

## Foreword

### FOREWORD

---

## 1. Foreword

### A: FOREWORD

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

Applicable model: 2014 MY SJ\*\*\*\*\*

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

# HOW TO USE THIS MANUALS

*HU*

---

|                                  | Page |
|----------------------------------|------|
| 1. How to Use This Manuals ..... | 2    |

# How to Use This Manuals

## HOW TO USE THIS MANUALS

---

### 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.

## How to Use This Manuals

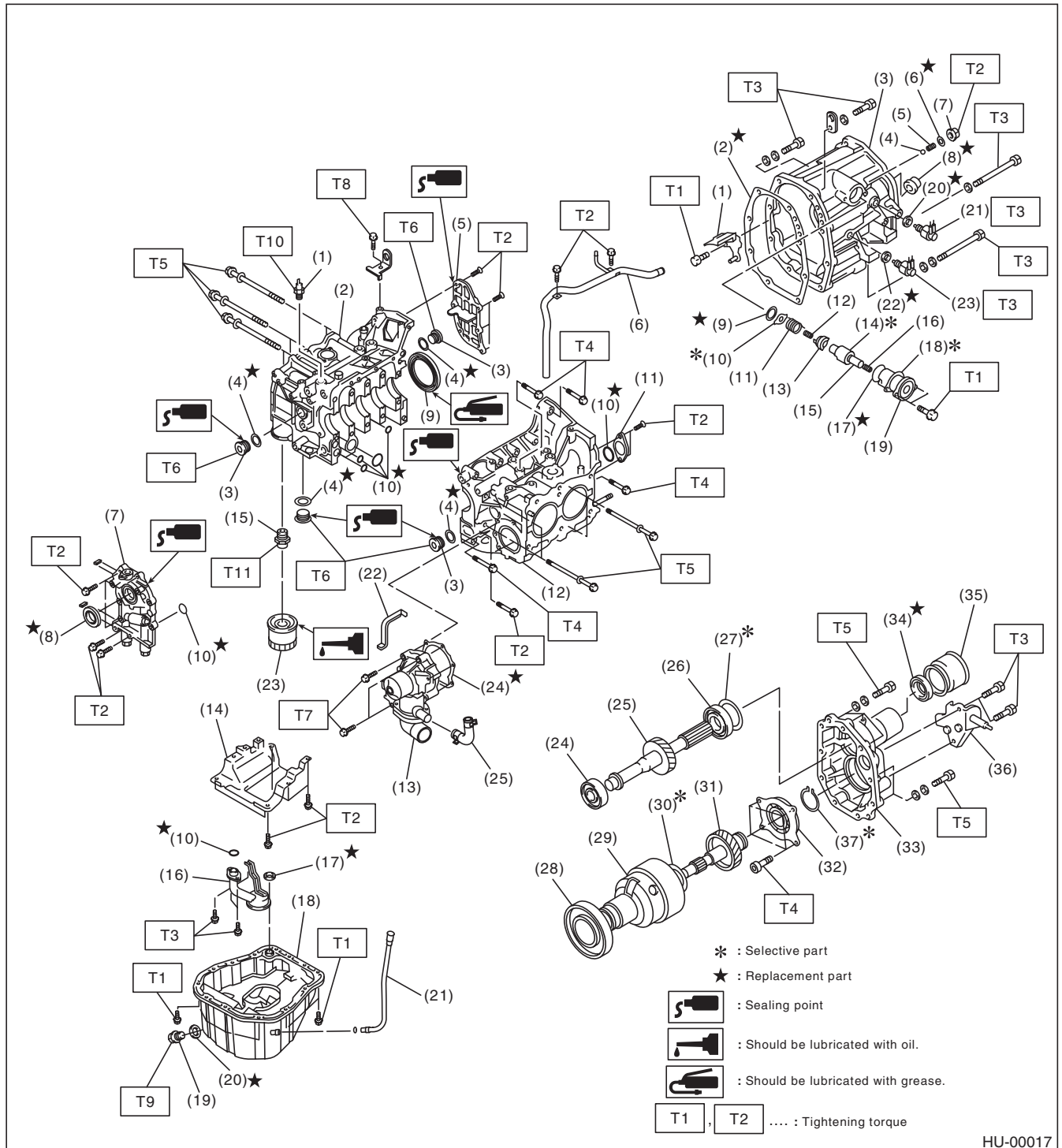
### HOW TO USE THIS MANUALS

#### 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:**



HU-00017

## How to Use This Manuals

### HOW TO USE THIS MANUALS

---

#### 4. DEFINITIONS OF “NOTE”, “CAUTION”, AND “WARNING”

- **NOTE:**

Describes additional information to make works easier.

- **CAUTION:**

Describes prohibited matters to prevent vehicle or parts damage, or matters that requires special attention during work.

- **WARNING:**

Describes matters that may cause serious damage to the operator or other person, or that may cause damage or accident.

#### 5. SPECIFICATIONS

If necessary, specifications are also included.

#### 6. INSPECTION

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



7. 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 part.

Example:

15.Main Shaft (A)

A: REMOVAL (B)

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

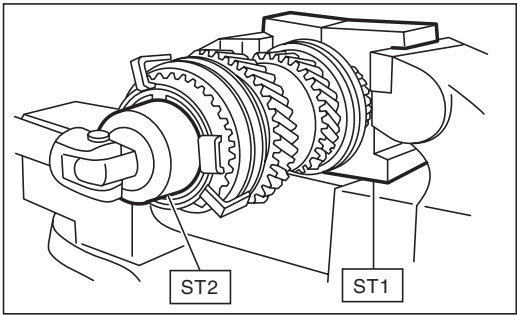
11) Tighten the lock nuts to the specified torque using ST1 and ST2.

NOTE: (D)  
Secure the lock nuts in two places after tightening.

ST1 498937000 TRANSMISSION HOLDER

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

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



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

8. DIAGNOSIS

Step-by-step process is employed for easier diagnosis.

## How to Use This Manuals

### HOW TO USE THIS MANUALS

#### 9. 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)***

#### List of SI unit

| Item                  | SI units                 | Conventional unit   | Remarks                           |
|-----------------------|--------------------------|---------------------|-----------------------------------|
| Force                 | N (Newton)               | kgf                 | 1 kgf = 9.807 N                   |
| Mass (Weight)         | kg, g                    | kg, g               |                                   |
| Capacity              | L, mL or cm <sup>3</sup> | L or cc             | 1 cc = 1 cm <sup>3</sup> = 1 mL   |
| Torque                | N·m                      | kgf-m, kgf-cm       | 1 kgf-m = 9.807 N·m               |
| Rotating speed        | rpm                      | rpm                 |                                   |
| Pressure              | kPa (Kilopascal)         | kgf/cm <sup>2</sup> | 1 kgf/cm <sup>2</sup> = 98.07 kPa |
|                       |                          | mmHg                | 1 mmHg = 0.1333 kPa               |
| Power                 | W                        | PS                  | 1 PS = 0.7355 kW                  |
| Calorie               | W·h                      | cal                 | 1 kcal = 1.163 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 ( ).



# How to Use This Manuals

## HOW TO USE THIS MANUALS

### 10.EXPLANATION OF TERMINOLOGY

#### List

|         |                                              |
|---------|----------------------------------------------|
| 2ndr    | Secondary                                    |
| AAI     | Air Assist Injection                         |
| AAR     | Angular Adjusted Roller                      |
| A/B     | Air Bag                                      |
| ABS     | Anti-lock Brake System                       |
| A/C     | Air Conditioner                              |
| AC      | Angular Contact                              |
| ACC     | Accessory                                    |
| A/F     | Air Fuel Ratio                               |
| ALT     | Generator                                    |
| APS     | Accessory Power Supply Socket                |
| ASSY    | Assembly                                     |
| AT      | Automatic Transmission                       |
| ATF     | Automatic Transmission Fluid                 |
| AUX     | Auxiliary Storage Unit (External storage)    |
| AVCS    | Active Valve Control System                  |
| AWD     | All Wheel Drive                              |
| BATT    | Battery                                      |
| BCU     | Brake Control Module                         |
| BJ      | Bell Joint                                   |
| CAN     | Controller Area Network                      |
| CD      | Compact Disc                                 |
| CD-R/RW | CD Recordable/Rewritable                     |
| COMPL   | Complete                                     |
| CPC     | Canister Purge Control Solenoid Valve        |
| CPU     | Central Processing Unit                      |
| CU      | Control Module                               |
| CVT     | Continuously Variable Transmission           |
| CVTF    | Continuously Variable Transmission Fluid     |
| DCCD    | Driver's Control Center Differential         |
| DOHC    | Double Overhead Camshaft                     |
| DOJ     | Double Offset Joint                          |
| DTC     | Diagnosis Trouble Code                       |
| DU      | Drive Unit                                   |
| DVD     | Digital Versatile Disc or Digital Video Disc |
| EBD     | Electronic Brake Distribution                |
| EBJ     | High-Efficiency Compact Ball Fixed Joint     |
| ECM     | Engine Control Module                        |
| EDJ     | High-Efficiency Compact Double Offset Joint  |
| E/G     | Engine                                       |
| EGL     | Electronic Gasoline Injection                |
| EGR     | Exhaust Gas Recirculation                    |
| ELR     | Emergency Locking Retractor                  |
| ETC     | Electronic Throttle Control                  |
| EX      | Exhaust                                      |
| F/B     | Fuse & Joint Box                             |
| FL      | Fusible Link                                 |
| Ft      | Front                                        |

|      |                                        |
|------|----------------------------------------|
| FWD  | Front Wheel Drive                      |
| GPS  | Global Positioning System              |
| HI   | High                                   |
| HID  | High-Intensity Discharge               |
| H/L  | Headlight                              |
| H/U  | Hydraulic Unit                         |
| HVAC | Heater, Ventilator and Air Conditioner |
| I/F  | Interface                              |
| IG   | Ignition                               |
| IN   | Intake                                 |
| INT  | Intermittent                           |
| I/O  | Input/Output                           |
| IR   | Infrared Ray                           |
| ISC  | Idle Speed Control                     |
| LAN  | Local Area Network                     |
| LCD  | Liquid Crystal Display                 |
| LED  | Light Emitting Diode                   |
| LH   | LH (Left Hand)                         |
| LHD  | Left Hand Drive                        |
| LSD  | Limited Slip Differential              |
| M/B  | Main Fuse & Relay Box                  |
| MD   | Mini Disc                              |
| MID  | Multi-Information Display              |
| MFI  | Multi-Point Fuel Injection             |
| MP-T | Multi-Plate Transfer                   |
| MT   | Manual Transmission                    |
| NA   | Natural Aspiration                     |
| NC   | Normal Close (Relay)                   |
| NO   | Normal Open (Relay)                    |
| OBD  | On-Board Diagnosis                     |
| OP   | Option Parts                           |
| PC   | Personal Computer                      |
| PCD  | Pitch Circle Diameter                  |
| PCV  | Positive Crankcase Ventilation         |
| PID  | Parameter Identification               |
| Pr   | Primary                                |
| PRG  | Power Rear Gate                        |
| P/S  | Power Steering                         |
| PTJ  | Pillow Tripod Joint                    |
| P/W  | Power Window                           |
| RAM  | Random Access Memory                   |
| RH   | RH (Right Hand)                        |
| RHD  | Right Hand Drive                       |
| ROM  | Read Only Memory                       |
| rpm  | Revolution Per Minute                  |
| Rr   | Rear                                   |
| SDI  | Subaru Diagnostic Interface            |
| SI   | Subaru Intelligent                     |
| SOHC | Single Overhead Camshaft               |

## How to Use This Manuals

### HOW TO USE THIS MANUALS

---

|       |                                 |
|-------|---------------------------------|
| SRS   | Supplemental Restraint System   |
| SSM   | Subaru Select Monitor           |
| ST    | Special Tool                    |
| STD   | Standard                        |
| SW    | Switch                          |
| T/B   | Turbocharger                    |
| TCS   | Traction Control System         |
| TCM   | Transmission Control Module     |
| TGV   | Tumble Generator Valve          |
| T/M   | Transmission                    |
| TPMS  | Tire Pressure Monitoring System |
| UJ    | Universal Joint                 |
| UV    | Ultraviolet                     |
| VDC   | Vehicle Dynamics Control        |
| VIN   | Vehicle Identification Number   |
| ViS-C | Viscous Coupling                |
| VSV   | Vacuum Switching Valve          |
| VTD   | Variable Torque Distribution    |
| W/H   | Wiring Harness                  |

# SPECIFICATIONS

*SPC*

---

|                   | Page |
|-------------------|------|
| 1. Forester ..... | 2    |



# Forester

## SPECIFICATIONS

### 1. Forester

#### A: DIMENSION

| Model                  |             | 2.5 L non-turbo                                                               | 2.0 L turbo                                                             |
|------------------------|-------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Overall length         | mm (in)     | 4,595 (180.9)                                                                 |                                                                         |
| Overall width          | mm (in)     | 1,795 (70.7)                                                                  |                                                                         |
| Overall height         | mm (in)     | Models without roof rail: 1,685 (66.3)<br>Models with roof rail: 1,735 (68.2) |                                                                         |
| Compartment            | Length      | mm (in)                                                                       | 2,095 (82.5)                                                            |
|                        | Width       | mm (in)                                                                       | 1,540 (60.6)                                                            |
|                        | Height      | mm (in)                                                                       | Model without sunroof: 1,280 (50.4)<br>Model with sunroof: 1,245 (49.0) |
| Wheelbase              | mm (in)     | 2,640 (103.9)                                                                 |                                                                         |
| Tread                  | Front wheel | mm (in)                                                                       | 1,545 (60.9)                                                            |
|                        | Rear wheel  | mm (in)                                                                       | 1,550 (61.1)                                                            |
| Minimum road clearance | mm (in)     | 220 (8.7)                                                                     |                                                                         |

#### B: ENGINE

| Model                                     |                         | 2.5 L non-turbo                                                           | 2.0 L turbo               |
|-------------------------------------------|-------------------------|---------------------------------------------------------------------------|---------------------------|
| Engine type                               |                         | Horizontally opposed, liquid cooled, 4-cylinder, 4-stroke gasoline engine |                           |
| Valve arrangement                         |                         | Overhead camshaft type                                                    |                           |
| Bore × stroke                             | mm (in)                 | 94.0 × 90.0 (3.70 × 3.54)                                                 | 86.0 × 86.0 (3.39 × 3.39) |
| Displacement                              | cm <sup>3</sup> (cu in) | 2,498 (152.43)                                                            | 1,998 (121.92)            |
| Compression ratio                         |                         | 10.0                                                                      | 10.6                      |
| Ignition order                            |                         | 1 — 3 — 2 — 4                                                             |                           |
| Idle speed at parking or neutral position | rpm                     | MT: 650±100<br>CVT: 675±100                                               | 700±100                   |
| Maximum output                            | hp (PS)/rpm             | 170 (172)/5,800                                                           | 250 (253)/5,600           |
| Maximum torque                            | lb-ft (kgf-m)/rpm       | 174 (24.0)/4,100                                                          | 258 (35.7)/2,000 — 4,800  |

#### C: ELECTRICAL

| Model                               |                         | 2.5 L non-turbo                     | 2.0 L turbo |
|-------------------------------------|-------------------------|-------------------------------------|-------------|
| Ignition timing/Idle speed BTDC/rpm |                         | MT: 16°±10°/650<br>CVT: 16°±10°/675 | 10°±10°/700 |
| Spark plug                          | NGK                     | SILZKAR7B11                         | ILKAR8H6    |
| Generator                           |                         | 12 V — 130 A                        |             |
| Battery                             | Type and capacity (5HR) | 12 V — 48 AH (55D23L)               |             |
|                                     | CCA                     | 390 A                               |             |

**D: TRANSMISSION****1. MT**

| Model                  |                    | 2.5 L non-turbo |         |
|------------------------|--------------------|-----------------|---------|
| Transmission           |                    | 6MT             |         |
| Clutch type            |                    | DSPD            |         |
| Gear ratio             | 1st                | 3.454           |         |
|                        | 2nd                | 1.888           |         |
|                        | 3rd                | 1.296           |         |
|                        | 4th                | 0.972           |         |
|                        | 5th                | 0.780           |         |
|                        | 6th                | 0.695           |         |
|                        | Rev.               | 3.636           |         |
| Reduction gear (front) |                    | Type of gear    | Hypoid  |
|                        |                    | Gear ratio      | 4.444   |
| Reduction gear (rear)  | Transfer reduction | Type of gear    | Helical |
|                        |                    | Gear ratio      | 1.000   |
|                        | Final reduction    | Type of gear    | Hypoid  |
|                        |                    | Gear ratio      | 4.444   |

6MT: 6-forward speeds and 1-reverse with synchromesh

DSPD: Dry Single Plate Diaphragm

**2. CVT**

| Model                    |                 |              | 2.5 L non-turbo |        | 2.0 L turbo   |       |               |  |
|--------------------------|-----------------|--------------|-----------------|--------|---------------|-------|---------------|--|
| Transmission type        |                 |              | CVT             |        |               |       |               |  |
| Clutch type              |                 |              | TCC             |        |               |       |               |  |
| Gear ratio               |                 |              | Forward         |        | 3.581 — 0.570 |       | 3.505 — 0.544 |  |
|                          |                 |              | Reverse         |        | 3.667         |       | 2.345         |  |
| Reduction gear (front)   | Final reduction | Type of gear |                 | Hypoid |               |       |               |  |
|                          |                 | Gear ratio   |                 | 3.700  |               | 4.111 |               |  |
| Transfer reduction ratio |                 |              | 1.000           |        |               |       |               |  |
| Reduction gear (rear)    |                 |              | Type of gear    |        | Hypoid        |       |               |  |
|                          |                 |              | Gear ratio      |        | 3.700         |       | 4.111         |  |

TCC: Torque Converter Clutch

CVT: Forward continuously variable speed change, 1-reverse

**E: STEERING**

| Type                   | Rack & pinion type      |            |
|------------------------|-------------------------|------------|
|                        | Electric power steering |            |
| Turns, lock to lock    | 3.1                     |            |
| Minimum turning radius | m (ft)                  | 5.3 (17.4) |

**F: SUSPENSION**

| Front | Macpherson strut type independent suspension |
|-------|----------------------------------------------|
| Rear  | Double-wishbone type independent suspension  |

# Forester

## SPECIFICATIONS

### G: BRAKE

|                      |                                                         |                       |
|----------------------|---------------------------------------------------------|-----------------------|
| Service brake system | Dual circuit hydraulic with vacuum suspended power unit |                       |
| Front                | Ventilated disc brake                                   |                       |
| Rear                 | Solid disc brake                                        | Ventilated disc brake |
| Parking brake        | Mechanical on rear brakes                               |                       |

### H: TIRE

|           |                               |                |
|-----------|-------------------------------|----------------|
| Rim size  | 17 × 7J                       | 18 × 7J        |
| Tire size | P225/60R17 98H                | P225/55R18 97H |
| Type      | Tubeless, steel belted radial |                |

### I: CAPACITY

| Model                       |                              |                                          | 2.5 L non-turbo |                                          | 2.0 L turbo                              |
|-----------------------------|------------------------------|------------------------------------------|-----------------|------------------------------------------|------------------------------------------|
| Transmission                |                              |                                          | MT              | CVT                                      | CVT                                      |
| Fuel tank                   | L (US gal, Imp gal)          |                                          | 60 (15.9, 13.2) |                                          |                                          |
| Engine oil                  | Total capacity (at overhaul) | L (US qt, Imp qt)                        | 5.7 (6.0, 5.0)  |                                          | 6.0 (6.3, 5.3)                           |
|                             | Filling amount of engine oil | When replacing engine oil and oil filter | 4.8 (5.1, 4.2)  |                                          | 5.1 (5.4, 4.5)                           |
|                             | L (US qt, Imp qt)            | When replacing engine oil only           | 4.6 (4.9, 4.0)  |                                          | 4.9 (5.2, 4.3)                           |
| Transmission oil            | L (US qt, Imp qt)            |                                          | 3.3 (3.5, 2.9)  | —                                        | —                                        |
| CVTF                        | L (US qt, Imp qt)            |                                          | —               | 11.93 — 12.43 (12.6 — 13.1, 10.5 — 10.9) | 12.11 — 12.61 (12.8 — 13.3, 10.7 — 11.1) |
| Front differential gear oil | L (US qt, Imp qt)            |                                          | —               | 1.3 — 1.4 (1.4 — 1.5, 1.1 — 1.2)         | 1.3 — 1.5 (1.4 — 1.6, 1.1 — 1.3)         |
| Rear differential gear oil  | L (US qt, Imp qt)            |                                          | 0.8 (0.8, 0.7)  |                                          |                                          |
| Engine coolant              | L (US qt, Imp qt)            |                                          | 7.4 (7.8, 6.5)  | 7.6 (8.0, 6.7)                           | 8.9 (9.4, 7.8)                           |

# Forester

## SPECIFICATIONS

### J: WEIGHT

Non-turbo model

| Option code*1                    |                                                       |            | U5                   |                  | C0               |                  | C4               | U5               |                  |
|----------------------------------|-------------------------------------------------------|------------|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                  |                                                       |            | XA                   |                  | YA               |                  | HF               | WF               | LF               |
| Engine type                      |                                                       |            | 2.5 L DOHC non-turbo |                  |                  |                  |                  |                  |                  |
| Model                            |                                                       |            | 2.5 i                |                  | 2.5 i Plus       |                  | 2.5 i Premium    |                  |                  |
|                                  |                                                       |            | AWD                  |                  |                  |                  |                  |                  |                  |
| Transmission                     |                                                       |            | 6MT                  | CVT              | 6MT              | CVT              | 6MT              |                  |                  |
| Curb weight (C.W.)               | Total                                                 | kg<br>(lb) | 1,495<br>(3,296)     | 1,527<br>(3,366) | 1,498<br>(3,302) | 1,530<br>(3,373) | 1,490<br>(3,285) | 1,490<br>(3,285) | 1,490<br>(3,285) |
|                                  | Front                                                 | kg<br>(lb) | 851<br>(1,875)       | 866<br>(1,915)   | 852<br>(1,879)   | 868<br>(1,919)   | 848<br>(1,869)   | 848<br>(1,869)   | 848<br>(1,869)   |
|                                  | Rear                                                  | kg<br>(lb) | 644<br>(1,421)       | 661<br>(1,451)   | 646<br>(1,423)   | 662<br>(1,454)   | 642<br>(1,416)   | 642<br>(1,416)   | 642<br>(1,416)   |
| Gross vehicle weight (G.V.W.)    |                                                       |            | kg<br>(lb)           | 2,032<br>(4,480) | 2,032<br>(4,480) | 2,032<br>(4,480) | 2,032<br>(4,480) | 2,032<br>(4,480) | 2,032<br>(4,480) |
| Gross axle weight ratio (G.A.W.) | Front                                                 | kg<br>(lb) | 1,048<br>(2,310)     | 1,048<br>(2,310) | 1,048<br>(2,310) | 1,048<br>(2,310) | 1,048<br>(2,310) | 1,048<br>(2,310) | 1,048<br>(2,310) |
|                                  | Rear                                                  | kg<br>(lb) | 1,093<br>(2,410)     | 1,093<br>(2,410) | 1,093<br>(2,410) | 1,093<br>(2,410) | 1,093<br>(2,410) | 1,093<br>(2,410) | 1,093<br>(2,410) |
| Option                           | Aluminum wheel (17-inch)                              |            | —                    | —                | —                | —                | ○                | ○                | ○                |
|                                  | Aluminum wheel (18-inch)                              |            | —                    | —                | —                | —                | —                | —                | —                |
|                                  | HID headlight                                         |            | —                    | —                | —                | —                | —                | —                | —                |
|                                  | Dark colored glass                                    |            | —                    | —                | ○                | ○                | ○                | ○                | ○                |
|                                  | Sunroof                                               |            | —                    | —                | —                | —                | —                | —                | —                |
|                                  | Auto light                                            |            | —                    | —                | —                | —                | ○                | —                | —                |
|                                  | Cold weather package                                  |            | —                    | —                | —                | —                | —                | —                | ○                |
|                                  | Leather seats and leather door trim center decoration |            | —                    | —                | —                | —                | —                | —                | —                |
|                                  | Power seat                                            |            | —                    | —                | —                | —                | ○                | ○                | ○                |
|                                  | Navigation system                                     |            | —                    | —                | —                | —                | —                | —                | —                |
|                                  | Harman/kardon audio + high grade audio                |            | —                    | —                | —                | —                | —                | —                | —                |
|                                  | Harman/kardon audio + navigation                      |            | —                    | —                | —                | —                | —                | —                | —                |
|                                  | Without audio                                         |            | —                    | —                | —                | —                | —                | —                | —                |
|                                  | Keyless access with push button start                 |            | —                    | —                | —                | —                | —                | —                | —                |
|                                  | Power rear gate                                       |            | —                    | —                | —                | —                | —                | —                | —                |
|                                  | Side & curtain airbags                                |            | ○                    | ○                | ○                | ○                | ○                | ○                | ○                |

\*1: For option codes, refer to the ID section. <Ref. to ID-5, MODEL NUMBER LABEL, IDENTIFICATION, Identification.>

# Forester

## SPECIFICATIONS

| Option code*1                    |                                                       |            | C0                   |                  | C4               | C5               |                  |                  | U5               |                  |                  |
|----------------------------------|-------------------------------------------------------|------------|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                  |                                                       |            | HF                   | JF               | HF               | HF               | JF               | 63               | IF               | TF               | TP               |
| Engine type                      |                                                       |            | 2.5 L DOHC non-turbo |                  |                  |                  |                  |                  |                  |                  |                  |
| Model                            |                                                       |            | 2.5 i Premium        |                  |                  |                  |                  |                  |                  |                  |                  |
| Transmission                     |                                                       |            | AWD                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                                  |                                                       |            | CVT                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Curb weight (C.W.)               | Total                                                 | kg<br>(lb) | 1,523<br>(3,358)     | 1,538<br>(3,391) | 1,523<br>(3,358) | 1,523<br>(3,358) | 1,538<br>(3,391) | 1,523<br>(3,358) | 1,538<br>(3,391) | 1,538<br>(3,391) | 1,539<br>(3,393) |
|                                  | Front                                                 | kg<br>(lb) | 864<br>(1,910)       | 872<br>(1,929)   | 864<br>(1,910)   | 864<br>(1,910)   | 872<br>(1,929)   | 864<br>(1,910)   | 872<br>(1,929)   | 872<br>(1,929)   | 873<br>(1,931)   |
|                                  | Rear                                                  | kg<br>(lb) | 659<br>(1,447)       | 666<br>(1,461)   | 659<br>(1,447)   | 659<br>(1,447)   | 666<br>(1,461)   | 659<br>(1,447)   | 666<br>(1,461)   | 666<br>(1,461)   | 666<br>(1,462)   |
| Gross vehicle weight (G.V.W.)    |                                                       |            | kg<br>(lb)           | 2,032<br>(4,480) | 2,032<br>(4,480) | 2,032<br>(4,480) | 2,032<br>(4,480) | 2,032<br>(4,480) | 2,032<br>(4,480) | 2,032<br>(4,480) | 2,032<br>(4,480) |
| Gross axle weight ratio (G.A.W.) | Front                                                 | kg<br>(lb) | 1,048<br>(2,310)     | 1,048<br>(2,310) | 1,048<br>(2,310) | 1,048<br>(2,310) | 1,048<br>(2,310) | 1,048<br>(2,310) | 1,048<br>(2,310) | 1,048<br>(2,310) | 1,048<br>(2,310) |
|                                  | Rear                                                  | kg<br>(lb) | 1,093<br>(2,410)     | 1,093<br>(2,410) | 1,093<br>(2,410) | 1,093<br>(2,410) | 1,093<br>(2,410) | 1,093<br>(2,410) | 1,093<br>(2,410) | 1,093<br>(2,410) | 1,093<br>(2,410) |
| Option                           | Aluminum wheel (17-inch)                              |            | ○                    | ○                | ○                | ○                | ○                | ○                | ○                | ○                | ○                |
|                                  | Aluminum wheel (18-inch)                              |            | —                    | —                | —                | —                | —                | —                | —                | —                | —                |
|                                  | HID headlight                                         |            | —                    | —                | —                | —                | —                | —                | —                | —                | —                |
|                                  | Dark colored glass                                    |            | ○                    | ○                | ○                | ○                | ○                | ○                | ○                | ○                | ○                |
|                                  | Sunroof                                               |            | —                    | ○                | —                | —                | ○                | —                | ○                | ○                | ○                |
|                                  | Auto light                                            |            | ○                    | ○                | ○                | ○                | ○                | ○                | —                | —                | —                |
|                                  | Cold weather package                                  |            | —                    | ○                | —                | —                | ○                | —                | —                | ○                | ○                |
|                                  | Leather seats and leather door trim center decoration |            | —                    | —                | —                | —                | —                | —                | —                | —                | —                |
|                                  | Power seat                                            |            | ○                    | ○                | ○                | ○                | ○                | ○                | ○                | ○                | ○                |
|                                  | Navigation system                                     |            | —                    | —                | —                | —                | —                | —                | —                | —                | ○                |
|                                  | Harman/kardon audio + high grade audio                |            | —                    | —                | —                | —                | —                | —                | —                | —                | —                |
|                                  | Harman/kardon audio + navigation                      |            | —                    | —                | —                | —                | —                | —                | —                | —                | —                |
|                                  | Without audio                                         |            | —                    | —                | —                | —                | —                | —                | —                | —                | —                |
|                                  | Keyless access with push button start                 |            | —                    | —                | —                | —                | —                | —                | —                | —                | —                |
|                                  | Power rear gate                                       |            | —                    | —                | —                | —                | —                | —                | —                | —                | —                |
|                                  | Side & curtain airbags                                |            | ○                    | ○                | ○                | ○                | ○                | ○                | ○                | ○                | ○                |

