			—	—	—	—	—
	Leather interior		❍	❍	❍	❍	—	—
	Winter pack		❍	❍	❍	❍	—	—
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	—	—	—	—	—
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		❍	❍	❍	❍	❍	❍
	Curtain airbag		—		❍	❍	—	❍
	Sunroof		—	—	❍	❍	—	❍
	Navigation system		—	—	—	❍	—	—
	Self levelizer		❍	❍	❍	❍	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			KS			K4		
Model			2.5 L SOHC					
			AWD					
			OBK 2.5 i					
			5MT (Dual range)			4AT		
Curb weight (C.W.)	Front	kgf (lb)	785 (1,731)	795 (1,753)	795 (1,753)	795 (1,753)	805 (1,774)	810 (1,785)
	Rear	kgf (lb)	640 (1,410)	655 (1,444)	660 (1,455)	645 (1,422)	670 (1,477)	670 (1,477)
	Total	kgf (lb)	1,425 (3,142)	1,450 (3,196)	1,455 (3,208)	1,440 (3,175)	1,475 (3,252)	1,480 (3,263)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,960 (4,321)	1,960 (4,321)	1,960 (4,321)	1,970 (4,343)	1,970 (4,343)	1,970 (4,343)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		❍	❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	—	❍	—	—	❍
	Winter pack		—	—	—	—	—	—
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	—	—	—	—	—
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		—	—	—	❍	❍	❍
	Curtain airbag		—	—	—	—	❍	❍
	Sunroof		—	❍	❍	—	❍	❍
	Navigation system		—	—	—	—	—	—
	Self levelizer		—	—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			KS			K4	
Model			2.5 L SOHC			3.0 L DOHC	
			AWD				
			OBK 2.5 i			OBK 3.0 R, OBK 3.0 R-A	
			4AT			5AT	
Curb weight (C.W.)	Front	kgf (lb)	795 (1,753)	805 (1,774)	805 (1,774)	900 (1,984)	890 (1,962)
	Rear	kgf (lb)	640 (1,410)	655 (1,444)	660 (1,455)	685 (1,510)	685 (1,510)
	Total	kgf (lb)	1,435 (3,164)	1,460 (3,219)	1,465 (3,230)	1,585 (3,494)	1,575 (3,472)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,970 (4,343)	1,970 (4,343)	1,970 (4,343)	2,060 (4,542)	2,060 (4,542)
Option	Vehicle Dynamics Control		—	—	—	❍	—
	Cruise control		❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	—
	Leather interior		—	—	❍	❍	❍
	Winter pack		—	—	—	—	—
	15 inch tire		—	—	—	—	—
	17 inch tire		—	—	—	—	—
	A/C		❍	❍	❍	❍	❍
	Side airbag		—	—	—	❍	❍
	Curtain airbag		—	—	—	❍	❍
	Sunroof		—	❍	❍	❍	❍
	Navigation system		—	—	—	—	—
	Self levelizer		—	—	—	❍	❍

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

- RHD model

Option code★1			EK					
Model			2.5 L SOHC					3.0 L DOHC
			AWD					
			OBK 2.5 i					OBK 3.0 R, OBK 3.0 R-A
			5MT (Dual range)		4AT			5AT
Curb weight (C.W.)	Front	kgf (lb)	800 (1,764)	790 (1,742)	810 (1,785)	800 (1,764)	815 (1,797)	895 (1,973)
	Rear	kgf (lb)	675 (1,488)	645 (1,422)	670 (1,477)	645 (1,422)	670 (1,477)	680 (1,499)
	Total	kgf (lb)	1,475 (3,252)	1,435 (3,164)	1,480 (3,263)	1,445 (3,186)	1,485 (3,274)	1,575 (3,472)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	1,960 (4,321)	1,960 (4,321)	1,970 (4,343)	1,970 (4,343)	1,970 (4,343)	2,060 (4,542)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		❍	❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		❍	—	❍	—	❍	—
	Winter pack		❍	—	❍	—	❍	—
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	—	—	—	—	—
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		❍	❍	❍	❍	❍	❍
	Curtain airbag		❍	—	❍	—	❍	❍
	Sunroof		❍	—	❍	—	❍	❍
	Navigation system		—	—	—	—	❍	—
	Self levelizer		❍	❍	❍	❍	❍	❍

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			EK	
Model			3.0 L DOHC	
			AWD	
			OBK 3.0 R, OBK 3.0 R-A	
			5AT	
Curb weight (C.W.)	Front	kgf (lb)	905 (1,995)	905 (1,995)
	Rear	kgf (lb)	685 (1,510)	685 (1,510)
	Total	kgf (lb)	1,590 (1,301)	1,590 (1,301)
Maximum permissible axle weight (M.P.A.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)
Maximum permissible weight (M.P.W.)	Total	kgf (lb)	2,060 (4,542)	2,060 (4,542)
Option	Vehicle Dynamics Control		❍	❍
	Cruise control		❍	❍
	McIntosh audio		—	—
	Leather interior		❍	❍
	Winter pack		❍	❍
	15 inch tire		—	—
	17 inch tire		—	—
	A/C		❍	❍
	Side airbag		❍	❍
	Curtain airbag		❍	❍
	Sunroof		❍	❍
	Navigation system		—	❍
	Self levelizer		❍	❍

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			KA					
Model			2.5 L SOHC					
			AWD					
			OBK 2.5 i					
			5MT (Dual range)				4AT	
Curb weight (C.W.)	Front	kgf (lb)	790 (1,742)	800 (1,764)	800 (1,764)	805 (1,774)	800 (1,764)	810 (1,785)
	Rear	kgf (lb)	640 (1,410)	665 (1,466)	670 (1,477)	670 (1,477)	640 (1,410)	665 (1,466)
	Total	kgf (lb)	1,430 (3,153)	1,465 (3,230)	1,470(3,241)	1,475 (3,252)	1,440 (3,175)	1,475 (3,252)
Unladen mass (U.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Gross vehicle mass (G.V.M.)	Total	kgf (lb)	1,960 (4,321)	1,960 (4,321)	1,960 (4,321)	1,960 (4,321)	1,970 (4,343)	1,970 (4,343)
Option	Vehicle Dynamics Control		—	—	—	—	—	—
	Cruise control		❍	❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	—	—
	Leather interior		—	❍	❍	❍	—	❍
	Winter pack		—	—	—	❍	—	—
	15 inch tire		—	—	—	—	—	—
	17 inch tire		—	—	—	—	—	—
	A/C		❍	❍	❍	❍	❍	❍
	Side airbag		—	—	❍	❍	—	—
	Curtain airbag		—	—	❍	❍	—	—
	Sunroof		—	❍	❍	❍	—	❍
	Navigation system		—	—	—	❍	—	—
	Self levelizer		—	❍	❍	—	—	❍
	Grade up		—	—	—	❍	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

Option code★1			KA				
Model			2.5 L SOHC		3.0 L DOHC		
			AWD				
			OBK 2.5 i		OBK 3.0 R, OBK 3.0 R-A		
			4AT		5AT		
Curb weight (C.W.)	Front	kgf (lb)	810 (1,785)	810 (1,785)	885 (1,951)	900 (1,984)	905 (1,995)
	Rear	kgf (lb)	670 (1,477)	675 (1,488)	655 (1,444)	685 (1,510)	685 (1,510)
	Total	kgf (lb)	1,480 (3,263)	1,485 (3,274)	1,540 (3,395)	1,585 (3,494)	1,590 (1,301)
Unladen mass (U.W.)	Front	kgf (lb)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)	1,040 (2,293)
	Rear	kgf (lb)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)	1,060 (2,336)
Gross vehicle mass (G.V.M.)	Total	kgf (lb)	1,970 (4,343)	1,970 (4,343)	2,060 (4,542)	2,060 (4,542)	2,060 (4,542)
Option	Vehicle Dynamics Control		—	—	—	❍	❍
	Cruise control		❍	❍	❍	❍	❍
	McIntosh audio		—	—	—	—	—
	Leather interior		❍	❍	—	❍	❍
	Winter pack		—	—	—	—	❍
	15 inch tire		—	—	—	—	—
	17 inch tire		—	—	—	—	—
	A/C		❍	❍	❍	❍	❍
	Side airbag		❍	❍	—	❍	❍
	Curtain airbag		❍	❍	—	❍	❍
	Sunroof		❍	❍	—	❍	❍
	Navigation system		—	❍	—	—	❍
	Self levelizer		❍	❍	❍	❍	❍
	Grade up		—	—	—	—	—

★1: For option code, refer to ID section. <Ref. to ID-5, MODEL NUMBER PLATE, IDENTIFICATION, Identification.>

PRECAUTION

PC

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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 instructions in this manual during performing the maintenance of ABSCM&H/U. To disassemble parts without instructions could prevent the ABS system from operating 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 out your 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 the airbag components or nearby, and the airbag wiring harnesses or nearby.

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

7. AIRBAG DISPOSAL

To prevent bodily injury from unexpected airbag deployment, do not dispose airbag modules in the same way as other refuse. Follow the special instructions for disposal in this manual. Follow all government regulations concerning disposal of refuse.

8. AIRBAG MODULE

Adhere to the following when handing 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 loose and falling, resulting in accidents and injury.

NOTE

NT

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1. Note

A: NOTE

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

1. 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 overcurrent. 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 MAINTENACE

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

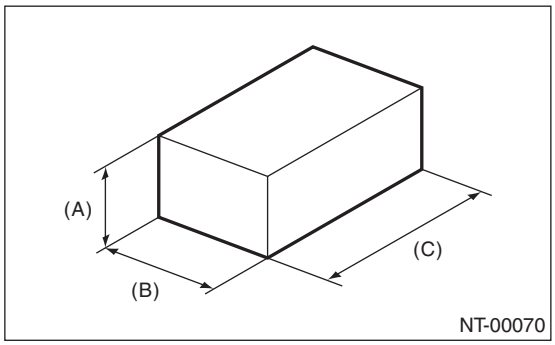
6. ENSURING SECURITY DURING WORK

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

7. LIFTS AND JACKS

When using a lift or shop jack to 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.

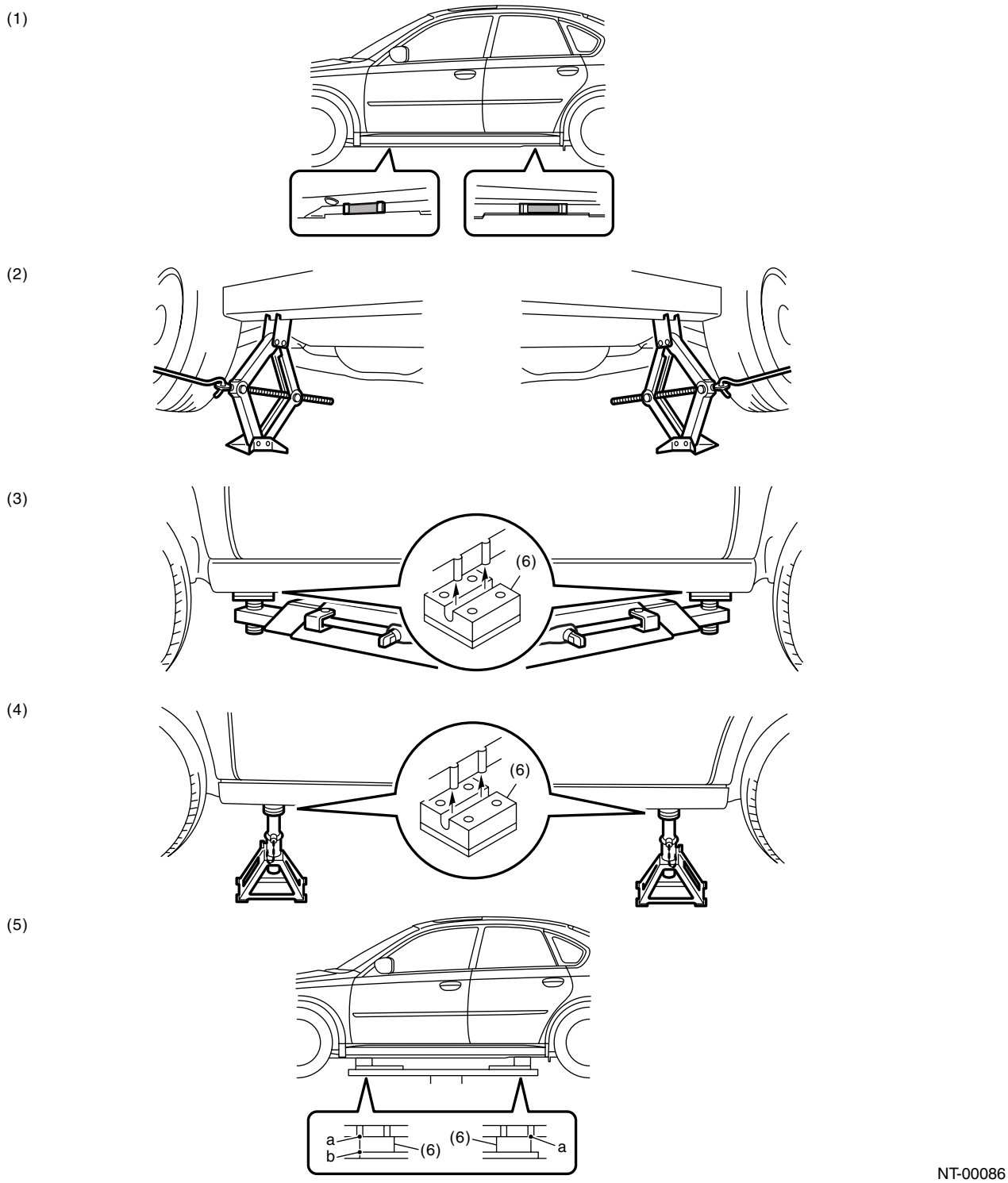
(1)

(2)

(3)

(4)

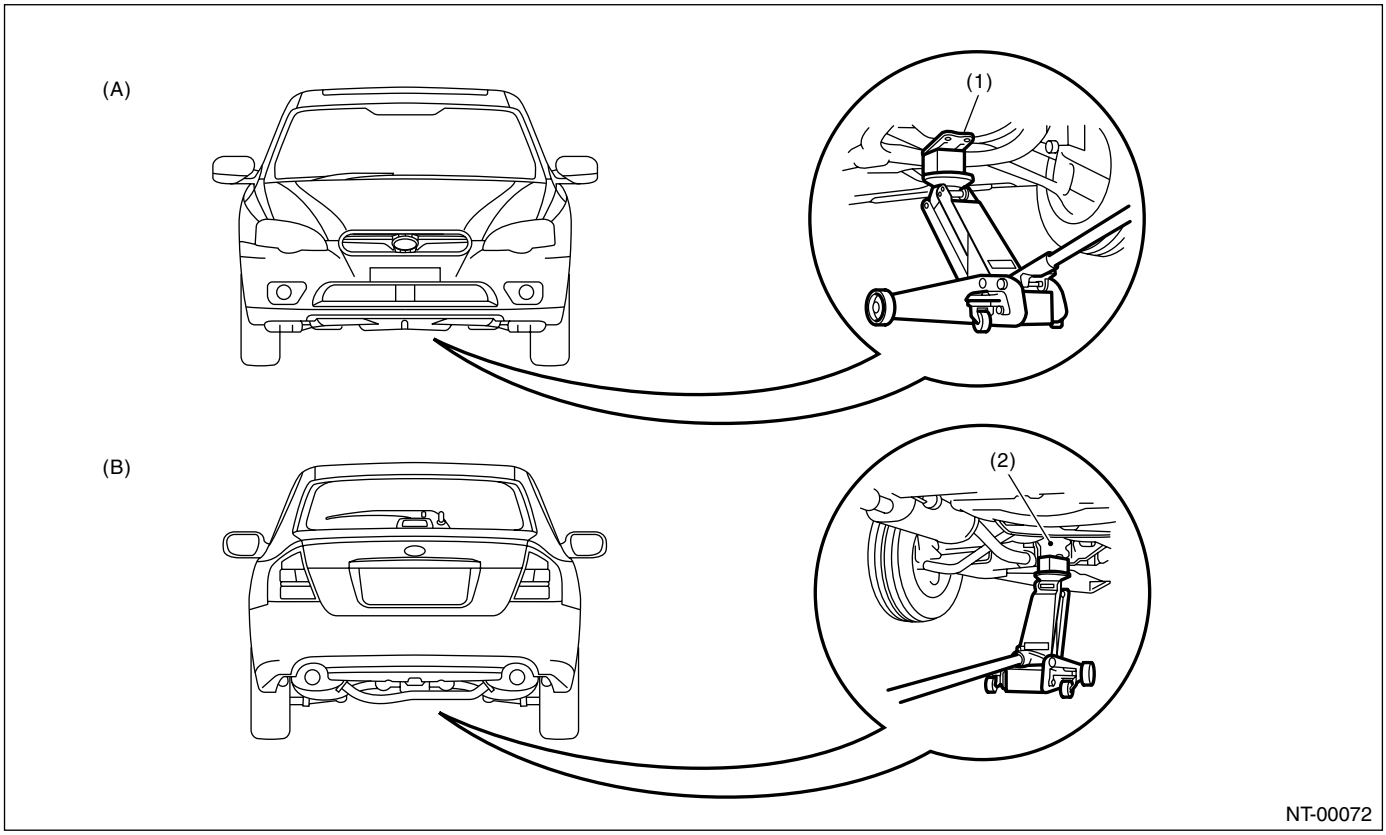
(5)



NT-00086

(1) Supporting locations
(2) Pantograph jack
(3) Swing arm lift
(4) Rigid rack
(5) Plate lift
(6) Attachment

NOTE



(A) Front

(B) Rear

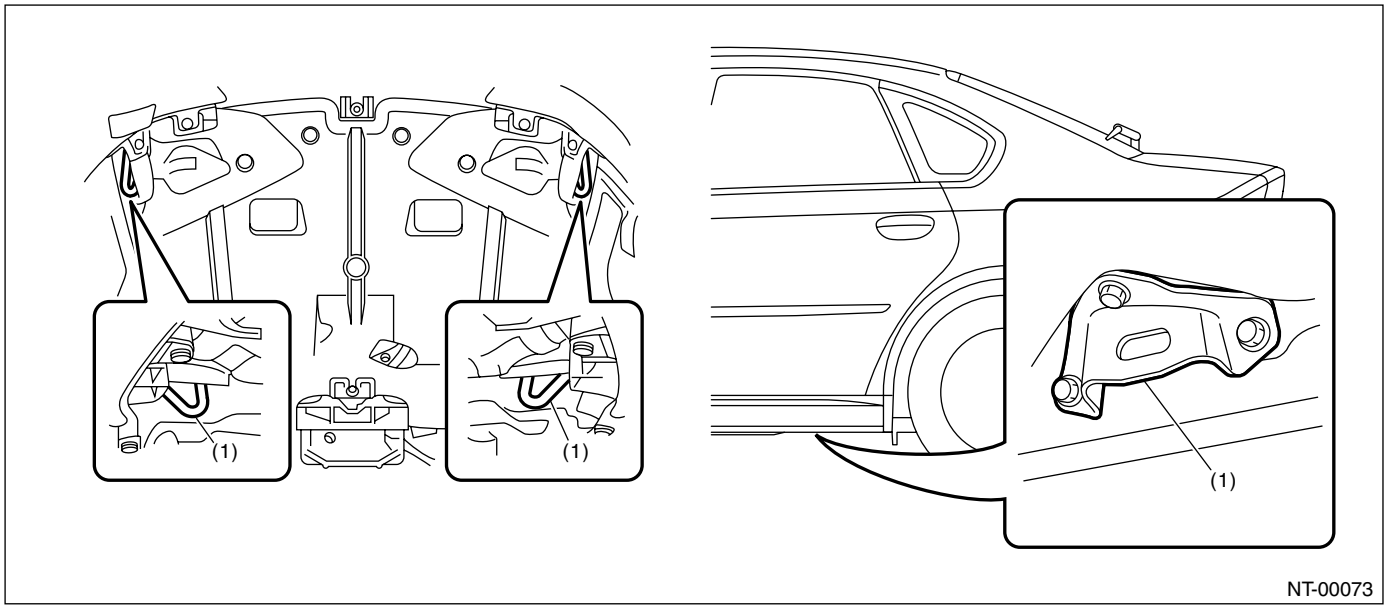
(1) Front crossmember

(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.

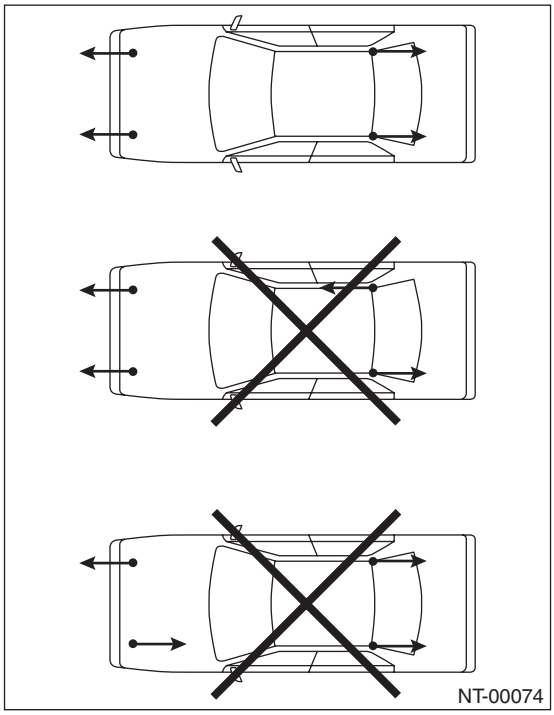
- TIE-DOWN LOCATION



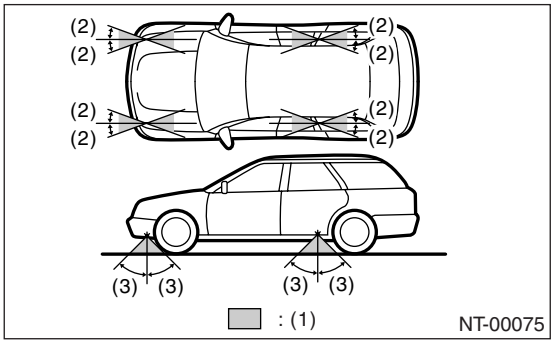
(1) Hook for tie-down

NOTE

• CHAIN DIRECTION AT TIE-DOWN CONDITION



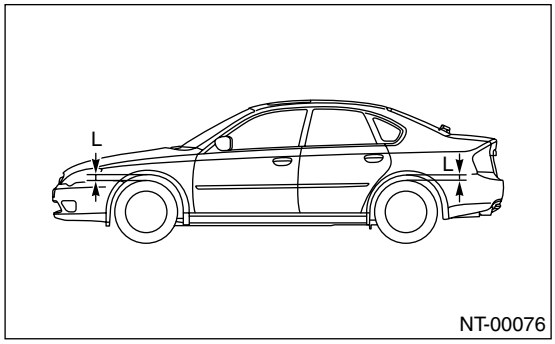
• CHAIN PULLING RANGE AT TIE-DOWN CONDITION



(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 measurement value (sinking volume) shall be within 50 mm (1.97 in) and make sure to fix the vehicle securely.

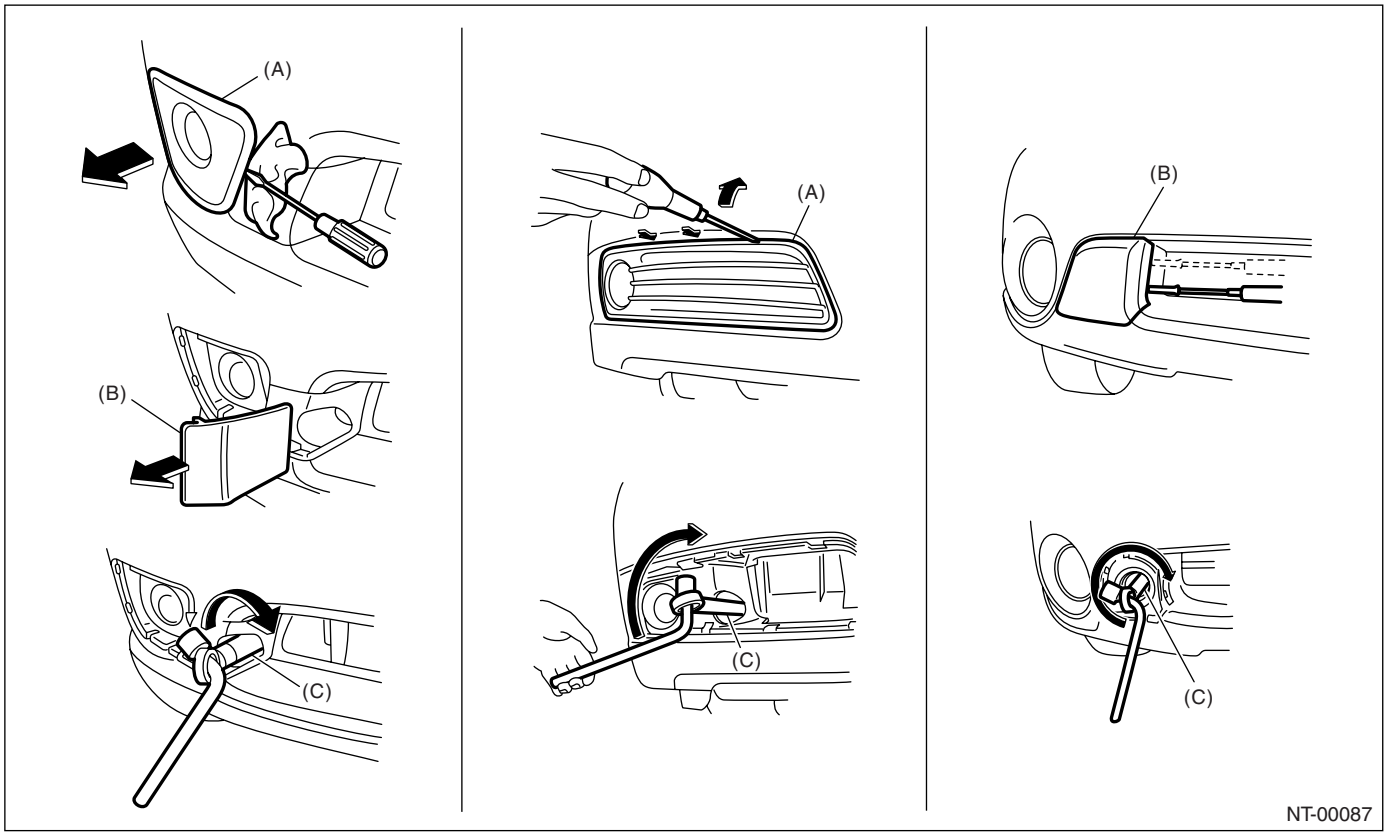


9. TOWING

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.