\*1: For option codes, refer to the ID section. <Ref. to ID-5, MODEL NUMBER LABEL, IDENTIFICATION, Identification.>

# Forester

## SPECIFICATIONS

| Option code*1                    |                                                       |            | C0                   | C0               | C4               |                  | U5               |                  |                  |                  |
|----------------------------------|-------------------------------------------------------|------------|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                  |                                                       |            | JB                   | JB               | KG               | JG               | JM               | JZ               | JK               | JV               |
| Engine type                      |                                                       |            | 2.5 L DOHC non-turbo |                  |                  |                  |                  |                  |                  |                  |
| Model                            |                                                       |            | 2.5 i Limited        |                  |                  |                  |                  |                  |                  |                  |
|                                  |                                                       |            | AWD                  |                  |                  |                  |                  |                  |                  |                  |
| Transmission                     |                                                       |            | 6MT                  |                  | CVT              |                  |                  |                  |                  |                  |
| Curb weight (C.W.)               | Total                                                 | kg<br>(lb) | 1,514<br>(3,338)     | 1,548<br>(3,413) | 1,547<br>(3,411) | 1,546<br>(3,408) | 1,546<br>(3,408) | 1,551<br>(3,419) | 1,552<br>(3,422) | 1,556<br>(3,430) |
|                                  | Front                                                 | kg<br>(lb) | 861<br>(1,899)       | 878<br>(1,942)   | 877<br>(1,941)   | 877<br>(1,939)   | 877<br>(1,939)   | 879<br>(1,946)   | 880<br>(1,947)   | 882<br>(1,952)   |
|                                  | Rear                                                  | kg<br>(lb) | 653<br>(1,439)       | 670<br>(1,471)   | 670<br>(1,470)   | 669<br>(1,469)   | 669<br>(1,469)   | 672<br>(1,474)   | 672<br>(1,475)   | 674<br>(1,478)   |
| Gross vehicle weight (G.V.W.)    |                                                       |            | kg<br>(lb)           | 2,032<br>(4,480) | 2,032<br>(4,480) | 2,032<br>(4,480) | 2,032<br>(4,480) | 2,032<br>(4,480) | 2,032<br>(4,480) | 2,032<br>(4,480) |
| Gross axle weight ratio (G.A.W.) | Front                                                 | kg<br>(lb) | 1,048<br>(2,310)     | 1,048<br>(2,310) | 1,048<br>(2,310) | 1,048<br>(2,310) | 1,048<br>(2,310) | 1,048<br>(2,310) | 1,048<br>(2,310) | 1,048<br>(2,310) |
|                                  | Rear                                                  | kg<br>(lb) | 1,093<br>(2,410)     | 1,093<br>(2,410) | 1,093<br>(2,410) | 1,093<br>(2,410) | 1,093<br>(2,410) | 1,093<br>(2,410) | 1,093<br>(2,410) | 1,093<br>(2,410) |
| Option                           | Aluminum wheel (17-inch)                              |            | ○                    | ○                | ○                | ○                | ○                | ○                | ○                | ○                |
|                                  | Aluminum wheel (18-inch)                              |            | —                    | —                | —                | —                | —                | —                | —                | —                |
|                                  | HID headlight                                         |            | —                    | —                | ○                | —                | —                | —                | —                | —                |
|                                  | Dark colored glass                                    |            | ○                    | ○                | ○                | ○                | ○                | ○                | ○                | ○                |
|                                  | Sunroof                                               |            | ○                    | ○                | ○                | ○                | ○                | ○                | ○                | ○                |
|                                  | Auto light                                            |            | ○                    | ○                | ○                | ○                | ○                | ○                | ○                | ○                |
|                                  | Cold weather package                                  |            | ○                    | ○                | ○                | ○                | ○                | ○                | ○                | ○                |
|                                  | Leather seats and leather door trim center decoration |            | —                    | —                | ○                | ○                | ○                | ○                | ○                | ○                |
|                                  | Power seat                                            |            | ○                    | ○                | ○                | ○                | ○                | ○                | ○                | ○                |
|                                  | Navigation system                                     |            | —                    | —                | —                | —                | —                | —                | ○                | —                |
|                                  | Harman/kardon audio + high grade audio                |            | —                    | —                | —                | —                | —                | —                | —                | —                |
|                                  | Harman/kardon audio + navigation                      |            | —                    | —                | —                | —                | —                | —                | —                | ○                |
|                                  | Without audio                                         |            | —                    | —                | —                | —                | —                | —                | —                | —                |
|                                  | Keyless access with push button start                 |            | —                    | —                | ○                | ○                | —                | —                | —                | —                |
|                                  | Power rear gate                                       |            | ○                    | ○                | —                | —                | —                | ○                | ○                | ○                |
|                                  | Side & curtain airbags                                |            | ○                    | ○                | ○                | ○                | ○                | ○                | ○                | ○                |

\*1: For option codes, refer to the ID section. <Ref. to ID-5, MODEL NUMBER LABEL, IDENTIFICATION, Identification.>

# Forester

## SPECIFICATIONS

| Option code*1                    |                                                       |         | C0                   |               | C4            | U5            | C6            |               | C0                     |               | U5            |
|----------------------------------|-------------------------------------------------------|---------|----------------------|---------------|---------------|---------------|---------------|---------------|------------------------|---------------|---------------|
|                                  |                                                       |         | KU                   | KV            | KS            | JV            | VE            | JI            | KU                     | KV            | KR            |
| Engine type                      |                                                       |         | 2.5 L DOHC non-turbo |               |               |               |               |               |                        |               |               |
| Model                            |                                                       |         | 2.5 i Touring        |               |               |               |               |               | 2.5 i Touring EyeSight |               |               |
|                                  |                                                       |         | AWD                  |               |               |               |               |               |                        |               |               |
| Transmission                     |                                                       |         | CVT                  |               |               |               |               |               |                        |               |               |
| Curb weight (C.W.)               | Total                                                 | kg (lb) | 1,557 (3,433)        | 1,558 (3,435) | 1,553 (3,424) | 1,557 (3,433) | 1,529 (3,371) | 1,545 (3,406) | 1,559 (3,437)          | 1,560 (3,439) | 1,560 (3,439) |
|                                  | Front                                                 | kg (lb) | 883 (1,953)          | 883 (1,954)   | 881 (1,948)   | 883 (1,953)   | 867 (1,918)   | 876 (1,938)   | 884 (1,956)            | 885 (1,957)   | 885 (1,957)   |
|                                  | Rear                                                  | kg (lb) | 674 (1,479)          | 675 (1,480)   | 672 (1,476)   | 674 (1,479)   | 662 (1,453)   | 669 (1,468)   | 675 (1,481)            | 675 (1,482)   | 675 (1,482)   |
| Gross vehicle weight (G.V.W.)    |                                                       | kg (lb) | 2,032 (4,480)        | 2,032 (4,480) | 2,032 (4,480) | 2,032 (4,480) | 2,032 (4,480) | 2,032 (4,480) | 2,032 (4,480)          | 2,032 (4,480) | 2,032 (4,480) |
| Gross axle weight ratio (G.A.W.) | Front                                                 | kg (lb) | 1,048 (2,310)        | 1,048 (2,310) | 1,048 (2,310) | 1,048 (2,310) | 1,048 (2,310) | 1,048 (2,310) | 1,048 (2,310)          | 1,048 (2,310) | 1,048 (2,310) |
|                                  | Rear                                                  | kg (lb) | 1,093 (2,410)        | 1,093 (2,410) | 1,093 (2,410) | 1,093 (2,410) | 1,093 (2,410) | 1,093 (2,410) | 1,093 (2,410)          | 1,093 (2,410) | 1,093 (2,410) |
| Option                           | Aluminum wheel (17-inch)                              |         | ○                    | ○             | ○             | ○             | ○             | ○             | ○                      | ○             | ○             |
|                                  | Aluminum wheel (18-inch)                              |         | —                    | —             | —             | —             | —             | —             | —                      | —             | —             |
|                                  | HID headlight                                         |         | ○                    | ○             | ○             | —             | —             | —             | ○                      | ○             | ○             |
|                                  | Dark colored glass                                    |         | ○                    | ○             | ○             | ○             | —             | ○             | ○                      | ○             | ○             |
|                                  | Sunroof                                               |         | ○                    | ○             | ○             | ○             | —             | ○             | ○                      | ○             | ○             |
|                                  | Auto light                                            |         | ○                    | ○             | ○             | ○             | —             | ○             | ○                      | ○             | ○             |
|                                  | Cold weather package                                  |         | ○                    | ○             | ○             | ○             | ○             | ○             | ○                      | ○             | ○             |
|                                  | Leather seats and leather door trim center decoration |         | ○                    | ○             | ○             | ○             | —             | ○             | ○                      | ○             | ○             |
|                                  | Power seat                                            |         | ○                    | ○             | ○             | ○             | ○             | ○             | ○                      | ○             | ○             |
|                                  | Navigation system                                     |         | —                    | —             | —             | —             | —             | —             | —                      | —             | —             |
|                                  | Harman/kardon audio + high grade audio                |         | ○                    | —             | —             | —             | —             | —             | ○                      | —             | —             |
|                                  | Harman/kardon audio + navigation                      |         | —                    | ○             | —             | ○             | —             | —             | —                      | ○             | ○             |
|                                  | Without audio                                         |         | —                    | —             | —             | —             | —             | ○             | —                      | —             | —             |
|                                  | Keyless access with push button start                 |         | —                    | —             | ○             | —             | ○             | ○             | —                      | —             | ○             |
|                                  | Power rear gate                                       |         | ○                    | ○             | ○             | ○             | —             | —             | ○                      | ○             | ○             |
|                                  | Side & curtain airbags                                |         | ○                    | ○             | ○             | ○             | ○             | ○             | ○                      | ○             | ○             |

\*1: For option codes, refer to the ID section. <Ref. to ID-5, MODEL NUMBER LABEL, IDENTIFICATION, Identification.>

# Forester

## SPECIFICATIONS

### Turbo model

| Option code*1                    |                                                       |         | C0               |               | U4            |               | C0             |               | C4            | U4            | C0                      | U4            |
|----------------------------------|-------------------------------------------------------|---------|------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------------|---------------|
|                                  |                                                       |         | 4B               | MF            | 4P            | MF            | GU             | GV            | GS            | 4V            | GV                      | GR            |
| Engine type                      |                                                       |         | 2.0 L DOHC turbo |               |               |               |                |               |               |               |                         |               |
| Model                            |                                                       |         | 2.0 XT Premium   |               |               |               | 2.0 XT Touring |               |               |               | 2.0 XT Touring EyeSight |               |
|                                  |                                                       |         | AWD              |               |               |               |                |               |               |               |                         |               |
| Transmission                     |                                                       |         | CVT              |               |               |               |                |               |               |               |                         |               |
| Curb weight (C.W.)               | Total                                                 | kg (lb) | 1,647 (3,631)    | 1,644 (3,624) | 1,643 (3,622) | 1,644 (3,624) | 1,656 (3,651)  | 1,657 (3,653) | 1,652 (3,642) | 1,656 (3,651) | 1,668 (3,677)           | 1,668 (3,677) |
|                                  | Front                                                 | kg (lb) | 959 (2,066)      | 957 (2,062)   | 956 (2,061)   | 957 (2,062)   | 964 (2,077)    | 964 (2,079)   | 961 (2,072)   | 964 (2,077)   | 971 (2,092)             | 971 (2,092)   |
|                                  | Rear                                                  | kg (lb) | 688 (1,565)      | 687 (1,562)   | 687 (1,561)   | 687 (1,562)   | 692 (1,574)    | 693 (1,574)   | 691 (1,570)   | 692 (1,574)   | 697 (1,585)             | 697 (1,585)   |
| Gross vehicle weight (G.V.W.)    |                                                       | kg (lb) | 2,110 (4,652)    | 2,110 (4,652) | 2,110 (4,652) | 2,110 (4,652) | 2,110 (4,652)  | 2,110 (4,652) | 2,110 (4,652) | 2,110 (4,652) | 2,110 (4,652)           | 2,110 (4,652) |
| Gross axle weight ratio (G.A.W.) | Front                                                 | kg (lb) | 1,095 (2,414)    | 1,095 (2,414) | 1,095 (2,414) | 1,095 (2,414) | 1,095 (2,414)  | 1,095 (2,414) | 1,095 (2,414) | 1,095 (2,414) | 1,095 (2,414)           | 1,095 (2,414) |
|                                  | Rear                                                  | kg (lb) | 1,095 (2,414)    | 1,095 (2,414) | 1,095 (2,414) | 1,095 (2,414) | 1,095 (2,414)  | 1,095 (2,414) | 1,095 (2,414) | 1,095 (2,414) | 1,095 (2,414)           | 1,095 (2,414) |
| Option                           | Aluminum wheel (17-inch)                              |         | —                | —             | —             | —             | —              | —             | —             | —             | —                       | —             |
|                                  | Aluminum wheel (18-inch)                              |         | ○                | ○             | ○             | ○             | ○              | ○             | ○             | ○             | ○                       | ○             |
|                                  | HID headlight                                         |         | —                | —             | —             | —             | ○              | ○             | ○             | —             | ○                       | ○             |
|                                  | Dark colored glass                                    |         | ○                | ○             | ○             | ○             | ○              | ○             | ○             | ○             | ○                       | ○             |
|                                  | Sunroof                                               |         | ○                | ○             | ○             | ○             | ○              | ○             | ○             | ○             | ○                       | ○             |
|                                  | Auto light                                            |         | ○                | ○             | ○             | ○             | ○              | ○             | ○             | ○             | ○                       | ○             |
|                                  | Cold weather package                                  |         | ○                | —             | ○             | —             | ○              | ○             | ○             | ○             | ○                       | ○             |
|                                  | Leather seats and leather door trim center decoration |         | —                | —             | —             | —             | ○              | ○             | ○             | ○             | ○                       | ○             |
|                                  | Power seat                                            |         | ○                | ○             | ○             | ○             | ○              | ○             | ○             | ○             | ○                       | ○             |
|                                  | Navigation system                                     |         | —                | —             | ○             | —             | —              | —             | —             | —             | —                       | —             |
|                                  | Harman/kardon audio + high grade audio                |         | —                | —             | —             | —             | ○              | —             | —             | —             | —                       | —             |
|                                  | Harman/kardon audio + navigation                      |         | —                | —             | —             | —             | —              | ○             | —             | ○             | ○                       | ○             |
|                                  | Without audio                                         |         | —                | —             | —             | —             | —              | —             | —             | —             | —                       | —             |
|                                  | Keyless access with push button start                 |         | —                | —             | —             | —             | —              | —             | ○             | —             | —                       | ○             |
|                                  | Power rear gate                                       |         | ○                | —             | —             | —             | ○              | ○             | ○             | ○             | ○                       | ○             |
|                                  | Side & curtain airbags                                |         | ○                | ○             | ○             | ○             | ○              | ○             | ○             | ○             | ○                       | ○             |

\*1: For option codes, refer to the ID section. <Ref. to ID-5, MODEL NUMBER LABEL, IDENTIFICATION, Identification.>

# Forester

## SPECIFICATIONS

---



# PRECAUTION

*PC*

Page

|                     |   |
|---------------------|---|
| 1. Precaution ..... | 2 |
|---------------------|---|



## Precaution

### PRECAUTION

## 1. Precaution

### A: CAUTION

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

#### 1. VEHICLE DYNAMICS CONTROL (VDC)

Handle the VDC as a total system. Do not disassemble or attempt to repair parts which are not instructed in this manual. Follow the directions in this manual when performing maintenance on the VDCM&H/U. When parts other than those specified are disassembled, it could prevent the VDC system from operating when needed or cause it to operate incorrectly and result in injury.

#### 2. BRAKE FLUID

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

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

#### 3. 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.

#### 4. ROAD TEST

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

#### 5. AIRBAG

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

To prevent unexpected deployment, turn the ignition switch to OFF and disconnect the ground cable from battery, then wait at least 60 seconds to discharge electricity before starting work.

#### 6. AIRBAG AND SEAT BELT PRETENSIONER DISPOSAL

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

#### 7. AIRBAG MODULE

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

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

#### 8. AIRBAG SPECIAL TOOL

To prevent unexpected deployment, only use special tools.

#### 9. WINDOW

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

#### 10. WINDOW ADHESIVE

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

#### 11. OIL

When handling oil, adhere to the following to prevent unexpected accident.

- Prepare a container and cloth to prevent scattering of oil when performing work where oil can be spilled. If the fuel spills, wipe it off immediately to prevent from penetrating into floor or flowing out for environmental protection.
- Follow all government and local regulations concerning disposal of refuse when disposing.



## 12.FUEL

When handling and storing fuel, adhere to the following to prevent from unexpected accident.

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

## 13.ENGINE COOLANT

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

- Never remove the radiator cap since engine coolant may blow out when it is hot.
- Prepare a container and cloth to prevent scattering of engine coolant when performing work where engine coolant can be spilled. If the oil spills, wipe it off immediately to prevent from penetrating into floor or flowing out for environmental protection.
- Follow all government and local regulations concerning disposal of refuse when disposing.

## 14.AIR CONDITIONER REFRIGERANT

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

## 15.REMOVAL AND INSTALLATION OPERATION OF HOSES, ETC.

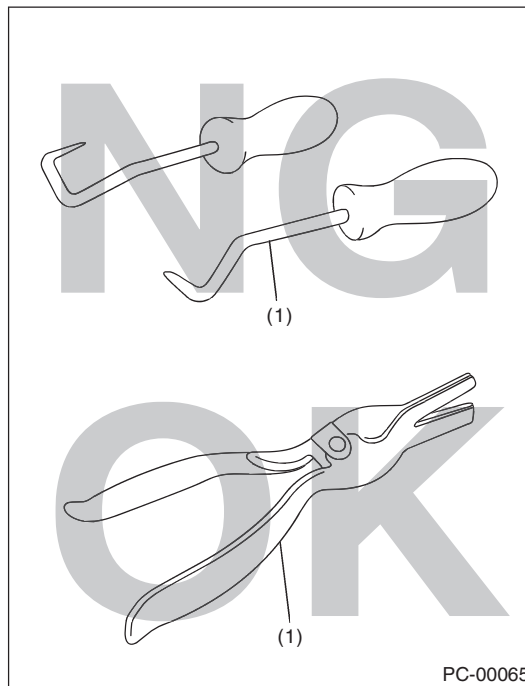
### 1. Before the removal and installation operation of hoses, etc.

- If you keep using the damaged or deformed hose, it results bleeds or leakage of the fat adheres or disconnection of the hose. Be careful not to spill fat adheres on exhaust pipes, etc. during maintenance to prevent emitting smoke or causing fires.
- Perform the operation with the hose removed. If the operation is performed without removing the hose, it may damage inner surface of the hose.

### 2. Removal and installation operation of hoses, etc. during the inspection

#### • Follow the instructions below when removing hose.

- Do not use a pointed hose remover (hose plucker) when using a general hose remover. It may damage the pipe surface or the hose.



PC-00065

(1) Hose remover

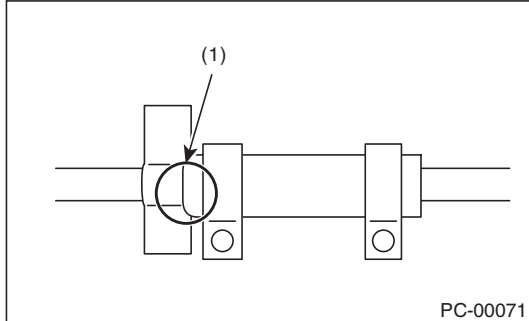
- When draining hose using pliers, be sure to cover the hose with cloth and rotate the hose slightly to extract straight.

## Precaution

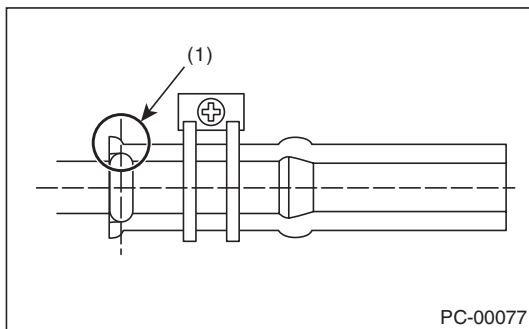
### PRECAUTION

- If you keep using the hose, perform the inspection below and replace the hose with a new part if faulty.

- Replace the hose with a new part if it rides over the stay or the top of spool.



(1) Hose rides over the stay

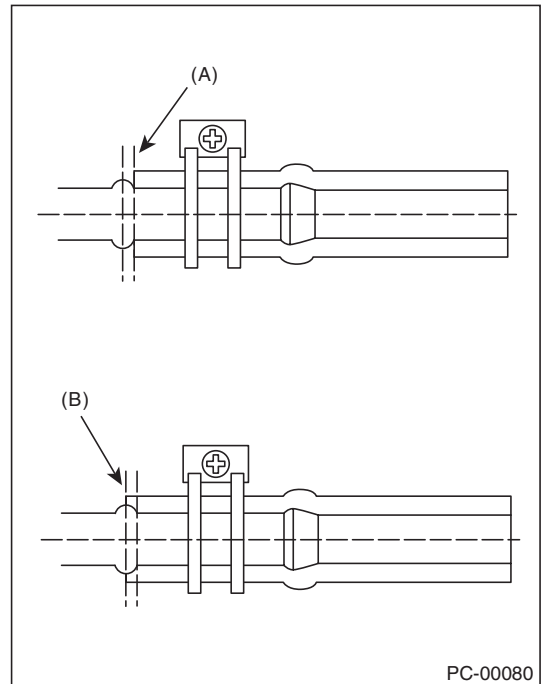
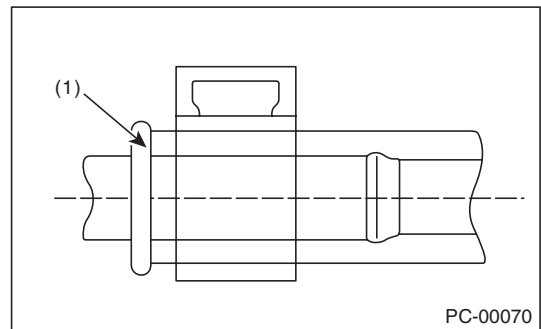
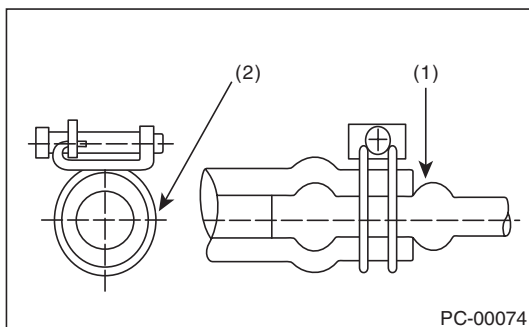


(1) Hose rides over the top of spool

- Check if the surface and the inner surface of the hose are damaged, cracked, bend, hardened, softened, swelled, peeled or deformed due to the adherence or the entry of the foreign matter by bending the hose. Replace with the new part if faulty.

- Follow the instructions below during installation.

- Check carefully for assembling position.
- Never use lubricants.
- Insert the hose to the specified position (stopper or spool) securely. (The stopper of the spool is between the top of the spool and the bottom section.)



- (1) Push against the spool. (Insert the hose and prevent it from becoming wrinkled.)
  - (2) Tighten the hose outwards and apply force thoroughly.
- (A) OK position (bottom of spool)  
(B) OK position (top of spool)

- Check if the position, direction and hose layout of the hose clamp are correct. (Check if the position, direction, length and the gap around are correct, or if it is different from the condition before the work)
- After the installation, check that the hose is installed securely and there is no leakage. (Check if it is fixed securely with the clamp)

## Precaution

PRECAUTION

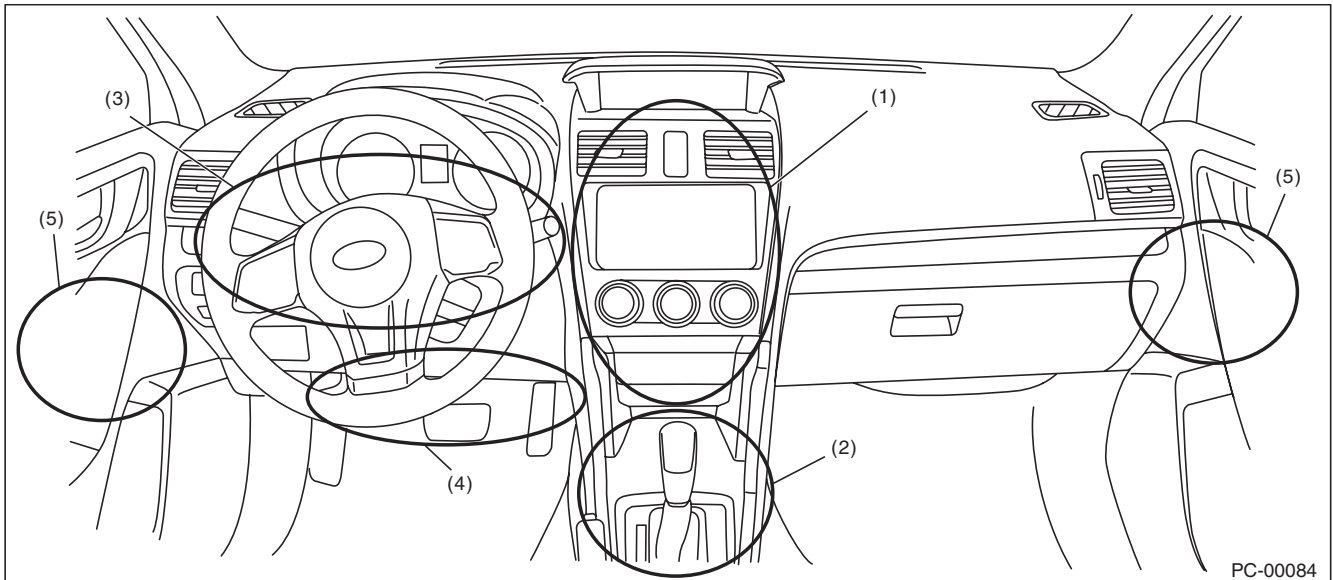
- **For hose clips and hose clamps, perform the inspection below and replace them with a new part if faulty.**
  - Check for deformation, rust, damage or foreign matters.
  - For hose clip, check if it works and has clamping force.
  - For hose clamp, check if it can tighten screw, not ovalized or the screw is not damaged.
- **For hose pipes, perform the inspection below and replace with a new part if faulty.**  
Check if the pipe is not damaged, rusted, peeled (peeled plates included), covered with foreign matter, bent, compressed or cracked.
- **For the parts below, replaces with a new part when the hose is removed or the installation position is changed.**

CVTF cooler hose, engine oil cooler hose, fuel hose (delivery/return)

### 16.HANDLING PRECAUTIONS FOR SILICON-CONTAINING SPRAY

When a silicone contained in the lubricant, rust inhibitor or glazing agent adheres to the electrical contact of the relay or switch, nonconducting silica dioxide ( $\text{SiO}_2$ ) film will be formed, which may lead to poor continuity. Therefore, the following precautions must be observed when using the silicon-containing spray.

- Never spray directly to the electrical equipment.
- When using the spray close to the electrical equipment, always put the cover on it. Be sure to put the cover on the electrical equipment especially when using the spray to the locations shown in the figure below and their surrounding areas.



- |                                               |                                                                               |                         |
|-----------------------------------------------|-------------------------------------------------------------------------------|-------------------------|
| (1) Audio, heater control switch              | (3) Combination switch, steering switch                                       | (5) Power window switch |
| (2) Shift/select lever switch, parking switch | (4) Stop light switch, brake light switch, clutch switch, clutch start switch |                         |

- If the residual silicon remains in the vicinity of the electrical equipment after the spray has been used, the vaporized silicon stands around the electrical equipment and it may adhere to electrical contact. After using the spray, be sure to wipe the silicon off with a cloth.
- Even when using the spray to the place away from the electrical equipment, the droplet of the spray may be splashed to the periphery. Use as small amount of spray as possible, and take care not to splash the silicon to the periphery.

#### NOTE:

The "silicon" used in this section refers to "silicone", that is, silicon polymer.

## Precaution

PRECAUTION

---

# NOTE

*NT*

Page

1. Note .....2



## Note

### NOTE

## 1. Note

### A: BASIC REPAIR HINT

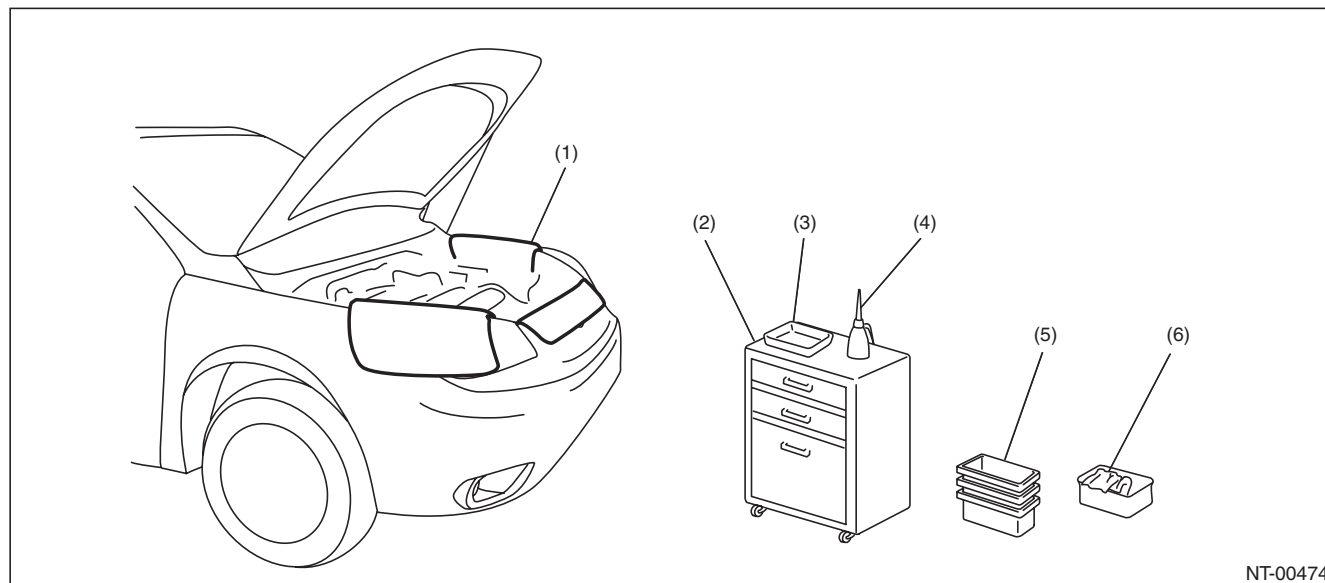
This section describes basic points that the service operator must understand before performing the service operation.

#### 1. APPEARANCE

- Always wear clean work clothing.
- Wear a cap and protective shoes.

#### 2. PROTECTION OF VEHICLE UNDER MAINTENANCE AND PREPARATION OF TOOLS/EQUIPMENT

- Before work, cover the vehicle body. (Ex. grille cover, fender cover, seat cover and floor mat cover)
- Before performing the service operation, prepare tools, equipment, container box, grease and cloth etc.



- (1) Fender cover  
(2) Tools/equipment case

- (3) Tray  
(4) Oil

- (5) Container box  
(6) Cloth

#### 3. SAFETY

- Before work, set the wheel stoppers to secure the vehicle.
- When performing work by multiple workers, call to each other to make sure that service operation is performed safely.
- Ventilate the room when starting the engine.
- When performing the service operation of high-temperature parts like muffler, or rotating parts like fan and other movable parts, be careful not to get burned or injured.
- For the jack-up and lift up, set the tool to the proper location to support the vehicle correctly. And use the safety device properly when lifting up.

#### 4. SERVICE OPERATION

- By identifying the vehicle problems thoroughly before service operation, diagnostics work will be performed effectively.
- Before removing parts, confirm the installation condition or the damage of the parts.
- To reinstall parts properly, leave a note of the condition before work as necessary.
- For a part which needs positioning, take appropriate action such as putting alignment marks.
- For a removed part, clean it as necessary and check for damage and defect before installation.

## 5. REMOVED PART

- A removed part must be organized to avoid mixing up with similar parts. When same parts are used in multiple locations, such as pistons in engine, manage the parts by using labels with cylinder No. so that the parts are not installed to the wrong location.
- Always replace nonreusable parts such as gasket and O-ring with new parts.
- After work, have a customer confirm the replaced part.

## 6. WHEN REMOVING BATTERY

When removing battery, power supply is cut off and the information stored in the computer memory is volatilized. Therefore, setting information of some device is initialized to the factory default. The device and functions initialized by removing battery are as follows.

| No. | Item                                                                                    | Job contents when connecting battery                                                                                                                                                                                                                                                                                          |
|-----|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Clock (MFD) (settings that the customer set)                                            | Set the clock to the current time.                                                                                                                                                                                                                                                                                            |
| 2   | MFD (high grade type)                                                                   | Set to the date checked before disconnecting the battery.                                                                                                                                                                                                                                                                     |
| 3   | Audio (settings that the customer set)                                                  | Set to the contents checked before disconnecting the battery.                                                                                                                                                                                                                                                                 |
| 4   | Navigation system (settings that the customer set)                                      | <ul style="list-style-type: none"> <li>• Time setting is not necessary because the time information is received via GPS.</li> <li>• Set the sound and other settings (items that were set in the selection) to the contents checked before disconnecting the battery.</li> </ul>                                              |
| 5   | Temperature setting of fully automatic air conditioner (settings that the customer set) | Set to the contents checked before disconnecting the battery.                                                                                                                                                                                                                                                                 |
| 6   | Power window system                                                                     | Initialize automatic full open/close of driver's window (power window system). For the initialization procedure, refer to "GW" section. <Ref. to GW-9, OPERATION, Power Window System.>                                                                                                                                       |
| 7   | Steering lock system (model with keyless access)                                        | If the engine does not start, initialize the steering lock system. For the initialization procedure, refer to "KPS" section. <Ref. to KPS(diag)-116, ENGINE DOES NOT START, INSPECTION, Diagnostics with Phenomenon.>                                                                                                         |
| 8   | EyeSight (model with EyeSight)                                                          | Set to the contents checked before disconnecting the battery.                                                                                                                                                                                                                                                                 |
| 9   | Electronic throttle system                                                              | Turn the ignition switch to ON, wait for 10 seconds or more, and start the engine.                                                                                                                                                                                                                                            |
| 10  | Engine control system                                                                   | Let the engine run at idle until it fully warms up (the radiator fan turns 2 times or more) under no electrical load condition.                                                                                                                                                                                               |
| 11  | Power rear gate                                                                         | When the battery is connected again with the power rear gate opened, perform the initialization. (When the battery is connected again with the power rear gate closed, the initialization is automatically performed.) Refer to "PRG" for initialization. <Ref. to PRG-8, INITIALIZATION, PROCEDURE, Power Rear Gate System.> |
| 12  | Past trouble history (memory code)                                                      | —                                                                                                                                                                                                                                                                                                                             |



## Note

### NOTE

#### 7. OTHER ADJUSTMENT OPERATIONS BEFORE DELIVERING THE VEHICLE TO CUSTOMER

Due to service and parts replacement convenience, perform the following operations before delivering the vehicle to the customer.

| No. | Item                                                                                                                                                                                                                                          | Check operation                                                                          | Adjustment operation                                                                       | Additional adjustment operations when replacing parts                                                                                                                                                                                                                                                                                                           |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Positions of devices <ul style="list-style-type: none"> <li>• Steering</li> <li>• Room mirror</li> <li>• Door mirror</li> <li>• Seat</li> <li>• Air conditioner vent grille</li> </ul>                                                        | Is the device set to the same position when the vehicle was received from the customer?  | Adjust the device to the similar position when the vehicle was received from the customer. | When removing/installing each device <ul style="list-style-type: none"> <li>• Meter, instrument panel, steering column, etc.</li> <li>• Room mirror, roof trim, sunroof assembly, etc.</li> <li>• Door mirror, door panel, etc.</li> <li>• Seat, floor carpet, parking brake lever, etc.</li> <li>• Vent grille, instrument panel, console box, etc.</li> </ul> |
| 2   | Positions of switches <ul style="list-style-type: none"> <li>• SI-Drive</li> <li>• Wiper, light (AUTO or OFF)</li> <li>• Headlight beam leveler</li> <li>• Illumination control</li> <li>• Room light</li> <li>• Seat heater, etc.</li> </ul> | Is the switch set to the same position when the vehicle was received from the customer?  | Set the switch to the same position when the vehicle was received from the customer.       | When removing/installing each switch                                                                                                                                                                                                                                                                                                                            |
| 3   | Position of antenna                                                                                                                                                                                                                           | Is the antenna set to the same position when the vehicle was received from the customer? | Adjust the position of antenna.                                                            | When removing/installing the antenna and washing the vehicle                                                                                                                                                                                                                                                                                                    |

## B: NOTE

This information will improve the efficiency of maintenance and assure the sound work.

### 1. CLEANING

- Perform the operation in a clean location and use extra caution in dust proofing.
- Clean the items (except for assembly components) with steam, etc. before disassembly. During steam cleaning, wrap the air breather, oil level gauge, connectors, etc. with vinyl tape to prevent steam from entering inside the parts.
- Use an appropriate cleaning solvent.
- Do not clean rubber parts such as O-ring, gasket and oil seal with cleaning solution.

### 2. FASTENERS NOTICE

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 cause such a malfunction as looseness of bolts and nuts, power change, etc. even if tightening the bolts and nuts to the specified torque.

### 3. STATIC ELECTRICITY DAMAGE

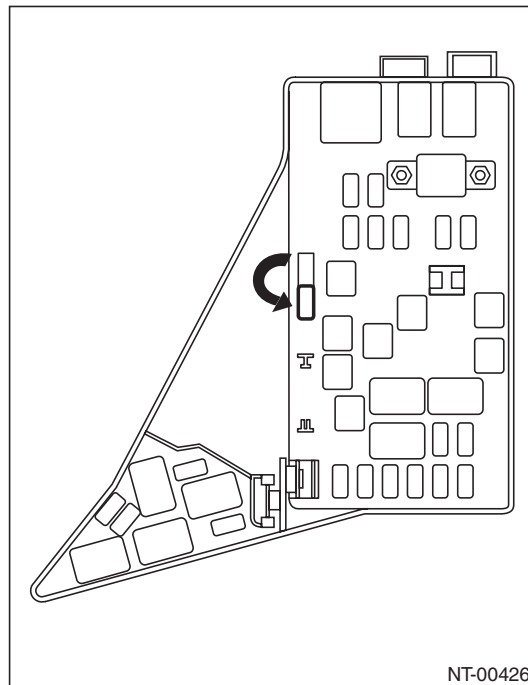
Do not touch the control modules, connectors, logic boards and other such parts when there is a risk of static electricity. Always use a static electricity prevention cord or touch grounded metal for the elimination of static electricity before conducting work.

### 4. BATTERY

When removing the battery terminal, always be sure to turn the ignition switch to OFF and disconnect the battery ground terminal first.

### 5. BACKUP/POWER SUPPLY FUSE

Backup fuse (20A) remains removed to prevent the battery consumption when vehicles are delivered. Install the backup fuse by following the illustration.



### 6. IMMOBILIZER RELATED PART

Do not replace parts which have immobilizer ID with the parts from other vehicle.

- Model without keyless access function

All ignition keys, combination meter (except for C0 and C5), body integrated unit, ECM, security CM (for C0 and C5)

- Model with keyless access function

All access keys, keyless access CM, steering lock CM, ECM

### 7. 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.

### 8. PROTECTING VEHICLE UNDER MAINTENANCE

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

### 9. ENSURING SECURITY DURING WORK

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

## Note

### NOTE

#### 10. LIFT AND JACK

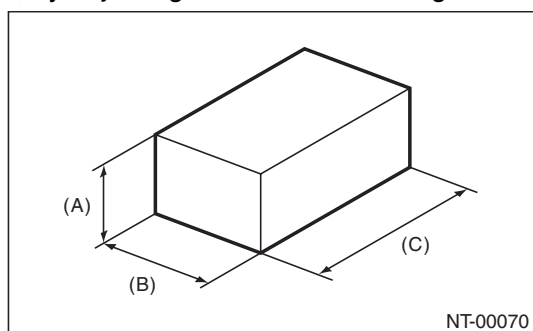
When using a lift or shop jack to raise a vehicle or using rigid rack to support a vehicle, always follow instructions concerning jack-up points and weight limits to prevent the vehicle from falling, which could result in injury. Be especially careful that the vehicle is balanced before raising it. Be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

#### CAUTION:

Select the lift attachment so that the side sill does not contact the lift arm.

#### NOTE:

- When using a lift, follow its operation manual.
- When the side sill cover contacts the lift arm, use a lift attachment.
- 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 lift, use an attachment or something similar.
- When using a plate lift, use a rubber attachment. Place the attachment to the specified position of the vehicle, by adjusting front/rear and left/right sides accordingly.



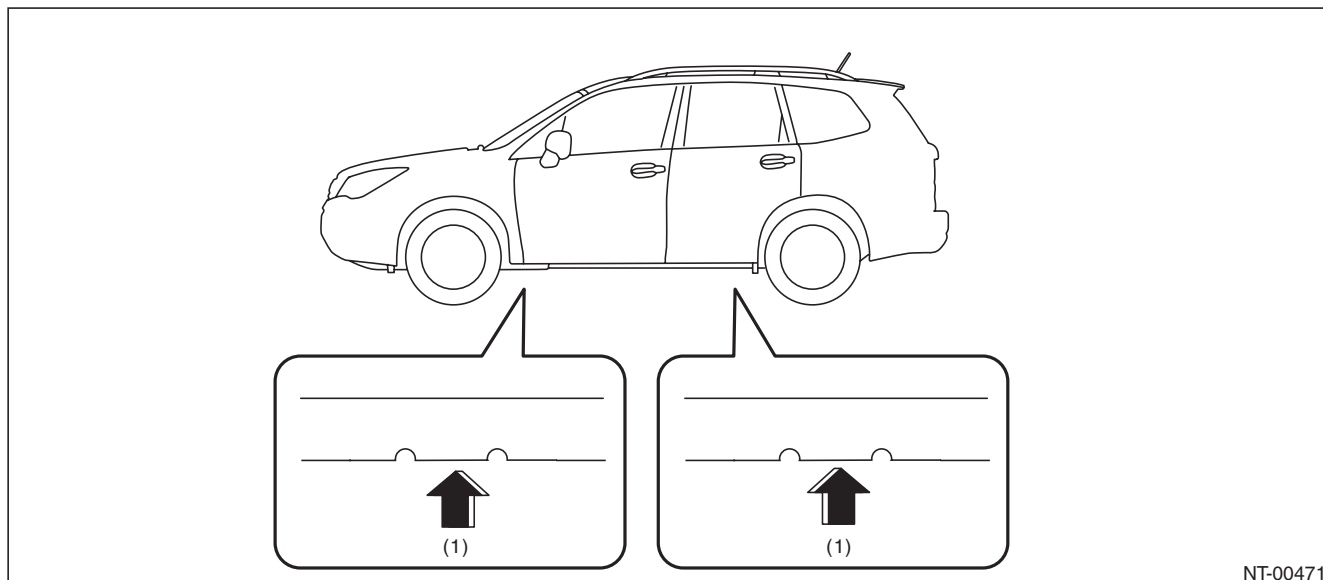
(A) 80 mm (3.1 in) or more

(B) 80 — 100 mm (3.15 — 3.94 in)

(C) 120 — 200 mm (4.72 — 7.87 in)

- Align the cushion rubber center part of plate lift with the center part of rubber attachment.
- Do not use the plate lift whose attachment does not reach the supporting locations.

#### Support locations

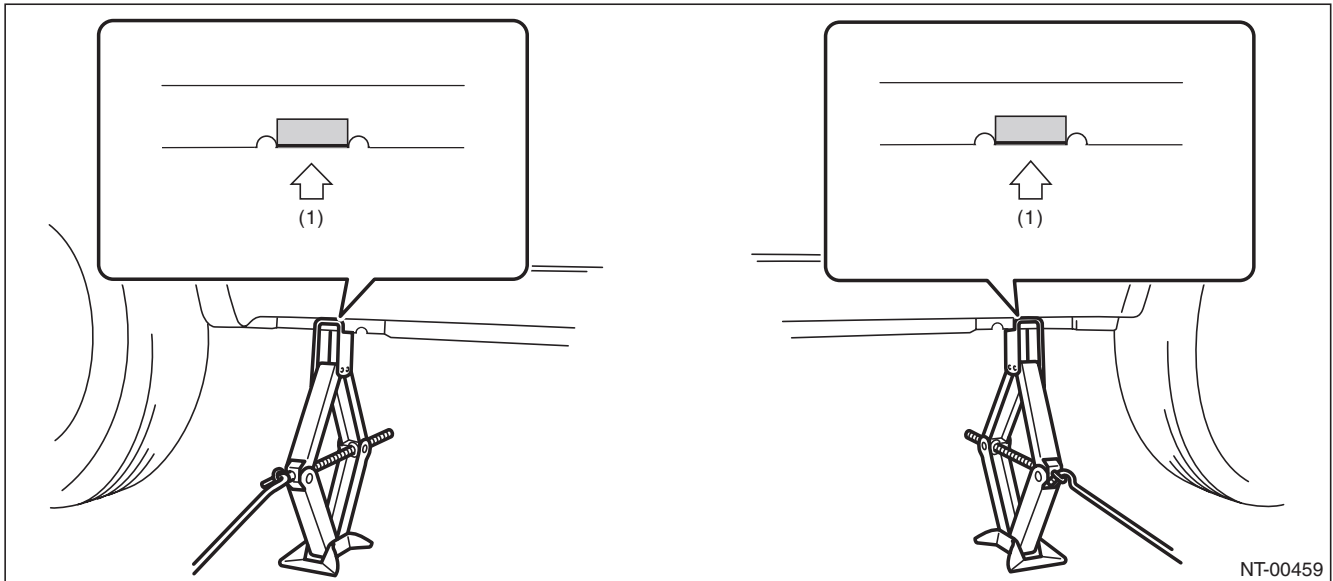


(1) Jack-up point

## Note

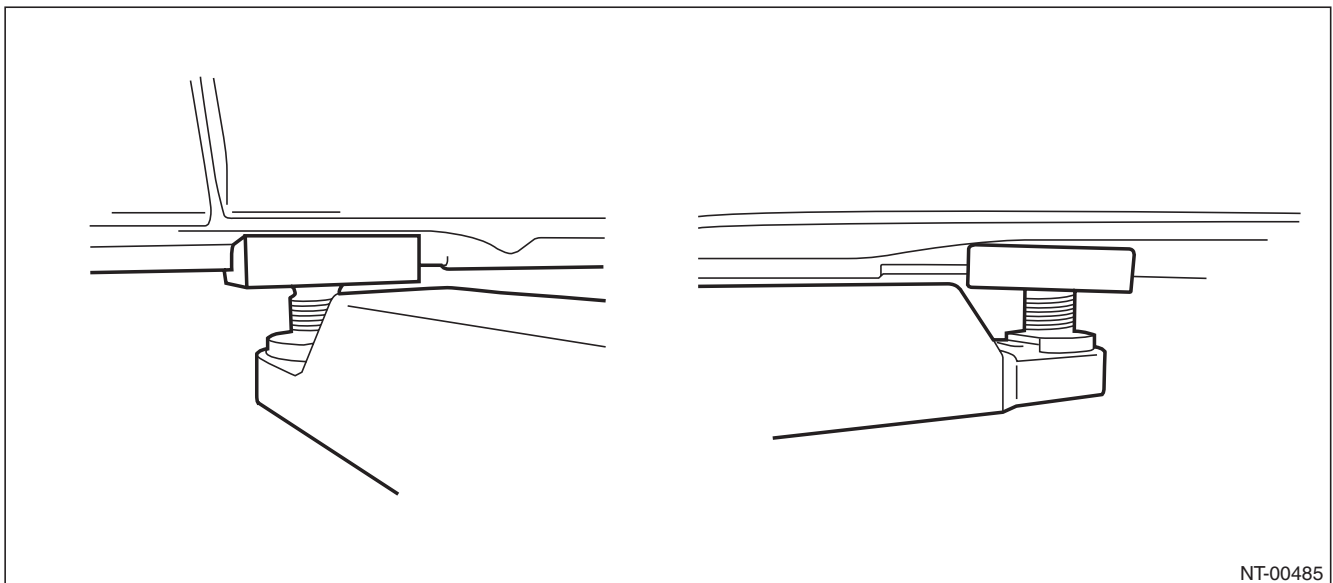
NOTE

- Pantograph jack



(1) Jack-up point

- Lift



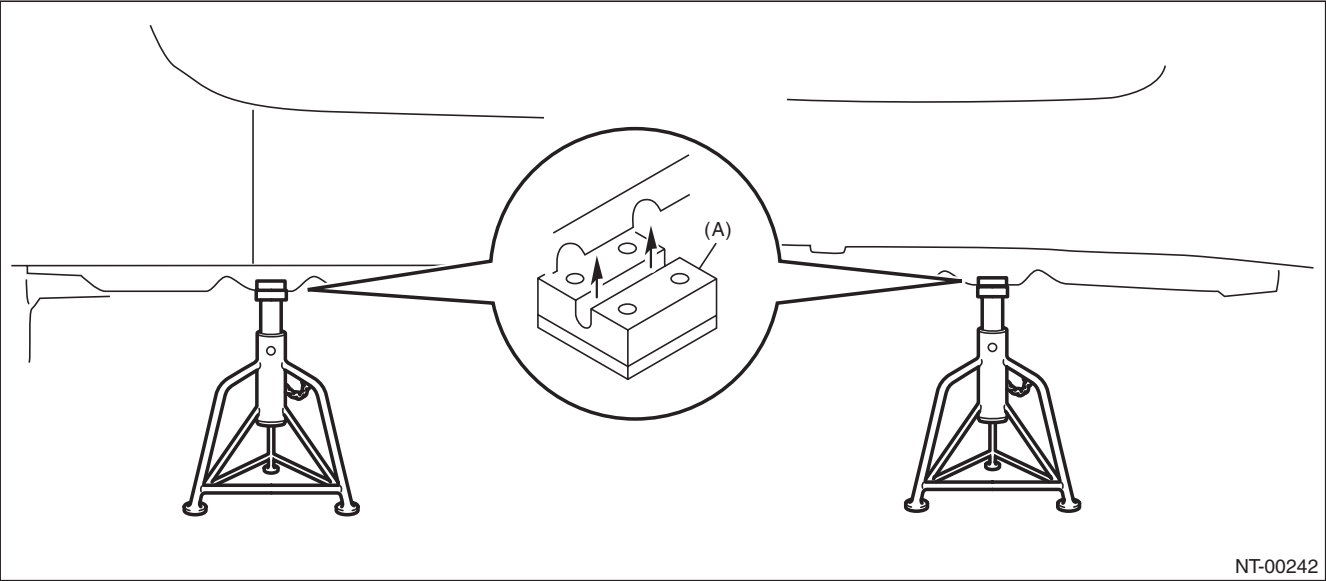
**CAUTION:**

Depending on the type of the two-post lift, the door may contact the arm. In such a case, use the attachment of the regular option for the two-post lift.

# Note

NOTE

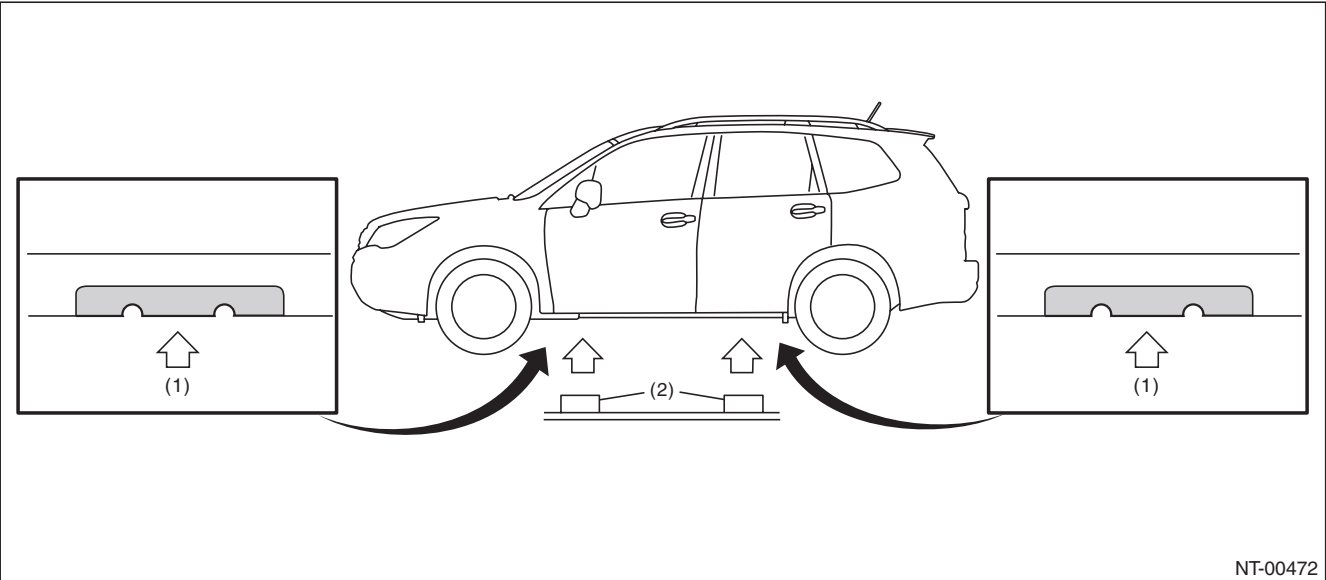
• Rigid rack



NT-00242

(A) Attachment

• Plate lift



NT-00472

(1) Jack-up point

(2) Attachment

Note

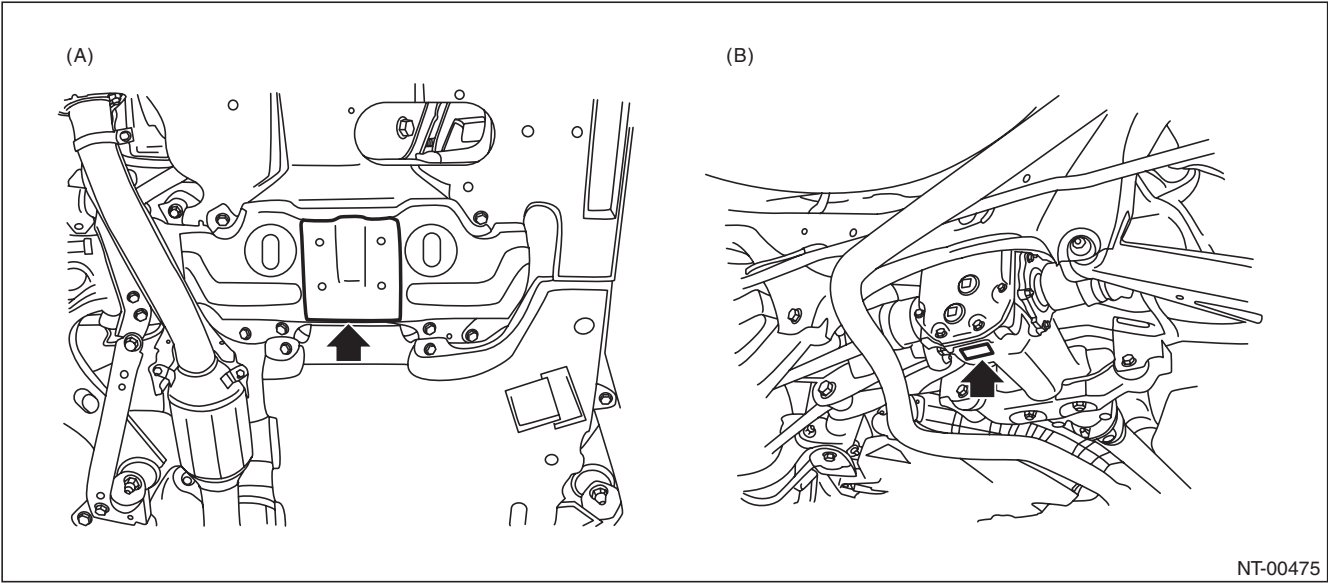
NOTE

- Jack-up point (when using a garage jack)

CAUTION:

If jacking up the front side of the vehicle, make sure that the jack is attached at the center of the jack-up plate not at the sides.