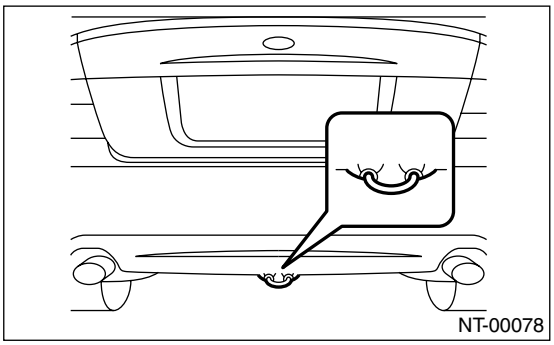
- Do not tow other vehicles with a front tie-down hook.
- Make sure the towing vehicle is heavier than the towed vehicle.
- FRONT

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



(A) Fog light cover (except for OUTBACK model)
(B) Hook cover
(C) Hook

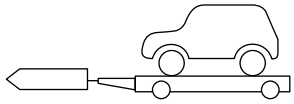
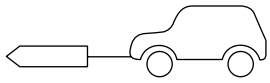
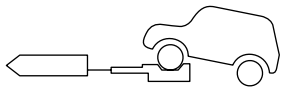
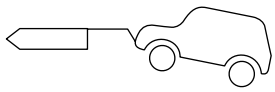
- REAR



Note

NOTE

- NOTES

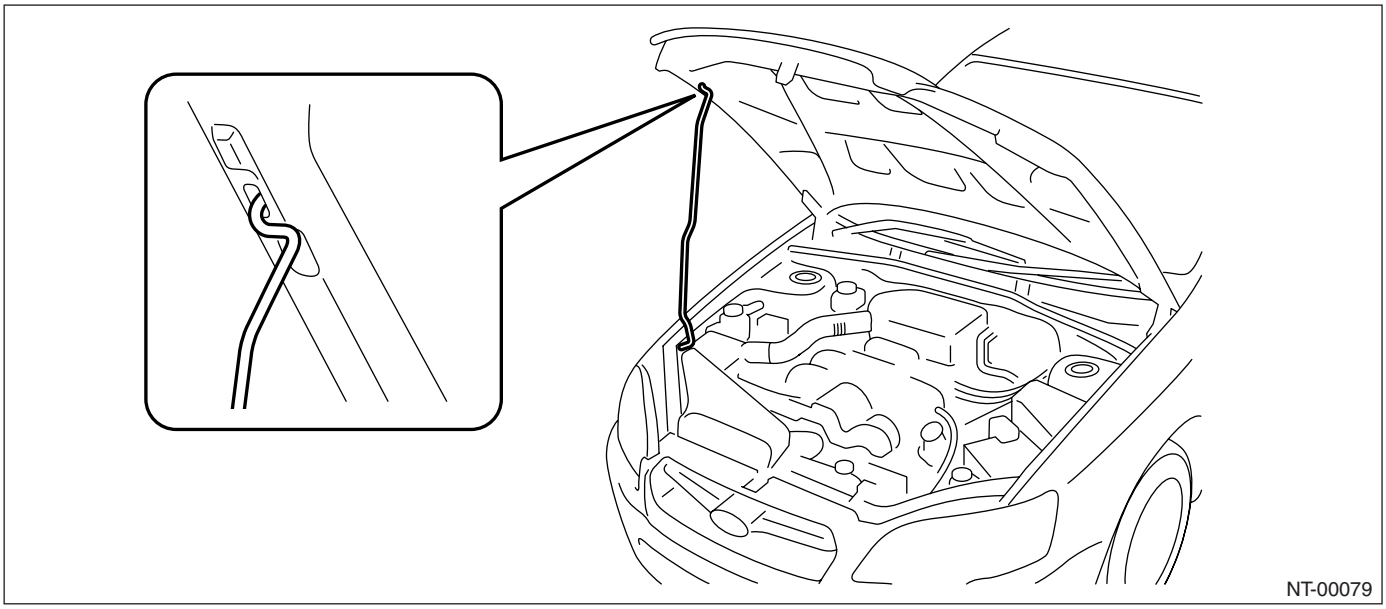
Towing	Notes	MT	AT
Lifting up four wheels (On a trailer)  NT-00023	Towing the vehicle after lifting up all four wheels is a basic rule for AWD model.	❍	❍
Rope  NT-00024	• Check if both front and rear wheels are rotated normally. • AT model driving conditions: Allow driving speed less than 30 km/h (19 MPH). Allow driving distance less than 30 km (19 miles).	❍	▲
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.**

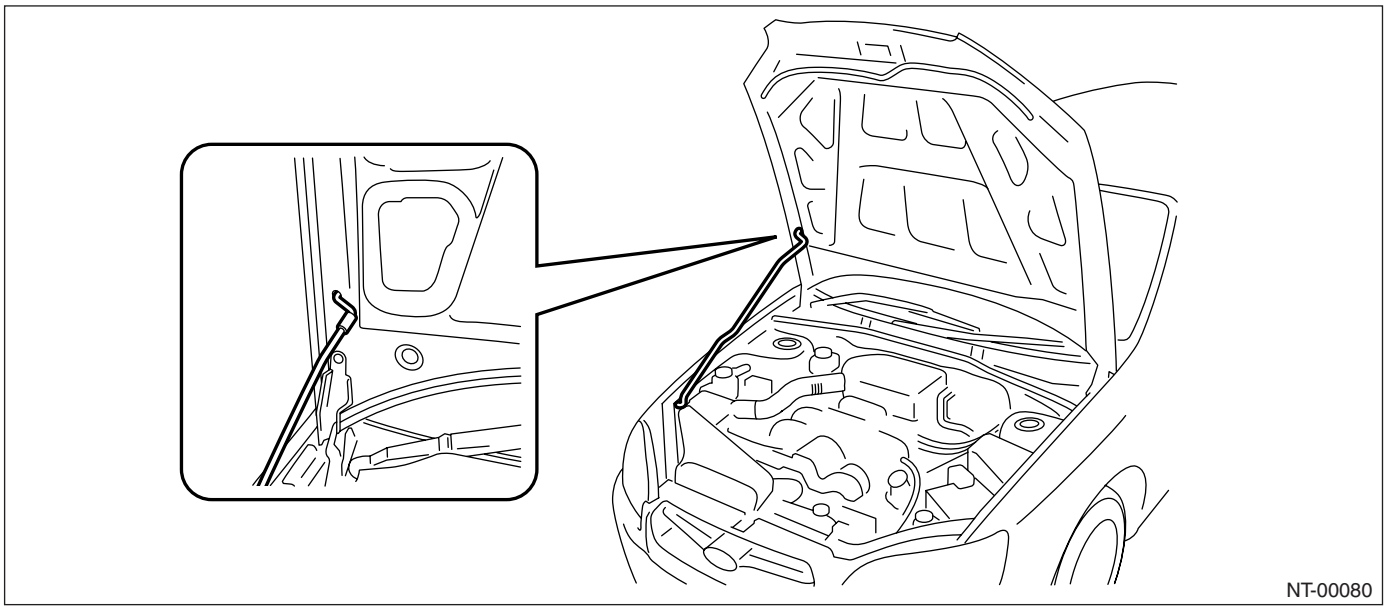
10.FRONT HOOD STAY INSTALLATION

- 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.

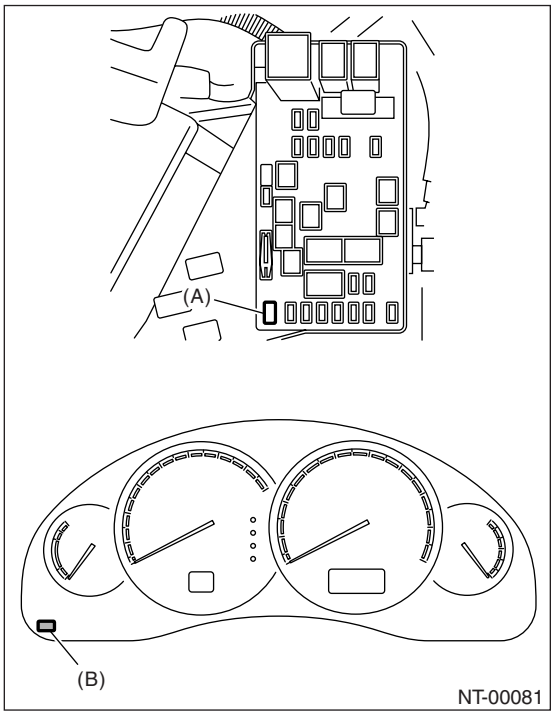


11.GENERAL SCAN TOOL

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.

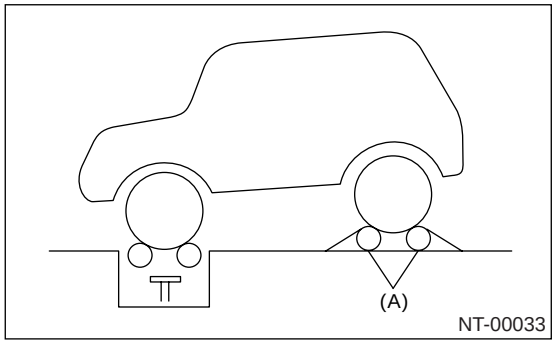


(A) FWD fuse holder
(B) AWD warning light

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

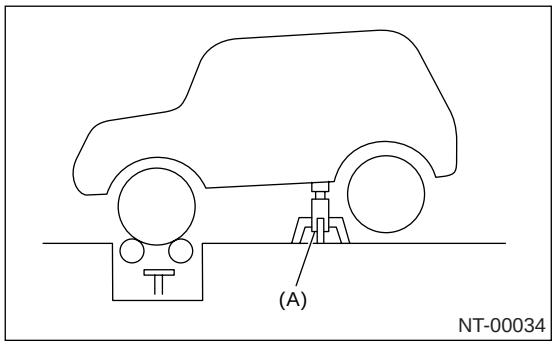
(3) Set the speedometer tester.
(4) Conduct the speedometer test work.

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

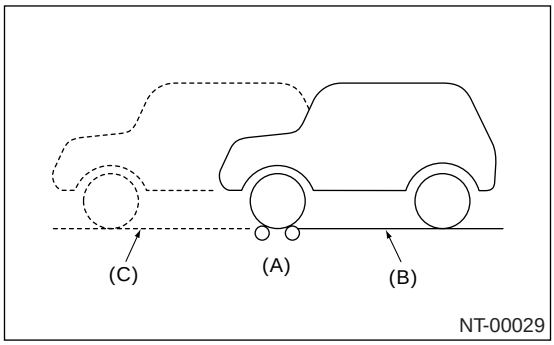
(3) Conduct the speedometer test work.

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.

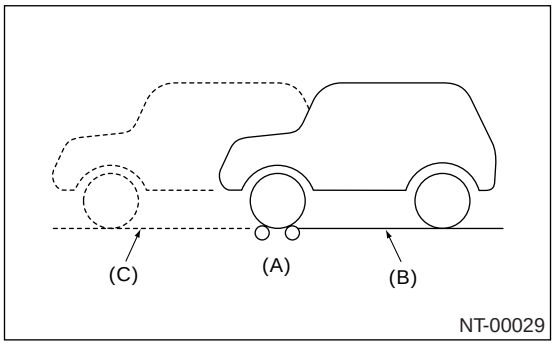
NOTE:
Effect of the viscous torque on braking force will be added approx. 25 kg compared with FWD model.



(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 couping, 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:

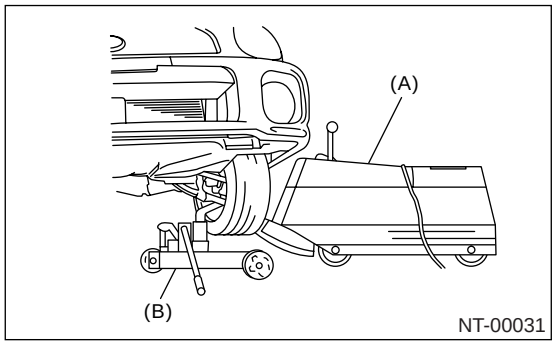
	Braking force
Rear wheel total	More than 10% of load on front or rear wheels
Difference between right and left wheels	Less than 8% of load on front or rear wheels
Grand total	More than 50% of vehicle weight at the time of test

• When measurement is difficult to carry out because both of front wheels are locked, check if break force measurement in this condition conforms to 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 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

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1. Identification 2

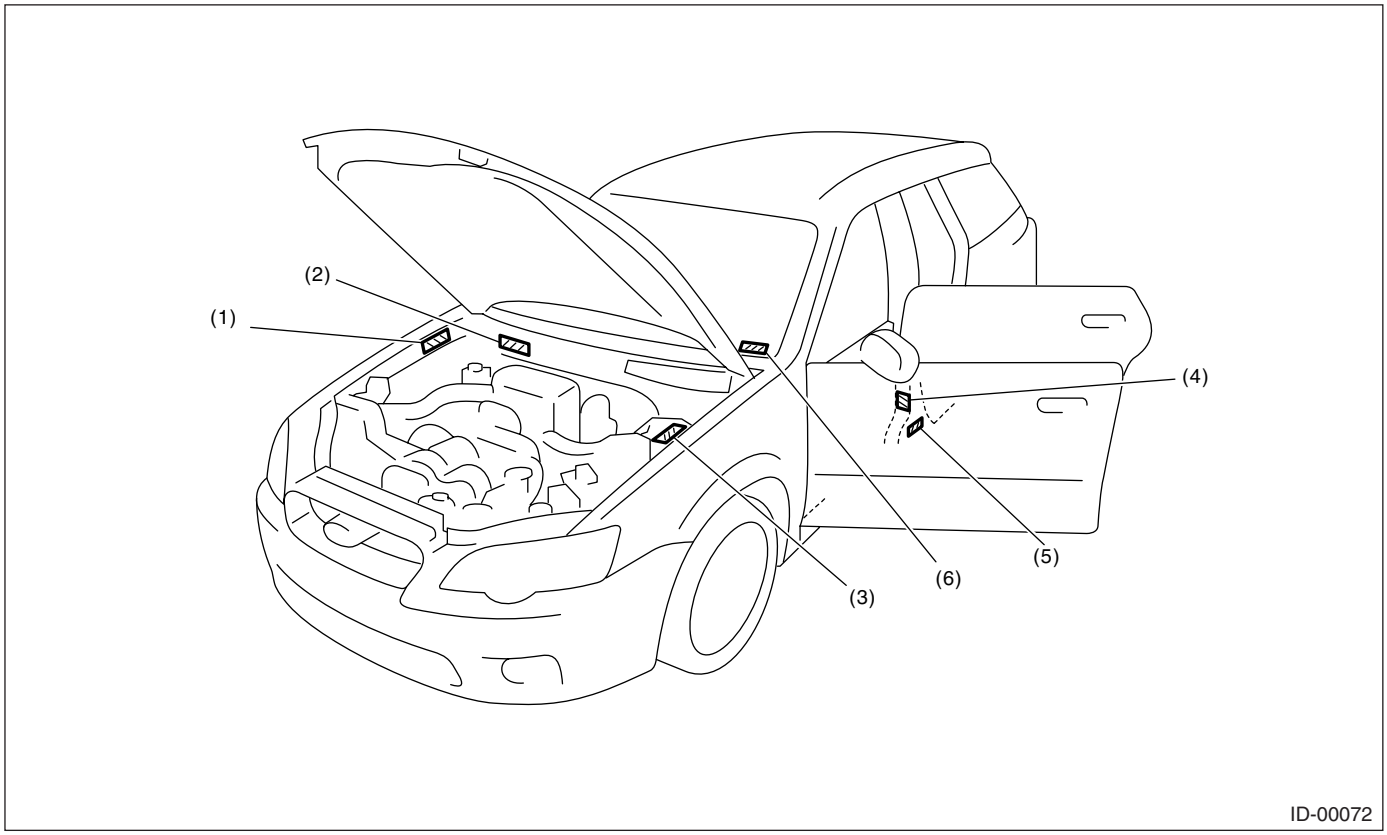
1. Identification

A: IDENTIFICATION

1. IDENTIFICATION NUMBER AND LABEL LOCATIONS

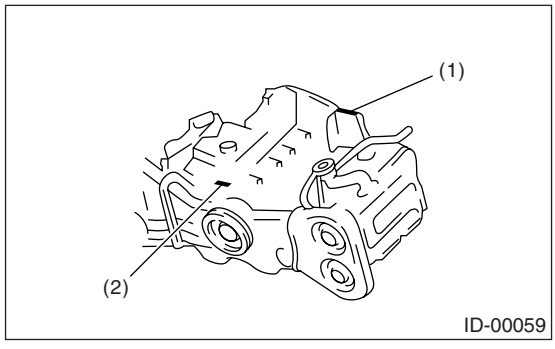
The V.I.N. (Vehicle Identification Numbers) is used to classify the vehicle.

- **POSITIONING OF THE PLATE LABEL FOR IDENTIFICATION**



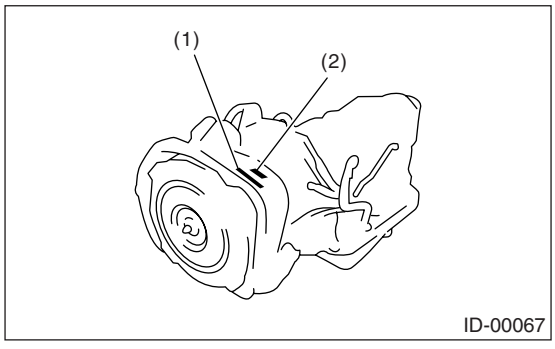
(1) ID plate (EC and EK model)
ADR compliance plate (KA model)
(2) Vehicle identification number (VIN)
(3) Model number plate
(4) Tire inflation pressure label (Driver side) (KA model)
Tire inflation pressure label (Driver side) (Except for KA model)
(5) Saudi Arabia plate (Saudi Arabia model)
Built date plate (KA model)
(6) Vehicle identification number (VIN) (EK and KA model)

- **ENGINE**



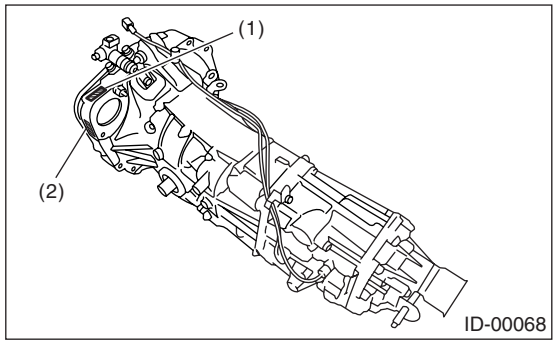
(1) Engine serial number (Punch mark)
(2) Engine type (Crankcase upper side)

- **AUTOMATIC TRANSMISSION**



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

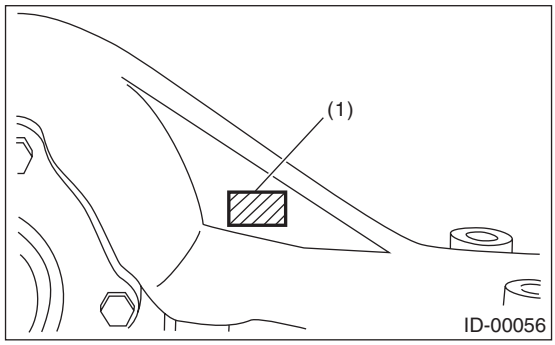
- **MANUAL TRANSMISSION**



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

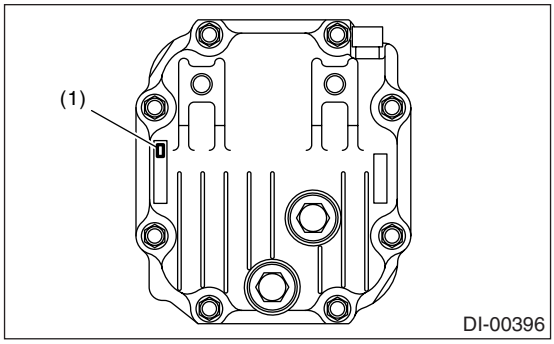
- **REAR DIFFERENTIAL**

T-TYPE



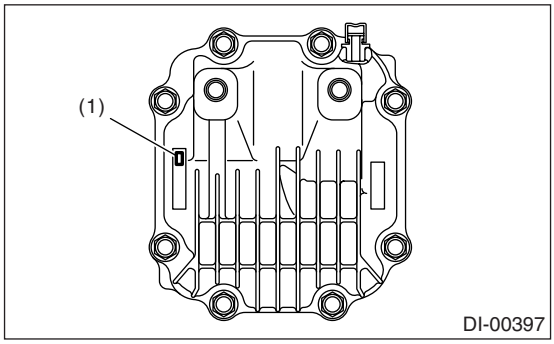
(1) Type (white paint)

VA1-TYPE



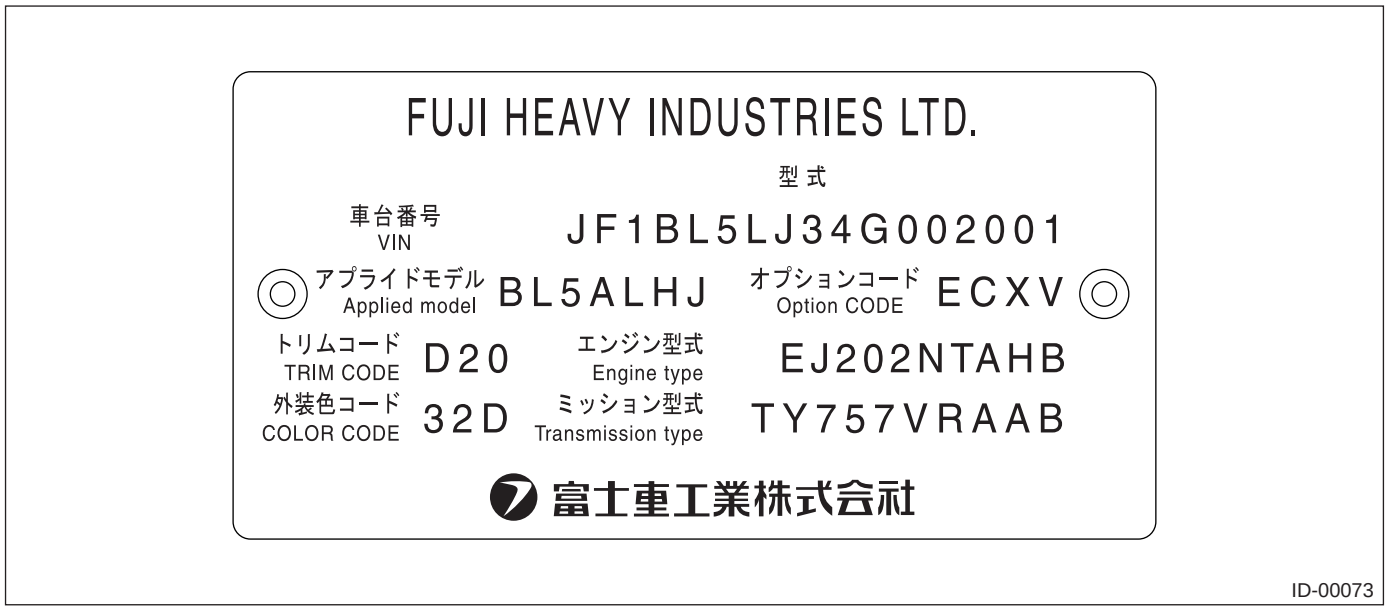
(1) Type (label)

VA2-TYPE



(1) Type (label)

- **MODEL NUMBER PLATE**



2. MEANING OF V.I.N.

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

• EC, EK, KA AND K4 MODEL

]JF1BL5LJ34G002001[

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

Digits	Code	Meaning	Details
1 — 3	JF1	Manufacturer body area	JF1: Passenger car, FHI made (Except for KA OUTBACK model) JF2: Passenger car, FHI made (KA OUTBACK model)
4	B	Car line	LEGACY
5	L	Body type	L: Sedan P: Wagon
6	5	Displacement	5: 2.0 L AWD 9: 2.5 L AWD E: 3.0 L AWD
7	L	Steering position	L: LHD (Left-hand drive model) K: RHD (Right-hand drive model)
8	J	Engine & transmission	J: SOHC MPI 5MT Single range K: SOHC MPI 5MT Dual range L: SOHC MPI 4AT-SS U: DOHC MPI 5AT-SS V: DOHC MPI Turbo 5AT-SS
9	3	Drive type	3: Full-time AWD Single range 4: Full-time AWD Dual range 5: AWD AT A: AWD AT OUTBACK B: Full-time AWD Dual range OUTBACK
10	4	Model year	4: 2004MY
11	G	Factory location	G: FHI (Gunma)
12 — 17	002001	Serial number	From 002001

• KS MODEL

]JF1BL54MX4G002001[

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

Digits	Code	Meaning	Details
1 — 3	JF1	Manufacturer body area	JF1: Passenger car, FHI made
4	B	Car line	LEGACY
5	L	Body type	L: Sedan P: Wagon
6	5	Displacement	5: 2.0 L AWD 9: 2.5 L AWD
7	4	Grade	4: 2.0i 6: 2.5i 8: OUTBACK 2.5 i
8	M	Restraint	M: Manual belts, dual airbag
9	X	Check digit	0 — 9 & X
10	4	Model year	4: 2004MY
11	G	Transmission type	G: Full-time AWD 5MT Single range H: Full-time AWD 4AT J: Full-time AWD 5MT Dual range
12 — 17	002001	Serial number	From 002001

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.

• BL5ALHJ

Digits	Code	Meaning	Details
1	B	Series	LEGACY
2	L	Body type	L: Sedan P: Wagon
3	5	Engine displacement Drive system Suspension system	5: 2.0 L AWD 9: 2.5 L AWD E: 3.0 L AWD
4	A	Model year	A: 2004MY
5	L	Destination	K: Right-hand drive model market L: Left-hand drive model market
6	H	Grade	B: 2.0 GT H: 2.0 i J: 2.5 i L: 3.0 R M: 3.0 R-A N: 3.0 R P: 3.0 R-A R: OUTBACK 2.5 i V: OUTBACK 3.0 R W: OUTBACK 3.0 R-A
7	J	Transmission, fuel feed system	J: SOHC MPI 5MT K: SOHC MPI Dual range 5MT L: SOHC MPI 4AT TIP V: DOHC MPI Turbo 5AT TIP U: DOHC MPI 5AT TIP

The engine and transmission type are as follows:

• ENGINE

EJ202NTAHB

Digits	Code	Meaning	Details
1 and 2	EJ	Engine type	EJ: 4 cylinders EZ: 6 cylinders
3 and 4	20	Displacement	20: 2.0L 25: 2.5L 30: 3.0L
5	2	Fuel feed system	2: D-MPI-NA (SOHC)-B 3: MPI-NA (SOHC) D: MPI-NA (DOHC, H6) X: MPI Twin scroll single turbo
6	N	Detailed specifications	Used when ordering parts. See the parts catalog for details.
7	T	Transmission	L: 5AT without ATF cooler (with warmer function) P: 4AT without ATF cooler (with warmer function) S: 5MT (Flexible type flywheel) T: 5MT (Dual mass type flywheel) V: 4AT with ATF cooler (with warmer function) (H4), 5AT (H6)
8 — 10	AHB	Detailed specifications	Used when ordering parts. See the parts catalog for details.

• TRANSMISSION

TY757VRAAB

Digits	Code	Meaning	Details
1	T	Transmission	T: Transmission
2	Y	Transmission type	Y: Full-time AWD MT center differential V, G: Full-time AWD AT center differential Z: Full-time AWD AT MPT
3 and 4	75	Classification	75: 5MT 1B: 4AT 5C: 5AT
5	7	Series	LEGACY
6	V	Transmission specification	C: Full-time AWD VTD type 5AT L: Full-time AWD MPT type 4AT M: Full-time AWD VTD type 4AT V: Full-time AWD 5MT Single range with viscous coupling center differential X: Full-time AWD 5MT Dual range with viscous coupling center differential
7 — 10	RAAB	Detailed specifications	Used when ordering parts. See the parts catalog for details.