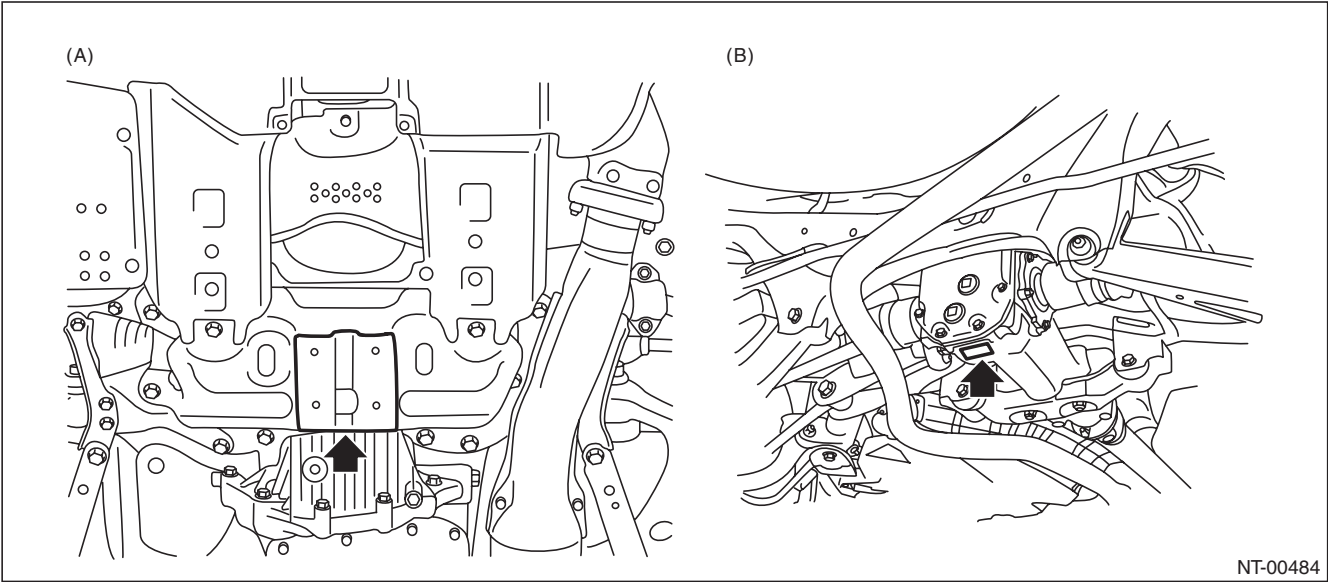
Non-turbo model



(A) Front

(B) Rear

Turbo model



(A) Front

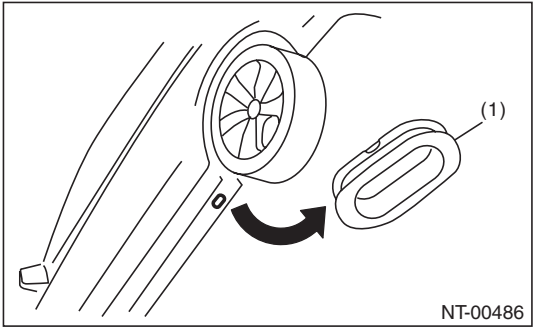
(B) Rear

## Note

NOTE

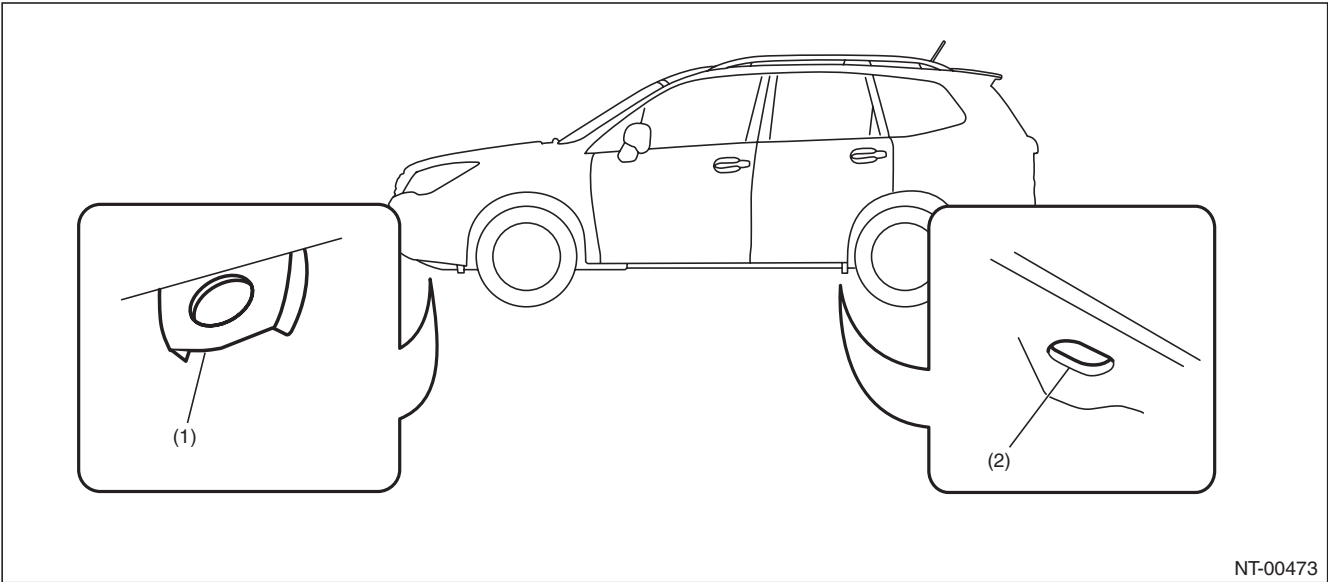
### 11.TIE-DOWNS

Tie-downs are used when transporting vehicles and when using the chassis dynamo. Remove the grommet of the tie-down hole and install the tie-down only to the specified locations on the vehicle.



(1) Grommet

#### • Tie-down location



(1) Hook for tie-down

(2) Tie-down hole

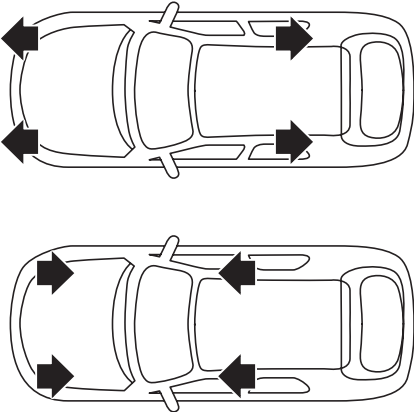
Note

NOTE

- Chain direction at tie-down condition

CAUTION:

- Pull the front and rear of the vehicle in the opposite direction, and pull the left and right of the vehicle in the same direction.
- Patterns except for the followings (recommended) are not allowed.

|                    | Recommended                                                                                        |
|--------------------|----------------------------------------------------------------------------------------------------|
| Tie-down direction | <br><br>NT-00214 |



## Note

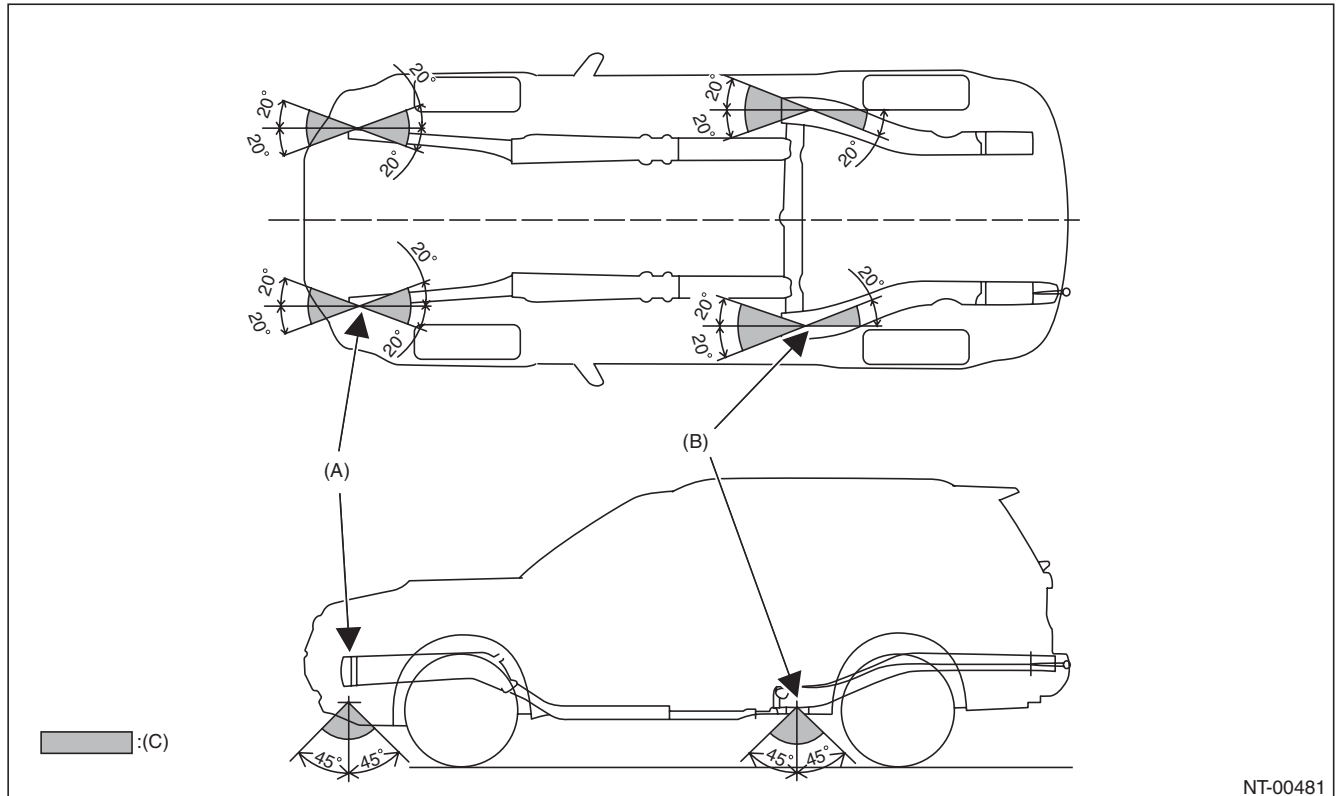
### NOTE

- Tie-down range

For ground transportation

#### CAUTION:

When the vehicle is tied down from vehicle inside, hook the hooks of tie-down chain on the rear tie-down holes from vehicle inside. When the vehicle is tied down from vehicle outside, hook the hooks of tie-down chain on the rear tie-down hooks from vehicle outside.



(A) Front tie-down hook

(B) Rear tie-down hole

(C) Chain pulling range at tie-down condition



## Note

### NOTE

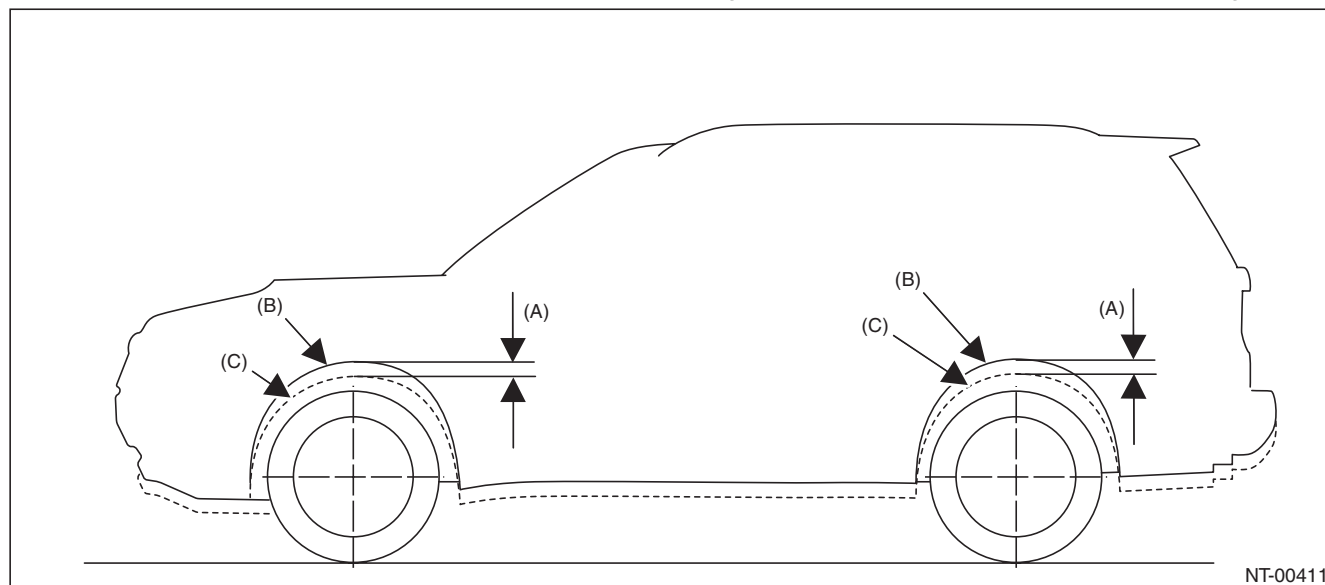
#### • Vehicle sinking volume at tie-down condition

##### CAUTION:

The vehicle sinking volume at tie-down condition should be less than 50 mm (1.97 in) and make sure to fix the vehicle securely.

Check to see if the tensions of chains or belts at tie-down condition are appropriate in the following procedures.

- 1) Before tie-down, measure the distance between the highest tire point and highest arch point at the center of wheel.
- 2) After tie-down, measure the distance between the highest tire point and highest arch point at the center of wheel.
- 3) If the distance (A) between the measured value of 1) and 2) above, is less than 50 mm (1.97 in), it is judged as OK. If the distance is 50 mm (1.97 in) or more, it is judged as NG because the tension is too high.



(B) Arch position before tie-down

(C) Arch position after tie-down

#### • Notes for the use of tie-down hook

When the vehicle is tied down from vehicle inside, hook the hooks of tie-down chain from vehicle inside, and when the vehicle is tied down from vehicle outside, hook the hooks of tie-down chain from vehicle outside. For front tie-down hook, use S hook and J hook, and for rear tie-down hole, use S hook, J hook and T hook. T hook can be used only for rear tie-down hole.

## Note

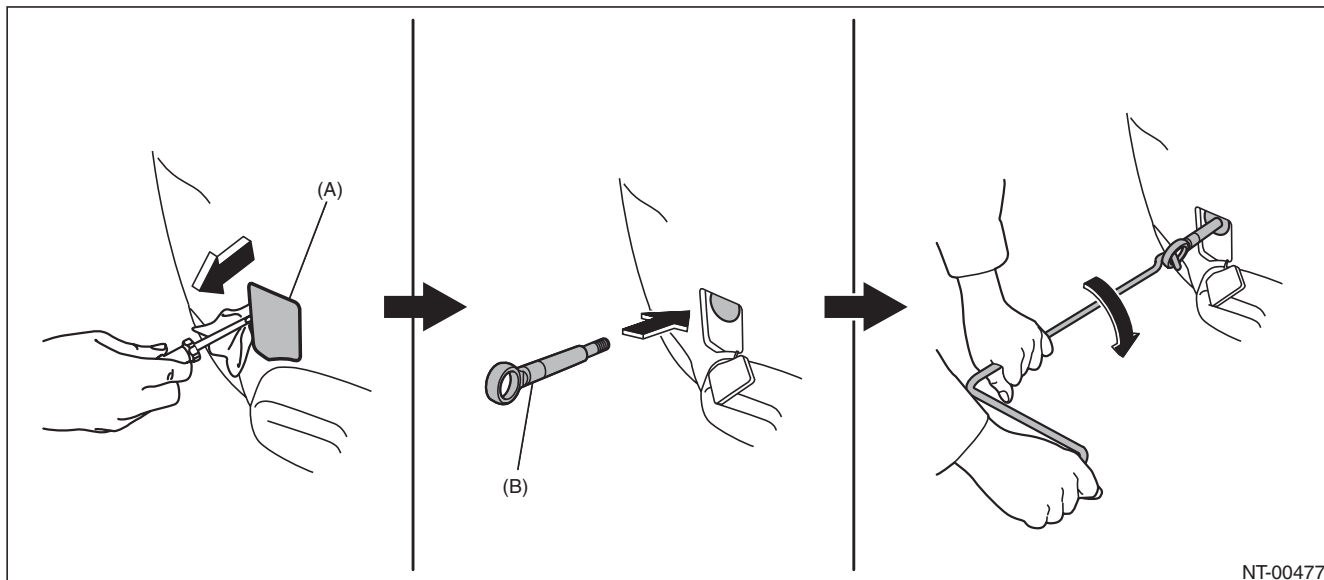
NOTE

### 12.TOWING

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

- Do not tow other vehicles with a front tie-down hook.
- Make sure the vehicle towing is heavier than the vehicle being towed.
- When towing the vehicle equipped with Subaru EyeSight with the engine running, be sure to hold down the pre-collision brake OFF switch to turn OFF the pre-collision brake function. (Check that the pre-collision brake OFF indicator light in the meter lights up.)
- Front

Remove the hook cover, and install the towing hook (eyebolt).



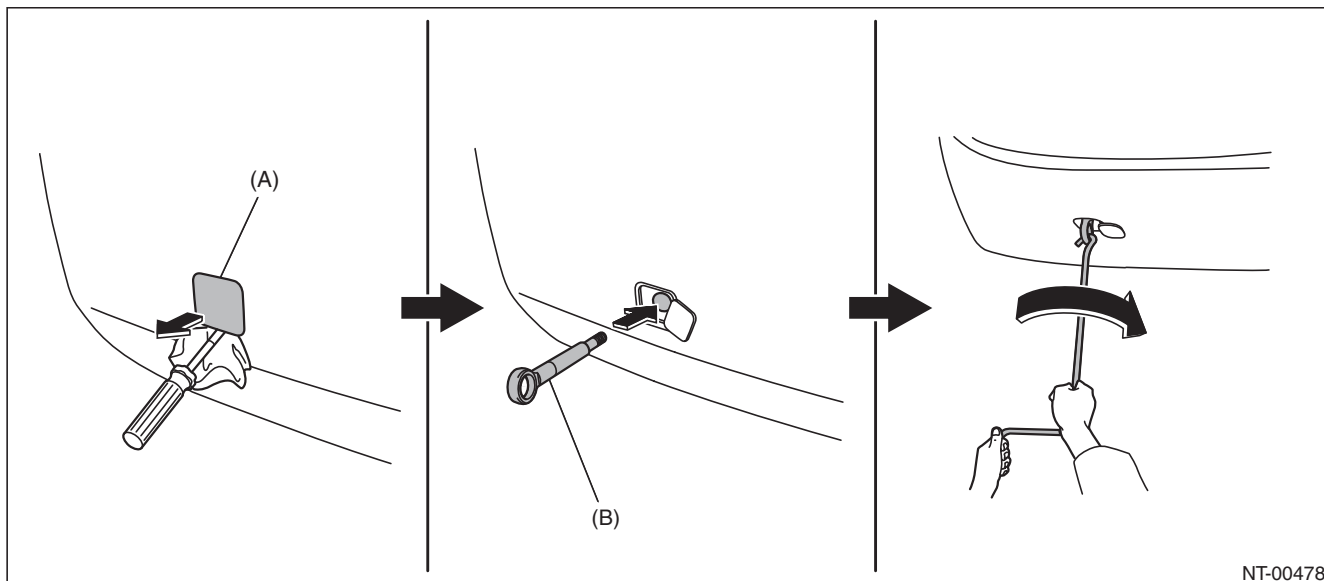
NT-00477

(A) Hook cover

(B) Towing hook (eyebolt)

- Rear

Remove the hook cover, and install the towing hook (eyebolt).



NT-00478

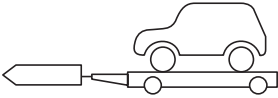
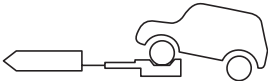
(A) Hook cover

(B) Towing hook (eyebolt)

## Note

### NOTE

#### • Precautions

| Towing                                                                                                                                         | Precautions                                                                                                                                                                                                                                               | AWD |     |
|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
|                                                                                                                                                |                                                                                                                                                                                                                                                           | MT  | CVT |
| Lifting up four wheels (on a trailer)<br><br><br><br>NT-00023 | Towing the vehicle after lifting up all four wheels is a basic rule for AWD model.                                                                                                                                                                        | ○   | ○   |
| Rope<br><br><br><br>NT-00024                                  | <ul style="list-style-type: none"> <li>• Check if both front and rear wheels are rotated normally.</li> <li>• CVT model driving conditions: Driving speed of 30 km/h (19 MPH) or less</li> <li>Allow driving distance 50 km (31 miles) or less</li> </ul> | ○   | ▲   |
| Raising the front wheels<br><br><br><br>NT-00025            | Prohibited for full-time AWD model.                                                                                                                                                                                                                       | ×   | ×   |
| Lifting up the front wheels<br><br><br><br>NT-00026         | <ul style="list-style-type: none"> <li>• Prohibited, due to damage on bumper, front grille, etc.</li> <li>• Do not raise the vehicle with bumper.</li> </ul>                                                                                              | ×   | ×   |

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

## CAUTION:

- 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. (Models without the keyless access with push button start system)
- Turn the ignition switch to “ACC” or “ON” position, and check that the steering wheel moves freely. (Models equipped with the keyless access with push button start system)
- 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.
- Do not use towing hook (eyebolt) except when towing.
- Make sure to detach the towing hook (eyebolt) after towing. If the hook remains attached, airbag may not operate properly when receiving a shock from front side. And it may also affect the crash performance of the vehicle.

## 13.CARRIER CAR

Before lowering the vehicle from the carrier car, perform the following operations.

### CAUTION:

**Always perform the following operations before lowering the vehicle from the carrier car. Otherwise, the power unit will rotate reversely, which may cause the damage to the engine, vacuum pump, and transmission.**

- 1) Start the engine.
- 2) Set the transmission shift position into driving direction of the vehicle. (When the vehicle drives forward, do not set the transmission into R range. When the vehicle drives rearward, do not set the transmission into 1 — 6 speed, or D range.)

### CAUTION:

**Be sure to perform 2) mentioned above even if the engine cannot be started in some reasons.**

## Note

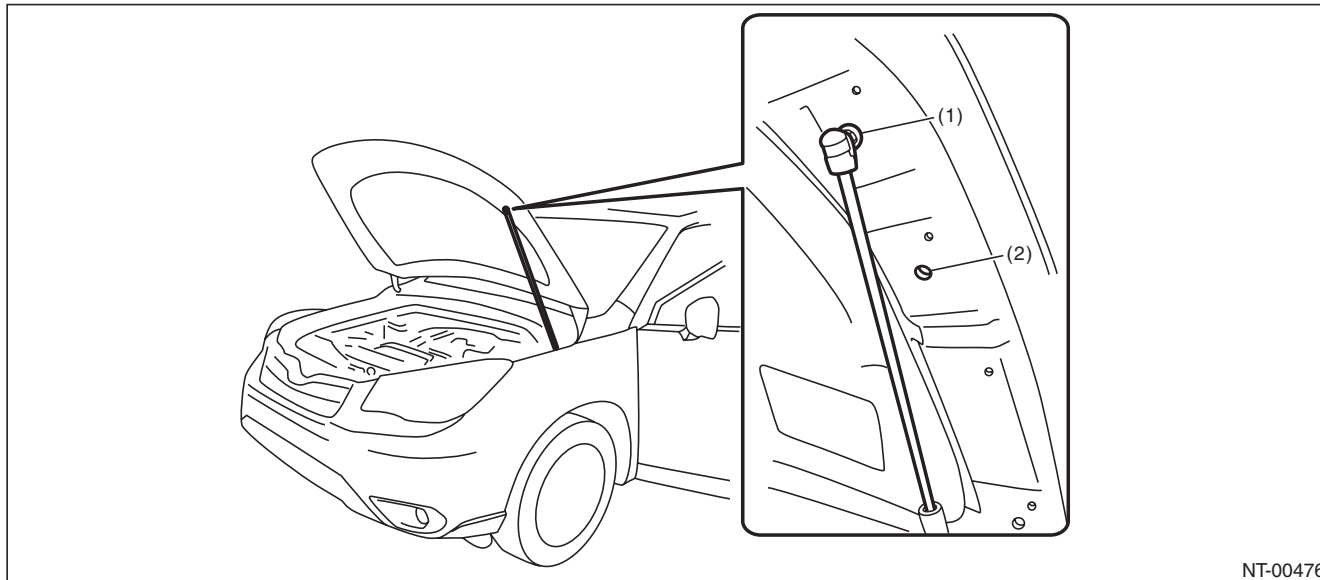
NOTE

### 14.FRONT HOOD DAMPER STAY

1) Always perform works such as inspections and maintenance with both damper stays attached.

#### CAUTION:

**At the inspection and general maintenance, do not detach the damper stays.**



NT-00476

(1) Normal attached position

(2) Installation position at full open

2) When wider hood opening is necessary, set the damper stay below as shown in the figure.

#### Tightening torque:

<Ref. to EB-3, FRONT HOOD, COMPONENT, General Description.>

#### CAUTION:

- The hood cannot be closed with the hood damper on the full open side. When it is necessary to close, tie the hood striker and the radiator panel with a string etc. to fix them.
- After work, set the damper stays back to the normal position and tighten the bolts to the specified torque.

### 15.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, VDC, air conditioner and other electrically controlled parts.

### 16.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 CVT model

Since electronically controlled MP-T hydraulic multi-plate clutch is adapted for center differential, switch to FWD by using Subaru Select Monitor.

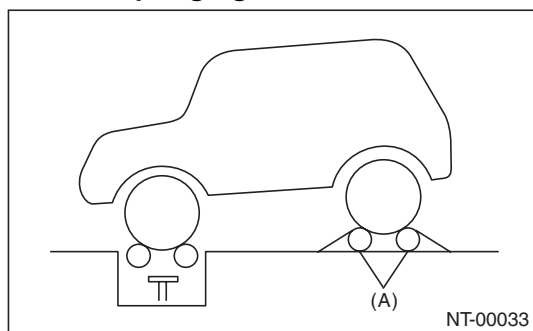
## 17. SPEEDOMETER TEST

### 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.**

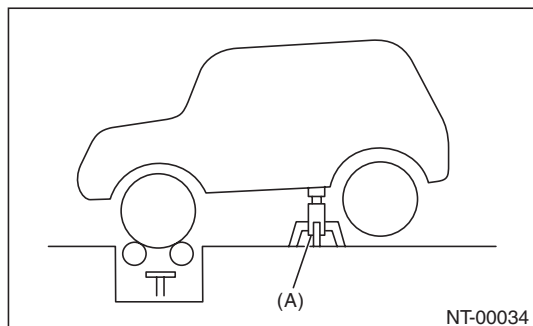
### 2) Rear wheel jack-up system

- (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.**

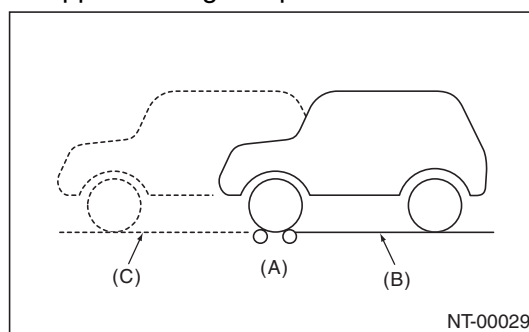
## 18. BRAKE TEST

### 1) Full-time AWD MT model

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

#### NOTE:

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



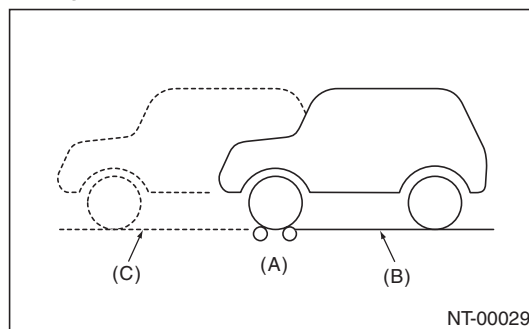
- (A) Brake tester
- (B) Position for measuring front wheel
- (C) Position for measuring rear wheel

- (3) When the brake dragging force is large.

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

### 2) Full-time AWD CVT 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

## Note

### NOTE

(2) When the brake dragging force is large.

- Check the dragging of brake pad or brake shoe.

#### Specifications:

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

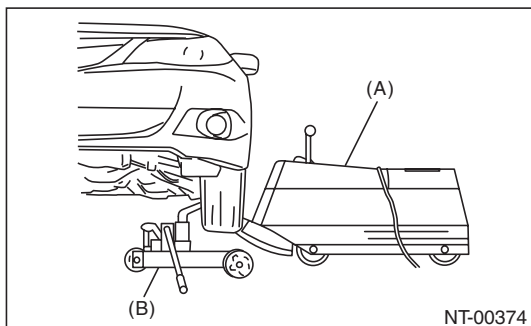
- When measurement is difficult to carry out because both of front wheels are locked, brake force measurement in this condition conforms to standard grand total.

## 19.ON THE CAR WHEEL BALANCING

### CAUTION:

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

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



(A) Balancer body

(B) Pickup stand (left and right)

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.

# IDENTIFICATION

*ID*

---

|                         | Page |
|-------------------------|------|
| 1. Identification ..... | 2    |



# Identification

## IDENTIFICATION

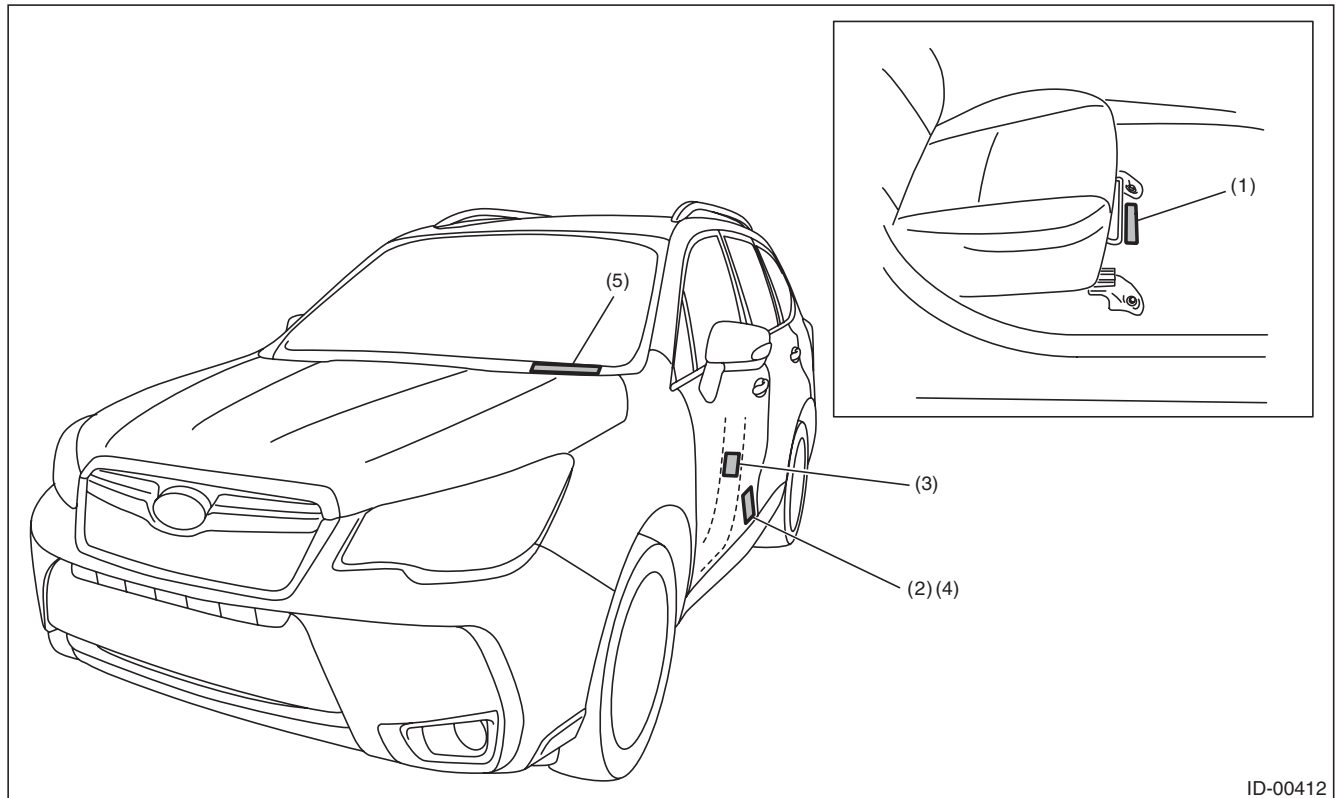
### 1. Identification

#### A: IDENTIFICATION

##### 1. IDENTIFICATION NUMBER AND LABEL LOCATIONS

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

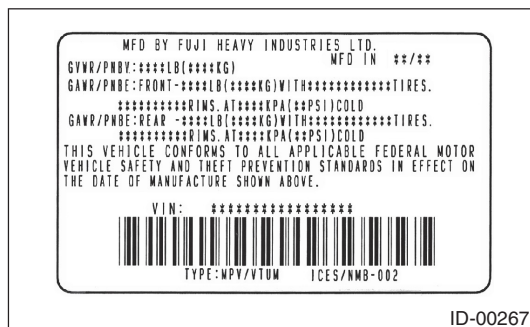
- Positioning of the plate label for identification



ID-00412

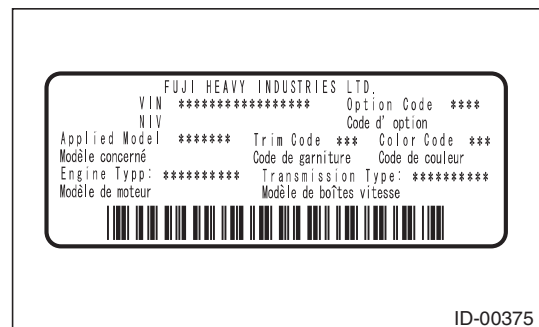
- (1) Vehicle identification number (V.I.N.) (below right front floor carpet)
- (2) MVSS/CMVSS label (attached to left side of vehicle)
- (3) Tire inflation pressure label
- (4) Model number label (attached to right side of vehicle)
- (5) Vehicle identification number (V.I.N.) plate

- MVSS/CMVSS label



ID-00267

- Model number label

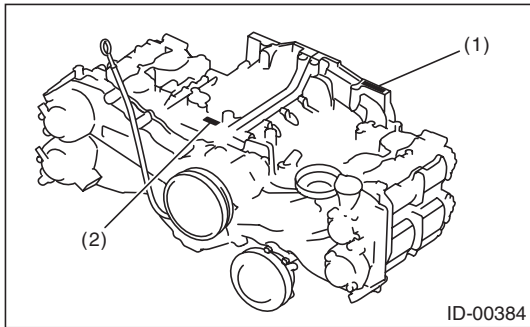


ID-00375

# Identification

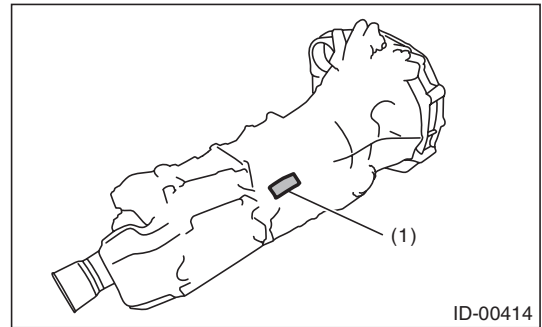
IDENTIFICATION

## • Engine



- (1) Engine serial number (punch mark)
- (2) Engine type (casting) crankcase upper side

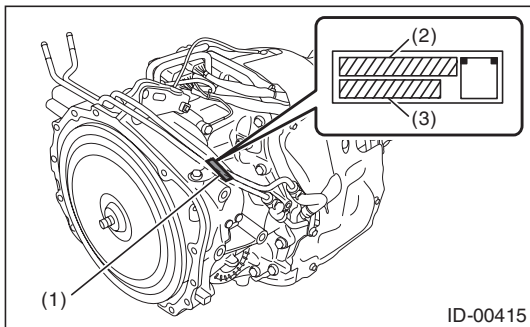
## • Manual transmission



- (1) MT type and transmission serial number label

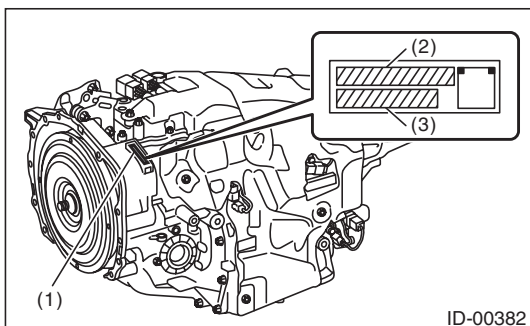
## • Automatic transmission CVT

### • TR690



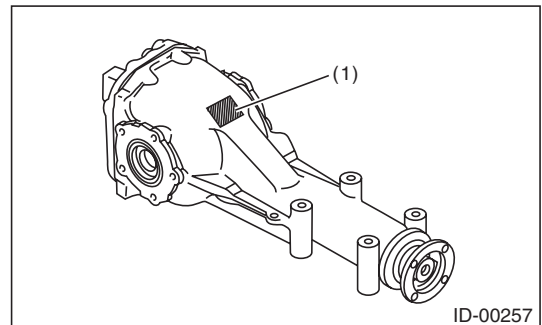
- (1) Label
- (2) CVT type label
- (3) Transmission serial No. label

### • TR580



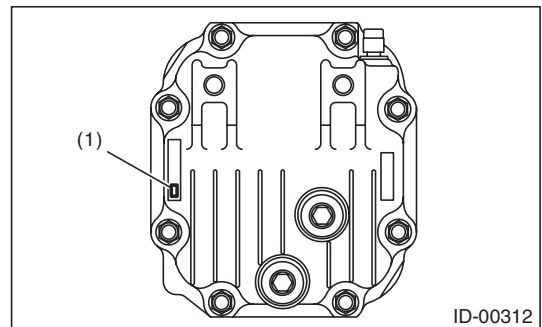
- (1) Label
- (2) CVT type label
- (3) Transmission serial No. label

## • Rear differential T-type



- (1) Identification (white paint)

## VA1-type



- (1) Type (label)

## Identification

### IDENTIFICATION

#### 2. MEANING OF V.I.N.

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

**JF2SJAACXEG400001**

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

| Digits  | Code   | Meaning                 | Details                                                                                                                                                                                                                                                                                                                                                           |
|---------|--------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 — 3   | JF2    | Manufacturer body area  | JF2: FHI manufactured passenger car                                                                                                                                                                                                                                                                                                                               |
| 4       | S      | Car line                | S: Forester                                                                                                                                                                                                                                                                                                                                                       |
| 5       | J      | Body type               | J: Wagon                                                                                                                                                                                                                                                                                                                                                          |
| 6       | A      | Displacement class      | A: 2.5 L non-turbo U5<br>C: 2.5 L non-turbo C0<br>D: 2.5 L non-turbo C4<br>E: 2.5 L non-turbo C5<br>F: 2.5 L non-turbo C6<br>G: 2.0 L turbo U4<br>H: 2.0 L turbo C0<br>J: 2.0 L turbo C4<br>K: 2.0 L turbo C6                                                                                                                                                     |
| 7       | A      | Grade                   | A: Base<br>B: Premium<br>C: Premium + AWP<br>D: Premium + M/R<br>E: Premium + AWP + M/R<br>F: Premium + M/R + NAVI<br>G: Premium + AWP + M/R + NAVI<br>H: Limited + M/R<br>J: Limited + M/R + NAVI<br>K: Limited + M/R + NAVI + H/K<br>L: Touring + M/R<br>M: Touring + NAVI + H/K + M/R<br>N: Touring EyeSight<br>P: Touring EyeSight + NAVI + H/K<br>R: Touring |
| 8       | C      | Restraint or GVWR class | C: Manual belt, dual airbags, side airbags for seat back + curtain airbags for roof, Class C (GVWR 4001 — 5000 lb)                                                                                                                                                                                                                                                |
| 9       | X      | Check numbers           | X or 0 — 9                                                                                                                                                                                                                                                                                                                                                        |
| 10      | E      | Model year              | E: 2014MY                                                                                                                                                                                                                                                                                                                                                         |
| 11      | G      | Transmission type       | G: Full-time AWD 6 speed MT single range<br>H: Full-time AWD CVT                                                                                                                                                                                                                                                                                                  |
| 12 — 17 | 400001 | Serial number           | 400001 — 599999                                                                                                                                                                                                                                                                                                                                                   |

## Identification

### IDENTIFICATION

### 3. MODEL NUMBER LABEL

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

#### SJ9AY2A

| Digits | Code | Meaning                                   | Details                                                                                                                                                                                    |
|--------|------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | S    | Series                                    | S: Forester                                                                                                                                                                                |
| 2      | J    | Body type                                 | J: Wagon                                                                                                                                                                                   |
| 3      | 9    | Total engine displacement<br>Drive system | 9: 2.5 L AWD (non-turbo)<br>G: 2.0 L AWD (turbo)                                                                                                                                           |
| 4      | A    | Model year                                | A: 2014MY                                                                                                                                                                                  |
| 5      | Y    | Destination                               | Y: U.S.A., Canada                                                                                                                                                                          |
| 6      | 2    | Grade                                     | 2: 2.5 i<br>3: 2.5 i Plus<br>4: 2.5 i Premium<br>7: 2.5 i Limited<br>9: 2.5 i Touring<br>F: 2.5 i Touring EyeSight<br>K: 2.0 XT Premium<br>M: 2.0 XT Touring<br>R: 2.0 XT Touring EyeSight |
| 7      | A    | Transmission, fuel feed system            | 8: DOHC turbo CVT<br>A: DOHC non-turbo 6MT<br>C: DOHC non-turbo CVT                                                                                                                        |

The engine and transmission type are as follows.

#### Engine

#### FA20FAZHZA

| Digits   | Code | Meaning                                     | Details                                                                                                    |
|----------|------|---------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 1 and 2  | FA   | Engine type symbol                          | FA: 4 cylinder gasoline<br>FB: 4 cylinder gasoline                                                         |
| 3 and 4  | 20   | Displacement                                | 20: 2.0 L<br>25: 2.5 L                                                                                     |
| 5        | F    | Valve train/fuel supply system/<br>steering | B: DOHC non-turbo MFI (LH)<br>F: DOHC DIT (LH)                                                             |
| 6        | A    | Exhaust regulations                         | A: For states not using California emission standards<br>C: For states using California emission standards |
| 7        | Z    | Intake/exhaust system                       | Y: Intake AVCS, TGV, EGR<br>Z: Intake AVCS, exhaust AVCS, TGV, EGR                                         |
| 8        | H    | Mounted transmission                        | B: 6MT<br>H: CVT                                                                                           |
| 9 and 10 | ZA   | Detailed specifications                     | Used when ordering parts. For details, refer to the parts catalog.                                         |

# Identification

## IDENTIFICATION

### Transmission

#### 1. MT

##### TY751VHZDA

| Digits  | Code | Meaning                      | Details                                                                            |
|---------|------|------------------------------|------------------------------------------------------------------------------------|
| 1       | T    | Transmission                 | T: Transmission                                                                    |
| 2       | Y    | Transmission system          | Y: Full-time AWD MT center differential                                            |
| 3 and 4 | 75   | Distance between gear center | 75: Between main shaft and drive pinion                                            |
| 5       | 1    | Classification               | 1: 6MT                                                                             |
| 6       | V    | Transmission specifications  | V: Full-time AWD single range 6 speed MT with viscous coupling center differential |
| 7       | H    | Mounted engine               | H: 2.5 L DOHC non-turbo                                                            |
| 8 — 10  | ZDA  | Detailed specifications      | Used when ordering parts. For details, refer to the parts catalog.                 |

#### 2. CVT

##### TR580GHZAA

| Digits  | Code | Meaning                         | Details                                                            |
|---------|------|---------------------------------|--------------------------------------------------------------------|
| 1       | T    | Transmission                    | T: Transmission                                                    |
| 2       | R    | Transmission type               | R: Full-time AWD CVT                                               |
| 3 and 4 | 58   | Distance between pulley centers | 58: Between pulley centers<br>69: Between pulley centers           |
| 5       | 0    | Series                          | 0: CVT                                                             |
| 6       | G    | Transmission specifications     | G: CVT with CVTF warmer, without air cooler                        |
| 7       | H    | Mounted engine                  | B: 2.0 L DOHC turbo<br>H: 2.5 L DOHC non-turbo                     |
| 8 — 10  | ZAA  | Detailed specifications         | Used when ordering parts. For details, refer to the parts catalog. |

### Rear differential

#### B4

| Code | Reduction gear ratio | LSD  |
|------|----------------------|------|
| B4   | 4.444                | None |
| X1   | 4.111                | None |
| XD   | 3.700                | None |

## Identification

### IDENTIFICATION

#### Option code

##### 4B

- 1-digit number

| OP code                  | G | H | I | J | K | L | M | T | V | W | X | Y | 4 |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum wheel (17-inch) | — | ○ | ○ | ○ | ○ | ○ | — | ○ | ○ | ○ | — | — | — |
| Aluminum wheel (18-inch) | ○ | — | — | — | — | — | ○ | — | — | — | — | — | ○ |
| HID headlight            | ○ | — | — | — | ○ | — | — | — | — | — | — | — | — |
| Dark colored glass       | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | — | ○ | — | ○ | ○ |
| Sunroof                  | ○ | — | ○ | ○ | ○ | — | ○ | ○ | — | — | — | — | ○ |
| Auto light               | ○ | ○ | — | ○ | ○ | — | ○ | — | — | — | — | — | ○ |
| Cold weather package     | ○ | — | — | ○ | ○ | ○ | — | ○ | ○ | — | — | — | ○ |

OP code 6 is a code for special edition.

- 2-digit number

| OP code                                               | A | B | E | F | G | I | K | M | P | R | S | U | V | Z |
|-------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Leather seats and leather door trim center decoration | — | — | — | — | ○ | ○ | ○ | ○ | — | ○ | ○ | ○ | ○ | ○ |
| Power seat                                            | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Navigation system                                     | — | — | — | — | — | — | ○ | — | ○ | — | — | — | — | — |
| Harman/kardon audio + high grade audio                | — | — | — | — | — | — | — | — | — | — | — | ○ | — | — |
| Harman/kardon audio + navigation                      | — | — | — | — | — | — | — | — | — | ○ | — | — | ○ | — |
| Without audio                                         | — | — | — | — | — | ○ | — | — | — | — | — | — | — | — |
| Keyless access with push button start                 | — | — | ○ | — | ○ | ○ | — | — | — | ○ | ○ | — | — | — |
| Power rear gate                                       | — | ○ | — | — | — | — | ○ | — | — | ○ | ○ | ○ | ○ | ○ |
| Side & curtain airbags                                | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

OP code 3 is a code for special edition.

## Identification

IDENTIFICATION

---



# RECOMMENDED MATERIALS

*RM*

---

|                                | Page |
|--------------------------------|------|
| 1. Recommended Materials ..... | 2    |



# Recommended Materials

## RECOMMENDED MATERIALS

### 1. Recommended Materials

#### A: RECOMMENDED MATERIALS

##### 1. GENERAL

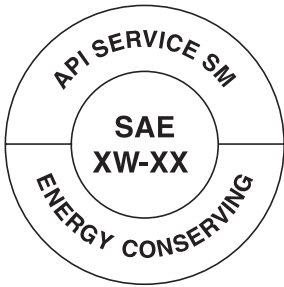
To insure the best performance, always use the specified oil, gasoline, adhesive, sealant, etc. or a substitute of equivalent quality.

##### 2. FUEL

- Use unleaded gasoline to reduce air pollution, because using leaded gasoline will damage the catalytic converter.
- Do not use the low quality gasoline, or improper fuel such as diesel fuel, fuel alcohol, or gasoline additive because they will adversely affect on engine components.
- Always use gasoline that is equivalent to that prescribed in the instruction manual or that of high octane value. There is the possibility of damaging or improper operation of the engine and fuel injection system if the specifications are not observed. Use the prescribed gasoline type to maintain proper vehicle performance.

##### 3. LUBRICANTS

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

| Lubricant                                                          | Recommended materials                                                                                                                                                                                         |                                                                                                                                                                                        |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                    | API standard                                                                                                                                                                                                  | ILSAC standard                                                                                                                                                                         |
| Engine oil<br>Choose oil suitable for the standard from the right. | SN or SM grade "Resource conserving" or "Energy conserving"<br><br><br>RM-00076<br>Those with the above API service labels | GF-5 or GF-4<br><br><br>RM-00002<br>Those with the above ILSAC certification mark (Starburst mark) |
| Front differential gear oil                                        | GL-5                                                                                                                                                                                                          | —                                                                                                                                                                                      |
| Rear differential gear oil                                         | GL-5                                                                                                                                                                                                          | —                                                                                                                                                                                      |

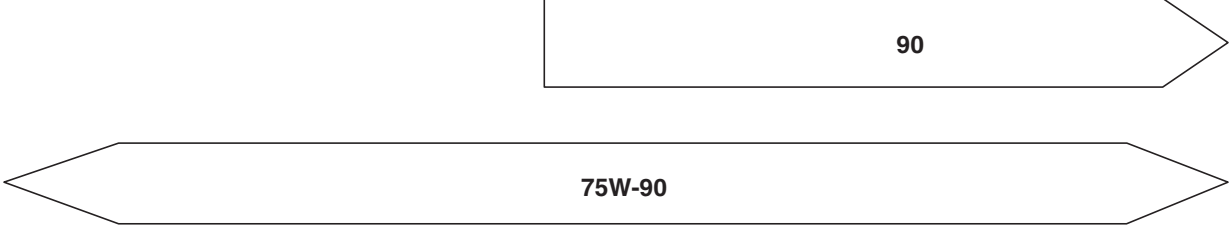
# Recommended Materials

## RECOMMENDED MATERIALS

| SAE viscosity No. and applicable temperature |     |     |     |    |    |    |    |          |
|----------------------------------------------|-----|-----|-----|----|----|----|----|----------|
| Engine oil                                   |     |     |     |    |    |    |    |          |
| Non-turbo model                              |     |     |     |    |    |    |    |          |
| (°C)                                         | -30 | -20 | -10 | 0  | 10 | 20 | 30 | 40       |
| (°F)                                         | -22 | -4  | 14  | 32 | 50 | 68 | 86 | 104      |
| (1)                                          |     |     |     |    |    |    |    |          |
|                                              |     |     |     |    |    |    |    | RM-00075 |
| (1) 0W-20 (synthetic oil) Specified          |     |     |     |    |    |    |    |          |
| Turbo model                                  |     |     |     |    |    |    |    |          |
| (°C)                                         | -30 | -20 | -10 | 0  | 10 | 20 | 30 | 40       |
| (°F)                                         | -22 | -4  | 14  | 32 | 50 | 68 | 86 | 104      |
| (1)                                          |     |     |     |    |    |    |    |          |
|                                              |     |     |     |    |    |    |    | RM-00075 |
| (1) 5W-30 (synthetic oil) Specified          |     |     |     |    |    |    |    |          |

## Recommended Materials

### RECOMMENDED MATERIALS

| SAE viscosity No. and applicable temperature                                                                                                        |     |     |     |    |    |    |    |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|----|----|----|----|----------|
| Rear differential gear oil and CVT front differential gear oil                                                                                      |     |     |     |    |    |    |    |          |
| (°C)                                                                                                                                                | -30 | -20 | -10 | 0  | 10 | 20 | 30 | 40       |
| (°F)                                                                                                                                                | -22 | -4  | 14  | 32 | 50 | 68 | 86 | 104      |
| <div style="text-align: center;">  <p>90</p> <p>75W-90</p> </div> |     |     |     |    |    |    |    |          |
|                                                                                                                                                     |     |     |     |    |    |    |    | RM-00079 |

#### 4. FLUID

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

##### CAUTION:

- Always use recommended or alternative products for CVTF. Using material except recommended one or substitute would cause trouble.
- If an alternative transmission gear oil is used, you may not have expected functionality and performance.

| Fluid                        |     |           | Recommended materials                       | Item number | Alternative        |
|------------------------------|-----|-----------|---------------------------------------------|-------------|--------------------|
| Automatic transmission fluid | CVT | Non-turbo | SUBARU CVT OIL FOR LINEARTRONIC             | K0425Y0710  | —                  |
|                              |     | Turbo     | SUBARU HIGH TORQUE CVT OIL FOR LINEARTRONIC | K0421Y0700  | —                  |
| Transmission gear oil        |     |           | SUBARU EXTRA MT                             | —           | GL-5 (75W-90)      |
| Brake fluid                  |     |           | FMVSS No. 116 DOT3, or DOT4                 | —           | —                  |
| Clutch fluid                 |     |           | FMVSS No. 116 DOT3                          | —           | FMVSS No. 116 DOT4 |

#### 5. ENGINE COOLANT

Use genuine engine coolant to protect the engine.

| Engine coolant                  |  | Recommended materials                    | Item number | Alternative             |
|---------------------------------|--|------------------------------------------|-------------|-------------------------|
| Coolant                         |  | SUBARU SUPER COOLANT (Concentrated type) | —           | —                       |
|                                 |  | SUBARU SUPER COOLANT (Diluted type)      | K0670Y0001  |                         |
| Water for dilution              |  | Distilled water                          | —           | Soft water or tap water |
| Cooling system protective agent |  | Cooling system conditioner               | SOA345001   | —                       |

## Recommended Materials

### RECOMMENDED MATERIALS

#### 6. REFRIGERANT

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

| Air conditioner | Recommended materials | Item number | Alternative |
|-----------------|-----------------------|-------------|-------------|
| Refrigerant     | HFC134a               | —           | —           |
| Compressor oil  | DH-PR                 | —           | —           |

#### 7. GREASE

Use grease and supplementary lubricants shown in the table below.