• REAR DIFFERENTIAL

XJ

Code	Reduction gear ratio	LSD
XJ	4.111	None
T2	4.111	None
VB	3.700	None
EZ	3.900	Viscous
XU	3.272	Viscous
CF	4.444	Viscous
XT	3.083	Viscous
JE	4.111	Viscous

• OPTION

ECXV

Digits	Code	Meaning	Details
1 — 2	EC	Destination	EC: For Europe (LHD model) EK: For Europe (RHD model) KS: For GCC counties K4: For Middle and South America KA: For Australia Nothing: For Hong Kong
3	X	Option equipment	A: Vehicle dynamics control, Cruise control, Power pack, 17 inch tire B: Cruise control, Winter pack, 17 inch tire E: Vehicle dynamics control, Cruise control, Power pack F: Cruise control, Winter pack G: Cruise control, 15 inch tire I: Cruise control, Winter pack, Power pack, 17 inch tire K: Cruise control, 17 inch tire S: Cruise control, Winter pack, Power pack U: Cruise control V: 17 inch tire X: Nothing Y: Vehicle dynamics control, Cruise control, Power pack, Winter pack, 17 inch tire Z: Vehicle dynamics control, Cruise control, Power pack, Winter pack 2: Cruise control, Power pack, 17 inch tire 3: Cruise control, Power pack 4: Cruise control, McIntosh audio, Power pack 5: Cruise control, McIntosh audio, Power pack, 17 inch tire
4	V	Option equipment	A: A/C B: A/C, Side airbag, Self levelizer F: A/C, Grade up pack J: A/C, Sunroof K: A/C, Side airbag, Curtain airbag, Navigation system N: A/C, Side airbag, Curtain airbag, Navigation system, Self levelizer, Sunroof O: A/C, Side airbag, Navigation system Q: A/C, Side airbag, Curtain airbag, Sunroof, Grade up pack S: A/C, Self levelizer U: A/C, Sunroof, Self levelizer V: Side airbag W: A/C, Side airbag, Curtain airbag, Sunroof X: nothing Y: A/C, Side airbag, Curtain airbag, Sunroof, Self levelizer Z: A/C, Side airbag

RECOMMENDED MATERIALS

RM

Page

1. Recommended Materials 2

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 operation of the engine and fuel injection system. Use the specified gasoline to correct performance.

• Unleaded gasoline

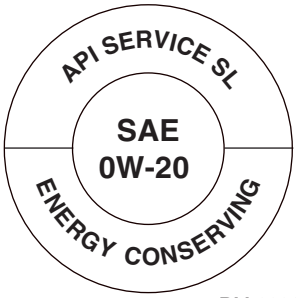
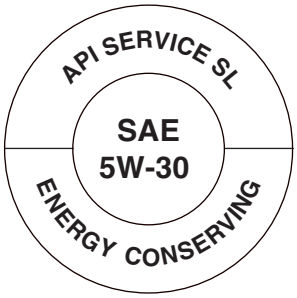
Use unleaded gasoline and not leaded gasoline for the vehicle with catalytic converter installed to reduce air pollution. Using leaded gasoline will damage the catalytic converter.

Model	Use kind	RON
2.0 L, 2.5 L	Unleaded gasoline	More than 95 RON More than 90 RON*
TURBO	Unleaded gasoline	More than 98 RON
3.0 L	Unleaded gasoline	More than 95 RON

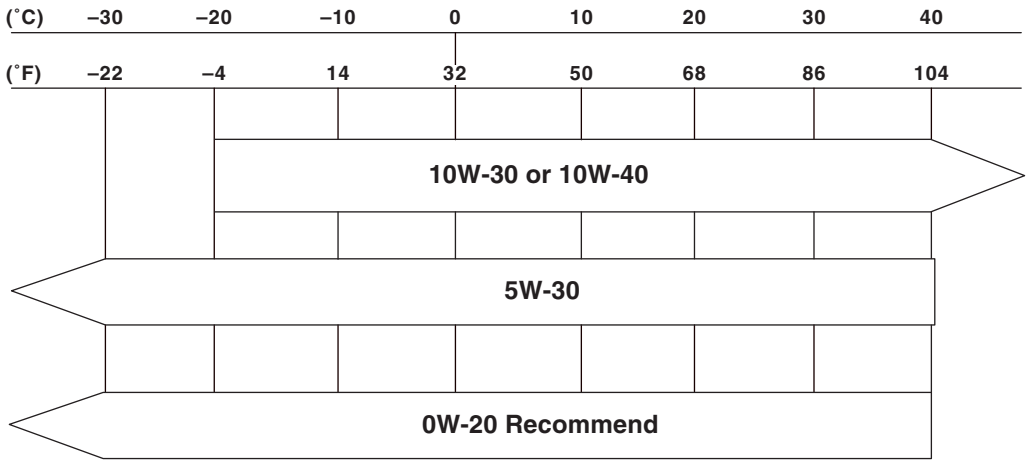
*: KA and KS model

3. LUBRICANTS

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

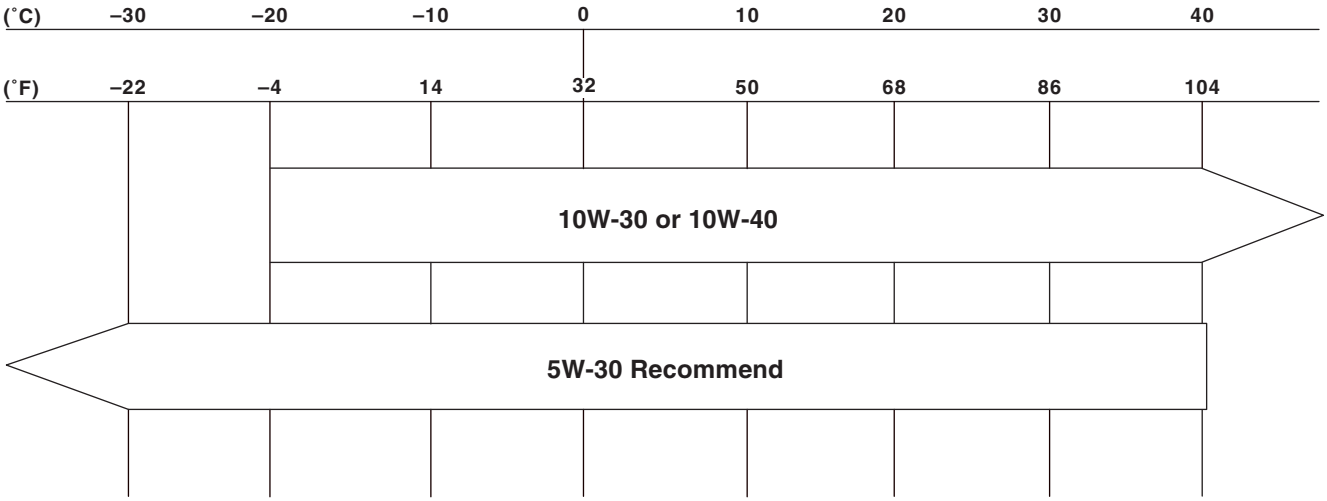
Lubricant	Recommended			Alternative
	API Spec.	CCMC Spec.	ACEA Spec.	API Spec.
Engine oil	SL, SJ Grade “Energy conserving”, or SH  RM-00006  RM-00001  RM-00002	SG, SF
Manual transmission oil	GL-5	—	—	—
AT front differential gear oil	GL-5	—	—	—
Rear differential gear oil	GL-5	—	—	—

SAE viscosity No. and applicable temperature
Engine oil
SOHC model



RM-00007

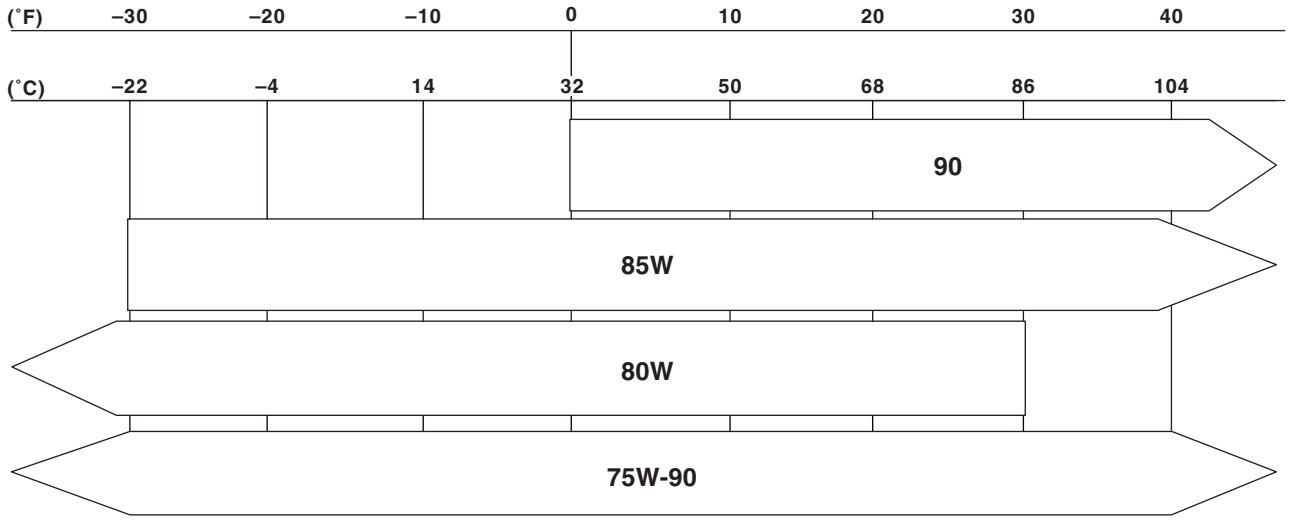
3.0 L and DOHC turbo model



RM-00003

SAE viscosity No. and applicable temperature

Manual transmission oil, rear differential gear oil and AT front differential gear oil



RM-00004

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 the ATF other than recommended or equivalent would be a trouble cause.

Fluid		Recommended	Item number	Alternative	Remarks
Automatic transmission fluid	4AT	SUBARU ATF	K0410Y0700	IDEMITSU: APOLLOIL ATF HP Castrol: Transmax J	If it is impossible to get recommended or alternative ATF, DEXRON III can be used.
	5AT	SUBARU ATF	K0410Y0700	IDEMITSU: ATF HP Castrol: Transmax J	—
Power steering fluid		DEXRON III	—	—	—
Brake fluid		FMVSS No. 116 DOT3	—	—	—
Clutch fluid		FMVSS No. 116 DOT3	—	—	—

5. COOLANT

Use genuine coolant to protect the engine.

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

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	Item number	Alternative
Refrigerant	HFC134a	—	None
Compressor oil	DENSO OIL 8	—	None

7. GREASE

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

Grease	Application point	Recommended	Item number	Alternative
Supplementary lubricants	• Oxygen sensor • Bolts, etc.	Spray type lubricant	—	—
Grease	MT main shaft	CLUTCH GREASE	K0879Y0501	—
	Clutch master cylinder push rod	SILICONE GREASE G-40M	004404003	—
	• Gear shift lever • Select lever • Clutch operating cylinder • Clutch pedal • Brake pedal • Clutch bearing • Clutch release lever	SUNLIGHT2	003602010	—
	• 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	—	—
	Front axle PTJ	NSG301	—	—
	• Front axle EBJ • Rear axle BJ • Rear axle EBJ	NTG2218-M	—	—
	Rear axle DOJ	NKG205	—	—

8. ADHESIVE

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

Adhesive	Application point	Recommended	Item number	Alternative
Adhesive	Windshield, rear window glass, rear quarter glass, rear gate and body	Dow Automotive's Adhesive: Gurit-ESSEX Betaseal 1502 or equivalent Glass primer: Betawipe VP 04604, Betawipe 5001 Paint surface primer: Betaprime 5402	—	—
	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	Item number	Alternative
Seal material	• MT transmission case • Cylinder block • Converter case • DOHC camshaft cap (Turbo model)	THREE BOND 1215	004403007	DOW CORNING's 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 • Cylinder head (Nipple) • Camshaft bowl-shape plug	THREE BOND 1324	004403042	—
	• Rear differential • PCV valve	THREE BOND 1105	004403010	DOW CORNING's No. 7038
	Steering adjusting screw	THREE BOND 1141	004403006	—
	• SOHC camshaft cap • Cam cap (3.0 L model) • Semicircular plug (3.0 L model) • Rocker cover (3.0 L model) • Oil pan (Pan upper) • Block (Pan upper) • Back cover (Front cover, block head, pan upper)	THREE BOND 1280B	K0877YA018	THREE BOND 1217G
	• Front sealing cover • Rear sealing cover	3M Butyl Rubber 8626	—	—

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 state.
- Check if the vehicle before delivery is in a normal state.
- Check for any damage to the vehicle or parts that may have taken place during transportation or storage.
- Check if the vehicle after repair is in a normal state.
- Make sure to provide a complete vehicle to the customer.

For the above reasons, all SUBARU dealers (dealerships) carry out the PDIs before delivering a 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 paints for damage or stains in detail. (2) Visually check the glass and light lenses for any damage, cracks or excessive gaps to the body sheet metal. (3) Visually check the plated parts for any damage.
2. Tire check	(1) Check the tires for damage, abnormal conditions, and dents on the wheels. (2) Check the tire air pressure.
3. Fuse installation	If the vehicle is about to be delivered to the customer, attach a back-up fuse.
4. Air conditioner harness connection	If the vehicle is about to be delivered to the customer, connect air conditioner harness.
5. Check the doors for lock/unlock and open/close operations.	(1) Using the key, check if the trunk lid can be locked or unlocked normally. (2) Open and close all doors to see that there are no abnormal conditions. (3) Operate the power door lock switch to check that the door (rear gate) is locked and unlocked normally.
6. Double lock operation check	Check the double lock for normal operations.
7. Check the operation of child safety lock system	Check that the child safety lock system operates normally.
8. Check the trunk lid for open/close operations.	(1) Operate the trunk lock release lever to check that the trunk opens normally. (2) Operate the opener cancel lever of trunk lock to check that it operates normally. (3) Open and close the trunk lid to see that there are no abnormal conditions.
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.

PROCEDURE	Check point
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. Seat	(1) Check the seat surfaces for stain or dirt. (2) Check the seat installation conditions and functionality.
24. Seat belt	Check the seat belt installation conditions and functionality.
25. Wheel alignment	Check that the wheel alignments are properly adjusted.

CHECKS WITH ENGINE RUNNING

PROCEDURE	Check point
26. Test mode connector	Test mode connectors
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 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 and MD 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. Rear fog light	Check that the rear fog light operates normally.
38. Illumination control	Check that the illumination control operates normally.
39. Window washer	Check that the window washer system operates normally.
40. Wiper	Check that the wiper system operates normally.
41. Power window operation check	Check the power window for normal operations.
42. Cargo fan	Check that the cargo fan operates normally.
43. Sunroof	Check that the sunroof operates normally.
44. Door mirror	Check that the remote control mirror operates normally.

DYNAMIC TEST WITH VEHICLE RUNNING

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

CHECKS AFTER DYNAMIC TEST

PROCEDURE	Check point
51. ATF level	Check that the ATF level is correct.
52. Power steering fluid level	Check that the power steering fluid level is normal.

PROCEDURE	Check point
53. Fluid leak check	Check for fluid/oil leaks.
54. Water leak test	Spray the vehicle with water and check for water leaks.
55. Appearance check 2	(1) Remove the protective coating (if any). (2) Check the body paints for damage and stain. (3) Check the plated parts for damage and rust.

1. APPEARANCE CHECK

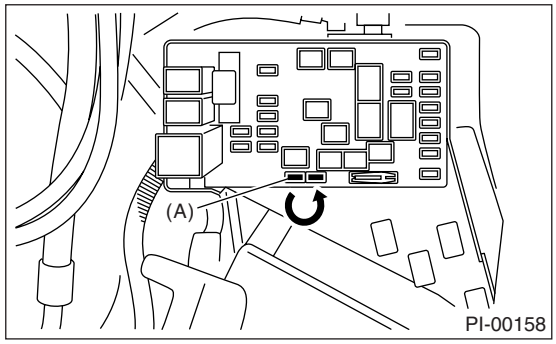
• If the vehicle is covered with protective coating, visually check the vehicle body for damage and dents.
• When the protective coating is removed, visually check the body paints for damage or stains in detail and repair as necessary.
• Visually check the windshield glass, door glasses and light lenses 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, abnormal conditions, and dents on the wheels.
• Check the tire size, spare tire and tire air pressure described on the tire air pressure label (driver's side).

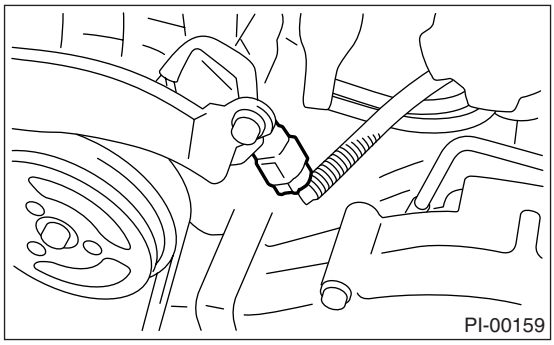
3. FUSE INSTALLATION

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.



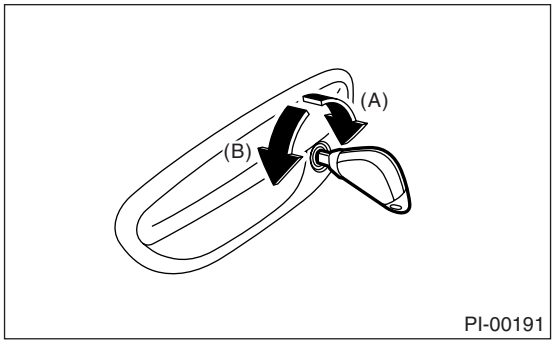
4. CONNECTION OF AIR CONDITIONER HARNESS

A vehicle just delivered has its air conditioner harness disconnected to protect the air conditioner compressor. Connect the harness as shown in the figure. (Except for 3.0 L model)



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

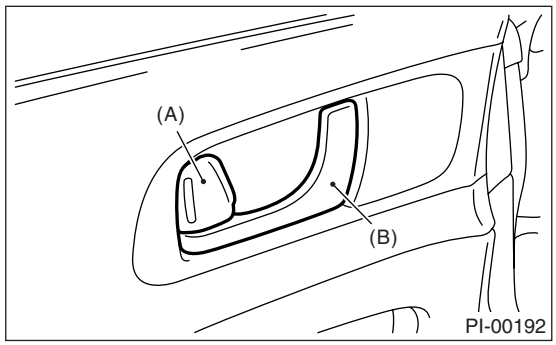
1) Using the key, lock and unlock the door several times to check for normal operation. Open and close the door several times for smooth movement.



(A) Unlock
(B) Lock

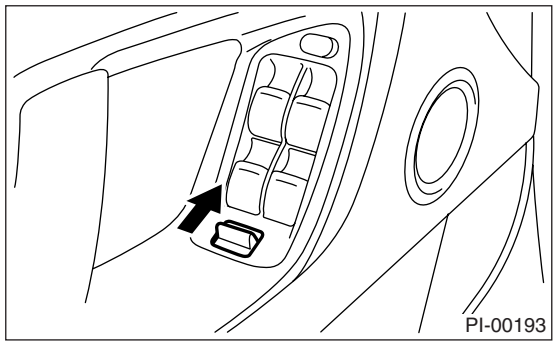
2) Completely close the driver's door, and then check the smooth movement with operating door lock knob from lock to unlock several times.
Set the door lock knob (A) to lock position. Then pull the inner remote (B) to ensure that doors will not open.

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.

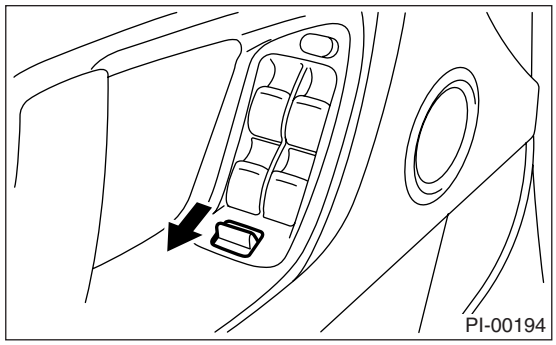


(A) Door lock knob
(B) Inner remote

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.



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



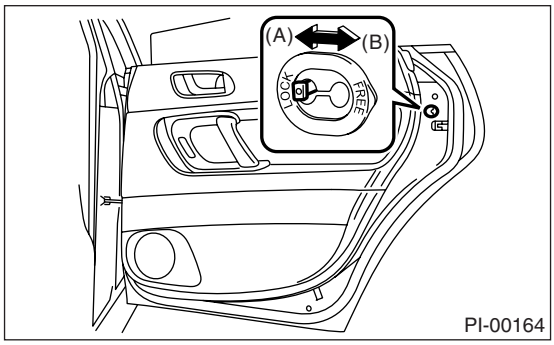
5) Insert the key to ignition switch, and open the driver's side door. Press lock on power door lock. Check that the door is not locked.

6. CHECK DOUBLE LOCK OPERATION

1) Fully open all the windows.
2) Remove the key.
3) Lock all the doors using the door key cylinder or keyless transmitter.
4) Verify that all the doors including rear gate are not unlocked when pressing power door lock switch to unlock side.
5) Verify that the door is not opened when operating door lock knob to unlock position and pulling inner remote. Perform the same check for other doors.
6) Check that all the doors are unlocked when door is unlocked using door key cylinder or keyless transmitter, or ignition switch is turned to ON.

7. CHECK 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 doors will not open.



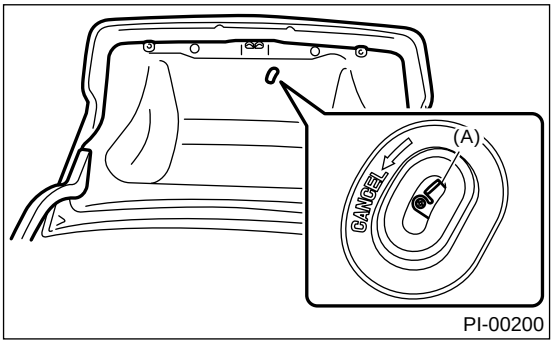
(A) Lock
(B) Unlock

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

8. CHECK TRUNK LID FOR OPEN/CLOSE OPERATIONS

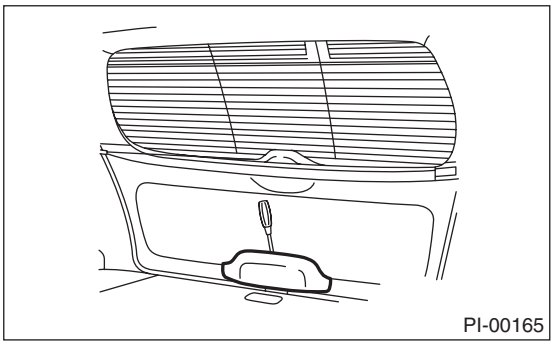
1) Operate the trunk lock release lever to check that the trunk opens normally.
2) Open and close the trunk lid several times for smooth movement.

3) Put the lever (A) in the cancel lever of trunk lid to cancel position, and close the trunk lid. Check that the trunk lid will not open even when the trunk lock release lever is operated. Also, check that the trunk lid will open with keyless transmitter, then put the lever back.

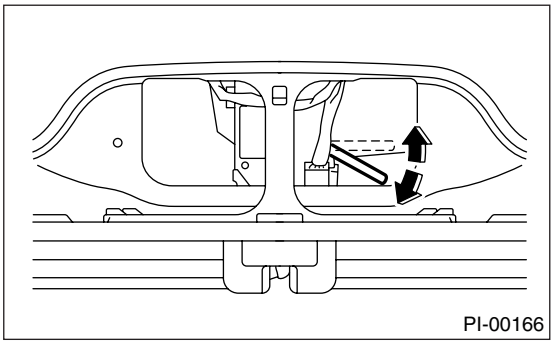


9. CHECK REAR GATE FOR LOCK/UNLOCK AND OPEN/CLOSE OPERATIONS

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.

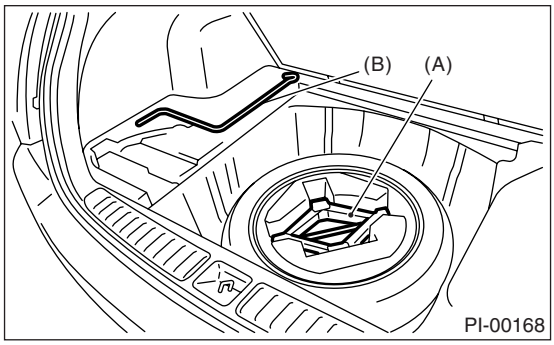


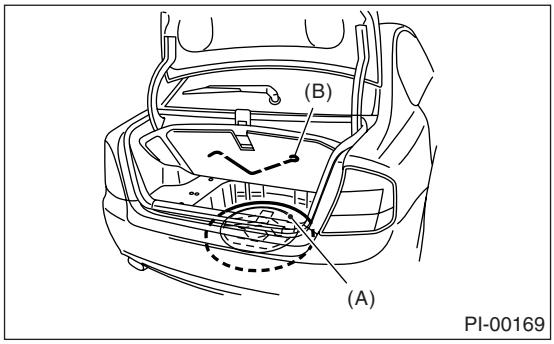
10. OPERATION CHECK OF FUEL LID OPENER LOCK RELEASE LEVER

Operate the fuel lid opener and verify 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

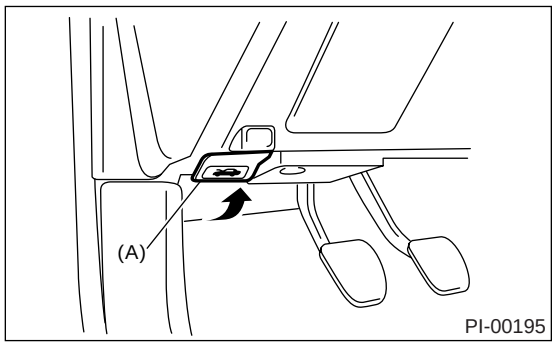




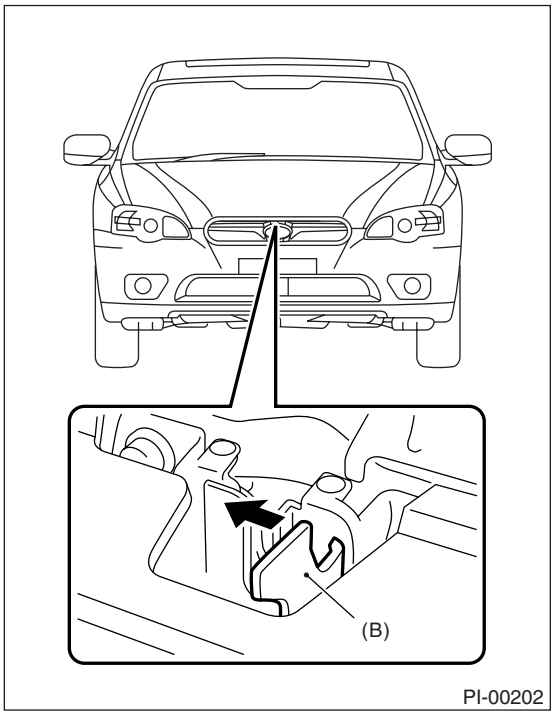
(A) Jack
(B) Jack handle

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.

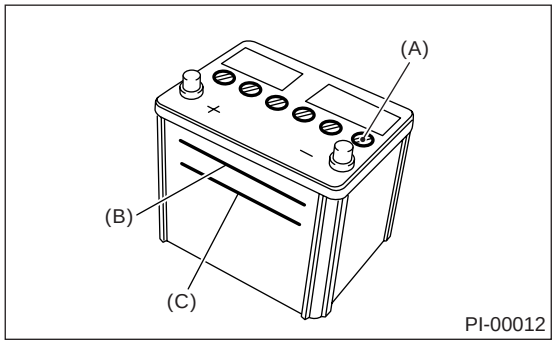


Operate the lever (B) and check that the front hood is opened normally. Support the front hood with hood stay.