| Grease                   | Application point                                                                                                                                                                                                                                                                                                     | Recommended materials             | Item number | Alternative |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|-------------|
| Supplementary lubricants | Oxygen sensor                                                                                                                                                                                                                                                                                                         | Spray type lubricant              | —           | —           |
| Grease                   | <ul style="list-style-type: none"> <li>MT main shaft (spline parts)</li> <li>MT main shaft (oil seal lip)</li> <li>Transfer driven gear (front roller bearing, rear roller bearing)</li> <li>Clutch release lever</li> <li>Clutch release bearing (inner circumference)</li> <li>Clutch operating cylinder</li> </ul> | NICHIMOLY N-130                   | —           | —           |
|                          | Clutch master cylinder push rod                                                                                                                                                                                                                                                                                       | SILICONE GREASE G-40M             | 004404003   | —           |
|                          | <ul style="list-style-type: none"> <li>Gear shift lever</li> <li>Clutch pedal</li> <li>Brake pedal</li> </ul>                                                                                                                                                                                                         | NIGHTIGHT LYW No. 2               | —           | —           |
|                          | Select lever                                                                                                                                                                                                                                                                                                          | Multemp D                         | —           | —           |
|                          | <ul style="list-style-type: none"> <li>Door latch</li> <li>Door striker</li> </ul>                                                                                                                                                                                                                                    | SILICONE GREASE G-30M             | 004404002   | —           |
|                          | Steering gearbox                                                                                                                                                                                                                                                                                                      | Multemp AC-P                      | —           | —           |
|                          | Disc brake (lock pin, guide pin)                                                                                                                                                                                                                                                                                      | NIGLUBE RX-2                      | K0779GA102  | —           |
|                          | Between brake pad and shim                                                                                                                                                                                                                                                                                            | Molykote AS-880N                  | K0777YA010  | —           |
|                          | Brake pad clip                                                                                                                                                                                                                                                                                                        | Molykote M7439 (Brake Grease 60G) | K0770YA000  | —           |
|                          | Parking brake                                                                                                                                                                                                                                                                                                         | Molykote 44MA                     | 26648FJ000  | —           |
|                          | Front axle PTJ                                                                                                                                                                                                                                                                                                        | NKG302                            | —           | —           |
|                          | <ul style="list-style-type: none"> <li>Front axle EBJ</li> <li>Rear axle BJ</li> <li>Rear axle EBJ</li> <li>Rear axle DOJ</li> <li>Rear axle EDJ</li> </ul>                                                                                                                                                           | NKG814                            | —           | —           |

#### 8. ADHESIVE

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

| Adhesive | Application point                                              | Recommended materials                                                                                                    | Item number | Alternative |
|----------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------|-------------|
| Adhesive | Windshield glass, rear quarter glass, rear gate glass and body | Dow Automotive's Adhesive: ESSEX U-400HV or equivalent<br>Glass primer: U-401 and U-402<br>Painted surface primer: U-413 | —           | —           |

## Recommended Materials

### RECOMMENDED MATERIALS

#### 9. SEAL MATERIAL

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

| Seal material | Application point                                                                                                                                                                                                                                                                                                                                                           | Recommended materials | Item number | Alternative          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------|----------------------|
| Seal material | <ul style="list-style-type: none"> <li>• MT transmission case</li> <li>• MT transfer case</li> <li>• Transmission cover</li> <li>• CVT transmission case</li> <li>• CVT extension case</li> <li>• CVT intermediate case (TR690 model)</li> <li>• CVT converter case cover (TR690 model)</li> <li>• CVT oil pump chain cover</li> <li>• CVT drive pinion retainer</li> </ul> | THREE BOND 1215       | 004403007   | DOW CORNING No. 7038 |
|               | Transmission oil pan (CVT model)                                                                                                                                                                                                                                                                                                                                            | THREE BOND 1217B      | K0877YA020  | —                    |
|               | <ul style="list-style-type: none"> <li>• Rear differential</li> <li>• Oil pressure switch</li> <li>• PCV valve</li> </ul>                                                                                                                                                                                                                                                   | THREE BOND 1324       | 004403042   | —                    |
|               | Rear differential                                                                                                                                                                                                                                                                                                                                                           | THREE BOND 1105       | 004403010   | DOW CORNING No. 7038 |
|               | Steering adjusting screw                                                                                                                                                                                                                                                                                                                                                    | THREE BOND 1111B      | —           | —                    |
|               | <ul style="list-style-type: none"> <li>• Engine oil pan</li> <li>• Separator cover</li> <li>• Cylinder block</li> <li>• Rocker cover</li> <li>• Chain cover</li> <li>• Oil pan upper</li> <li>• Cylinder head</li> <li>• Camshaft carrier</li> <li>• Camshaft bearing cap</li> </ul>                                                                                        | THREE BOND 1217G      | K0877Y0100  | —                    |
|               | <ul style="list-style-type: none"> <li>• Front door (sealing cover)</li> <li>• Rear door (sealing cover)</li> </ul>                                                                                                                                                                                                                                                         | 3M Butyl Tape 8626    | —           | —                    |
|               | Rear differential (side retainer bolt)                                                                                                                                                                                                                                                                                                                                      | THREE BOND 1110F      | —           | THREE BOND 1100B     |



# PRE-DELIVERY INSPECTION

*PI*

---

|                                  | Page |
|----------------------------------|------|
| 1. Pre-delivery Inspection ..... | 2    |



# Pre-delivery Inspection

## PRE-DELIVERY INSPECTION

### 1. Pre-delivery Inspection

#### A: GENERAL DESCRIPTION

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

- Remove the additional parts used for ensuring the vehicle quality during transportation and restore the vehicle to its normal condition.
- Check the vehicle before delivery is in normal condition.
- Check the vehicle or parts for any damage occurred during transportation or storage.
- Check the vehicle after repair is in normal condition.
- Make sure to provide a complete vehicle to customer.

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

Refer to this manual unless otherwise specified.

#### B: PRE-DELIVERY INSPECTION (PDI) PROCEDURE

Perform the procedures indicated in the table below.

##### Static checks just after vehicle receipt

| Step                                               | Check point                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Appearance                                      | 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 painted body surfaces in detail for damage or rust.<br>2. Visually check the glass and light lenses for any damage, cracks or excessive gaps between body sheet metal.<br>3. Visually check the plated parts for any damage.<br>4. Check the instrument panel, console and trim for stains or dirt. |
| 2. Tire                                            | 1. Check the tires for damage, defective, and dents on wheels.<br>2. Check the tire air pressure.                                                                                                                                                                                                                                                                                                                                                                              |
| 3. Fuse installation                               | If the vehicle is about to be delivered to customer, attach a back-up fuse.                                                                                                                                                                                                                                                                                                                                                                                                    |
| 4. Door lock/unlock and open/close operations      | 1. Using the key, check the door can be locked or unlocked normally.<br>2. Open and close all doors to check that there are no problems.<br>3. Operate the power door lock switch to check that all doors and the rear gate lock and unlock normally.                                                                                                                                                                                                                          |
| 5. Child safety lock                               | Check the child safety lock system operates normally.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 6. Rear gate lock/unlock and open/close operations | 1. Open and close the rear gate to check that there are no problems.<br>2. Check if the rear gate can be opened normally through the emergency hole.<br>3. Operate the power door lock switch to check that all doors and the rear gate lock and unlock normally.                                                                                                                                                                                                              |
| 7. Power rear gate                                 | Check if the power rear gate operates normally.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 8. Fuel lid opener lock release lever              | Operate the fuel lid opener to check that the fuel filler lid can be unlocked normally.                                                                                                                                                                                                                                                                                                                                                                                        |
| 9. Towing hook (eyebolt)                           | At factory shipment, the towing hook (eyebolt) is installed to the rear bumper. Remove the towing hook (eyebolt), store it in the holder.                                                                                                                                                                                                                                                                                                                                      |
| 10. Accessory                                      | Check that the following accessories are equipped. <ul style="list-style-type: none"><li>• Owner's manual</li><li>• Warranty booklet</li><li>• Maintenance note</li><li>• Spare key</li><li>• Key No. plate</li><li>• Jack</li><li>• Tool set</li><li>• Spare tire</li><li>• Towing hook</li></ul>                                                                                                                                                                             |
| 11. Front hood lock release                        | Operate the front hood lock release lever to check that the front hood opens normally.                                                                                                                                                                                                                                                                                                                                                                                         |
| 12. Battery                                        | Check the battery for any abnormal conditions such as rust or traces of battery fluid leaks.                                                                                                                                                                                                                                                                                                                                                                                   |
| 13. Brake fluid                                    | Check the brake fluid amount.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 14. Engine oil                                     | Check the engine oil amount.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

# Pre-delivery Inspection

## PRE-DELIVERY INSPECTION

| Step                           | Check point                                                                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15. Transmission gear oil      | Check that the transmission gear oil level is normal.                                                                                                                          |
| 16. CVT front differential oil | Check for leakage of CVT front differential oil.                                                                                                                               |
| 17. Rear differential gear oil | Check for leakage of gear oil from the rear differential.                                                                                                                      |
| 18. Engine coolant             | Check the engine coolant level.                                                                                                                                                |
| 19. Clutch fluid               | Check the clutch fluid amount.                                                                                                                                                 |
| 20. Window washer fluid        | Check the window washer fluid amount.                                                                                                                                          |
| 21. Front hood latch           | Check that the front hood is closed normally and locked securely.                                                                                                              |
| 22. Keyless entry system       | Check that the keyless entry system operates normally.                                                                                                                         |
| 23. Keyless access system      | Check that the keyless access function operates normally.                                                                                                                      |
| 24. Alarm system               | Check that the alarm system operates normally.                                                                                                                                 |
| 25. Seat                       | 1. Check the seat surfaces for stains or dirt.<br>2. Check the seat installation conditions and functionality.                                                                 |
| 26. Seat belt                  | Check the seat belt installation conditions and functionality.                                                                                                                 |
| 27. Grommet installation       | Install the grommet provided in the glove box to the tie-down hole.                                                                                                            |
| 28. TPMS (U.S. model)          | 1. Turn the TPMS transmitter power supply to ON.<br>2. If the display of TPMS warning light does not operate normally, perform the diagnosis by referring to TPMS (Diagnosis). |

### Checks with the engine running

| Step                                    | Check point                                                                                                                                  |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 29. Delivery (test) mode                | Turn the ignition switch to ON and check that the malfunction indicator light starts blinking.                                               |
| 30. Immobilizer system                  | 1. Check that the engine starts with all keys that are equipped on vehicle.<br>2. Check that the security indicator light operates normally. |
| 31. Push button start                   | Using the push button start function of the access key equipped with the vehicle, check that the engine starts and stops.                    |
| 32. Starting condition                  | Start the engine and check that the engine starts smoothly.                                                                                  |
| 33. Exhaust system                      | Check that the exhaust noise is normal and no leaks are found.                                                                               |
| 34. Indicator and warning lights        | Check that all indicator lights and warning lights are operating correctly.                                                                  |
| 35. Heater & ventilation                | Check that the heater & ventilation system operates normally.                                                                                |
| 36. Air conditioner                     | Check that the air conditioner operates normally.                                                                                            |
| 37. Multi-function display (MFD)        | Check that the Multi-Function Display (MFD) function operates normally.                                                                      |
| 38. Audio                               | Check the radio and AUX operate normally.                                                                                                    |
| 39. Navigation                          | Check the navigation and AUX operate normally.                                                                                               |
| 40. Accessory power supply socket       | Check that the accessory power supply socket operates normally.                                                                              |
| 41. Lighting system                     | Check that the lighting system operates normally.                                                                                            |
| 42. Illumination control                | Check that the illumination control operates normally.                                                                                       |
| 43. Window washer                       | Check that the window washer system operates normally.                                                                                       |
| 44. Wiper                               | Check that the wiper system operates normally.                                                                                               |
| 45. Wiper deicer                        | Check that the wiper deicer operates normally.                                                                                               |
| 46. Power window                        | Check that the power window operates normally.                                                                                               |
| 47. Sunroof                             | Check that the sunroof operates normally.                                                                                                    |
| 48. Rear defogger                       | Check that the rear defogger operates normally.                                                                                              |
| 49. Door mirror                         | Check that the remote control mirror and heated mirror operate normally.                                                                     |
| 50. Parking brake                       | Check the parking brake for normal operations.                                                                                               |
| 51. Diagnostic trouble code (DTC) check | Check that the diagnostic trouble code (DTC) is not detected.                                                                                |



# Pre-delivery Inspection

## PRE-DELIVERY INSPECTION

### Dynamic test with the vehicle running

| Step                | Check point                                             |
|---------------------|---------------------------------------------------------|
| 52. Brake test      | Check the foot brake for normal operations.             |
| 53. Shift control   | Check that the shift patterns are correct.              |
| 54. Cruise control  | Check that the cruise control system operates normally. |
| 55. Subaru EyeSight | Check that the Subaru EyeSight operates normally.       |

### Checks after dynamic test

| Step                      | Check point                                                                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 56. Power steering system | Check the steering warning light operation.                                                                                                         |
| 57. Fluid leakage         | Check for fluid/oil leaks.                                                                                                                          |
| 58. Water leak test       | Spray the vehicle with water and check for water leaks.                                                                                             |
| 59. Appearance 2          | 1. Remove the protective coating (if equipped).<br>2. Check the body paints for damage and stain.<br>3. Check the plated parts for damage and rust. |

### 1. APPEARANCE

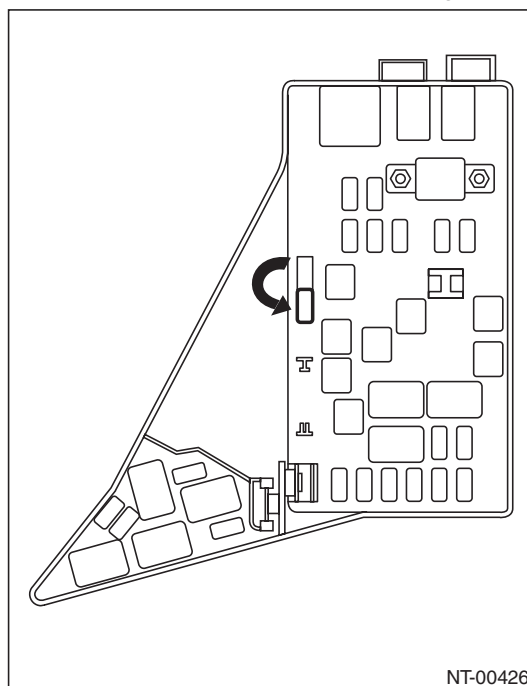
- If the vehicle is covered with protective coating, visually check the vehicle body for damage and dents.
- When there is no protective coating, check the body paints for damage or stains in detail and repair as necessary.
- Check the window glass, door glass, and lights for any cracks or damage, and replace 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.
- Check the instrument panel, console and trim for stains or dirt.

### 2. TIRE

- Check the tires for damage, defective, and dents on 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 on initially delivered vehicles are removed to prevent battery discharge. Attach the 20 A fuse as shown in the figure.

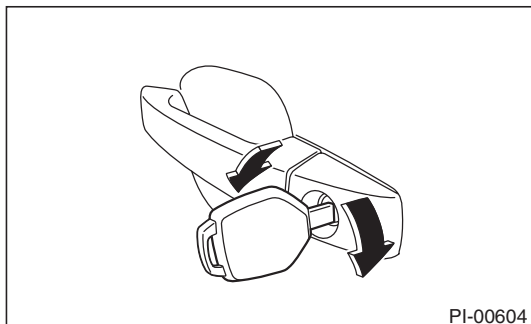


## Pre-delivery Inspection

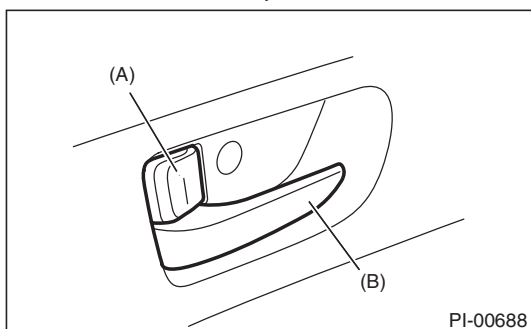
### PRE-DELIVERY INSPECTION

#### 4. LOCK/UNLOCK AND OPEN/CLOSE OPERATION CHECKS OF DOORS

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.

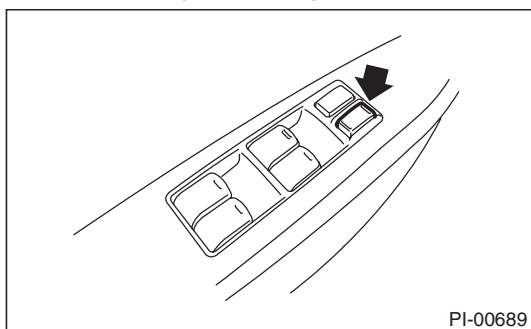


2) Completely close the driver's door, and then check the smooth movement with operating door lock knob from lock to unlock several times. Set the door lock knob (A) to lock position. Then pull the inner remote (B) to ensure that doors will not open. For other doors, place the door lock knob (A) to lock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

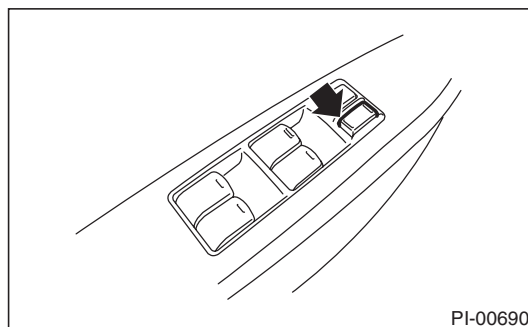


- (A) Door lock knob
- (B) Inner remote

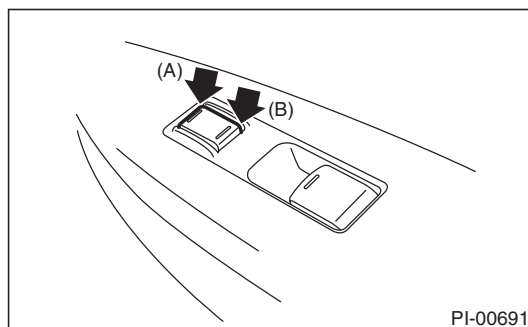
3) Close all the doors, and then press the lock on power door lock switch at driver's side. Check that all doors (including the rear gate) lock.



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



5) Check that the passenger's power door lock switch locks and unlocks normally in the same manner.



- (A) Lock
- (B) Unlock

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

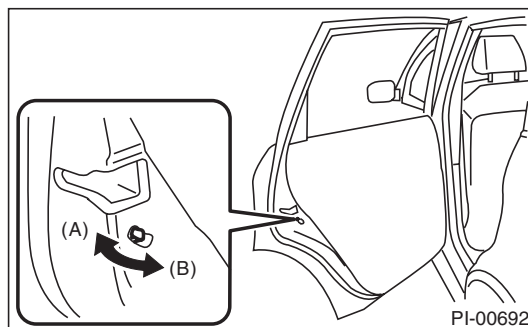
#### 5. CHILD SAFETY LOCK

1) Set the child safety lock lever 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.

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



- (A) Unlock
- (B) Lock

## Pre-delivery Inspection

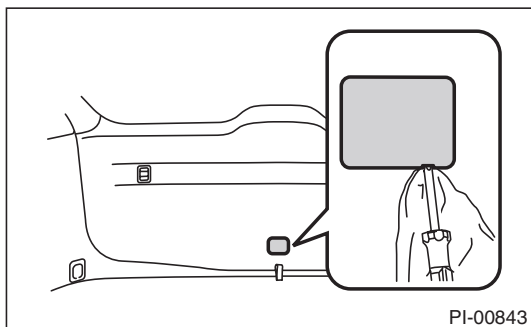
### PRE-DELIVERY INSPECTION

#### 6. REAR GATE LOCK/UNLOCK AND OPEN/CLOSE OPERATIONS

1) Open and close the rear gate several times for smooth movement.

2) Operate the rear gate emergency release lever to check that the rear gate can be locked and unlocked properly.

(1) Remove the cover inside the rear gate.

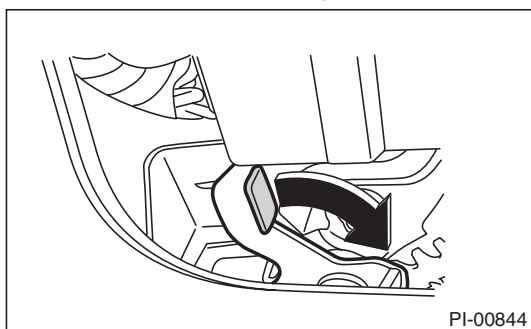


(2) Operate the lever using a tool such as a screwdriver to check that the rear gate is unlocked normally.

- Except for model with power rear gate



- Model with power rear gate



#### 7. POWER REAR GATE

1) Check that the power rear gate normally opens/closes and temporarily stops by pressing the power rear gate switch, power rear gate inner switch, power rear gate driver's switch and rear gate/trunk button of keyless transmitter and access key. Also, check that it can be opened/closed manually.

2) Operate the memory height switch to check that it normally stops at the memory position. At the same time, check that the opening angle of the stop position stored in the memory is fully closed to 30 cm or more.

##### NOTE:

The memory position of the vehicle before delivery is set to the opening angle from fully closed to 30 cm.

3) Push the power rear gate inner switch with the power rear gate fully opened. Immediately after the power rear gate starts closing, press in either right or left touch sensor by 2 mm or more and check that the auto-reverse operation activates.

#### 8. FUEL LID OPENER LOCK RELEASE LEVER

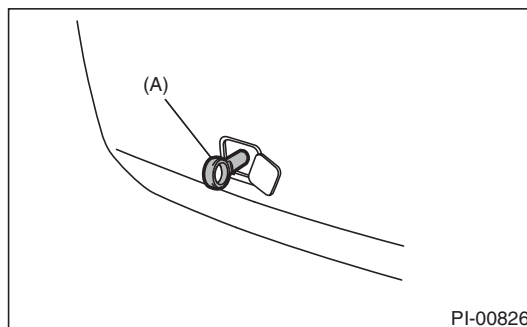
Operate the fuel lid lock release lever to check that the fuel lid is unlocked normally. Check that the filler cap is securely closed.

#### 9. TOWING HOOK (EYEBOLT)

##### NOTE:

At factory shipment, the towing hook (eyebolt) is installed to the rear bumper for securing the vehicle during transportation. Follow the procedure below to store the towing hook (eyebolt) to the holder in the spare tire.

1) Remove the towing hook (eyebolt) from the rear bumper.

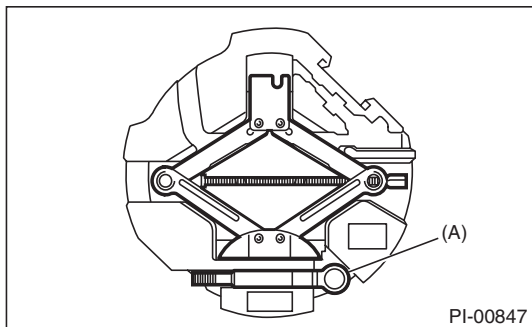


(A) Towing hook (eyebolt)

## Pre-delivery Inspection

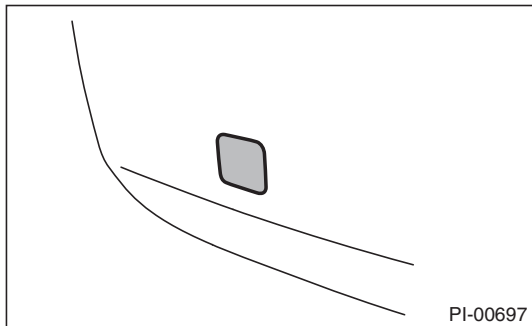
### PRE-DELIVERY INSPECTION

2) Store the towing hook (eyebolt) to the holder in the spare tire.



(A) Towing hook (eyebolt)

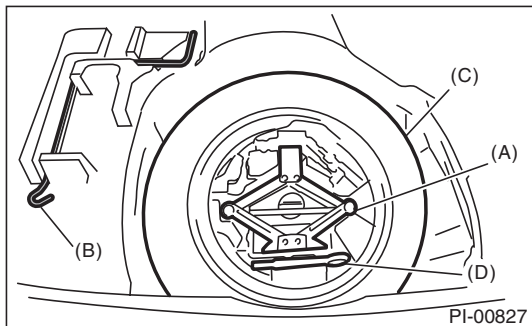
3) Install the supplied rear hook cover to rear bumper.



### 10.ACCESSORY

Check that the following accessories are provided.

- Owner's manual
- Warranty booklet
- Maintenance note
- Spare key
- Key No. plate
- Jack
- Tool set
- Spare tire
- Towing hook (eyebolt)



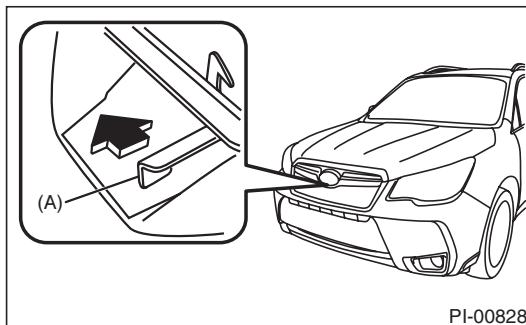
- (A) Jack
- (B) Jack handle
- (C) Spare tire
- (D) Towing hook (eyebolt)

### 11.FRONT HOOD LOCK RELEASE

Operate the front hood release lever to check that the front hood is unlocked normally.

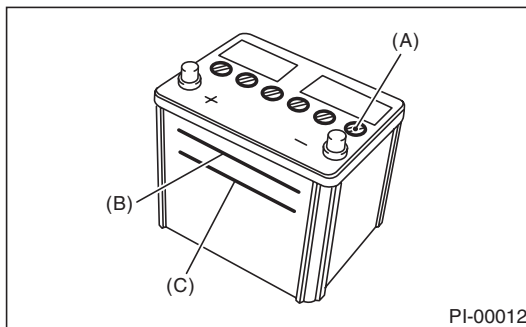


Operate the lever (A) and check that the front hood is opened normally.



### 12.BATTERY

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



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

## Pre-delivery Inspection

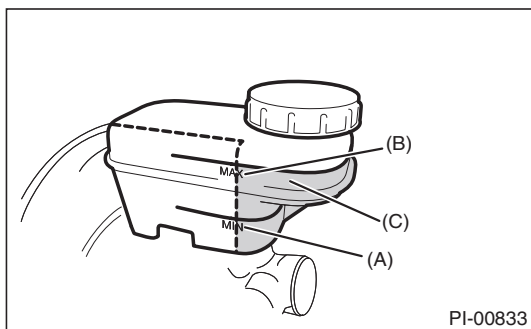
### PRE-DELIVERY INSPECTION

#### 13. BRAKE FLUID

##### CAUTION:

- If the brake fluid is spilt over exhaust pipe, wipe it off with cloth to avoid emitting smoke or causing a fire.
- Always check the level using the specified direction because there is a partition in the reservoir tank.

Check that the brake fluid level is normal from a straight view or within 90° to the right and left forward. 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) MIN. level  
(B) MAX. level  
(C) Brake fluid

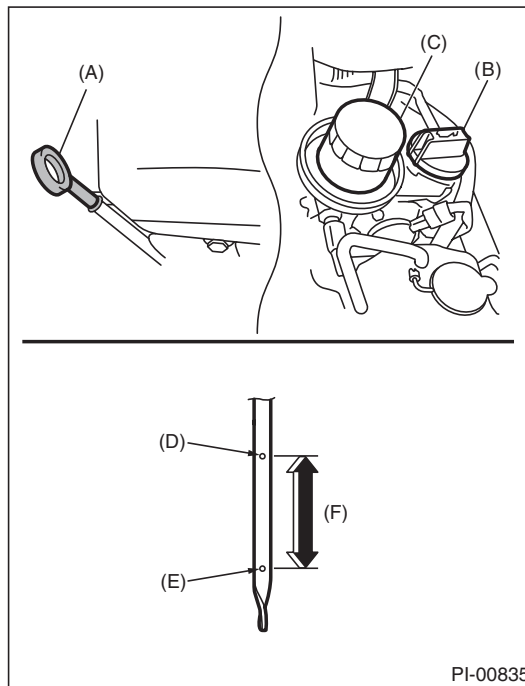
#### 14. ENGINE OIL

- 1) Park the vehicle on a level surface.
- 2) Remove the oil level gauge and wipe away the oil.
- 3) Reinsert the oil level gauge all the way. Be sure that the oil level gauge is correctly inserted and properly orientated.
- 4) Pull out the oil level gauge again, and check both sides of the oil level gauge. Use a lower side to determine the engine oil level. If the engine oil level is below "L" line, add oil to bring the level up to "F" line.
- 5) Start the engine, and spread the oil in engine room.

- 6) After turning off the engine, wait a few minutes for the oil to return to the oil pan before checking the oil level.

##### NOTE:

To prevent overfilling of engine oil, do not add oil above "F" line when the engine is cold.



- (A) Engine oil level gauge  
(B) Engine oil filler cap  
(C) Engine oil filter  
(D) "F" line  
(E) "L" line  
(F) Approx. 1 L (1.1 US qt, 0.9 Imp qt)

#### 15. TRANSMISSION GEAR OIL

Check the transmission gear oil amount. If the amount of gear oil is insufficient, check for leaks. Then, add the necessary amount of the specified gear oil. Refer to "6MT" section for transmission gear oil inspection. <Ref. to 6MT-24, INSPECTION, Transmission Gear Oil.>

##### CAUTION:

If gear oil is spilt over the exhaust pipe, wipe it off with a cloth to avoid emitting smoke or causing a fire.

## 16.CVT FRONT DIFFERENTIAL GEAR OIL

Check for leakage of CVT front differential gear oil.

### CAUTION:

If gear oil is spilt over the exhaust pipe, wipe it off with a cloth to avoid emitting smoke or causing a fire.

## 17.REAR DIFFERENTIAL GEAR OIL

Check for leakage of gear oil from the rear differential.

### CAUTION:

If the rear differential gear oil is spilt over exhaust pipe, wipe it off with cloth to avoid emitting smoke or causing a fire.

## 18.ENGINE COOLANT

Check the coolant amount on the reservoir. 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.

### CAUTION:

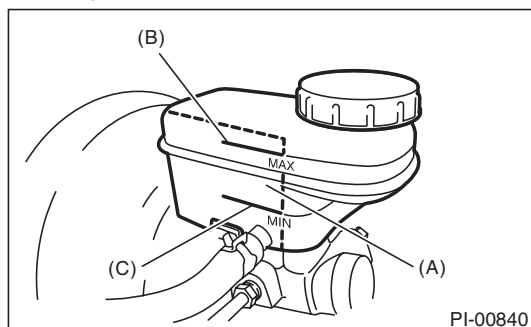
If the coolant is spilt over exhaust pipe, wipe it off with cloth to avoid emitting smoke or causing a fire.

## 19.CLUTCH FLUID

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

### CAUTION:

If any clutch fluid is spilt on the exhaust pipe, wipe it off with a cloth to avoid emitting smoke or causing a fire.



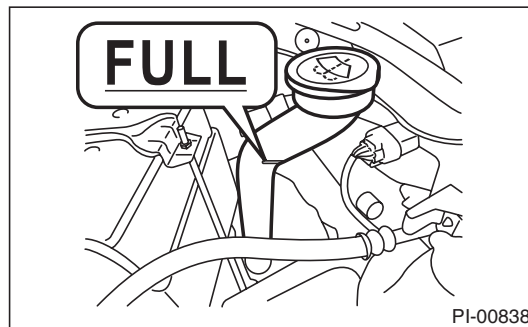
- (A) Clutch fluid chamber
- (B) MAX. level
- (C) MIN. level

## 20.WINDOW WASHER FLUID

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

### NOTE:

If there is the vibration, water comes into the layer of air in the washer tank and the water level may drop. This is not a malfunction.



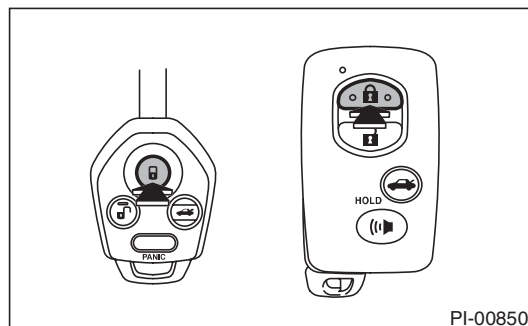
## 21.FRONT HOOD LATCH

Close the front hood. Check that the front hood is completely latched.

## 22.KEYLESS ENTRY SYSTEM

Check the keyless entry system operations as follows:

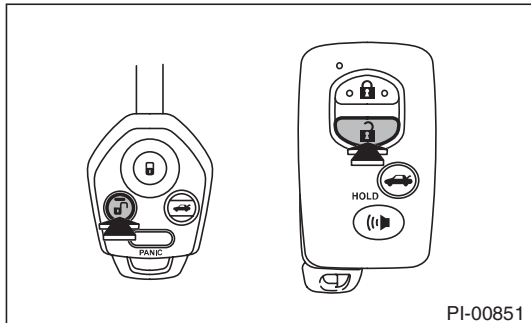
- Fully open all the door windows.
- Remove the key from the ignition switch and close all the doors including rear gate.
- Press the "LOCK/ARM" button momentarily on the keyless transmitter. Check that all the doors become locked, the buzzer sounds once, and the hazard lights flash once.



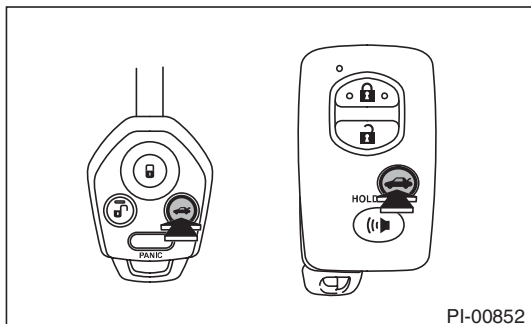
## Pre-delivery Inspection

### PRE-DELIVERY INSPECTION

- Press the "UNLOCK/DISARM" button momentarily on the keyless transmitter. Check that the driver's door is unlocked, the buzzer sounds twice, and the hazard lights flash twice.



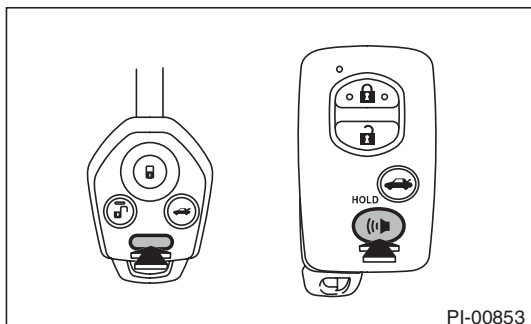
- Within 5 seconds, press the "UNLOCK/DISARM" button momentarily on the keyless transmitter. Check that all doors (including rear gate) are unlocked, the buzzer sounds twice, and the hazard lights flash twice.
- Lock all the doors including rear gate. Check that the buzzer sounds twice, and the hazard lights flash twice, when the rear gate/trunk button on the keyless transmitter is pressed to unlock the rear gate. Press the release button and check that the rear gate opens.



#### NOTE:

For the power rear gate, the rear gate automatically opens when the rear gate/trunk button is pressed continuously.

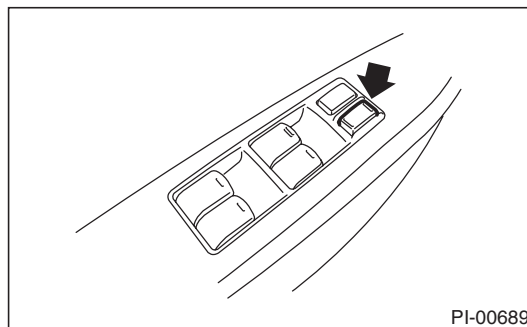
- Press the "PANIC" button of the keyless transmitter. Check that the panic mode (the horn keeps sounding) is initiated. Also, check that this condition continues for 30 seconds or until when any of the buttons on the keyless transmitter are pressed.



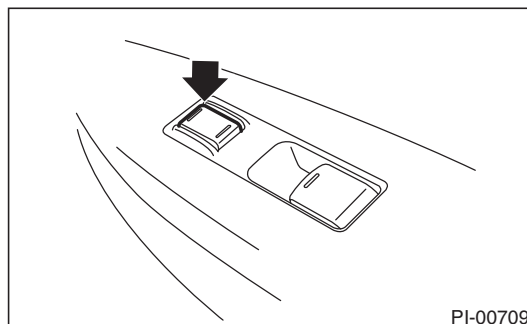
- Press the "LOCK/ARM" button momentarily on the keyless transmitter with one of the doors (including the rear gate) opened. Check that the buzzer sounds 5 times, and the hazard light flashes 5 times to notify the door not being fully closed. Next, close all the doors including rear gate. Check if all doors are locked and buzzer sounds once and the hazard light flashes once.

- With one of the doors open (including the rear gate), press the "LOCK" side of the power door lock switch. Next, close all the doors including rear gate. Check if all doors are locked and buzzer sounds once and the hazard light flashes once.

- Driver's side



- Passenger's side



#### Alarm sound operational check

- The system uses the buzzer and sounds the alarm when the door is locked or unlocked. The alarm sound can be turned OFF. To turn the alarm sound from ON to OFF, close all doors, (with the key not inserted in the key cylinder), hold down the "UNLOCK" side of the power door lock switch and insert the key in the key cylinder. Within 10 seconds, insert and take out the key for 5 times or more, and within 10 seconds after that, open and close the driver's door. With the door closed, the hazard light will flash 3 times, indicating that the alarm sound has been turned OFF. To turn the alarm sound from OFF to ON, perform this procedure again. The hazard light will flash 3 times, indicating that the alarm has been turned ON.

## 23.KEYLESS ACCESS FUNCTION

### CAUTION:

- When performing the check, check one access key at a time, separating individual keys.
- Do not leave any separated access keys in the vehicle.

### 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 BC(diag)-11, OPERATION, Read Current Data.>

- While carrying the access key, check that the room light illuminates when you move close to the front door handles of the vehicle whose doors are all locked.
- While carrying the access key, check that touching the driver's side touch sensor unlocks the driver's door, touching the front passenger's side touch sensor unlocks all doors and the rear gate, pressing the rear gate opener button unlocks the rear gate, and the hazard lights blink.

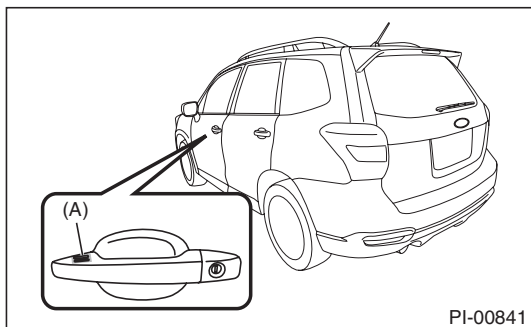
### NOTE:

For the power rear gate, the rear gate automatically opens when pressing the power rear gate switch.

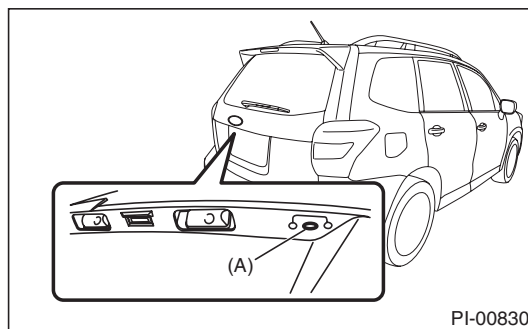
- While carrying the access key, check that all doors and the rear gate are locked, and the hazard lights flash when you touch the touch sensor (lock) of the front door or press the rear lock button of the rear gate.

### NOTE:

- The hazard lights flash twice and the buzzer sounds twice when unlocking.
- The hazard lights flash once and the buzzer sounds once when locking.
- The hazard lights flash four times when the power rear gate automatically opens. (Locked state)

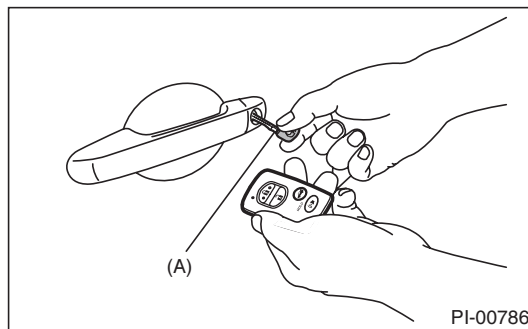


(A) Touch sensor (lock)



(A) Rear lock button

- Manually operate the access key button to check the lock/unlock of doors and rear gate, and the flashing of hazard lights.
- Check the mechanical key attached to the access key can be used for locking/unlocking.



(A) Mechanical key

- With the access key in the vehicle, check that warning buzzer sounds and locking does not occur when you touch the touch sensor (lock) of the door or press the rear lock button.

### CAUTION:

**Remove the mechanical key from the access key and hold the mechanical key.**

## 24.ALARM SYSTEM

- Model without keyless access function

### NOTE:

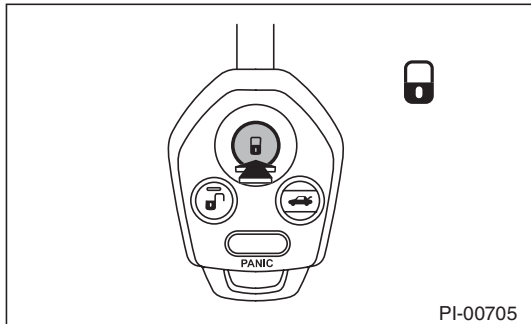
The following inspections show the initial settings. When the settings are different from the initial settings, use Subaru Select Monitor to check the details of each setting for inspections. <Ref. to BC(diag)-17, OPERATION, Registration Body Integrated Unit.>

- 1) Fully open all the door windows.
- 2) Remove the key from the ignition switch and close all the doors including rear gate.

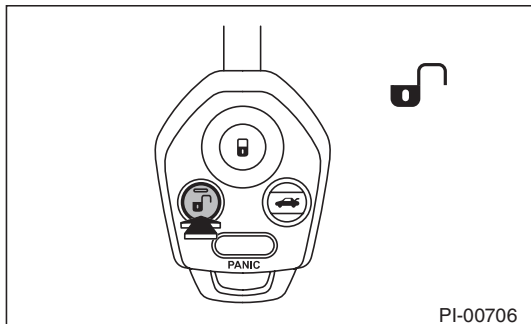
## Pre-delivery Inspection

### PRE-DELIVERY INSPECTION

3) Press the "LOCK" button momentarily on the keyless transmitter. All doors are locked, and the security indicator light blinks faster for 30 seconds and blinks slowly twice repeatedly, then the alarm system is in set condition.



4) Press the "UNLOCK" button momentarily on the keyless transmitter. When the door of the driver's seat is unlocked, the security indicator light blinks, and the alarm system enters the release mode.

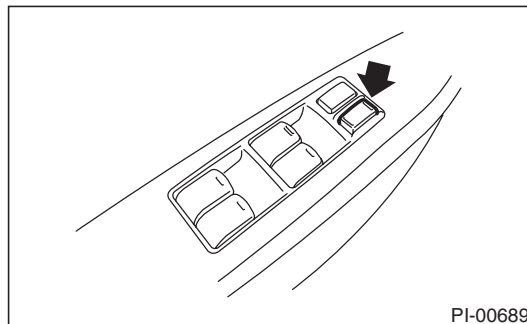


5) Press the "LOCK" button once on the keyless transmitter with one of the doors (including the rear gate) open. Check that the buzzer sounds 5 times to give the door not fully closed warning. The doors are locked when all doors (including the rear gate) are closed, and the security indicator light blinks faster for 30 seconds and blinks slowly twice repeatedly, then the alarm system is in set condition.

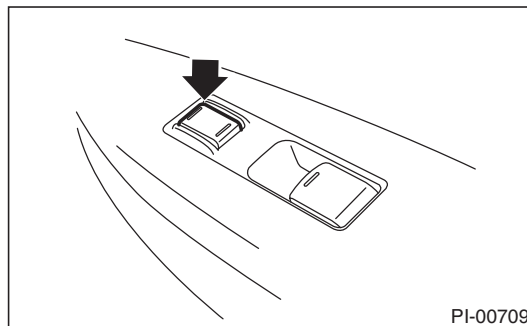
6) Press the "UNLOCK" button momentarily on the keyless transmitter. When the door of the driver's seat is unlocked, the security indicator blinks, and the alarm system enters the release mode.

7) With one of the doors open (including the rear gate), press the "LOCK" side of the power door lock switch. The doors are locked when all doors (including the rear gate) are closed, and the security indicator light blinks faster for 30 seconds and blinks slowly twice repeatedly, then the alarm system is in set condition.

#### • Driver's side



#### • Passenger's side



8) Unlock a door using the inner lock knob or the key and open the door while the security system is in the set mode. Check if the alarm condition occurs (horn sounds continuously, hazard light blinks, security indicator light illuminates). Check if this condition lasts until any button of the keyless transmitter is pressed or until the ignition switch is turned to IGN ON after inserting the key into the ignition switch.

#### NOTE:

The alarm sounds for three minutes with the door open.

9) On models equipped with an impact sensor, hit the windshield glass with your hand with the alarm system in the monitoring condition, to check that the alarm condition occurs.

10) When none of above is applicable, perform troubleshooting for the security system.

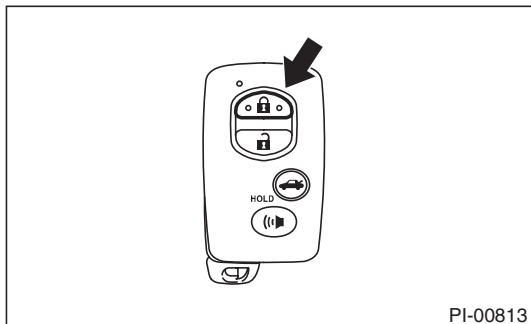
#### • Model with keyless access function

#### NOTE:

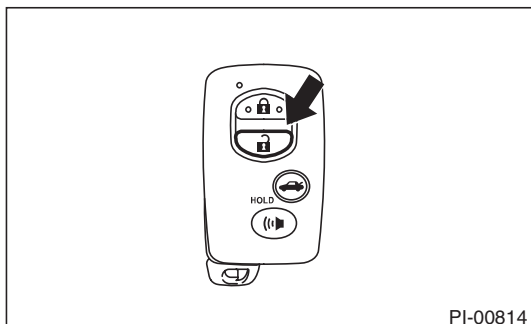
The following inspections show the initial settings. When the settings are different from the initial settings, use Subaru Select Monitor to check the details of each setting for inspections. <Ref. to BC(diag)-17, OPERATION, Registration Body Integrated Unit.>

- 1) Fully open all the door windows.
- 2) Close all the doors and rear gate.

3) Press the "LOCK" button momentarily on the access key. All doors are locked, and the security indicator light blinks faster for 30 seconds and blinks slowly twice repeatedly, then the alarm system is in set condition.



4) Press the "UNLOCK" button momentarily on the access key. When the door of the driver's seat is unlocked, the security indicator light blinks, and the alarm system enters the release mode.

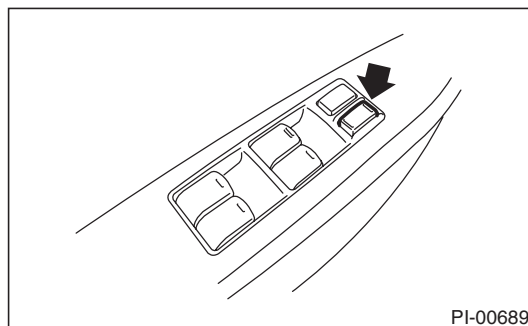


5) Press the "LOCK" button once on the access key with one of the doors (including the rear gate) open. Check that the buzzer sounds 5 times to give the door not fully closed warning. The doors are locked when all doors (including the rear gate) are closed, and the security indicator light blinks faster for 30 seconds and blinks slowly twice repeatedly, then the alarm system is in set condition.

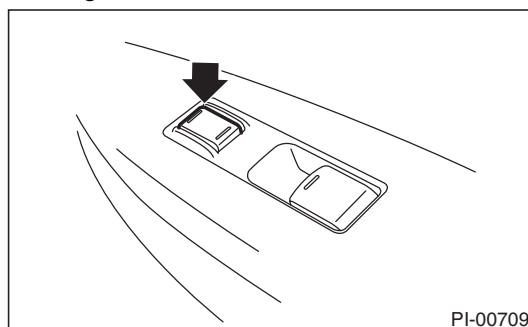
6) Press the "UNLOCK" button momentarily on the access key. When the door of the driver's seat is unlocked, the security indicator blinks, and the alarm system enters the release mode.

7) With one of the doors open (including the rear gate), press the "LOCK" side of the power door lock switch. The doors are locked when all doors (including the rear gate) are closed, and the security indicator light blinks faster for 30 seconds and blinks slowly twice repeatedly, then the alarm system is in set condition.

## • Driver's side



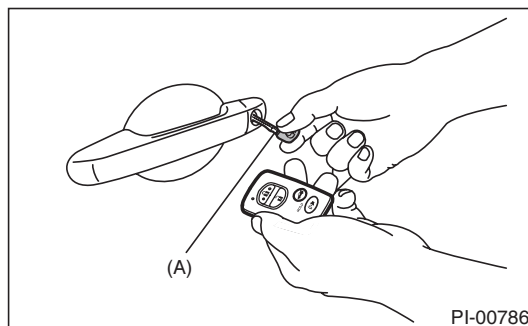
## • Passenger's side



8) Unlock a door using the mechanical key and open the door while the security system is in the set mode. Check if the alarm condition occurs (horn sounds continuously, hazard light blinks, security indicator light illuminates). Check if this condition lasts until any button on the access key is pressed or until the ignition switch is turned to ACC.

## NOTE:

The alarm sounds for three minutes with the door open.



(A) Mechanical key

9) On models equipped with an impact sensor, hit the windshield glass with your hand with the alarm system in the monitoring condition, to check that the alarm condition occurs.

10) When none of above is applicable, perform troubleshooting for the security system.

## Pre-delivery Inspection

### PRE-DELIVERY INSPECTION

#### 25. SEAT

- 1) Check the seat surfaces for stains or dirt.
- 2) Check that each seat provides full functionality in sliding, reclining, lifter, tilting and lumbar. Check all available functions of the rear seat such as armrest and backrest tilt knob.
- 3) Check the passenger's seat occupant detection system.
  - (1) Empty the passenger's seat and turn the ignition switch to ON.
  - (2) Check that the passenger airbag ON/OFF indicator lights both turn on simultaneously for approximately six seconds, and after turning off for two seconds, only the OFF light illuminates.
- 4) With a person weighing approximately 70 kg (155 lb) or more sitting in the passenger's seat, check whether the ON light of the passenger's airbag ON/OFF indicator illuminates or not.
- 5) Have the passenger get out of the passenger's seat, and check whether the OFF light of the passenger side airbag ON/OFF indicator illuminates.

#### 26. SEAT BELT

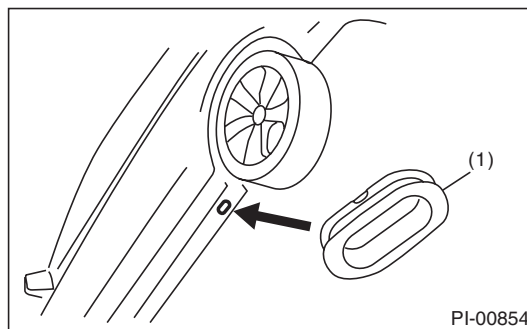
- 1) Pull out the seat belt and then release it. Check that the belt retracts smoothly.
- 2) Check seat warning system
  - (1) Turn the ignition switch to ON without driver's and passenger's seat belts on.
  - (2) Check the seat belt warning lights of the driver's and the passenger's blink for approximately six seconds and the buzzer sounds intermittently.
  - (3) Then check that the seat belt warning lights illuminate and blink in a cycle of approximately 15 seconds. (If no one is seated on the passenger's seat, the seat belt warning light of the passenger's will not operate.)

#### 27. GROMMET INSTALLATION

Install the grommet provided in the glove box to the tie-down hole.

##### CAUTION:

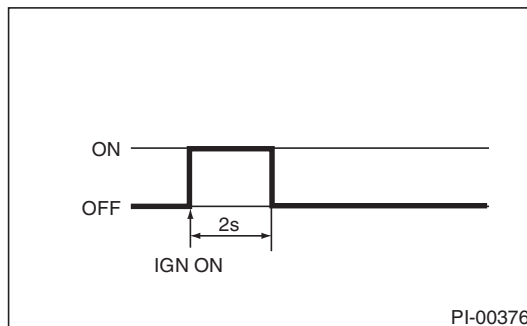
**Make sure that the tie-down hole is firmly plugged with the grommet. Otherwise, dust, smell, etc. may come into the passenger compartment indirectly from the rear quarter, via the side sill from the tie-down hole.**



(1) Grommet

#### 28. TPMS (U.S. MODEL)

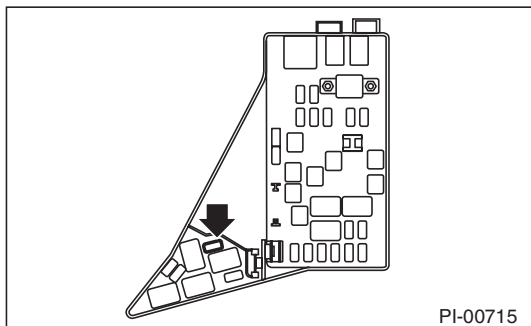
- 1) Turn the ignition switch to ON, and check that the TPMS warning light is in a normal operation condition.
  - Normal operation (IG ON (Light check))



- 2) If the TPMS warning light display does not operate normally, check and repair the system. <Ref. to TPM(diag)-2, Basic Diagnostic Procedure.>

## 29.DELIVERY (TEST) MODE

- 1) Turn the ignition switch to ON and check that the malfunction indicator light starts blinking.
- 2) If the light blinks, return the ignition key to LOCK.
- 3) Remove the D check fuse and attach it to the spare fuse holder provided on the fuse box cover.



- 4) Then, turn the ignition key to ON again.
- 5) Make sure that the malfunction indicator light is off. If the malfunction indicator light blinks, carry out an engine diagnosis.

## 30.IMMOBILIZER SYSTEM

- 1) Check that the engine starts with all keys that are equipped on vehicle. Also, when starting the engine, check that the security indicator light goes off.
- 2) 60 seconds after turning ignition switch from ON to ACC or OFF, or immediately after removing the key, check that the security indicator light is blinking. (Model without keyless access function)
- 3) Immediately after turning ignition switch from ON to OFF, or when opening/closing a door while the ignition switch is in ON or ACC with the engine stopped, check that the security indicator light is blinking. (Model with keyless access function)

### NOTE:

If malfunctions occur, refer to "IMMOBILIZER (DIAGNOSTICS)". <Ref. to IM(diag)-2, Basic Diagnostic Procedure.>

## 31.PUSH BUTTON START FUNCTION

- 1) Get into the vehicle while carrying the access key, with the vehicle in P range and the brake pedal OFF, and check that every time the push button ignition switch is pressed, that it cycles through ACC → IGN ON → IGN OFF, and the indicator light for the push button ignition switch is illuminated in orange.

- 2) Get into the vehicle while carrying the access key, with the vehicle in P range and the brake pedal ON, check that the indicator light for the push button ignition switch is illuminated in green.

### NOTE:

While the select lever button is being pressed, the indicator light of the push button ignition switch does not illuminate in green even if the shift position is in the P range.

- 3) Get into the vehicle while carrying the access key, with the vehicle in P range and the brake pedal ON, check that the engine starts when you press the push button ignition switch.
- 4) With the vehicle stopped, the engine running and in P range, check that the engine stops when you press the push button ignition switch.
- 5) With the vehicle stopped, the engine running and in N range, check that the engine stops when you press the push button ignition switch, and cycles through ACC → IGN ON each time you press the push button ignition switch.

## 32.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.

## 33.EXHAUST

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

## 34.INDICATOR AND WARNING LIGHTS

Check that all indicator lights and warning lights are operating correctly.

## 35.HEATER & VENTILATION

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

## 36.AIR CONDITIONER

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

### NOTE:

To prevent the insufficient lubrication of the air conditioner, operate the air conditioner for five minutes at idling.

## Pre-delivery Inspection

### PRE-DELIVERY INSPECTION

---

#### 37.MULTI-FUNCTION DISPLAY (MFD)

- 1) Check that the Multi-Function Display (MFD) function operates normally.
- 2) Check that the rearview camera operates normally.

#### 38.AUDIO

- 1) Check if the AM/FM radio broadcasting can be heard.
- 2) Check that all the radio functions work properly and the noise level is normal.
- 3) Check the CD and AUX for normal operation.
- 4) Check that the AUX is installed into the console without looseness.

#### 39.NAVIGATION SYSTEM

- 1) Check all display functions for normal operation. (Refer to the operation manual.)
- 2) Check that the navigation system operates normally.
- 3) Check the radio, CD player and AUX for normal operation.
- 4) Check that the AUX is installed into the console without looseness.