13.BATTERY

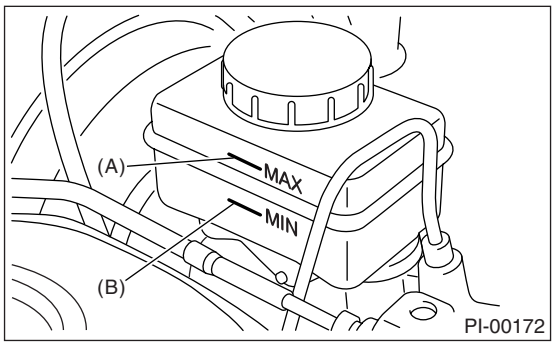
Check the battery terminals to make sure that there are no rust or corrosions due to fluid leaks. Check that the battery caps are securely tightened.



(A) Cap
(B) Upper level
(C) Lower level

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.

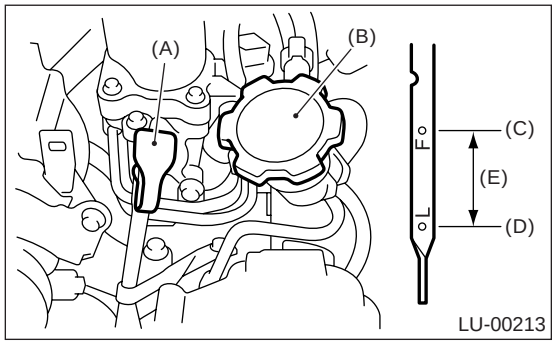


(A) MAX. level
(B) MIN. level

15.ENGINE OIL

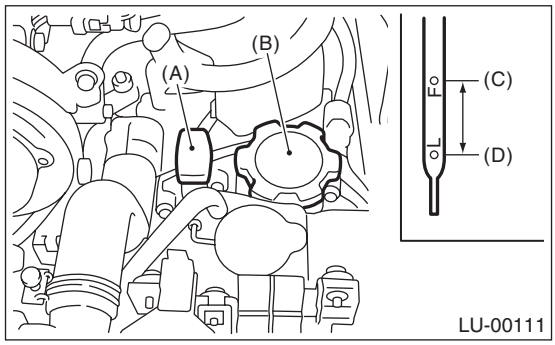
Check the engine oil amount. If the amount of oil is insufficient, check that no leaks are found. Then, add the necessary amount of the specified engine oil.

- 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)

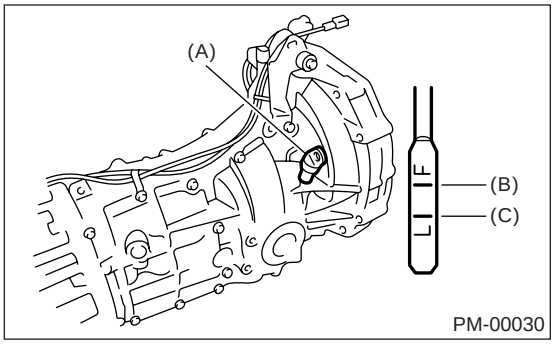
• 3.0 L model



(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.

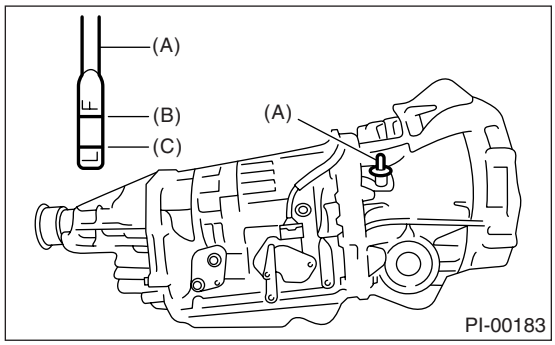


(A) Oil level gauge
(B) Upper level
(C) Lower level

17.AT FRONT DIFFERENTIAL OIL

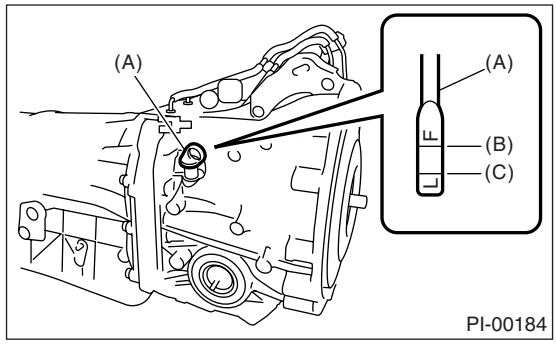
Check that the AT front differential oil level is normal. If the amount of oil is insufficient, check that no leaks are found. Then, add the necessary amount of the specified AT front differential oil.

• 4AT model



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

• 5AT model



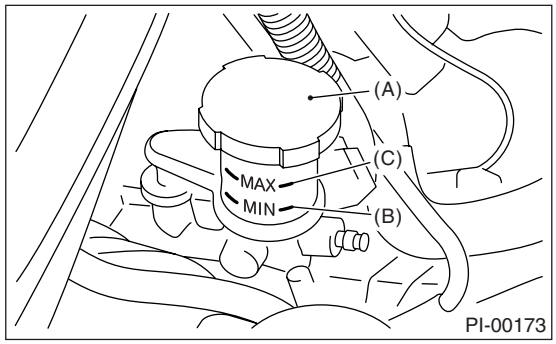
(A) Oil level gauge
(B) Upper level
(C) Lower level

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.

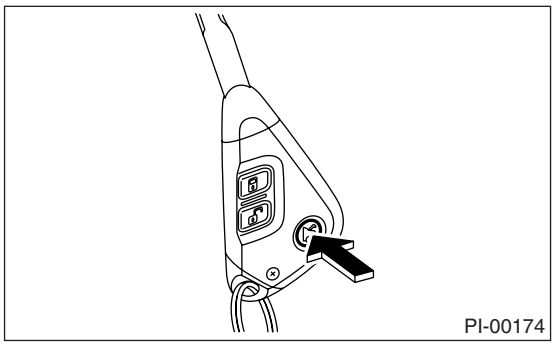
21.FRONT HOOD LATCH CHECK

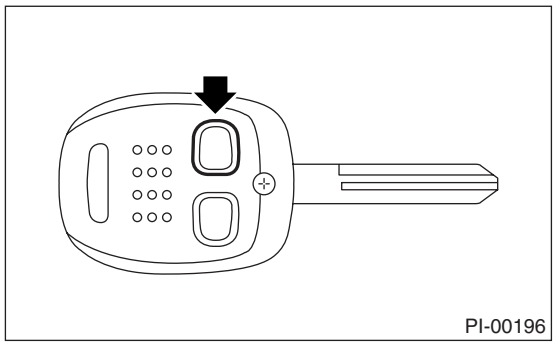
Retract the hood stay and close the front hood. Check that the front hood is securely latched.

22.KEYLESS ENTRY SYSTEM

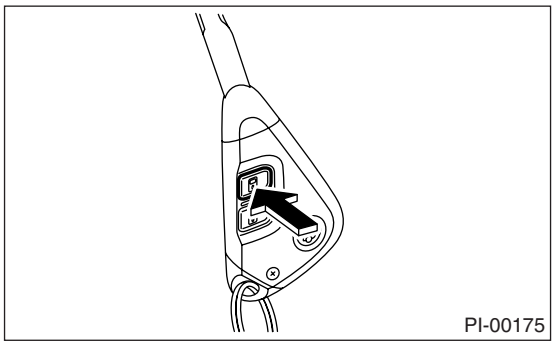
NOTE:
The following inspections show the initial settings. When the settings are different from the initial settings, use Subaru Select Monitor to check the details of each setting for inspections. <Ref. to LAN(diag)-26, OPERATION, Read Current Data.>

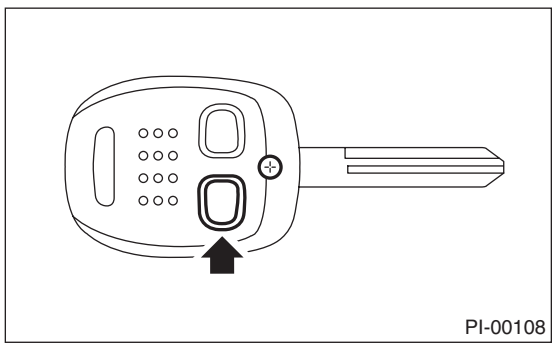
1) Fully open all the door windows.
2) Remove the key from the ignition switch and close all the doors including rear gate.
3) Press the “LOCK” or “UNLOCK” button on the keyless transmitter 1 sec. or more and check if the door window of driver seat is opened/closed.
4) Press the trunk open button (except for EK model) or “UNLOCK” button (EK model) for more than one second. Check if the trunk is unlocked and the hazard light flashes twice.



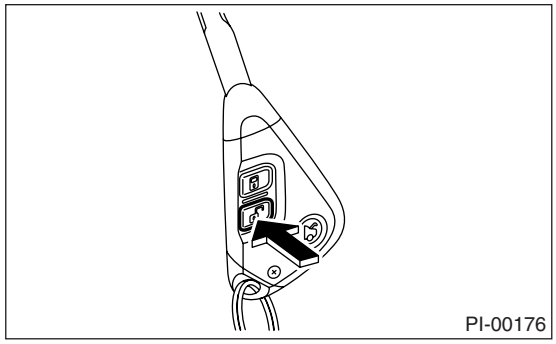


5) Press the “LOCK” button on the keyless transmitter with the trunk lock opened. Check if the all doors are locked, hazard light blinks five times and warning shows trunk open.
6) Press the “LOCK” button momentarily on the keyless transmitter. Check that all the doors are locked and room light goes off.





7) Press the “UNLOCK” button momentarily on the keyless transmitter. Check that the driver’s door is unlocked and hazard light blinks twice and room light is lit for 15 seconds.
And press the “UNLOCK” button momentarily again in 5 seconds (except for EK model). Check that all the doors including rear gate are unlocked.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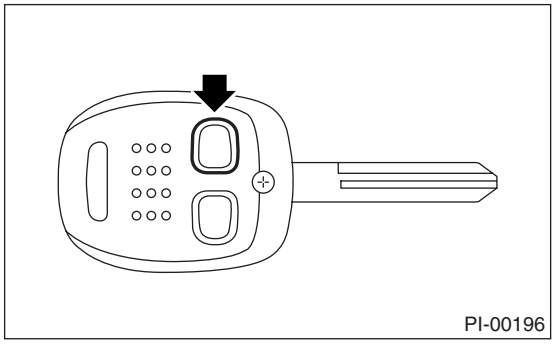

PI-00196

8) Close all the doors including rear gate and press the “LOCK” button on the keyless transmitter. Press the “OPEN” button on the keyless transmitter and wait for 25 seconds. Check if all the doors including rear gate are locked. (Except for EK model)

23.SEAT

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.

24.SEAT BELT

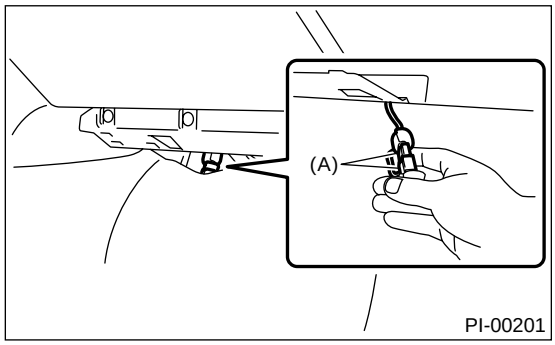
1) Check installation condition of seat belt.
2) Pull out the seat belt and then release it. Check that the belt retracts smoothly.

25.WHEEL ALIGNMENT

Check the wheel alignment. <Ref. to FS-8, Wheel Alignment.> <Ref. to RS-8, Wheel Alignment.>

26.TEST MODE CONNECTOR

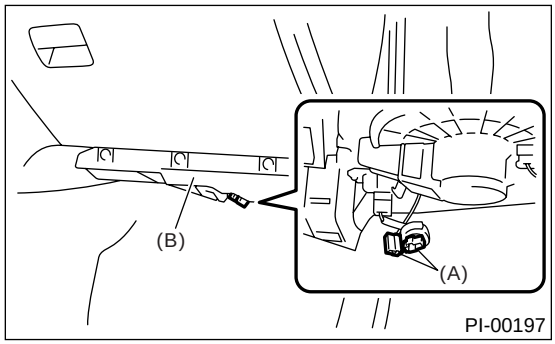
Turn the ignition switch to ON and check that the malfunction indicator light starts blinking. If the light blinks, return the ignition key to LOCK. Pull out the test mode connector from the back of glove box lower cover, and disconnect the test mode connector. Then, turn the ignition key to ON again.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



PI-00201

(A) Test mode connector (green)

NOTE:
If it is difficult to pull out the test mode connector, remove the glove box lower cover, and disconnect the test mode connector.



PI-00197

(A) Test mode connector (green)
(B) Glove box lower cover

27.IMMOBILIZER SYSTEM

1) Check that the engine starts with all keys that are equipped on vehicle.
2) 60 seconds after turning the 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 sound to see if no noises are observed. Check the 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. Also check the CD, MD unit operations.

33.NAVIGATION SYSTEM

1) Check all display function for normal operation. (For operating procedure, refer to operating manuals.)
2) Check the map disc (DVD) are provided on vehicle.
3) Check that the navigation systems operate normally.

34.FRONT ACCESSORY POWER SUPPLY SOCKET

1) Check operation for 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.REAR FOG LIGHT

Check that the rear fog light operates normally.

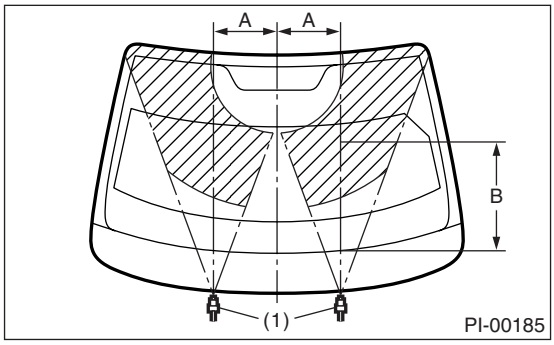
38.ILLUMINATION CONTROL

Check that the illumination control operates normally.

39.WINDOW WASHER

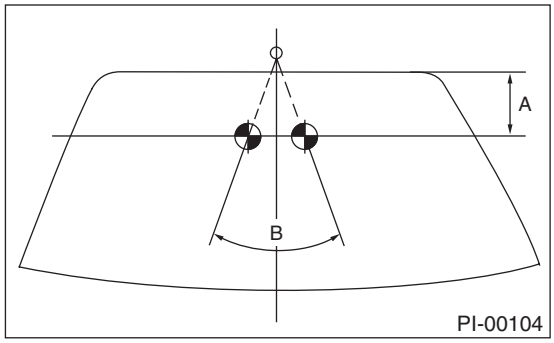
Check that the window washer system injects washer fluid to the specified area of the windshield shown in the figure.

Front injection position:
A: 250 mm (9.84 in)
B: 435 mm (17.1 in)



(1) Nozzle

Rear injection position:
Wagon model
A: 70 mm (2.8 in)
B: 70°



40.WIPER

Check the front and rear wipers for normal operations.

41.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.

42.CARGO FAN

Check the cargo fan for normal operations.

43.SUNROOF

Check the sunroof for normal operations.

44.DOOR MIRROR

Check the remote control mirror for normal operations.

45.BRAKE TEST

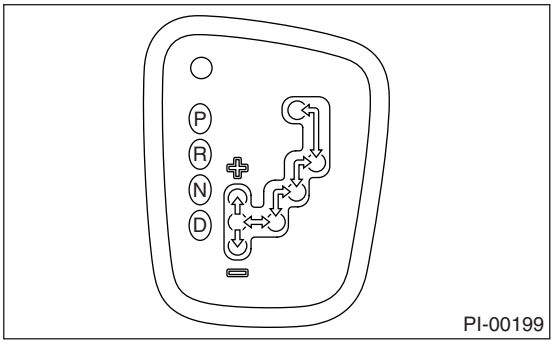
Check the foot brake for normal operations.

46.PARKING BRAKE

Check the parking brake for normal operations. When applying the parking brake 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.

47.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 OFF, check if the ignition key switch cannot be removed.
6) Set the AT select 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

48.HEATER & VENTILATION

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

49.AIR CONDITIONER

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

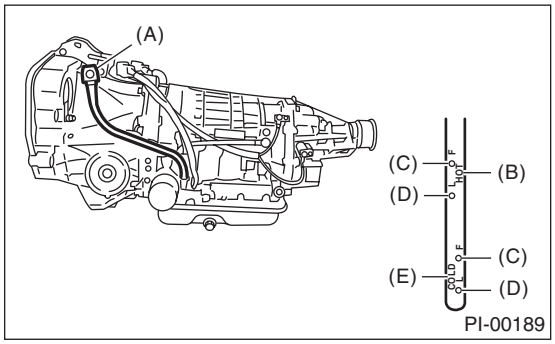
50.CRUISE CONTROL

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

51.ATF LEVEL

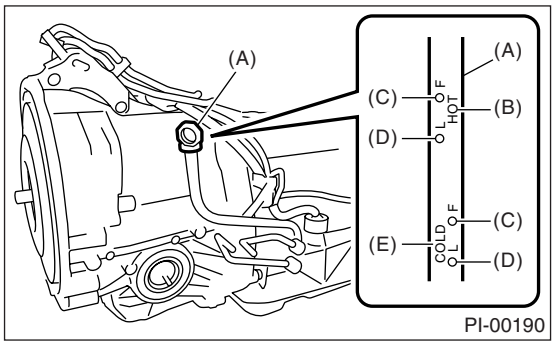
While engine is idling, check that the ATF level is normal. If the amount is insufficient, check that no leaks are found. Then add the necessary amount of the specified ATF.

- 4AT



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

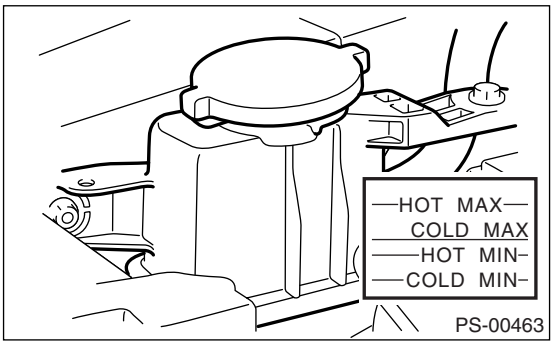
- 5AT



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

52.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.



53.FLUID LEAK CHECK

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

54.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 to 25 ℓ (5.3 to 6.6 US gal, 4.4 to 5.5 Imp gal) per minute.

When spraying water on areas adjacent to the floor and wheel house, increase the pressure. When 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) 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.

55.APPEARANCE CHECK 2

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

NOTE:

• Use of steam facilitates peeling off the warp guard.

• For the vehicle left for a long time or at low temperature, sprinkle some water heated 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 exists 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 lamp lens for cracks.

6) Peel the protective tape, vinyl wrapping and identification seal attached to the following places.
- Seat
- 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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1. General Description

A: GENERAL DESCRIPTION

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

2. Schedule

A: MAINTENANCE SCHEDULE 1

1. EUROPE AREA

For periodic maintenance of over 120,000 km (75,000 miles) or 96 months, carry out inspection by referring to the following table. For a maintenance period gone beyond these tables, apply them repeatedly as a set of 120,000 km (75,000 miles) or 96 months.

			Maintenance interval [Number of months or km (miles), whichever occurs first]										
	Months				12	24	36	48	60	72	84	96	Remarks
	× 1,000 km		1.6	5	15	30	45	60	75	90	105	120	
	× 1,000 miles		1	3	9	19	28	38	47	56	66	75	
1	Engine oil	3.0 L		R	R	R	R	R	R	R	R	R	
		Others			R	R	R	R	R	R	R	R	
2	Engine oil filter	3.0 L		R	R	R	R	R	R	R	R	R	
		Others			R	R	R	R	R	R	R	R	
3	Spark plug	Others									R		
		3.0 L				R		R		R		R	
4	Drive belt(s)				I	I	I	I	I	I	I	I	For 3.0 L model, replace every 160,000 km (100,000 miles).
5	Camshaft drive belt										R		
6	Fuel line					I		I		I		I	
7	Air cleaner element				I	R	I	R	I	R	I	R	
8	Cooling system					I		I		I		I	
9	Coolant					R		R		R		R	
10	Clutch system					I		I		I		I	
11	Transmission oil					I		R		I		R	
12	ATF					I		R		I		R	
13	Front & rear differential					I		R		I		R	
14	Brake line					I		I		I		I	
15	Brake fluid					R		R		R		R	
16	Disc brake pads & discs				I	I	I	I	I	I	I	I	
17	Parking brake					I		I		I		I	
18	Suspension					I		I		I		I	
19	Wheel bearing											(I)	
20	Axle boots & joint				I	I	I	I	I	I	I	I	
21	Steering system					I		I		I		I	

Symbols used:
R: Replace
I: Inspection
(I): Recommended service for safe vehicle operation.

NOTE:
(1) When the vehicle is used in extremely dusty conditions, the air cleaner element should be replaced more often.
(2) ATF filter is maintenance free part. ATF filter needs replacement when it is physically damaged or ATF leaked.
(3) Periodic inspection and replacement of the camshaft drive chains on the 3.0 L models is not required.

2. EXCEPT FOR EUROPE AREA

For periodic maintenance of over 50,000 km (30,000 miles) or 48 months, carry out inspections by referring to the following tables. For a maintenance period gone beyond these tables, apply them repeatedly as a set of 50,000 km (30,000 miles) or 48 months.

			Maintenance interval [Number of months or km (miles), whichever occurs first]					
	Months			12	24	36	48	Remarks
	× 1,000 km		5	12.5	25	37.5	50	
	× 1,000 miles		3	7.5	15	22.5	30	
1	Engine oil	3.0 L	R	R	R	R	R	
		Others		R	R	R	R	
2	Engine oil filter	3.0 L	R	R	R	R	R	
		Others		R	R	R	R	

For periodic maintenance of over 100,000 km (60,000 miles) or 48 months, carry out inspections by referring to the following tables. For a maintenance period gone beyond these tables, apply them repeatedly as a set of 100,000 km (60,000 miles) or 48 months.

			Maintenance interval [Number of months or km (miles), whichever occurs first]					
	Months			12	24	36	48	Remarks
	× 1,000 km		1.6	25	50	75	100	
	× 1,000 miles		1	15	30	45	60	
3	Spark plugs	Turbo and 3.0 L					R	
		2.5 L, 2.0 L non-turbo		R	R	R	R	
4	Drive belt(s)			I	I	I	I	For 3.0 L model, replace every 160,000 km (100,000 miles).
5	Camshaft drive belt						R	
6	Fuel line				I		I	
7	Air cleaner element			I	R	I	R	
8	Cooling system				I		I	
9	Coolant				R		R	
10	Clutch system			I	I	I	I	
11	Transmission oil				R		R	
12	ATF				R		R	
13	Front & rear differential oil				R		R	
14	Brake line			I	I	I	I	
15	Brake fluid				R		R	
16	Disc brake pads & discs			I	I	I	I	
17	Parking brake			I	I	I	I	
18	Suspension				I		I	
19	Wheel bearing						(I)	
20	Axle boots & joint			I	I	I	I	
21	Steering system (Power steering)			I	I	I	I	

Symbols used:
R: Replace
I: Inspection
(I): Recommended service for safe vehicle operation.

NOTE:
(1) When the vehicle is used in extremely dusty conditions, the air cleaner element should be replaced more often.
(2) ATF filter is maintenance free part. ATF filter needs replacement when it is physically damaged or ATF leaked.
(3) Periodic inspection and replacement of the camshaft drive chains on the 3.0 L models is not required.

B: MAINTENANCE SCHEDULE 2

1. EUROPE AREA

Item	Every	Repeat short distance drive	Repeat rough/muddy road drive	Extremely cold weather area	Salt or other corrosive used or coastal area	High humidity or mountain area	Repeat towing trailer
Engine oil		Replace more frequently		Replace more frequently			Replace more frequently
Engine oil filter		Replace more frequently		Replace more frequently			Replace more frequently
Fuel line	12 months				I		
	15,000 km						
	9,000 miles						
Transmission oil							Replace more frequently
ATF							Replace more frequently
Front & rear differential oil							Replace more frequently
Brake line	12 months	I	I		I		I
	15,000 km						
	9,000 miles						
Brake fluid	12 months					R	
	15,000 km						
	9,000 miles						
Brake pads	12 months	I	I		I		I
	15,000 km						
	9,000 miles						
Brake linings and drums	12 months	I	I		I		I
	15,000 km						
	9,000 miles						
Parking brake	12 months	I	I		I		I
	15,000 km						
	9,000 miles						
Suspension	12 months		I	I	I		
	15,000 km						
	9,000 miles						
Axle boots & joints	12 months	I	I		I		I
	15,000 km						
	9,000 miles						
Steering system (Power steering)	12 months		I	I	I		
	15,000 km						
	9,000 miles						

2. EXCEPT FOR EUROPE AREA

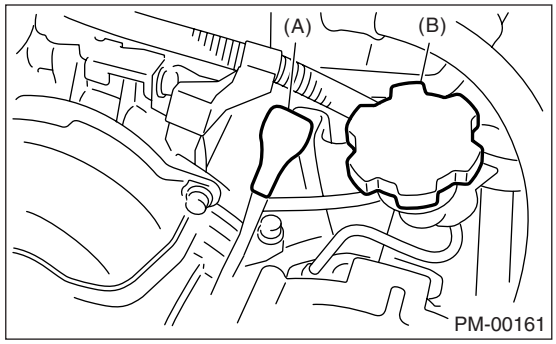
Item	Every	Repeat short distance drive	Repeat rough/muddy road drive	Extremely cold weather area	Salt or other corrosive used or coastal area	High humidity or mountain area	Repeat towing trailer
Engine oil		Replace more frequently		Replace more frequently			Replace more frequently
Engine oil filter		Replace more frequently		Replace more frequently			Replace more frequently
Fuel line	6 months				I		
	12,500 km						
	7,500 miles						
Transmission oil							Replace more frequently
ATF							Replace more frequently
Front & rear differential oil							Replace more frequently
Brake line	6 months	I	I		I		I
	12,500 km						
	7,500 miles						
Brake fluid	12 months					R	
	25,000 km						
	15,000 miles						
Brake pads	6 months	I	I		I		I
	12,500 km						
	7,500 miles						
Brake linings and drums	6 months	I	I		I		I
	12,500 km						
	7,500 miles						
Parking brake	6 months	I	I		I		I
	12,500 km						
	7,500 miles						
Suspension	6 months		I	I	I		
	12,500 km						
	7,500 miles						
Axle boots & joints	6 months	I	I		I		I
	12,500 km						
	7,500 miles						
Steering system (Power steering)	6 months		I	I	I		
	12,500 km						
	7,500 miles						

3. Engine Oil

A: REPLACEMENT

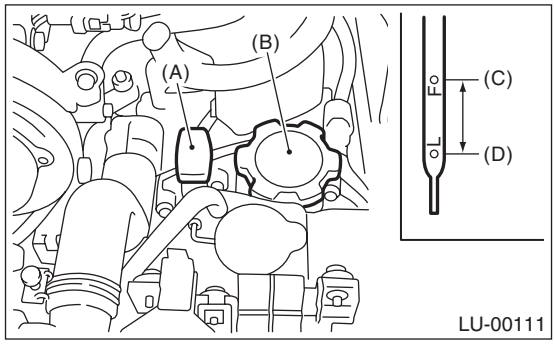
1) Open the engine oil filter cap for quick draining of engine oil.

- Except for 3.0 L model



(A) Oil level gauge
(B) Oil filler cap

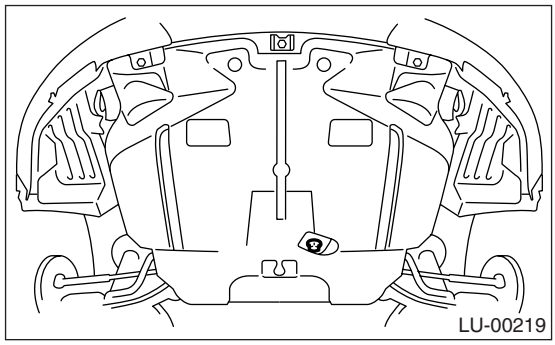
- 3.0 L model



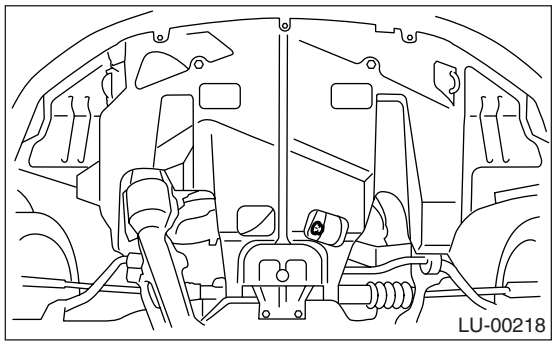
(A) Oil level gauge
(B) Oil filler cap
(C) Upper level
(D) Lower level

2) Drain the engine oil by removing engine oil drain plug.

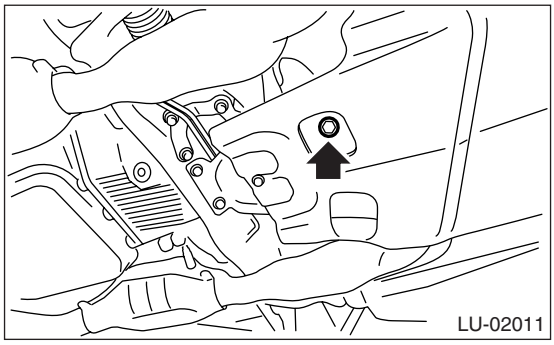
- DOHC turbo model



- 2.0 L non-turbo and 2.5 L model



- 3.0 L model

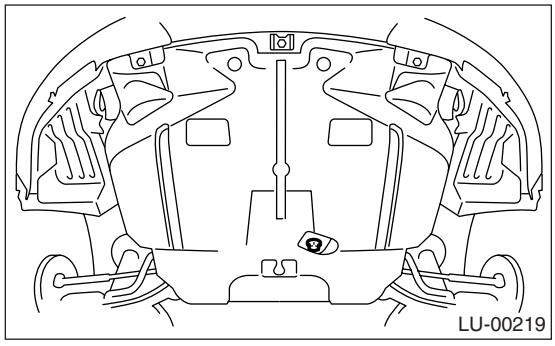


3) Tighten the engine oil drain plug after draining engine oil.

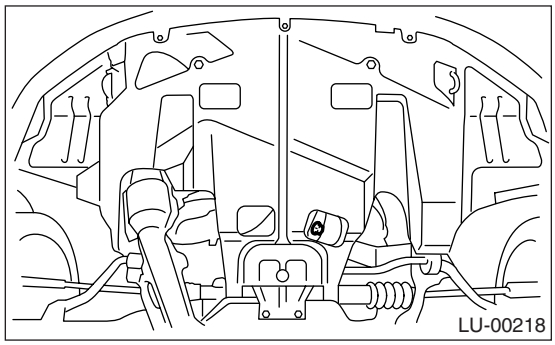
NOTE:
Use a new drain plug gasket.

Tightening torque:
44 N·m (4.5 kgf-m, 33 ft-lb)

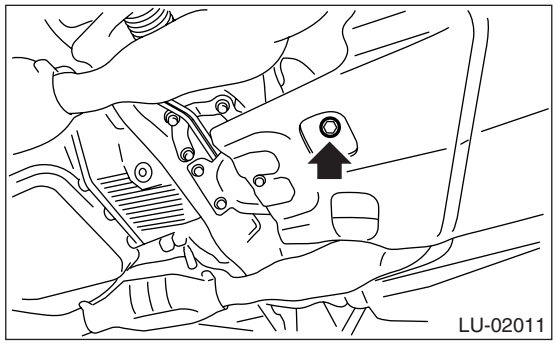
- DOHC turbo model



- 2.0 L non-turbo and 2.5 L model



• 3.0 L model



4) Fill engine oil through level gauge up to the center between upper level and lower level. Place the vehicle on a level surface when checking oil level. Use engine oil of proper quality and viscosity, selected in accordance with following.

Recommended oil:
Refer to "RM" section. <Ref. to RM-3, LUBRICANTS, RECOMMENDED MATERIALS, Recommended Materials.>

Engine oil capacity

Except for 3.0 L model
Upper level:
Approx. 4.0 ℓ (4.2 US qt, 3.5 Imp qt)
Lower level:
Approx. 3.0 ℓ (3.2 US qt, 2.6 Imp qt)

3.0 L model
Upper level:
Approx. 5.5 ℓ (5.8 US qt, 4.8 Imp qt)
Lower level:
Approx. 4.5 ℓ (4.8 US qt, 4.0 Imp qt)

The proper viscosity oil make the engine ideal temperature, and cranking speed increased by reducing viscaus friction in hot condition.

CAUTION:
When replenishing oil, it does not matter if the oil to be added is a different brand from that in the engine; however, use oil having the API classification and SAE viscosity No. designated by SUBARU.

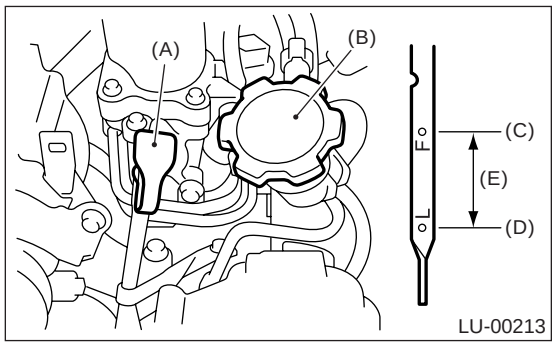
NOTE:
If the vehicle is used in areas with very high temperatures or for other heavy duty applications, the following viscosity oils must be used: API classification: SL, SJ or SH
SAE Viscosity No.: 30, 40, 10W-50, 20W-40, 20W-50.

5) Close the engine oil filler cap.
6) Start the engine and warm it up for a time.
7) After the engine stops, recheck the oil level. <Ref. to PM-8, INSPECTION, Engine Oil.>

B: INSPECTION

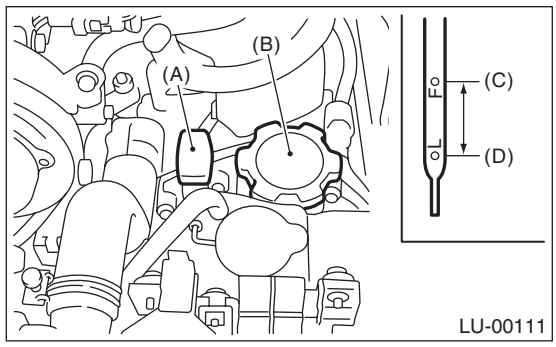
1) Park the vehicle on a level surface.
2) Remove the oil level gauge and wipe it clean.
3) Reinsert the level gauge all the way. Be sure that the level gauge is correctly inserted and in the proper orientation.
4) Remove it again and note the reading. If the engine oil level is below the "L" line, add oil to bring the level up to the "F" line.

• Except for 3.0 L model



(A) Oil level gauge
(B) Oil filler cap
(C) Upper level
(D) Lower level
(E) Approx. 1 ℓ (1.1 US qt, 0.9 Imp qt)

• 3.0 L model



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

5) After turning off the engine, wait a few minutes for the oil to drain back into the oil pan before checking the level.
6) Just after driving or while the engine is warm, engine oil level may show in the range between the "F" line and the notch mark. This is caused by thermal expansion of engine oil.
7) To prevent overfilling the engine oil, do not add oil above the "F" line when the engine is cold.

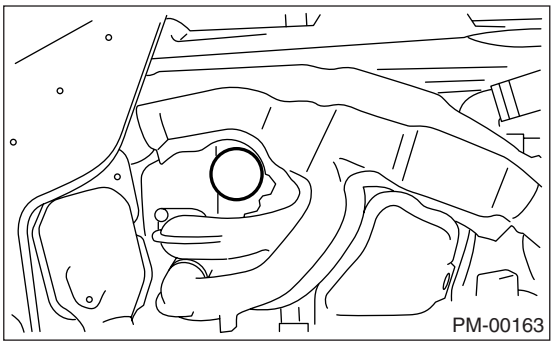
4. Engine Oil Filter

A: REPLACEMENT

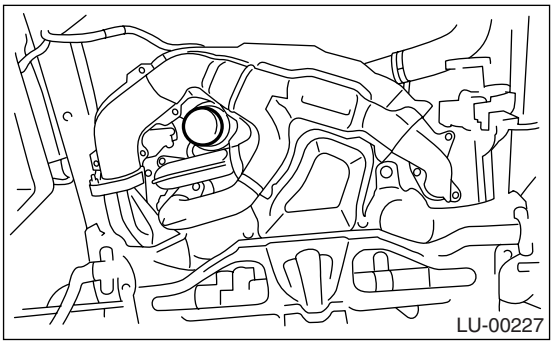
1) Remove the under cover.
2) Remove the oil filter using ST.

ST 18332AA000 OIL FILTER WRENCH (Outer diameter: 68 mm (2.68 in))
ST 18332AA010 OIL FILTER WRENCH (Outer diameter: 65 mm (2.56 in))

- 2.0 L non-turbo and 2.5 L model

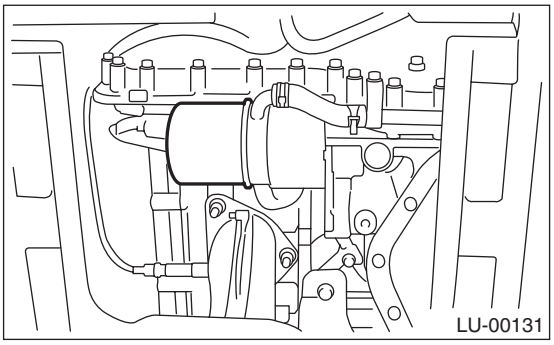


- Turbo model



ST 498547000 OIL FILTER WRENCH

- 3.0 L model



3) Obtain a new oil filter and apply a thin coat of engine oil to the seal rubber.
4) Install the oil filter by turning it by hand, being careful not to damage seal rubber.
5) Tighten more (approx. 1 turn for oil filter 68 mm (2.68 in) in outer diameter, approx. 3/4 turn for oil filter 65 mm (2.56 in) in outer diameter) after the seal rubber contacts the cylinder block. Do not tighten excessively, or oil may leak.
6) After installing the oil filter, run the engine and make sure that no oil is leaking around seal rubber.

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

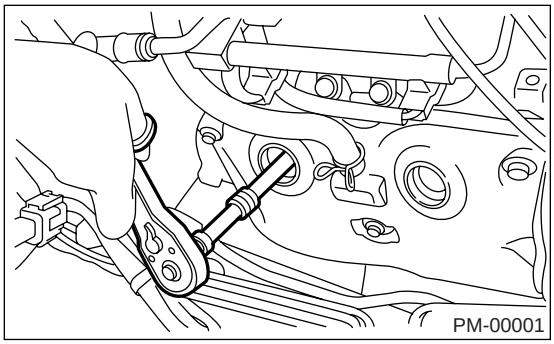
7) Check the engine oil level. <Ref. to PM-8, INSPECTION, Engine Oil.>

5. Spark Plug

A: REPLACEMENT

1. SOHC MODEL

1) Remove the intake duct and intake chamber.
2) Remove the battery.
3) Disconnect the spark plug cord.
4) Remove the spark plug with a spark plug socket.



5) Tighten the new spark plug lightly with hand, and then secure with a spark plug socket to the specified torque.

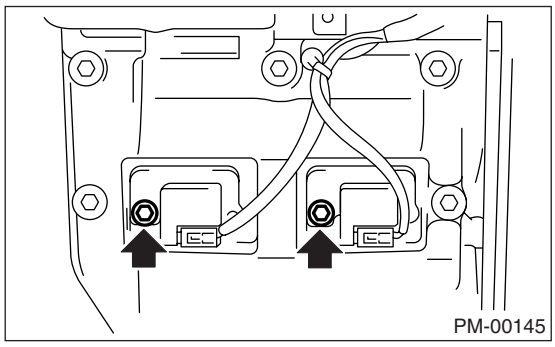
Recommended spark plug:
2.5 L EC, EK model
NGK: PFR5B-11
Except for 2.5 L EC, EK model
CHAMPION: RC10YC4

Tightening torque:
21 N·m (2.1 kgf-m, 15.2 ft-lb)

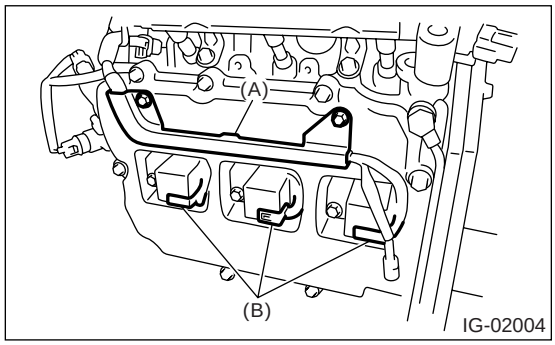
NOTE:
• Be sure to place the gasket between the cylinder head and spark plug.
• If the torque wrench is not available, tighten the spark plug until gasket contacts cylinder head; then tighten further 1/4 to 1/2 turns.

2. DOHC MODEL

1) Remove the battery and battery carrier.
2) Remove the air cleaner case.
3) Detach the connector from ignition coil.
4) Remove the ignition coil.
• Except for 3.0 L model

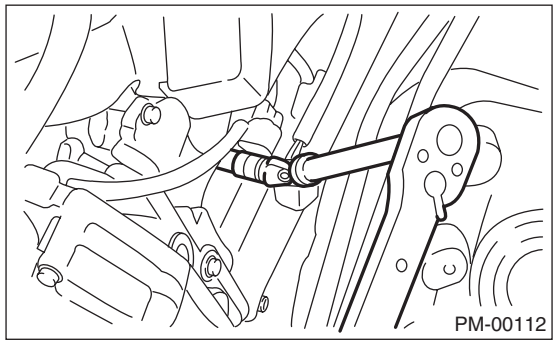


• 3.0 L model



(A) Bracket
(B) Connector

5) Remove the spark plug with a spark plug socket.



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

Recommended spark plug:
NGK: ILFR6B

Tightening torque:
21 N·m (2.1 kgf-m, 15.2 ft-lb)

7) Tighten the ignition coil.

Tightening torque:
16 N·m (1.6 kgf-m, 11.7 ft-lb)

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

6. V-belt

A: INSPECTION

1. EXCEPT FOR 3.0 L MODEL

1) Replace the belts if crack, fraying or wear is found.
2) Check the V-belt tension and adjust it if necessary by changing the generator installing position or idler pulley installing position. <Ref. to PM-12, REPLACEMENT, V-belt.>

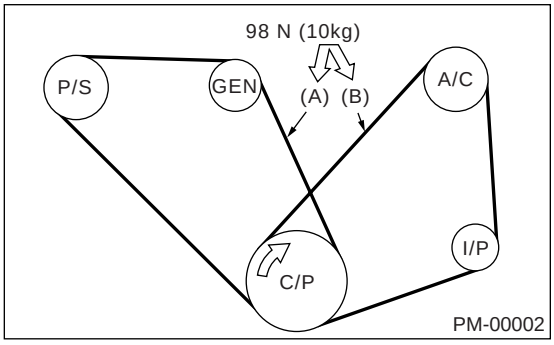
Belt tension (without belt tension gauge):

(A)

When installing new one: 7 — 9 mm (0.276 — 0.354 in)
At inspection: 9 — 11 mm (0.354 — 0.433 in)

(B)

When installing new one: 7.5 — 8.5 mm (0.295 — 0.335 in)
At inspection: 9.0 — 10.0 mm (0.354 — 0.394 in)



(A) Front side belt
(B) Rear side belt
C/P Crank pulley
GEN Generator
P/S Power steering oil pump pulley
A/C A/C compressor pulley
I/P Idler pulley

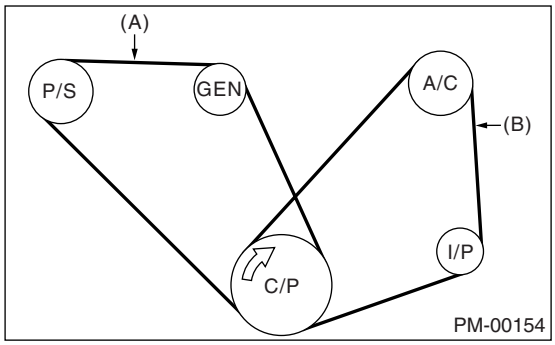
Belt tension (with belt tension gauge):

(A)

When installing new one: 640 — 785 N (65.3 — 80.0 kgf, 144 — 176 lb)
At inspection: 490 — 640 N (50 — 65 kgf, 110 — 144 lb)

(B)

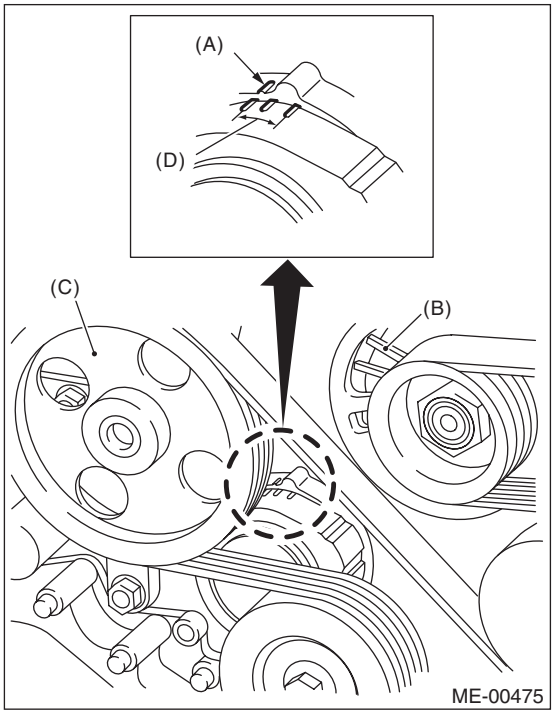
When installing new one: 620 — 760 N (63 — 77 kgf, 140 — 170 lb)
At inspection: 350 — 450 N (36 — 46 kgf, 79 — 101 lb)



(A) Front side belt
(B) Rear side belt
C/P Crank pulley
GEN Generator
P/S Power steering oil pump pulley
A/C A/C compressor pulley
I/P Idler pulley

2. 3.0 L MODEL

1) Replace the belts if crack, fraying or wear is found.
2) Check that the V-belt automatic tensioner indicator (A) is within the range (D).



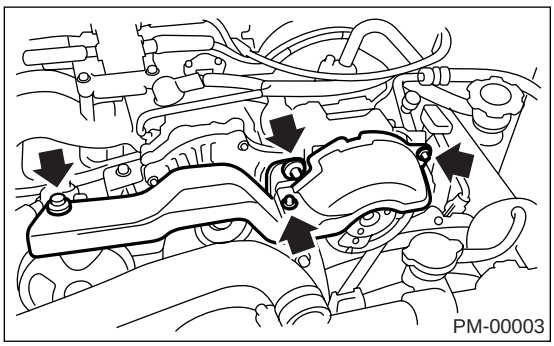
(A) Indicator
(B) Generator
(C) Power steering oil pump
(D) Service limit

B: REPLACEMENT

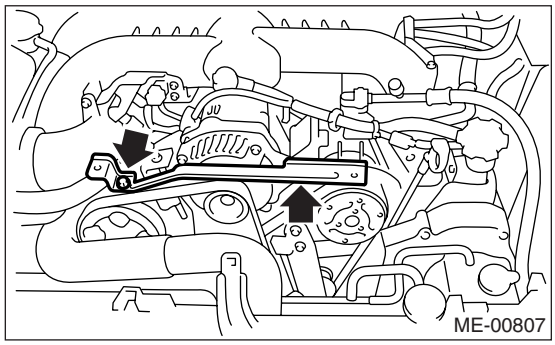
1. FRONT SIDE BELT (FOR POWER STEERING OIL PUMP AND GENERATOR)

NOTE:
Wipe off any oil and water on the belt and pulley.

1) Remove the collector cover. (If equipped)
2) Remove the V-belt covers.
- Non-turbo model

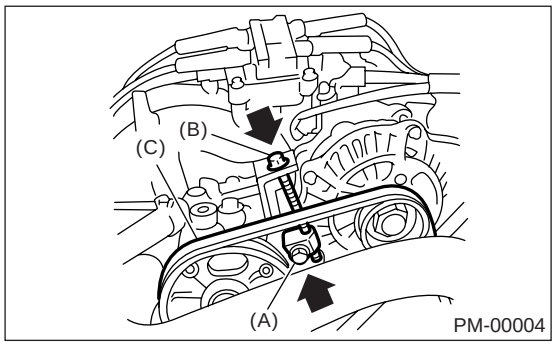


- Turbo model



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

Tightening torque:
Lock bolt
25 N·m (2.5 kgf-m, 18 ft-lb)
Slider bolt
8 N·m (0.8 kgf-m, 5.8 ft-lb)

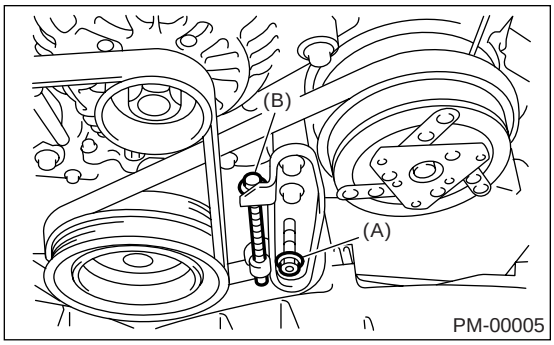


2. REAR SIDE BELT (FOR A/C)

NOTE:
Wipe off any oil and water on the belt and pulley.

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

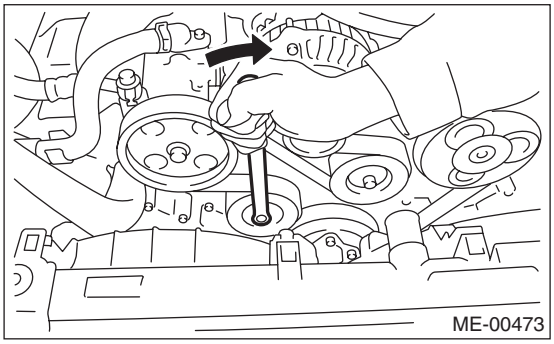
Tightening torque:
23 N·m (2.3 kgf-m, 17.0 ft-lb)



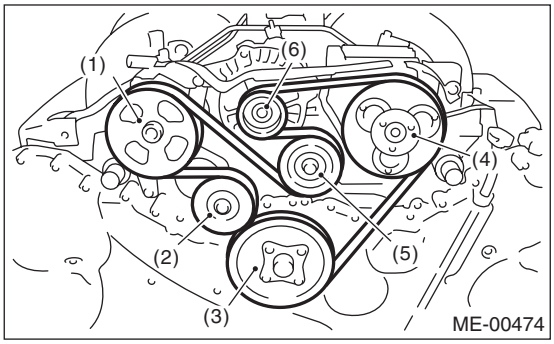
7) Install the front side belt.
• Non-turbo model <Ref. to ME(H4SO 2.0)-38, FRONT SIDE BELT, INSTALLATION, V-belt.>
• Turbo model <Ref. to ME(H4DOTC)-39, FRONT SIDE BELT, INSTALLATION, V-belt.>

3. 3.0 L MODEL

1) Fit the tool to the belt tensioner mounting bolt.
2) Turn the tool clockwise, and loosen the V-belt to remove.



3) Remove the V-belt cover.
4) Install in the reverse order of removal.



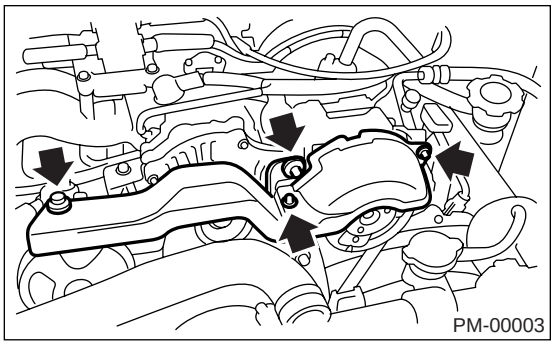
(1) Power steering oil pump
(2) Belt tension adjuster
(3) Crankshaft pulley
(4) A/C compressor
(5) Belt idler
(6) Generator

7. Timing Belt

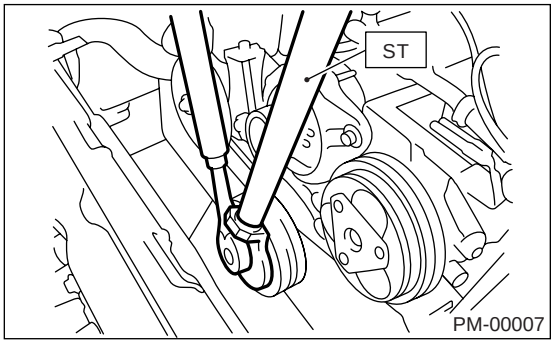
A: REPLACEMENT

1. SOHC MODEL

1) Protect the radiator with cardboard and blanket.
2) Remove the V-belt covers.

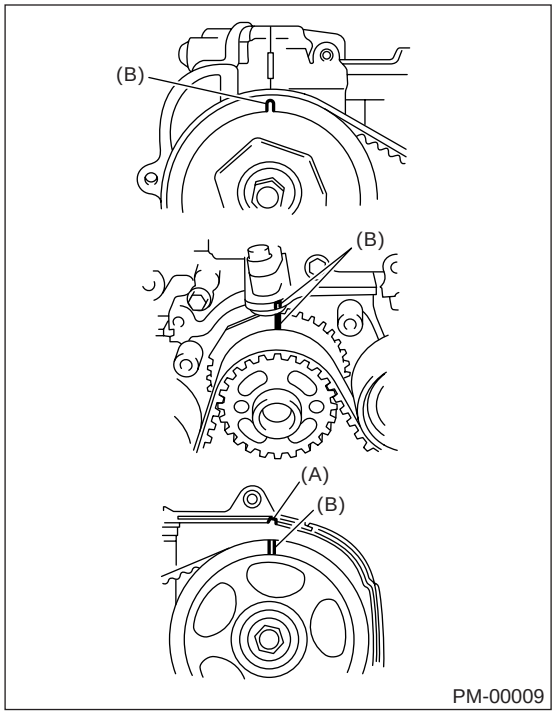


3) Remove the V-belts. <Ref. to ME(H4SO 2.0)-38, V-belt.>
4) Remove the A/C compressor V-belt tensioner.
5) Use the ST to lock the crankshaft, and remove the pulley bolt.
ST 499977100 CRANK PULLEY WRENCH



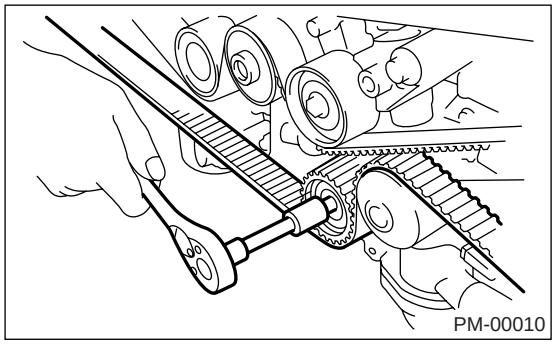
6) Remove the crank pulley.
7) Remove the belt cover (LH).
8) Remove the front timing belt cover.
9) Remove the timing belt guide. (MT model)
10) Turn the crankshaft and align the alignment marks on crankshaft, and left and right cam sprockets with notches of belt cover and cylinder block.

ST 499987500 CRANKSHAFT SOCKET

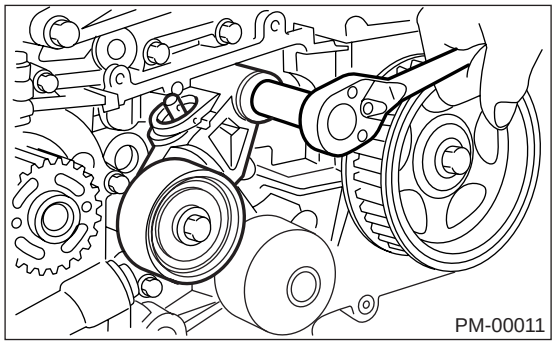


(A) Notch
(B) Alignment mark

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



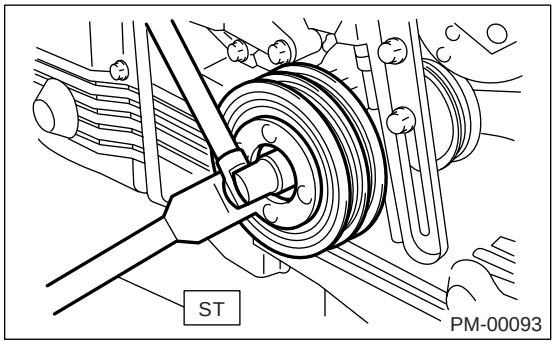
13) Remove the timing belt.
14) Remove the automatic belt tension adjuster assembly.



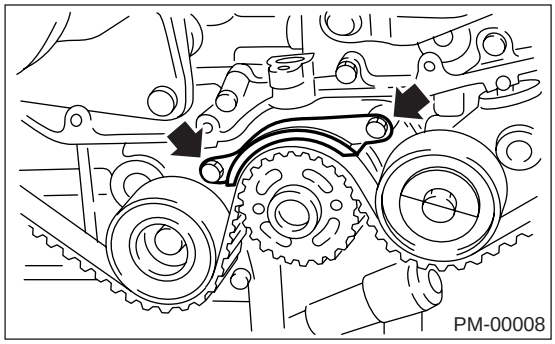
15) Install in the reverse order of removal. <Ref. to ME(H4SO 2.0)-44, INSTALLATION, Timing Belt.>

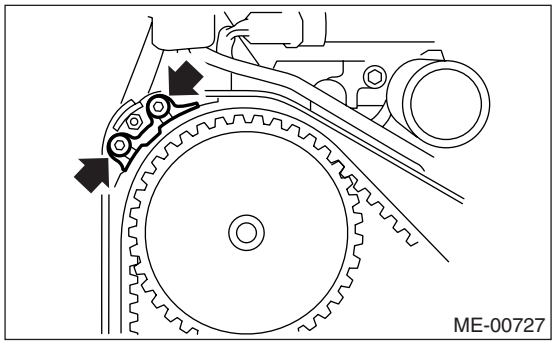
2. DOHC MODEL

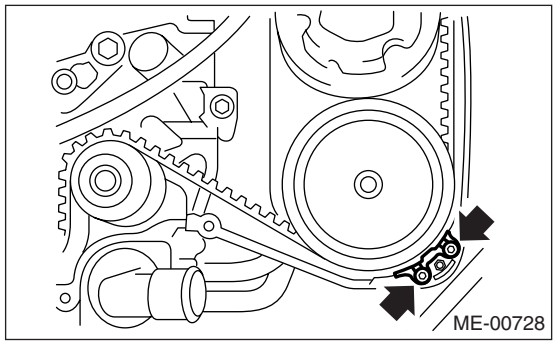
1) Protect the radiator with cardboard and blanket.
2) Remove the V-belts. <Ref. to ME(H4DOTC)-39, V-belt.>
3) Remove the A/C compressor V-belt tensioner.
4) Remove the pulley bolt. Use the ST to lock crankshaft.
• Except for turbo MT model:
ST 499977400 CRANK PULLEY WRENCH
• Turbo MT model:
ST 499977100 CRANK PULLEY WRENCH

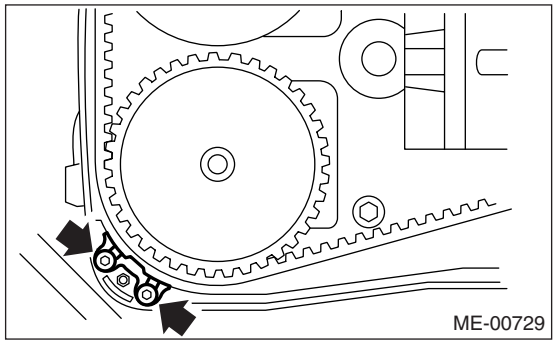


5) Remove the crank pulley.
6) Remove the belt cover (LH).
7) Remove the belt cover (RH).
8) Remove the front belt cover.
9) Remove the timing belt guide. (Except for non-turbo AT model)



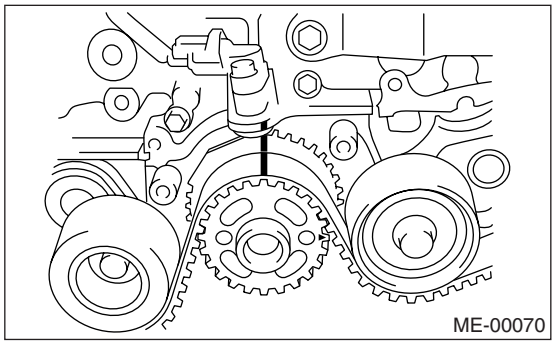


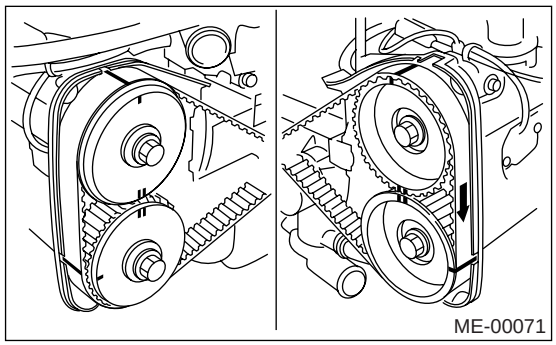




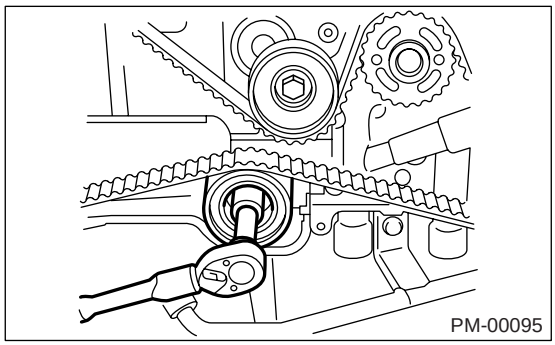
10) Turn the crankshaft and align the alignment marks on crankshaft, and left and right cam sprockets with notches of belt cover and cylinder block. Use the ST to turn crankshaft.

ST 499987500 CRANKSHAFT SOCKET

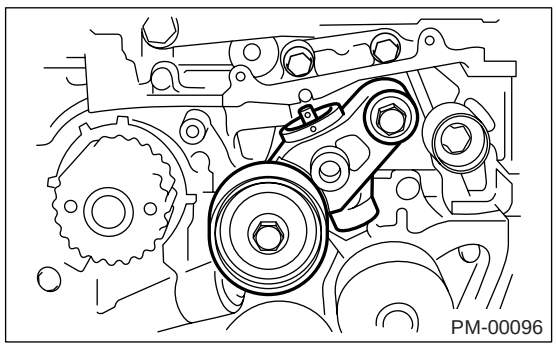




11) Remove the belt idler.



12) Remove the timing belt.
13) Remove the automatic belt tension adjuster assembly.



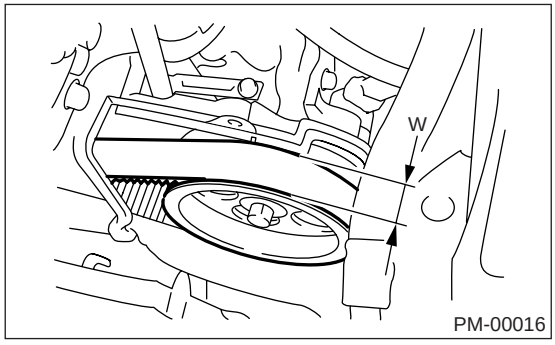
14) Install in the reverse order of removal. <Ref. to ME(H4DOTC)-43, Timing Belt.>

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

B: INSPECTION

1. SOHC MODEL

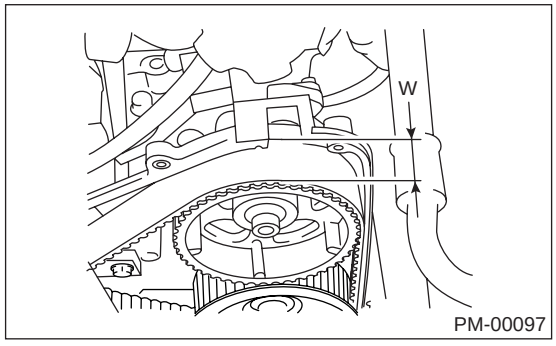
1) Remove the front timing belt cover and timing belt cover (LH).
2) While cranking engine at least four rotations, check the timing belt back surface for cracks or damage. Replace the faulty timing belt as needed.
3) Measure the timing belt width W. If it is less than 27 mm (1.06 in), check idlers,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



4) Install the front timing belt cover and timing belt cover (LH).

2. DOHC MODEL

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



8. Fuel Line

A: INSPECTION

The fuel line is located mostly internally, so check pipes, areas near pipes, and engine compartment piping for rust, hose damage, loose band, etc. If faulty parts are found, repair or replace them.

- 2.0 L non-turbo and 2.5 L model

<Ref. to FU(H4SO 2.0)-53, Fuel Delivery, Return and Evaporation Lines.>

- Turbo model

<Ref. to FU(H4DOTC)-56, Fuel Delivery, Return and Evaporation Lines.>

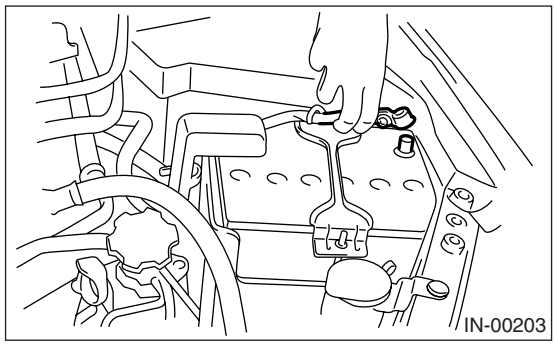
- 3.0 L model

<Ref. to FU(H6DO)-54, Fuel Delivery, Return and Evaporation Lines.>

9. Air Cleaner Element

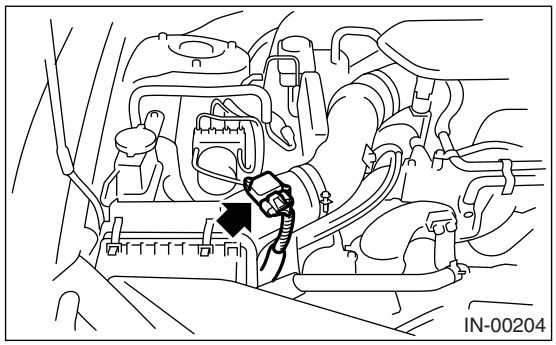
A: REPLACEMENT

1) Disconnect the ground cable from battery.

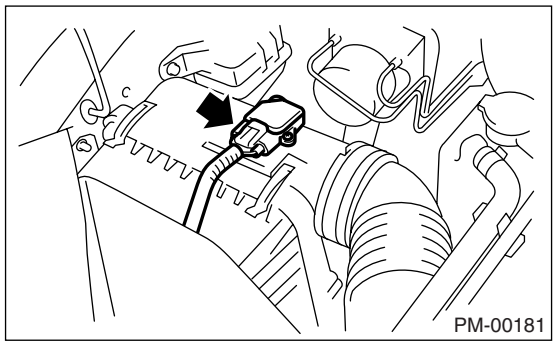


2) Disconnect the connector from mass air flow sensor. (2.0 L turbo, 3.0 L and 2.5 L EC, EK, K4 model)

- 3.0 L and 2.5 L EC, EK, K4 model

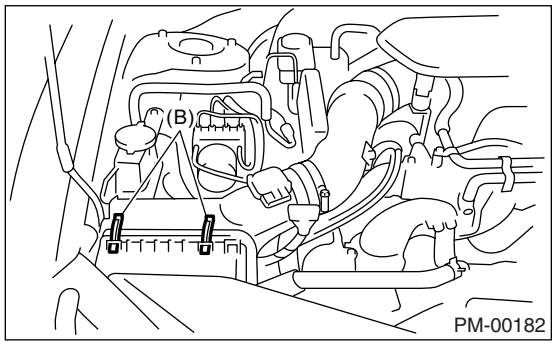


- Turbo model

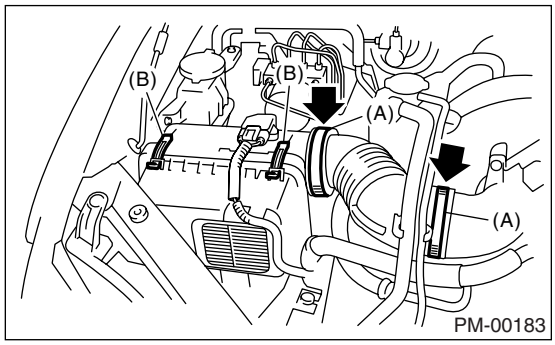


3) Loosen the clamps (A) which connect the air cleaner case to intake duct. (Turbo model)
4) Remove the clips (B) on air cleaner case.

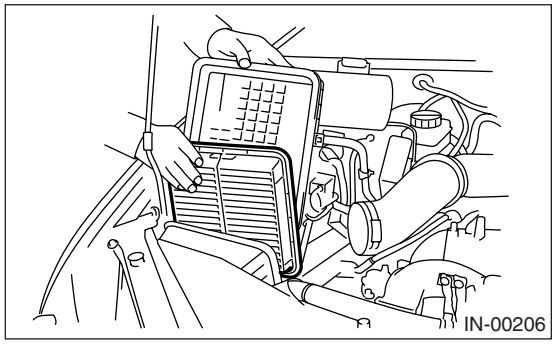
- Non-turbo model



- Turbo model

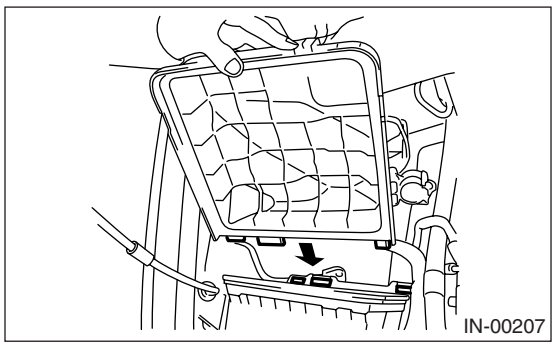


5) Remove the air cleaner case (rear).
6) Remove the air cleaner element.



7) Install in the reverse order of removal.

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



- Refer to “COMPONENT” for tightening torque.
  2.0 L non-turbo and 2.5 L model
  <Ref. to IN(H4SO 2.0)-2, COMPONENT, General Description.>
  Turbo model
  <Ref. to IN(H4DOTC)-2, COMPONENT, General Description.>
  3.0 L model
  <Ref. to IN(H6DO)-2, COMPONENT, General Description.>

10.Cooling System

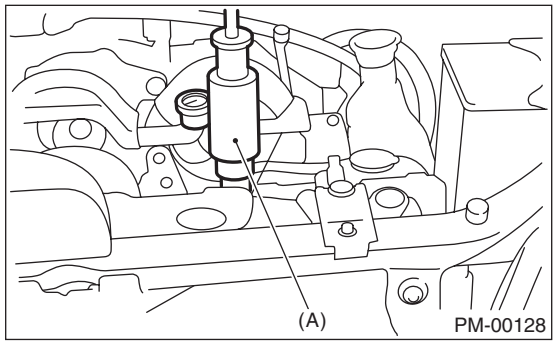
A: INSPECTION

1) To check the radiator for leakage, fill it with engine coolant, and attach the radiator cap tester (A) to the filler neck, and apply pressure. Check the following points:

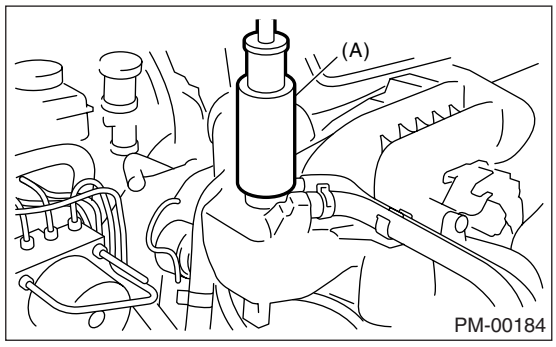
Non-turbo model:
157 kPa (1.6 kg/cm^2, 23 psi)
Turbo model:
122 kPa (1.2 kg/cm^2, 18 psi)

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

NOTE:
- For turbo model, be sure to install the tester to filler tank side.
- When attaching or detaching tester or when operating tester, use special care not to deform radiator filler neck.
  - Non-turbo model



  - Turbo model



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

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

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

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

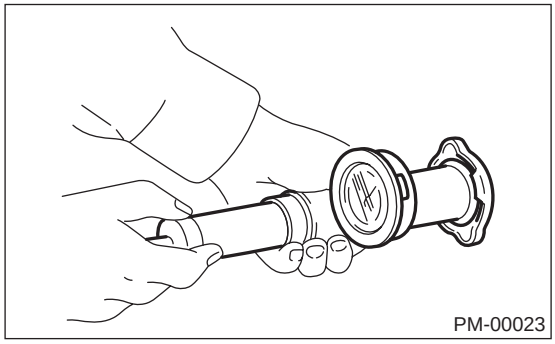
Radiator cap valve open pressure

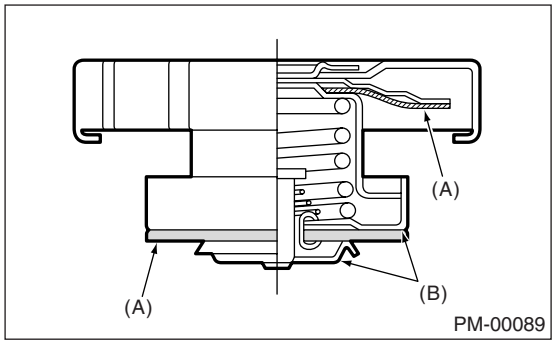
Non-turbo model
Standard:
93 — 123 kPa (0.95 — 1.25 kg/cm^2, 14 — 18 psi)
Service limit:
83 kPa (0.85 kg/cm^2, 12 psi)

Turbo model

Filler tank side
Standard:
93 — 123 kPa (0.95 — 1.25 kg/cm^2, 14 — 18 psi)
Service limit:
83 kPa (0.85 kg/cm^2, 12 psi)

Radiator side
Standard:
122 — 152 kPa (1.24 — 1.55 kg/cm^2, 18 — 22 psi)
Service limit:
112 kPa (1.14 kg/cm^2, 16 psi)





(A) Check points for deformation
(B) Check points for deformation, damage, rust

3) Start the engine, and then check it does not overheat or it is cooled excessively. If it overheats or it is cooled excessively, check the cooling system.
- 2.0 L non-turbo and 2.5 L model

<Ref. to CO(H4SO 2.0)-15, Water Pump.> <Ref. to CO(H4SO 2.0)-18, Thermostat.> <Ref. to CO(H4SO 2.0)-20, Radiator.> <Ref. to CO(H4SO 2.0)-24, Radiator Cap.>
- Turbo model

<Ref. to CO(H4DOTC)-15, Water Pump.> <Ref. to CO(H4DOTC)-17, Thermostat.> <Ref. to CO(H4DOTC)-19, Radiator.> <Ref. to CO(H4DOTC)-23, Radiator Cap.>
- 3.0 L model

<Ref. to CO(H6DO)-11, Water Pump.> <Ref. to CO(H6DO)-12, Thermostat.> <Ref. to CO(H6DO)-13, Radiator.> <Ref. to CO(H6DO)-16, Radiator Cap.>

4) Check the radiator fan operates using Subaru Select Monitor, when the coolant temperature exceeds 95°C (203°F). If it does not operate, check the radiator fan system.
- 2.0 L non-turbo and 2.5 L model

<Ref. to CO(H4SO 2.0)-8, INSPECTION, Radiator Fan System.>
- Turbo model

<Ref. to CO(H4DOTC)-9, INSPECTION, Radiator Fan System.>
- 3.0 L model

<Ref. to CO(H6DO)-7, INSPECTION, Radiator Fan System.>

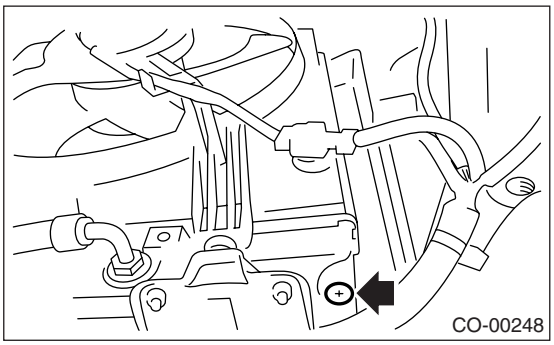
11.Engine Coolant

A: REPLACEMENT

1. REPLACEMENT OF COOLANT

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

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



5) For quick draining, open the radiator cap.

NOTE:
- For turbo model, be sure to open the radiator cap on the filler tank side.
- Be careful not to spill coolant on the floor.

6) Drain the coolant from reservoir tank.
7) Tighten the radiator drain cock securely after draining coolant.
8) Slowly pour the coolant into radiator. Pour the coolant up to air bleeder hole, and then install the cap. (Turbo model)
9) Pour the coolant from radiator filler port to neck of filler. Then, pour the coolant into reservoir tank up to “FULL” level.

Recommended engine coolant:
Refer to “RM” section. <Ref. to RM-5, COOLANT, RECOMMENDED MATERIALS, Recommended Materials.>

Coolant capacity (fill up to “FULL” level):

LHD AT model
2.0 L non-turbo and 2.5 L model (without ATF cooler (with warmer))
Approx. 6.3 ℓ (6.7 US qt, 5.5 Imp qt)
2.0 L non-turbo and 2.5 L model (with ATF cooler (with warmer))
Approx. 6.7 ℓ (7.1 US qt, 5.9 Imp qt)
3.0 L model (without ATF cooler (with warmer))
Approx. 7.2 ℓ (7.6 US qt, 6.3 Imp qt)
3.0 L model (with ATF cooler (with warmer))
Approx. 7.7 ℓ (8.1 US qt, 6.8 Imp qt)

LHD MT model
2.0 L non-turbo and 2.5 L model
Approx. 6.4 ℓ (6.8 US qt, 5.6 Imp qt)

RHD AT model
2.0 L non-turbo and 2.5 L model (without ATF cooler (with warmer))
Approx. 6.4 ℓ (6.8 US qt, 5.6 Imp qt)
2.0 L non-turbo and 2.5 L model (with ATF cooler (with warmer))
Approx. 6.8 ℓ (7.2 US qt, 6.0 Imp qt)
Turbo model
Approx. 7.3 ℓ (7.7 US qt, 6.4 Imp qt)
3.0 L model (without ATF cooler (with warmer))
Approx. 7.2 ℓ (7.6 US qt, 6.3 Imp qt)
3.0 L model (with ATF cooler (with warmer))
Approx. 7.8 ℓ (8.2 US qt, 6.9 Imp qt)

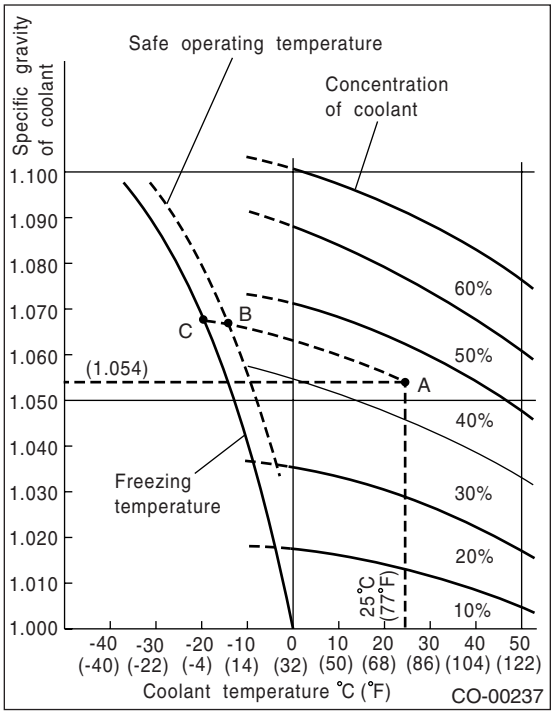
RHD MT model
2.0 L non-turbo and 2.5 L model
Approx. 6.5 ℓ (6.9 US qt, 5.7 Imp qt)

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

10) Securely install the radiator cap.
11) Run the engine for more than five minutes at 2,000 to 3,000 rpm. (Run engine until radiator becomes hot in order to purge air trapped in cooling system.)
12) Stop the engine and wait until coolant temperature lowers. Then open the radiator cap to check coolant level and add coolant up to radiator filler neck. Next, add coolant into reservoir tank up to “FULL” level.
13) After adding coolant, securely install the radiator and reservoir tank caps.

2. RERATIONSHIP OF SUBARU COOLANT CONCENTRATION AND FREEZING TEMPERTAURE

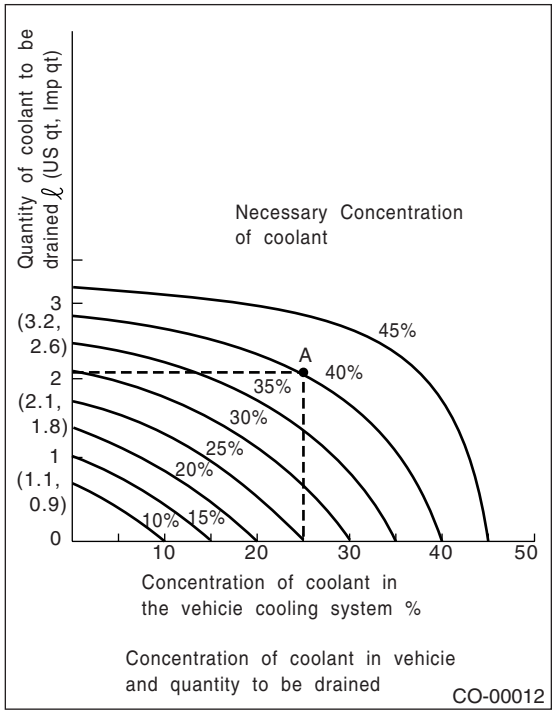
Concentration and safe operating temperature of SUBARU coolant is shown in the diagram. Measuring the temperature and specific gravity of the coolant will provide this information.
[Example]
If the coolant temperature is 25°C (77°F), its specific gravity is 1.054 and the concentration is 45% (point A), the safe operating temperature is −14°C (7°F) (point B), and the freezing temperature is −20°C (−4°F) (point C).



3. PROCEDURE TO ADJUST THE CONCENTRATION OF THE COOLANT

To adjust the concentration of coolant according to temperature, find the proper fluid concentration in the above diagram and replace the necessary amount of coolant with an undiluted solution of SUBARU genuine coolant (concentration 50%).
The amount of coolant that should be replaced can be determined using the diagram.
[Example]
Assume that the coolant concentration must be increased from 25% to 40%. Find point A, where the 25% line of coolant concentration intersects with the 40% curve of the necessary coolant concentration, and read the scale on the vertical axis of the graph at height A. The quantity of coolant to be drained is 2.1 ℓ (2.2 US qt, 1.8 Imp qt). Drain 2.1 ℓ (2.2 US qt, 1.8 Imp qt) of coolant from the cooling system and add 2.1 ℓ (2.2 US qt, 1.8 Imp qt) of the undiluted solution of SUBARU coolant.

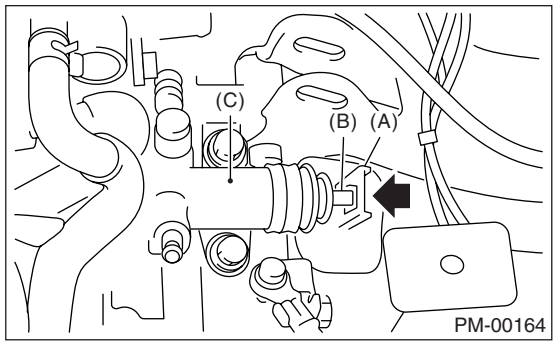
If a coolant concentration of 50% is needed, drain all the coolant and refill with the undiluted solution only.



12.Clutch System

A: INSPECTION AND ADJUSTMENT

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



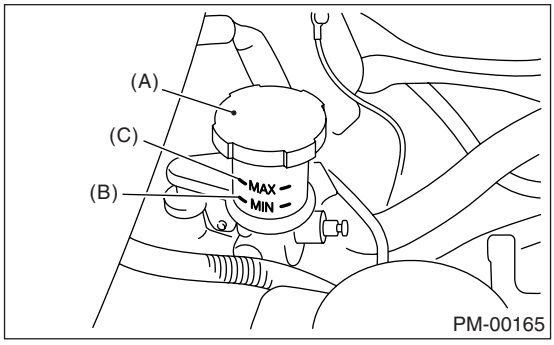
(A) Release lever
(B) Push rod
(C) Operating cylinder

2) If the fluid level rises, pedal free play is correct.
3) If the fluid level does not rise, or the push rod cannot be retracted, adjust the clutch pedal. <Ref. to CL-26, Clutch Pedal.>
4) Check the fluid level using the scale on the outside of the clutch reservoir tank (A). If the level is below “MIN” (B), inspect the clutch master cylinder, operating cylinder and hydraulic line for fluid leaks. If fluid leaks are found, repair or replace. If fluid leaks are not found, add clutch fluid to bring it up to “MAX” (C) of clutch reservoir tank.

Recommended clutch fluid:
Refer to “RM” section. <Ref. to RM-5, FLUID, RECOMMENDED MATERIALS, Recommended Materials.>

CAUTION:
Prevent the clutch fluid from being splashed over vehicle body. If the clutch fluid is splashed over vehicle body, flush it, and then wipe it up.

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



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

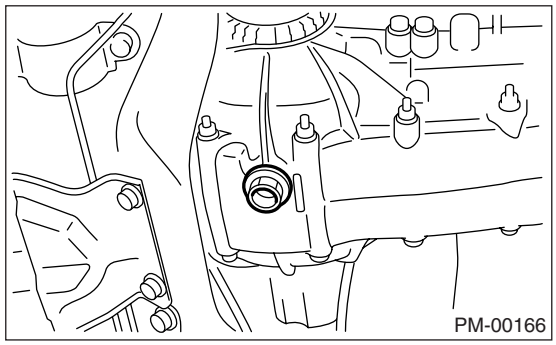
13.Transmission Gear Oil

A: REPLACEMENT

1. MANUAL TRANSMISSION

1) Drain the gear oil by removing drain plug.

NOTE:
• Before starting work, cool off the transmission gear oil well.
• If transmission gear oil adheres to the exhaust pipe, wipe it off completely.



2) Replace the gasket with new one, and then tighten the drain plug to specified torque.

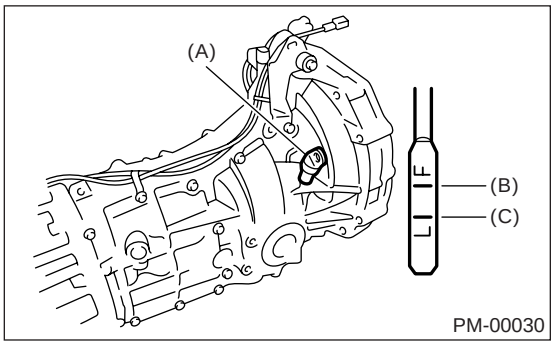
Tightening torque:
69 N·m (7.0 kgf-m, 50.6 ft-lb)

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

Recommended gear oil:
Refer to "RM" section. <Ref. to RM-3, LUBRICANTS, RECOMMENDED MATERIALS, Recommended Materials.>

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

Gear oil capacity:
3.5 ℓ (3.7 US qt, 3.1 Imp qt)



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

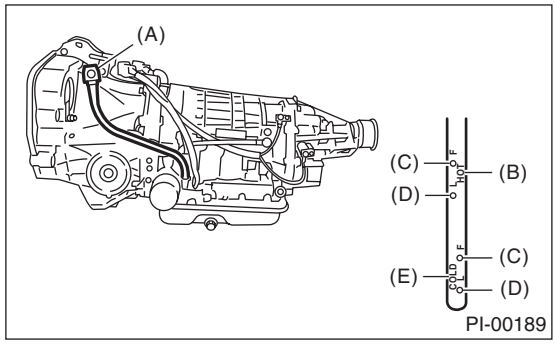
14. Automatic Transmission Fluid

A: INSPECTION

CAUTION:
The level of ATF varies with fluid temperature. Pay attention to the fluid temperature when checking ATF level.

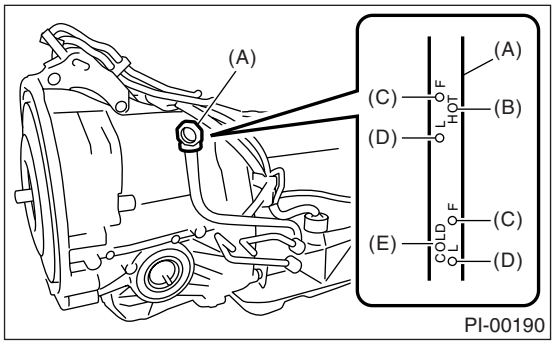
1) Raise the ATF temperature by driving a distance of 5 to 10 km (3 to 6 miles). Otherwise, idle the engine to raise ATF temperature to 70 — 80°C (158 — 176°F) on Subaru Select Monitor. <Ref. to 4AT(diag)-17, READ CURRENT DATA, OPERATION, Subaru Select Monitor.>
2) Make sure the vehicle is level.
3) After selecting all positions (P, R, N, D), shift the select lever in “P” range. Measure the ATF level with engine idling for one or two minutes.

• 4AT model



(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 model



(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)]

4) Make sure that ATF level is above the center of upper and lower marks at “HOT” side.
5) If the ATF level is below the center between upper and lower marks, add the recommended ATF until the fluid level is found above the center between upper and lower marks.

CAUTION:
• Use care not to exceed the upper limit level.
• Addition of ATF to the upper limit mark on “HOT” side when the ATF temperature is below 70°C (158°F) will overfilling of ATF, causing a transmission failure.

6) Check ATF level after raising ATF temperature to 70 — 80°C (158 — 176°F) by running the vehicle or by idling the engine again.
7) Check the ATF for leaks.
Check for leaks in the transmission. If there are leaks, it is necessary to repair or replace gasket, oil seals, plugs or other parts.

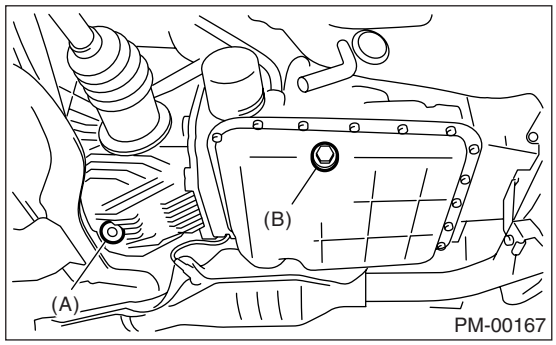
B: REPLACEMENT

1. AUTOMATIC TRANSMISSION FLUID

1) Drain the ATF by removing drain plug.

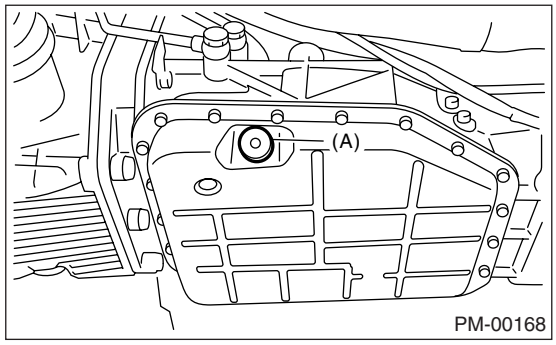
NOTE:
Before starting work, cool off the ATF well.

- 4AT model



(A) Front differential gear oil drain plug
(B) ATF drain plug

- 5AT model



(A) ATF drain plug

2) Replace the gasket with new one, and then tighten the drain plug to specified torque.

Tightening torque:
4AT model
25 N·m (2.55 kgf-m, 18.4 ft-lb)
5AT model
20 N·m (2.0 kgf-m, 4.5 ft-lb)

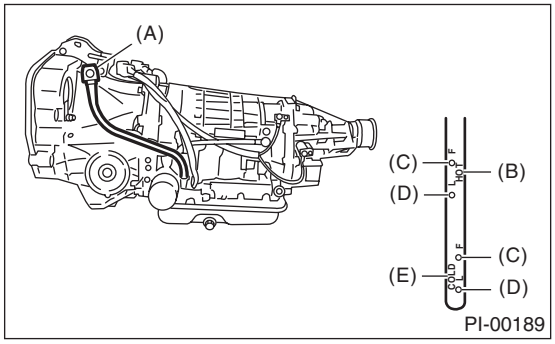
3) Pour ATF from the ATF charge pipe.

Recommended ATF:
Refer to "RM" section. <Ref. to RM-5, FLUID, RECOMMENDED MATERIALS, Recommended Materials.>

Capacity:
Fill the same amount of ATF drained.

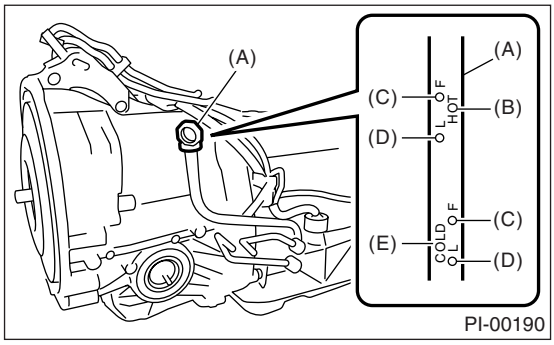
4) Check the ATF level. <Ref. to PM-26, INSPECTION, Automatic Transmission Fluid.>

- 4AT model



(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 model



(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)]

2. ATF FILTER

NOTE:
Basically ATF filter is maintenance free, but when it has physically damaged or ATF leaked, the ATF filter needs replacement.

For the replacement procedure of ATF filter, refer to "ATF FILTER".

- 4AT model

<Ref. to 4AT-64, ATF Filter.>

- 5AT model

<Ref. to 5AT-60, ATF Filter.>

15. Front and Rear Differential Gear Oil

A: REPLACEMENT

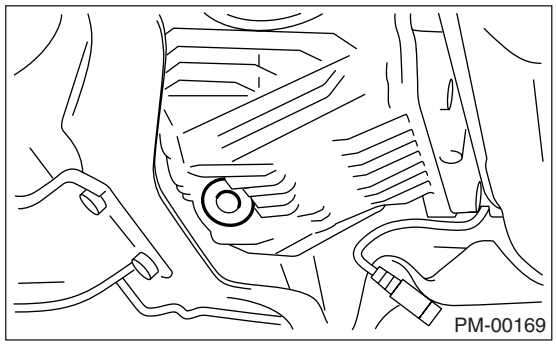
1. FRONT DIFFERENTIAL (MT MODEL)

Front differential gear oil for MT model lubricates the transmission and differential together. Refer to “Transmission Oil” for replacement procedure. <Ref. to PM-25, Transmission Gear Oil.>

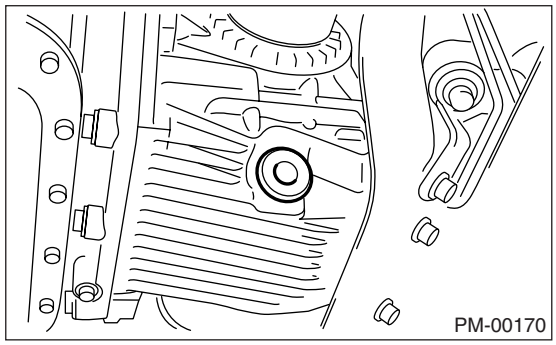
2. FRONT DIFFERENTIAL (AT MODEL)

1) Drain the differential gear oil by removing drain plug using TORX® BIT T70.

NOTE:
• Before starting work, cool off the differential gear oil well.
• If front differential gear oil adheres to the exhaust pipe, wipe it off completely.
• 4AT model



• 5AT model



2) Replace the gasket with new one, and then tighten the drain plug to specified torque.

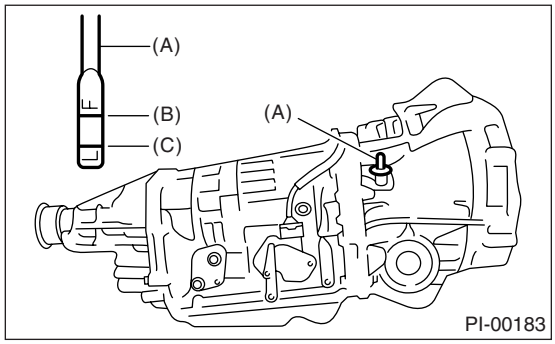
Tightening torque:
70 N·m (7.1 kgf-m, 16 ft-lb)

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

Recommended gear oil:
Refer to “RM” section. <Ref. to RM-3, LUBRICANTS, RECOMMENDED MATERIALS, Recommended Materials.>

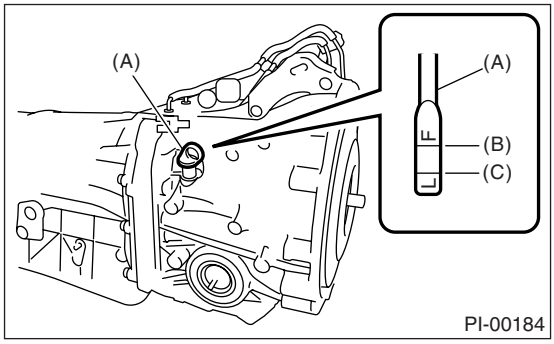
NOTE:
Each oil manufacturer has its base oil and additives. Thus, do not mix two or more brands.

Differential gear oil capacity:
4AT model
1.1 — 1.3 ℓ (1.2 — 1.4 US qt, 1.0 — 1.1 Imp qt)



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

5AT model
1.3 — 1.5 ℓ (1.4 — 1.6 US qt, 1.1 — 1.3 Imp qt)



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

3. REAR DIFFERENTIAL

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

NOTE:
• Apply liquid gasket to the drain plug threads for T-type.
• Use a new gasket for VA-type.

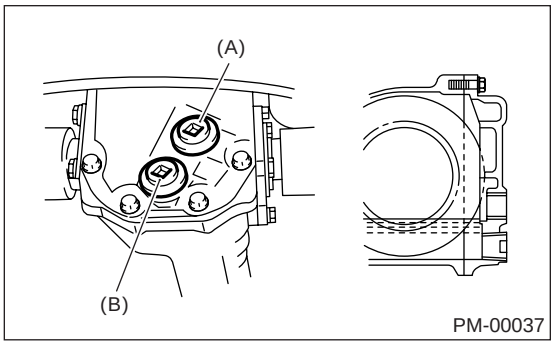
Liquid gasket:
THREE BOND 1105 (Part No. 004403010)

Tightening torque:
T-type
49.0 N·m (5.0 kgf-m, 36.2 ft-lb)
VA1-type
34 N·m (3.5 kgf-m, 25.3 ft-lb)
VA2-type
29 N·m (3.0 kgf-m, 21.4 ft-lb)

4) Pour oil to the bottom end of filler plug hole.

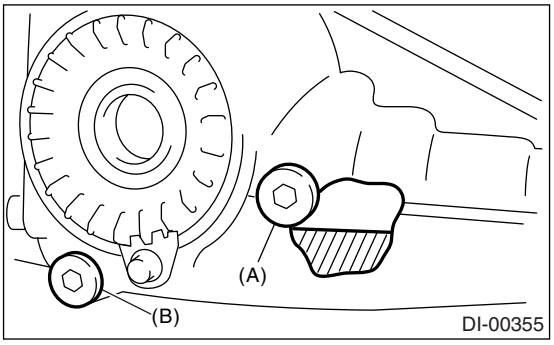
Recommended gear oil:
Refer to "RM" section. <Ref. to RM-3, LUBRICANTS, RECOMMENDED MATERIALS, Recommended Materials.>

- Except for VA2-type



(A) Filler plug
(B) Drain plug

- VA2-type



(A) Filler plug
(B) Drain plug

Oil capacity:
0.8 ℓ (0.8 US qt, 0.7 Imp qt)

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

5) Install the filler plug.

NOTE:
- Apply liquid gasket to the filer plug threads for T-type.
- Use a new aluminum gasket for VA-type.

Liquid gasket:
THREE BOND 1105 (Part No. 004403010)

Tightening torque:
T-type
49.0 N·m (5.0 kgf-m, 36.2 ft-lb)
VA1-type
34 N·m (3.5 kgf-m, 25.3 ft-lb)
VA2-type
29 N·m (3.0 kgf-m, 21.4 ft-lb)

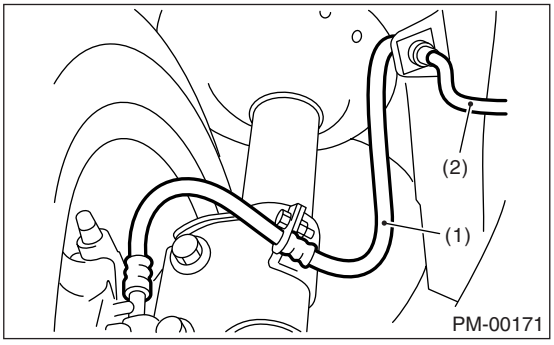
16.Brake Line

A: INSPECTION

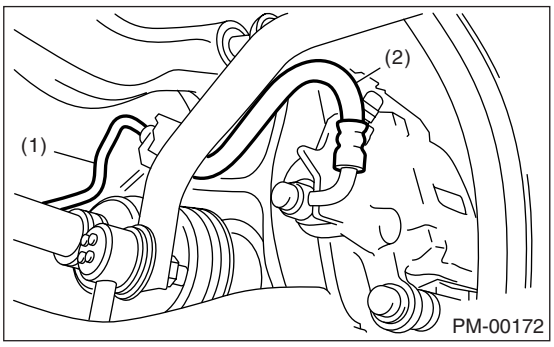
1. BRAKE LINE

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

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



(1) Front brake hose
(2) Front brake pipe

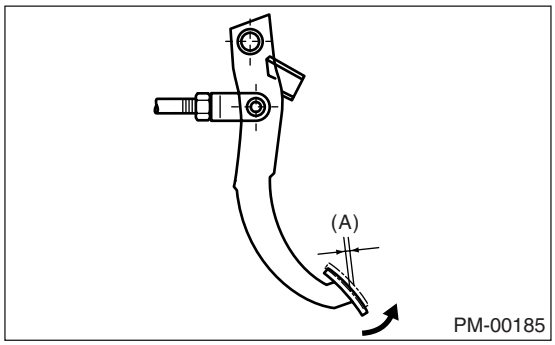


(1) Rear brake pipe
(2) Rear brake hose

2. SERVICE BRAKE

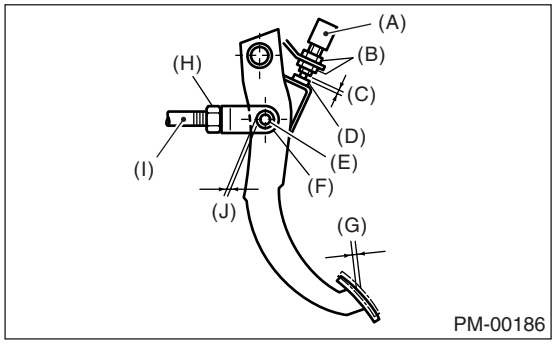
1) Check the free play of brake pedal with pulling up the force of less than 10 N (1 kgf, 2 lb).

Brake pedal free play (Pulling up direction of pedal)
0.5 — 2.0 mm (0.02 — 0.08 in)



(A) Pedal free play

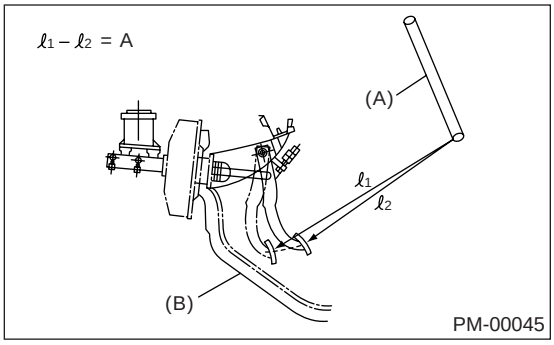
2) If the free play is out of specifications above, adjust the brake pedal as follows:
(1) Make sure the engine is off. (No vacuum is applied to brake booster.)
(2) There should be play between brake booster clevis and pin at brake pedal installing portion. [Pulling up the brake pedal pad with a force of less than 10 N (1 kgf, 2 lb) to a stroke of 0.5 to 2.0 mm (0.02 to 0.08 in).]
(3) If there is no free play between clevis pin and clevis, turn brake switch adjusting nut until the clearance between stopper and screw of brake switch becomes 0.3 mm (0.012 in).



(A) Brake switch
(B) Adjusting nut
(C) 0.3 mm (0.012 in)
(D) Stopper
(E) Clevis pin
(F) Clevis
(G) Pedal free play
(H) Lock nut
(I) Brake booster operating rod
(J) Play at pin

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

Brake pedal reserve distance A:
95 mm (3.7 in)/ 490 N (50 kgf, 110 lb) or less

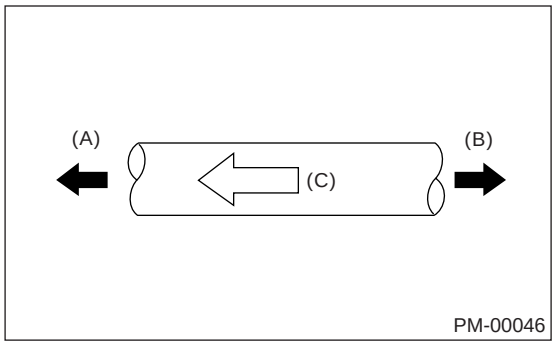


(A) Steering wheel
(B) Toe board

4) Check to see if air is in the hydraulic brake line by the feel of pedal operation. If air appears to exist in the line, bleed it from the system.
5) Check for even operation of all brakes, using a brake tester or by driving the vehicle for a short distance on a straight road.

3. BRAKE SERVO SYSTEM

1) With the engine off, depress the brake pedal several times applying the same pedal force. Make sure the travel distance should not change.
2) With the brake pedal depressed, start the engine. Make sure the pedal should move slightly toward the floor.
3) With the brake pedal depressed, stop the engine and keep the pedal depressed for 30 seconds. Make sure the pedal height should not change.
4) A check valve is built into the vacuum hose. Disconnect the vacuum hose to inspect function of check valve.
Blow compressed air into vacuum hose from its brake booster side end. Make sure air must flow out of engine side end of hose. Next, blow compressed air into hose from engine side. Make sure air should not flow out of hose.
Replace the both check valve and vacuum hose if the check valve is faulty. Engine side of vacuum hose is indicated by marking “ENG” as shown.



(A) Engine side
(B) Brake booster side
(C) ENG

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

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

6) Check the vacuum hose to make sure it is tightly secured.

17.Brake Fluid

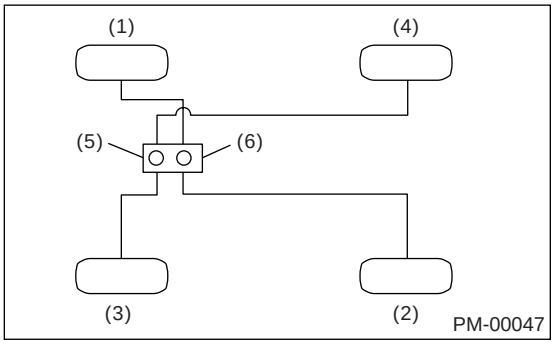
A: REPLACEMENT

1) Either jack-up the vehicle and place a rigid rack under it, or lift-up the vehicle.
2) Remove all the wheels.
3) Drain the brake fluid from master cylinder.
4) Refill the reservoir tank with recommended brake fluid.

Recommended brake fluid:
Refer to "RM" section. <Ref. to RM-5, FLUID, RECOMMENDED MATERIALS, Recommended Materials.>

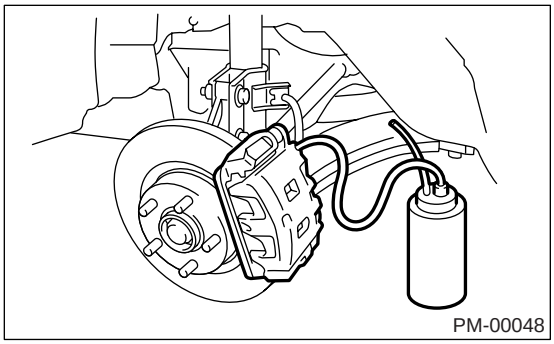
NOTE:
• Avoid mixing different brands of brake fluid to prevent degrading the quality of fluid.
• Be careful not to allow dirt or dust to get into the reservoir tank.

Air bleeding sequence (1) → (2) → (3) → (4)



(1) Front RH
(2) Rear LH
(3) Front LH
(4) Rear RH
(5) Secondary
(6) Primary

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



NOTE:
• Cover the bleeder with cloth, when loosening it, to prevent brake fluid from being splashed over surrounding parts.
• During the bleeding operation, keep the brake reservoir tank filled with brake fluid to eliminate entry of air.
• The brake pedal operation must be very slow.
• For convenience and safety, two people should do the work.
• The amount of brake fluid required is approx. 500 mℓ (16.9 US fl oz, 17.6 Imp fl oz) for total brake system.

6) Instruct your co-worker to depress the brake pedal slowly two or three times and then hold it depressed.
7) Loosen the bleeder screw approximately 1/4 turn until a small amount of brake fluid drains into the container, and then quickly tighten the screw.
8) Repeat steps 6) and 7) until there are no air bubbles in drained brake fluid and new fluid flows through vinyl tube.

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

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

Tightening torque:
8 N·m (0.8 kgf-m, 5.8 ft-lb)

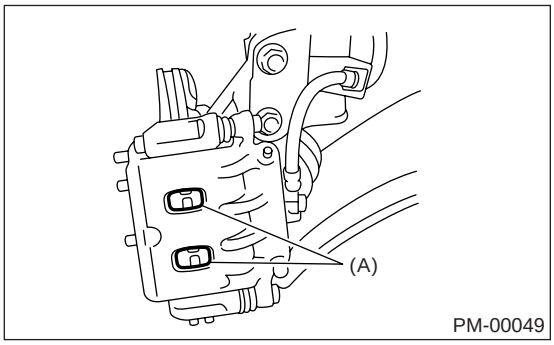
10) Bleed air from each wheel cylinder by following steps from 5) to 9).
11) Depress the brake pedal with a force of approx. 294 N (30 kgf, 66 lb) and hold it there for approx. 20 seconds. At this time check the pedal to see if it makes any unusual movement. Visually inspect the bleeder screws and brake pipe joints to confirm there is no fluid leakage.
12) Install the wheels, and drive the vehicle for a short distance between 2 to 3 km (1 to 2 miles) to confirm brakes are operating properly.

18.Disc Brake Pad and Disc

A: INSPECTION

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

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



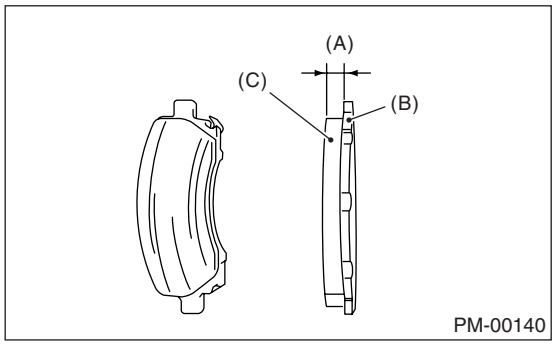
(A) Inspection hole

• Front

Pad thickness		mm (in)
Standard	15-inch	11 (0.43)
	16-inch	11 (0.43)
	17-inch	11 (0.43)
Wear limit	15-inch	1.5 (0.059)
	16-inch	1.5 (0.059)
	17-inch	1.5 (0.059)

• Rear

Pad thickness		mm (in)
Standard	Solid disc type	9 (0.35)
	Ventilated disc type	9 (0.35)
Wear limit	Solid disc type	1.5 (0.059)
	Ventilated disc type	1.5 (0.059)



(A) Pad thickness
(B) Back metal
(C) Lining

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

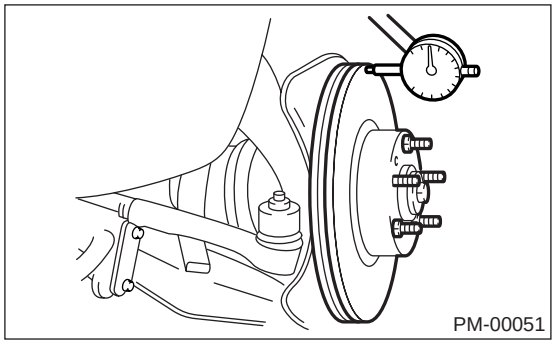
Disc rotor thickness		mm (in)
Standard	15, 16-inch	24 (0.94)
	17-inch	30 (1.18)
Wear limit	15, 16-inch	22 (0.87)
	17-inch	28 (1.10)

• Rear

Disc rotor thickness		mm (in)
Standard	Solid disc type	10 (0.39)
	Ventilated disc type	18 (0.71)
Wear limit	Solid disc type	8.5 (0.34)
	Ventilated disc type	16 (0.63)

4) Remove the caliper body. <Ref. to BR-20, Front Disc Brake Assembly.> <Ref. to BR-28, Rear Disc Brake Assembly.>
5) Tighten the wheel nuts to secure disk rotor.
6) Set a dial gauge at a point less than 10 mm (0.39 in) from outer periphery of the rotor, and then measure the disk rotor runout.

Disc rotor runout limit:
Front: 0.05 mm (0.002 in)
Rear: 0.05 mm (0.002 in)



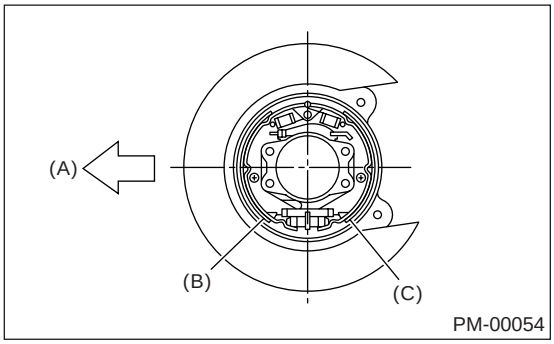
19.Parking Brake

A: INSPECTION

Inspect the brake linings and disc rotor of both sides of the rear brake at the same time by removing disc rotor.
1) Inspect the brake shoes for damage or deformation and check the brake linings for wear.

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

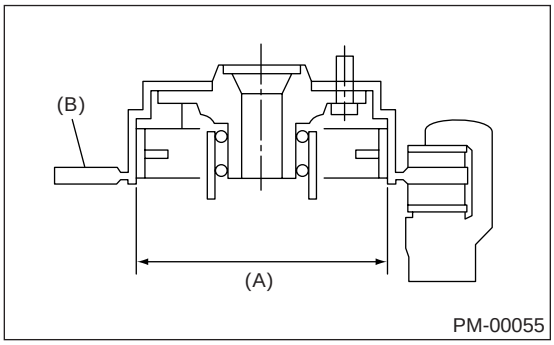
Thickness of brake lining (except for back metal):
Standard value: 3.2 mm (0.126 in)
Wear limit: 1.5 mm (0.059 in)



(A) Forward
(B) Brake shoe (Primary side)
(C) Brake shoe (Secondary side)

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

Brake drum inside diameter:
Standard value: 170 mm (6.69 in)
Wear limit: 171 mm (6.73 in)

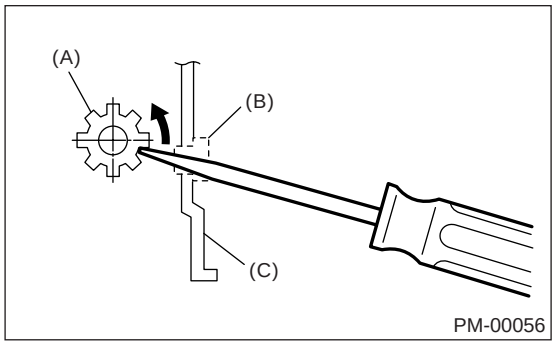


(A) Inside diameter
(B) Disc

3) If the deformation or wear of back plate, shoe, etc. is noticeable, replace them.
4) When the shoe return spring tension is excessively weakened, replace it.

B: ADJUSTMENT

For rear disc brake, adjust the parking brake after bleeding air.
1) Remove the rear cover (rubber) installed at back plate.
2) Turn the adjuster toward arrow mark (upward) until it is locked slightly, by using flat-tip screwdriver as shown in the illustration.



(A) Adjuster
(B) Cover (rubber)
(C) Back plate

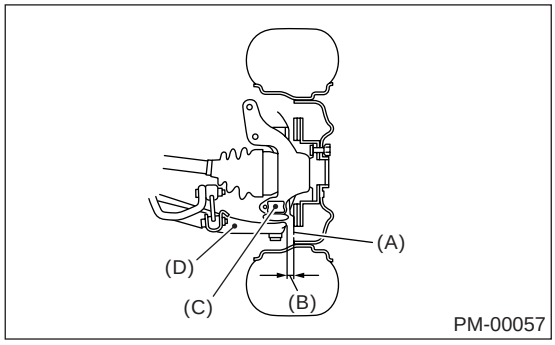
3) Turn back (downward) the adjuster 3 to 4 notches.
4) Install the cover (rubber) in original position correctly.

20.Suspension

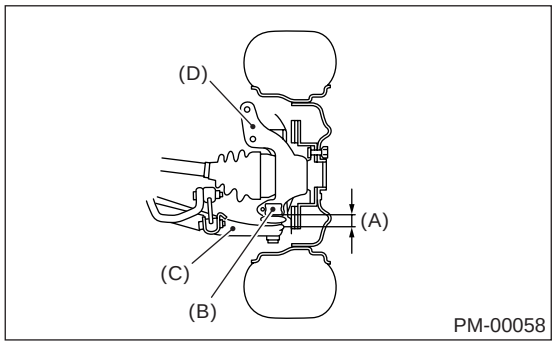
A: INSPECTION

1. SUSPENSION BALL JOINT

1) Jack-up the vehicle until front wheels are off ground.
2) Grasp the bottom of tire and move it in and out. If relative movement is observed between the brake disc cover (A) and end of front arm (D), ball joint (C) may be excessively worn.



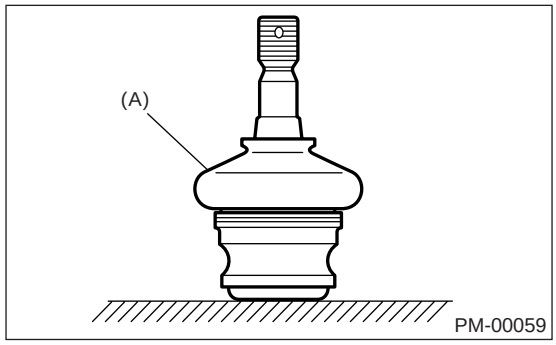
3) Grasp the end of front arm and move it up and down. Relative movement (A) between the housing (D) and front arm (C) boss indicates ball joint (B) may be excessively worn.



4) If relative movement is observed in the step 2), 3), remove and inspect the ball joint. If the free play exceeds standard value, replace the ball joint. <Ref. to FS-17, Front Ball Joint.>
5) Damage of dust seal
Visually inspect the ball joint dust seal. If it is damaged, remove the front arm. <Ref. to FS-19, Front Arm.> And measure free play of ball joint. <Ref. to FS-17, Front Ball Joint.>

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

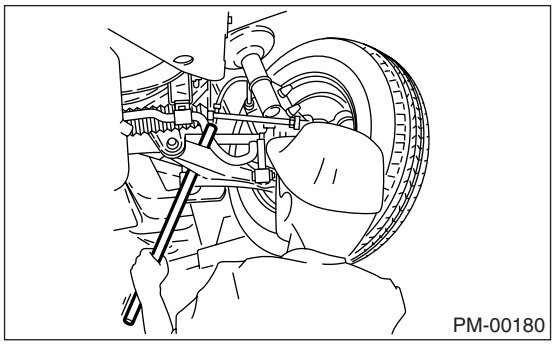
NOTE:
When the front arm ball joint has been removed or replaced, check the toe-in of front wheel. If the front wheel toe-in is not at specified value, adjust the toe-in. <Ref. to FS-8, Wheel Alignment.>



(A) Dust seal

2. FRONT, REAR SUSPENSION BUSHING

Apply pressure with tire lever etc, and inspect the bushing for wear or crack. Replace the bushings if there is wear or crack.



3. WHEEL ARCH HEIGHT

1) Unload the cargoes and set the vehicle in curb weight (empty) condition.
2) Check the wheel arch height of front and rear suspensions to ensure that they are within specified values. <Ref. to FS-8, Wheel Alignment.>
3) When the wheel arch height is out of standard, visually inspect following components and replace deformed parts.
• Suspension components [Front strut assembly and rear damper assembly]
• Parts connecting suspension and body
4) If no components are deformed, adjust the wheel arch height by replacing the suspension which wheel arch height is out of standard. <Ref. to FS-8, Wheel Alignment.> <Ref. to RS-8, Wheel Alignment.>

4. WHEEL ALIGNMENT OF FRONT SUSPENSION

1) Check the alignment of front suspension to ensure that following items conform to standard values.
- Toe-in
- Camber
- Caster
- Steering angle

<Ref. to FS-8, Wheel Alignment.>
2) When the caster angle does not conform to reference obviously, visually inspect the following components and replace deformed parts.
- Suspension components [Strut assembly, crossmember, front arm, etc.]
- Parts connecting suspension and body

3) When the toe-in and camber are out of standard value, adjust them so that they conform to standard value.
4) When the right-and-left turning angles of tire are out of standard, adjust to standard value.

5. WHEEL ALIGNMENT OF REAR SUSPENSION

1) Check the alignment of rear suspension to ensure that following items are within standard values.
- Toe-in
- Camber
- Thrust angle

<Ref. to RS-8, Wheel Alignment.>
2) When the camber angle does not conform to standard value, visually inspect the following components. If the deformation is observed, replace the damaged parts.
- Suspension components [Shock absorber, front link, rear link, upper link, rear arm, sub frame, etc]
- Parts connecting suspension and body

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

6. OIL LEAKAGE OF STRUT AND SHOCK ABSORBER

Visually inspect the front strut and rear shock absorber for oil leakage. Replace the front strut and rear shock absorber if oil leaks excessively.

7. TIGHTNESS OF BOLTS AND NUTS

Check the bolts and nuts for looseness. Retighten the bolts and nuts to specified torque. If the self-locking nuts and bolts are removed, replace them with new ones.
- Front suspension

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

<Ref. to RS-2, General Description.>

8. DAMAGE TO SUSPENSION PARTS

Check the following parts and the fastening portion of the vehicle body for deformation or excessive rusting which impairs the suspension. If necessary, replace the damaged parts with new ones. If minor rust formation, pitting, etc. are noted, remove the rust and take rust prevention measure.
- Front suspension
  - Front arm
  - Crossmember
  - Strut
- Rear suspension
  - Sub frame
  - Front link
  - Rear link
  - Upper link
  - Rear arm
  - Shock absorber
- In the area where salt is sprayed to melt snow on a road in winter, check suspension parts for damage caused by rust every 12 months after lapse of 60 months. Take rust prevention measure as required.

21.Wheel Bearing

A: INSPECTION

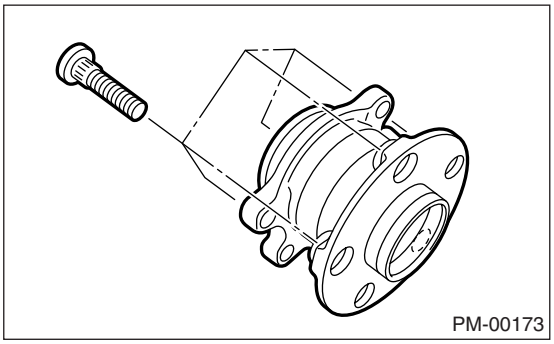
1. FRONT WHEEL BEARING

NOTE:
Inspect the condition of front wheel bearing grease.

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

Service limit:
Straight-ahead position within 0.05 mm (0.0020 in)

5) Remove the bolts and self-locking nuts, and extract the front arm from front crossmember.
6) Remove the PTJ of front drive shaft from transmission. <Ref. to DS-13, Front Axle.>
7) While supporting the front drive shaft horizontally with one hand, turn the hub with the other hand to check for noise or binding.
If the hub is noisy or binds, replace the front axle.

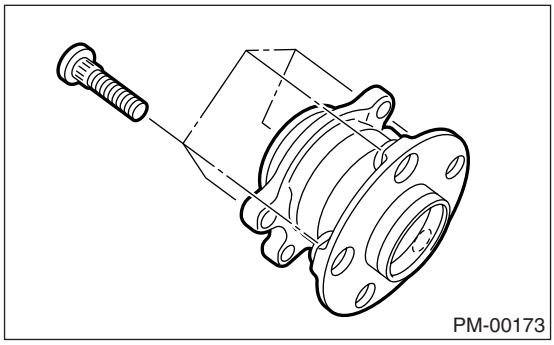


2. REAR WHEEL BEARING

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

Service limit:
Straight-ahead position within 0.05 mm (0.0020 in)

5) Remove the DOJ of rear drive shaft from rear differential. <Ref. to DS-26, Rear Drive Shaft.>
6) While supporting rear drive shaft horizontally with one hand, turn the hub with the other hand to check for noise or binding.
If the hub is noisy or binds, replace the rear axle.



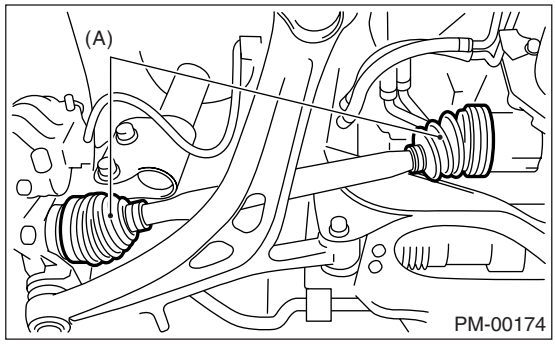
22.Axle Boots and Joints

A: INSPECTION

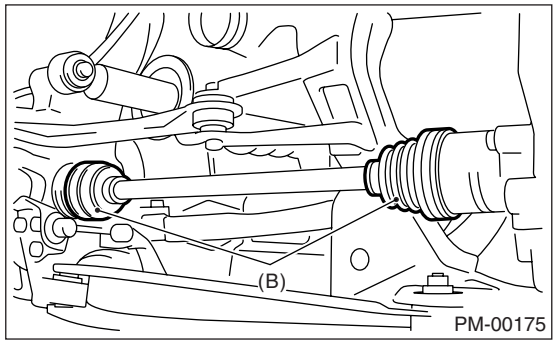
1. FRONT AND REAR AXLE BOOTS

Inspect the front axle boots (A) and rear axle boots (B) for deformation, damage or failure. If faulty, replace them with new ones. <Ref. to DS-22, Front Drive Shaft.> <Ref. to DS-26, Rear Drive Shaft.>

- Front



- Rear



2. PROPELLER SHAFT

Inspect the propeller shaft for damage or failure. If faulty, replace them with new ones. <Ref. to DS-10, Propeller Shaft.>

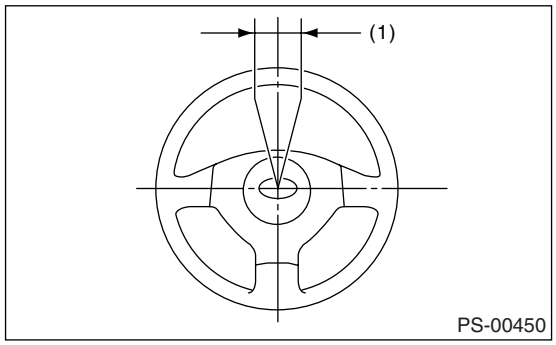
23. Steering System (Power Steering)

A: INSPECTION

1. STEERING WHEEL

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

Steering wheel free play:
0 — 17 mm (0 — 0.67 in)



(1) Steering wheel free play

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

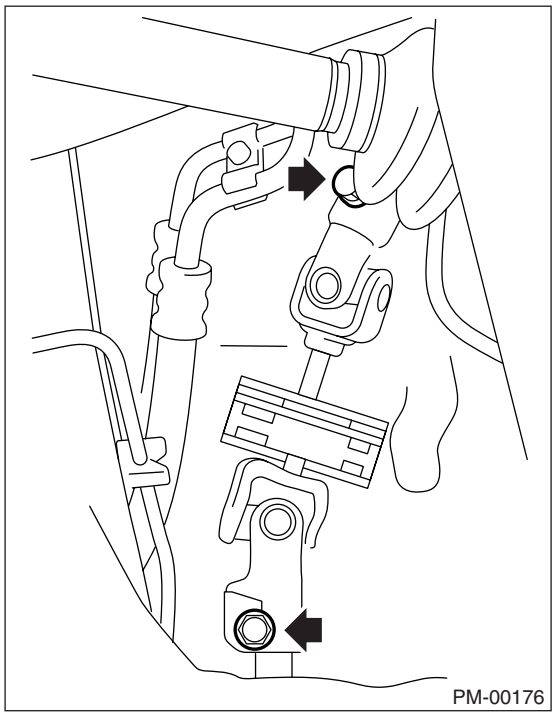
Maximum permissible play:
0.5 mm (0.020 in)

3) Drive the vehicle and check the following items during operation.
(1) Steering force:
The effort required for steering should be smooth and even at all points, and should not vary.
(2) Pulled to one side:
Steering wheel should not be pulled to either side while driving on a level surface.
(3) Wheel runout:
Steering wheel should not show any sign of runout.
(4) Return factor:
Steering wheel should return to its original position after it has been turned and then released.

2. STEERING SHAFT JOINT

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

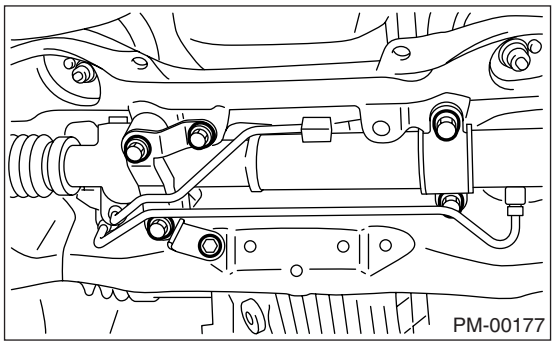
Tightening torque:
24 N·m (2.4 kgf-m, 17.4 ft-lb)



3. GEARBOX

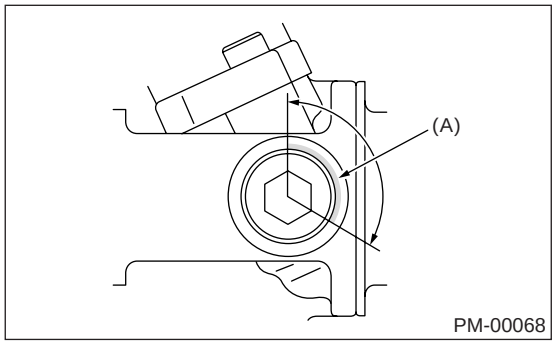
1) With the vehicle placed on a level surface, turn the steering wheel 90° in both the left and right directions.
While the wheel is being rotated, reach under the vehicle and check for looseness in gearbox.

Tightening torque:
59 N·m (6.0 kgf-m, 43.4 ft-lb)



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

3) With the vehicle placed on a level surface, quickly turn the steering wheel to the left and right.
While steering wheel is being rotated, check the gear backlash. If any noise is noticed, adjust the gear backlash.
4) Adjustment for LHD model
(1) Apply liquid gasket to at least 1/3 of entire perimeter of adjusting screw thread.
(2) Tighten adjusting screw to 25 N·m (2.5 kgf-m, 18.0 ft-lb) and then loosen.
(3) Tighten adjusting screw to 3.9 N·m (0.40 kgf-m, 2.9 ft-lb) and then loosen 20°.
5) Adjustment for RHD model
(1) Apply liquid gasket to at least 1/3 of entire perimeter of adjusting screw thread.
(2) Tighten adjusting screw to 9.8 N·m (1.0 kgf-m, 7.2 ft-lb) and then loosen.
(3) Tighten adjusting screw to 4.9 N·m (0.50 kgf-m, 3.6 ft-lb) and then loosen.
(4) Tighten adjusting screw to 4.9 N·m (0.50 kgf-m, 3.6 ft-lb) and then loosen 37°.



(A) Apply liquid gasket to at least 1/3 of entire perimeter

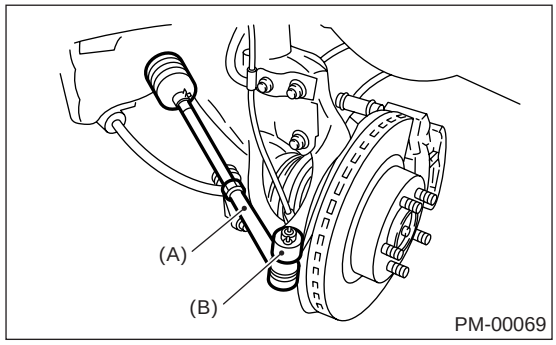
6) Install the lock nut. While holding adjusting screw with a wrench, tighten the lock nut using ST.
ST 926230000 SPANNER

Tightening torque (lock nut):
LHD model
25 N·m (2.5 kgf-m, 18.0 ft-lb)
RHD model
39 N·m (4.0 kgf-m, 28.9 ft-lb)

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

4. TIE-ROD

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



(A) Tie-rod end
(B) Knuckle arm

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

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

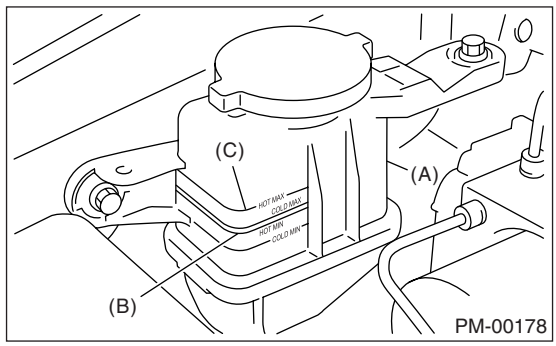
3) Check the lock nut on the tie-rod for tightness. If it is loose, retighten it to the specified torque.

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

5. POWER STEERING FLUID LEVEL

NOTE:
• At power steering fluid temperature 20°C (68°F); read the fluid level on the “COLD” side.
• At power steering fluid temperature 80°C (176°F); read the fluid level on the “HOT” side.

1) Place the vehicle with engine “OFF” on a level surface.
2) Remove the cover. (3.0 L and turbo model)
3) Check the fluid level using the scale on the outside of the reservoir tank (A). If the level is below “MIN” (B), add fluid to bring it up to “MAX” (C).



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

Recommended fluid:
Refer to "RM" section. <Ref. to RM-5, FLUID, RECOMMENDED MATERIALS, Recommended Materials.>

Fluid capacity:
0.8 ℓ (0.8 US qt, 0.7 Imp qt)

6. POWER STEERING FLUID FOR LEAKS

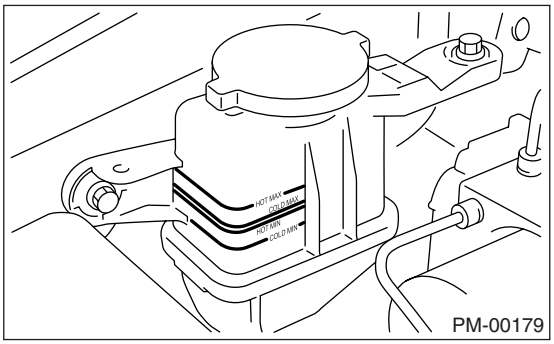
Inspect the underside of oil pump and gearbox of power steering system, hoses, pipes and their couplings for fluid leaks.
If the fluid leaks are found, retighten their fitting bolts (or nuts) and/or replace their parts.

NOTE:
• Wipe the leaked fluid off after correcting fluid leaks.
• Also pay attention to clearances between hoses (or pipes) and other parts when inspecting fluid leaks.

7. HOSES OF OIL PUMP FOR DAMAGES

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

NOTE:
Prevent hoses from turning and/or bending when installing hoses.



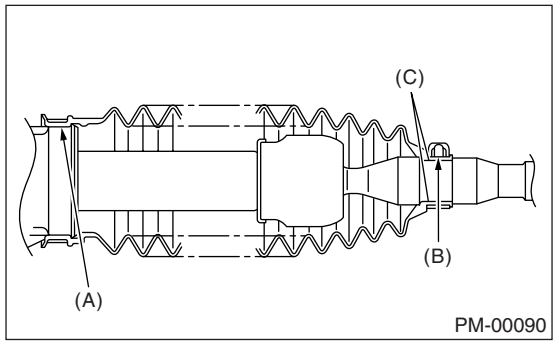
8. POWER STEERING PIPES FOR DAMAGES

Check the power steering pipes for corrosion and damage.
Replace the pipes with new ones if necessary.

9. GEARBOX BOOTS

Inspect both sides of the gearbox boot as follows, and correct the defects if necessary.
1) Positions (A) and (B) of the gearbox boot are fitted correspondingly in grooves (A) and (B) of the gearbox and rod (C).
2) Clips are fitted outside of positions (A) and (B) of boot.
3) Boot does not have crack and hole.

NOTE:
Rotate the position (B) of gearbox boot against the twist of it produced by adjustment of toe-in, etc. Apply grease to the groove (C).



10.FITTING BOLTS AND NUTS

Inspect the fitting bolts and nuts of oil pump and bracket for looseness, and retighten them if necessary.
Inspect and/or retighten them when engine is cold.