#### 40.ACCESSORY POWER SUPPLY SOCKET

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

#### 41.LIGHTING SYSTEM

- 1) Check the headlight operations. When pulling out the key, check if the headlight illuminates by turning the headlight switch from OFF to ON.
- 2) Check the stop light operation.
- 3) Check other lights for normal operations.

#### 42.ILLUMINATION CONTROL

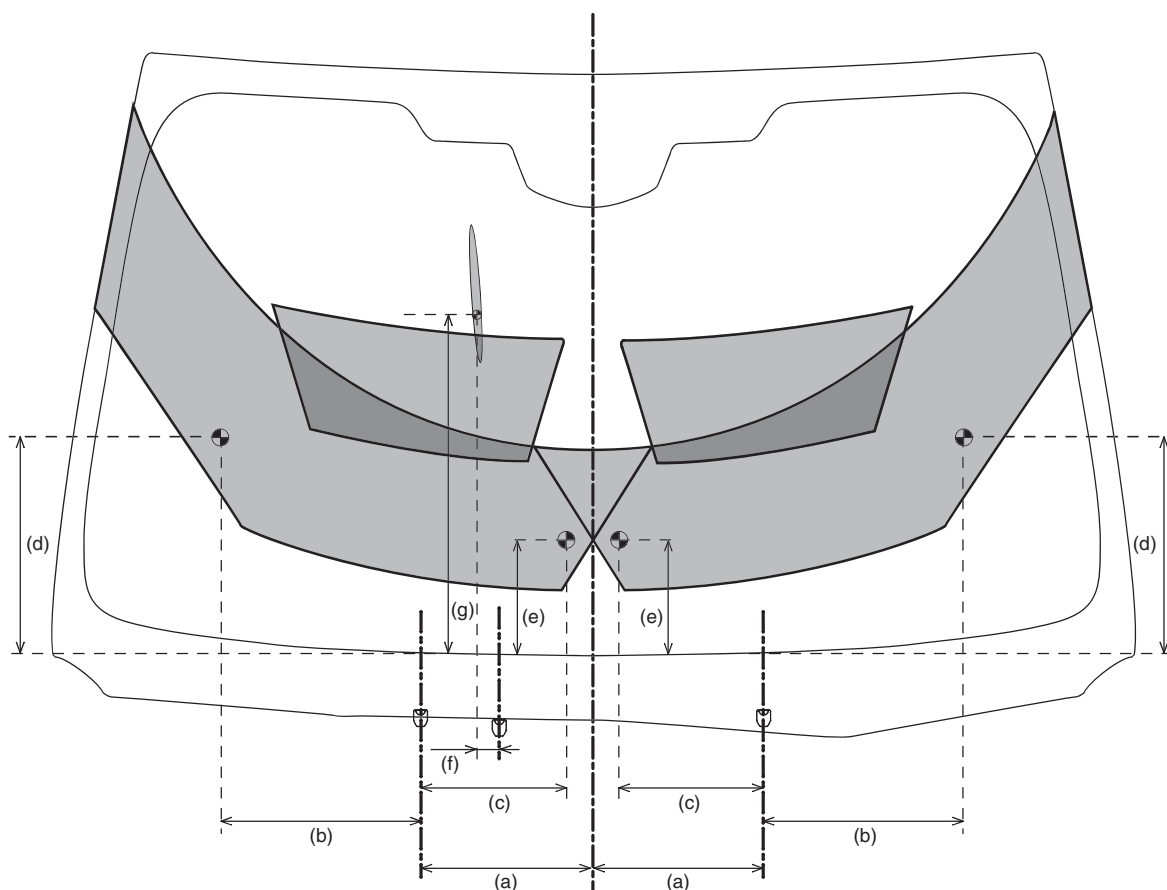
Check that the illumination control operates normally.

## 43.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:

- Models with EyeSight



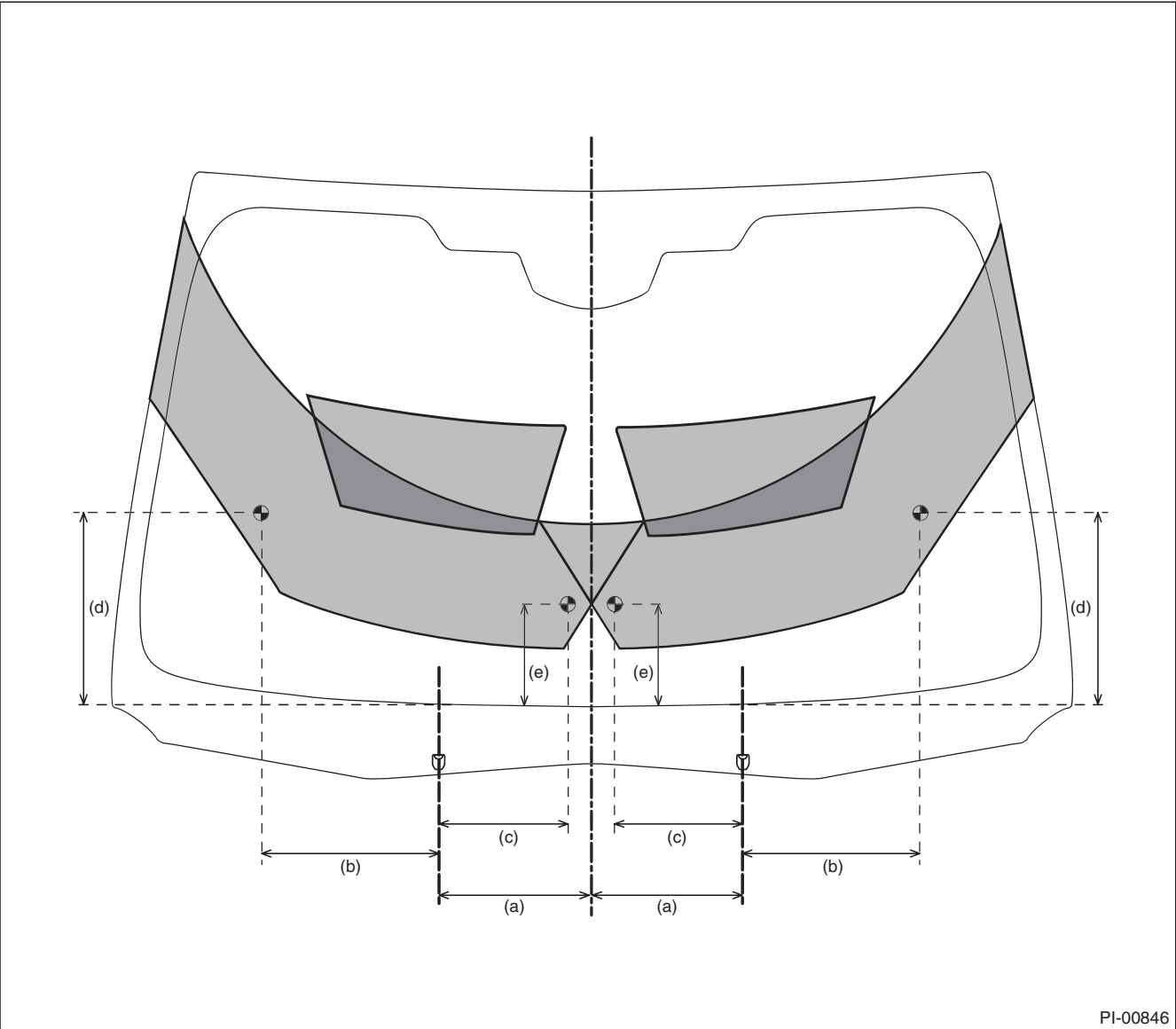
PI-00848

|                       |                       |                      |
|-----------------------|-----------------------|----------------------|
| (a) 230 mm (9.06 in)  | (b) 271 mm (10.67 in) | (c) 195 mm (7.68 in) |
| (d) 302 mm (11.89 in) | (e) 160 mm (6.30 in)  | (f) 31 mm (1.22 in)  |
| (g) 471 mm (18.54 in) |                       |                      |

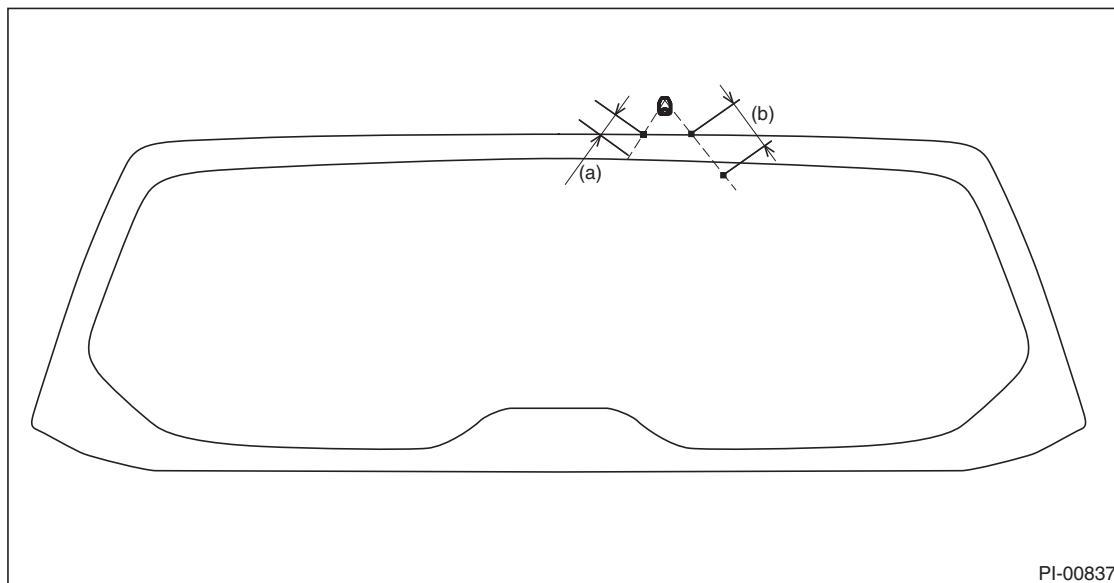
Pre-delivery Inspection

PRE-DELIVERY INSPECTION

- Models without EyeSight



## Rear spray position:



PI-00837

(a) 30 mm (1.18 in)

(b) 64 mm (2.52 in)

### 44. WIPER

Check the front and rear wipers for normal operations.

### 45. WIPER DEICER

Check that the wiper deicer operates normally.

#### NOTE:

When an ambient temperature is 5°C or more, wiper deicer operation is cancelled. Press the switch for 3 seconds or more to perform the compulsory operation.

### 46. POWER WINDOW

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

### 47. SUNROOF

Check that the sunroof operates normally.

### 48. REAR DEFOGGER

Press the rear defogger switch and check that the light inside the switch is activated for approx. 15 minutes and the rear defogger automatically turns to OFF.

### 49. DOOR MIRROR

- Check that the remote control mirror operates normally.
- Check that the heated mirror operates normally.

### 50. PARKING BRAKE

Check the parking brake for normal operations. When pulling the parking brake lever with a force of 200 N (20 kgf, 45 lb), check that the lever stroke of parking brake lever is 7 to 8 notches. If it is not within the specified value, adjust the parking brake. <Ref. to PB-23, ADJUSTMENT, Parking Brake Assembly (Rear Disc Brake).>

### 51. DIAGNOSTIC TROUBLE CODE (DTC) CHECK

Read the diagnostic trouble code and check that the diagnostic trouble code is not detected.

If any diagnostic trouble code is detected, clear all.

1) Read Diagnostic Trouble Code

#### NOTE:

For detailed operation procedures, refer to "PC application help for Subaru Select Monitor".

2) Clear Memory Mode

#### NOTE:

For detailed operation procedures, refer to "PC application help for Subaru Select Monitor".

### 52. BRAKE TEST

Check the foot brake for normal operations.

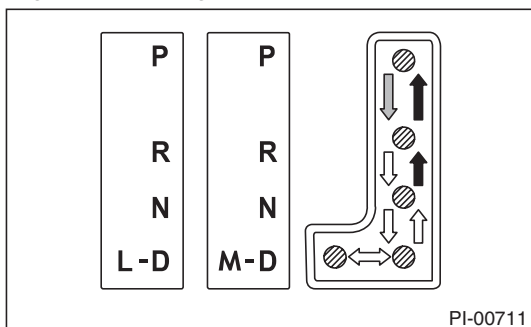
# Pre-delivery Inspection

## PRE-DELIVERY INSPECTION

### 53.SHIFT CONTROL

#### • CVT

- 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 selector lever to each gear position and check the shifting while driving the vehicle. Operate the paddle shift at manual mode and check the shifting while driving the vehicle.



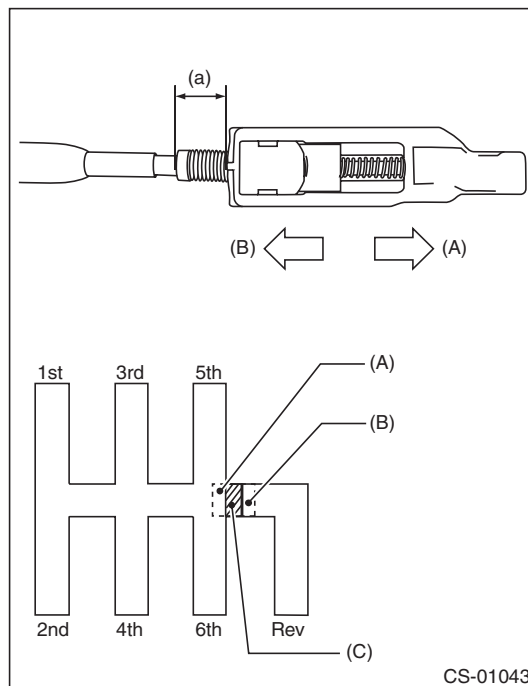
| Selector position | Gear position                      |     |     |     |     |     |                   |                   |
|-------------------|------------------------------------|-----|-----|-----|-----|-----|-------------------|-------------------|
|                   | 1st                                | 2nd | 3rd | 4th | 5th | 6th | 7th <sup>*1</sup> | 8th <sup>*1</sup> |
| D                 | Continuously variable speed change |     |     |     |     |     |                   |                   |
| Manual mode       | OK                                 | OK  | OK  | OK  | OK  | OK  | OK                | OK                |

\*1: Turbo model (at S# mode)

- 5) Set the select lever to other than "P" range. (except for models with keyless access function)
- 6) When the ignition switch is turned to OFF, check if the ignition key switch cannot be removed. (except for models with keyless access function)

#### • 6MT

- 1) Check for smooth operation to each position. Especially, shift to 5th ↔ 6th and to Rev, and check for stuck.
- 2) Check the slider returns to the original position by shifting to the Rev and then back in neutral while pulling up the slider.
- 3) If the shifting operation is not smooth, readjust the exposed length (a) of MT gear select cable by referring to the following figure.



- (a) Exposed length of MT gear select cable
- (A) Extend direction of exposed length of MT gear select cable
- (B) Shorten direction of exposed length of MT gear select cable
- (C) Specification of exposed length (a)

- If the shift cannot be inserted to push the reverse lock bracket 5th and 6th.  
→ Extend the exposed length (a) of MT gear select cable.
- When operate the select lever to 4th → 5th, it cannot be operated at select lever crank line.  
→ Shorten the exposed length (a) of MT gear select cable.

## 54. CRUISE CONTROL

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

## 55. SUBARU EyeSight

- Operate the EyeSight system. Check that the system is activated and deactivated correctly.
- Check the stereo camera cover opening for foreign matter.
- Check the glass in front of stereo camera for dirt and stickers.
- Check the lens and filter of the stereo camera for dirt such as fingerprints.
- Check the filter at lens portion of stereo camera for damage.
- According to the "ES(diag)" section, check the windshield glass and dashboard in front of stereo camera to make sure that no aftermarket part is adhered or attached in the prohibited area. <Ref. to ES(diag)-8, WINDSHIELD GLASS AND DASHBOARD, INSPECTION, General Description.>
- When delivering the vehicle, explain to the customer to make sure not to touch the lens and filter of the stereo camera.

## 56. POWER STEERING SYSTEM (ELECTRIC POWER STEERING MODEL)

Check that the electric power steering warning light illuminates when the ignition switch is turned to ON, and that the electric power steering warning light goes off after the engine is started.

## 57. FLUID LEAKAGE

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

## 58. 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 front hood, trunk lid and rear gate before starting the test.
- Connect a hose to a tap, and spray water on the vehicle. The rate of water spray must be approx. 20 to 25 L (5.3 — 6.6 US gal, 4.4 — 5.5 Imp gal) per minute.

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

### NOTE:

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

Check the following areas.

- Front window and body framework mating portion
- Door mating portions
- Glass mating portions
- Rear quarter window mating portions
- Rear window and body framework mating portion
- Around roof drips

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

## Pre-delivery Inspection

### PRE-DELIVERY INSPECTION

---

#### 59. APPEARANCE 2

1) If protective coating (wrap guard) is applied, remove it.

##### NOTE:

- When removing the wrap guard, using steam will make it easier to remove.
- Vehicle left for a extended periods or at low temperatures, spray the vehicle with water heated 50 — 60°C (122 — 140°F) to raise the surface temperature before peeling off the wrap guard. Do not use the water heated to over 60°C (140°F).
- If the adhesive remains exist on the coated surface, soak a flannel rag, etc. with a small amount of coating wax or solvent such as oil benzene and IPA, put the soaked cloth on the remains lightly, and then wipe them off with a flannel rag etc.
- Keep solvent from touching the resin or rubber parts. Do not use coating wax or solvents while the component surface temperature is hot 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 much 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 exterior parts for deformation or distortion. Also, check each light lens for cracks.

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

- Seat
- Door trim
- Floor carpet
- Side sill
- Fuel lid opener lock release lever
- Rear wiper
- Roof rail
- Door mirror
- Front fog light
- Tonneau cover (model with power rear gate (only OP))



# PERIODIC MAINTENANCE SERVICES

# PM

|                                              | Page |
|----------------------------------------------|------|
| 1. General Description .....                 | 2    |
| 2. Schedule .....                            | 3    |
| 3. Engine Oil .....                          | 5    |
| 4. Engine Oil Filter .....                   | 6    |
| 5. Spark Plug .....                          | 7    |
| 6. V-belt .....                              | 8    |
| 7. Hoses Related to Emission .....           | 9    |
| 8. PCV Valve .....                           | 10   |
| 9. Fuel Line .....                           | 11   |
| 10. Fuel Filter .....                        | 12   |
| 11. Air Cleaner Element .....                | 13   |
| 12. Cooling System .....                     | 14   |
| 13. Engine Coolant .....                     | 15   |
| 14. Clutch System .....                      | 16   |
| 15. Transmission Gear Oil .....              | 17   |
| 16. CVTF .....                               | 18   |
| 17. Front & Rear Differential Gear Oil ..... | 19   |
| 18. Brake Line .....                         | 20   |
| 19. Brake Fluid .....                        | 21   |
| 20. Disc Brake Pad and Disc .....            | 22   |
| 21. Parking Brake .....                      | 23   |
| 22. Suspension .....                         | 24   |
| 23. Wheel Bearing .....                      | 27   |
| 24. Axle Boots & Joints .....                | 28   |
| 25. Tire Inspection and Rotation .....       | 29   |
| 26. Steering System (Power Steering) .....   | 30   |
| 27. A/C Filter .....                         | 32   |

## General Description

### PERIODIC MAINTENANCE SERVICES

---

## 1. General Description

### A: GENERAL DESCRIPTION

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

## Schedule

### PERIODIC MAINTENANCE SERVICES

## 2. Schedule

### A: MAINTENANCE SCHEDULE 1

#### 1. U.S. MODELS

|    |                                    | Maintenance interval<br>[Number of months or km (miles), whichever occurs first]                                            |     |    |      |     |      |    |      |     |      |     |      |     |      |     |       |     |     |          |
|----|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----|----|------|-----|------|----|------|-----|------|-----|------|-----|------|-----|-------|-----|-----|----------|
|    | Months                             | 3                                                                                                                           | 7.5 | 15 | 22.5 | 30  | 37.5 | 45 | 52.5 | 60  | 67.5 | 75  | 82.5 | 90  | 97.5 | 105 | 112.5 | 120 | 132 | Remarks  |
|    | × 1,000 km                         | 4.8                                                                                                                         | 12  | 24 | 36   | 48  | 60   | 72 | 84   | 96  | 108  | 120 | 132  | 144 | 156  | 168 | 180   | 192 | 220 |          |
|    | × 1,000 miles                      | 3                                                                                                                           | 7.5 | 15 | 22.5 | 30  | 37.5 | 45 | 52.5 | 60  | 67.5 | 75  | 82.5 | 90  | 97.5 | 105 | 112.5 | 120 | 132 |          |
| 1  | Engine oil                         |                                                                                                                             | R   | R  | R    | R   | R    | R  | R    | R   | R    | R   | R    | R   | R    | R   | R     | R   | R   |          |
| 2  | Engine oil filter                  |                                                                                                                             | R   | R  | R    | R   | R    | R  | R    | R   | R    | R   | R    | R   | R    | R   | R     | R   | R   |          |
| 3  | Spark plug                         |                                                                                                                             |     |    |      |     |      |    |      | R   |      |     |      |     |      |     |       | R   |     |          |
| 4  | Drive belt(s)                      |                                                                                                                             |     |    |      | I   |      |    |      | I   |      |     |      | I   |      |     |       | I   |     |          |
| 5  | Emission-related hoses             |                                                                                                                             |     |    |      | I   |      |    |      | I   |      |     |      | I   |      |     |       | I   |     |          |
| 6  | PCV valve                          |                                                                                                                             |     |    |      | I   |      |    |      | I   |      |     |      | I   |      |     |       | I   |     |          |
| 7  | Fuel line                          |                                                                                                                             |     |    |      | (I) |      |    |      | (I) |      |     |      | (I) |      |     |       | I   |     | Note (1) |
| 8  | Fuel filter                        |                                                                                                                             |     |    |      |     |      |    |      |     |      | R   |      |     |      |     |       |     |     | Note (1) |
| 9  | Air cleaner element                |                                                                                                                             |     |    |      | R   |      |    |      | R   |      |     |      | R   |      |     |       | R   |     | Note (2) |
| 10 | Cooling system                     |                                                                                                                             |     |    |      | I   |      |    |      | I   |      |     |      | I   |      |     |       | I   |     |          |
| 11 | Engine coolant                     | Replace after the first 11 years or 220,000 km (137,500 miles), and every six years or 120,000 km (75,000 miles) thereafter |     |    |      |     |      |    |      |     |      |     |      |     |      |     |       |     |     |          |
| 12 | Clutch system                      |                                                                                                                             |     | I  |      | I   |      | I  |      | I   |      | I   |      | I   |      | I   |       | I   |     |          |
| 13 | Transmission gear oil              |                                                                                                                             |     |    |      | I   |      |    |      | I   |      |     |      | I   |      |     |       | I   |     |          |
| 14 | CVTF                               |                                                                                                                             |     |    |      | I   |      |    |      | I   |      |     |      | I   |      |     |       | I   |     |          |
| 15 | Front & rear differential gear oil |                                                                                                                             |     |    |      | I   |      |    |      | I   |      |     |      | I   |      |     |       | I   |     |          |
| 16 | Brake line                         |                                                                                                                             |     | I  |      | I   |      | I  |      | I   |      | I   |      | I   |      | I   |       | I   |     |          |
| 17 | Brake fluid                        |                                                                                                                             |     |    |      | R   |      |    |      | R   |      |     |      | R   |      |     |       | R   |     |          |
| 18 | Disc brake pad and disc            |                                                                                                                             |     | I  |      | I   |      | I  |      | I   |      | I   |      | I   |      | I   |       | I   |     |          |
| 19 | Parking brake                      |                                                                                                                             |     | I  |      | I   |      | I  |      | I   |      | I   |      | I   |      | I   |       | I   |     |          |
| 20 | Suspension                         |                                                                                                                             |     | I  |      | I   |      | I  |      | I   |      | I   |      | I   |      | I   |       | I   |     |          |
| 21 | Wheel bearing                      |                                                                                                                             |     |    |      |     |      |    |      | (I) |      |     |      |     |      |     |       | (I) |     |          |
| 22 | Axle boots and joints              |                                                                                                                             |     | I  |      | I   |      | I  |      | I   |      | I   |      | I   |      | I   |       | I   |     |          |
| 23 | Tire rotation                      |                                                                                                                             | P   | P  | P    | P   | P    | P  | P    | P   | P    | P   | P    | P   | P    | P   | P     | P   | P   | Note (3) |
| 24 | Steering system (Power steering)   |                                                                                                                             |     | I  |      | I   |      | I  |      | I   |      | I   |      | I   |      | I   |       | I   |     |          |
| 25 | A/C filter                         | Replace every 12 months or 12,000 km (7,500 miles)                                                                          |     |    |      |     |      |    |      |     |      |     |      |     |      |     |       |     |     | Note (4) |

Symbol

R: Replace

I: Inspection

P: Perform

(I): Inspections recommended for vehicle safety

#### NOTE:

1. This inspection is not necessary to observe exhaust gas regulations or is the responsibility of the manufacturer under the current basic EPA regulations that must be observed by law.
2. Replace the air cleaner element more frequently than the periodic replacement if the vehicle is being used in an excessively dusty environment.
3. Replace the tires if the tread-wear indicator has caused a bar-shaped cut across the tread. The indicator will appear when the remaining amount of tread is less than 1.6 mm (0.063 in).
4. Replace the A/C filter more frequently than the periodic replacement if the vehicle is being used in an excessively dusty environment.

## Schedule

### PERIODIC MAINTENANCE SERVICES

#### B: MAINTENANCE SCHEDULE 2

| Item                               | Maintenance interval | Repeat short distance driving | Repeat driving on bumpy muddy road | Driving in extremely cold weather | Area where salt or other corrosive substance used, or coastal area | High humidity or mountain area | Repeat towing trailer |
|------------------------------------|----------------------|-------------------------------|------------------------------------|-----------------------------------|--------------------------------------------------------------------|--------------------------------|-----------------------|
| Engine oil                         | Every 3.75 months    | R                             |                                    | R                                 |                                                                    |                                | R                     |
|                                    | 6,000 km             |                               |                                    |                                   |                                                                    |                                |                       |
|                                    | 3,750 miles          |                               |                                    |                                   |                                                                    |                                |                       |
| Engine oil filter                  | Every 3.75 months    | R                             |                                    | R                                 |                                                                    |                                | R                     |
|                                    | 6,000 km             |                               |                                    |                                   |                                                                    |                                |                       |
|                                    | 3,750 miles          |                               |                                    |                                   |                                                                    |                                |                       |
| Fuel line                          | Every 7.5 months     |                               |                                    |                                   | I                                                                  |                                |                       |
|                                    | Every 12,000 km      |                               |                                    |                                   |                                                                    |                                |                       |
|                                    | Every 7,500 miles    |                               |                                    |                                   |                                                                    |                                |                       |
| Transmission gear oil              | Every 15 months      |                               |                                    |                                   |                                                                    |                                | R                     |
|                                    | Every 24,000 km      |                               |                                    |                                   |                                                                    |                                |                       |
|                                    | Every 15,000 miles   |                               |                                    |                                   |                                                                    |                                |                       |
| CVTF                               | Every 40,000 km      |                               |                                    |                                   |                                                                    |                                | R                     |
|                                    | Every 24,855 miles   |                               |                                    |                                   |                                                                    |                                |                       |
| Front & rear differential gear oil | Every 15 months      |                               |                                    |                                   |                                                                    |                                | R                     |
|                                    | Every 24,000 km      |                               |                                    |                                   |                                                                    |                                |                       |
|                                    | Every 15,000 miles   |                               |                                    |                                   |                                                                    |                                |                       |
| Brake line                         | Every 7.5 months     | I                             | I                                  |                                   | I                                                                  |                                | I                     |
|                                    | Every 12,000 km      |                               |                                    |                                   |                                                                    |                                |                       |
|                                    | Every 7,500 miles    |                               |                                    |                                   |                                                                    |                                |                       |
| Brake fluid                        | Every 15 months      |                               |                                    |                                   |                                                                    | R                              |                       |
|                                    | Every 24,000 km      |                               |                                    |                                   |                                                                    |                                |                       |
|                                    | Every 15,000 miles   |                               |                                    |                                   |                                                                    |                                |                       |
| Disc brake pad and disc            | Every 15 months      | I                             | I                                  |                                   | I                                                                  |                                | I                     |
|                                    | Every 24,000 km      |                               |                                    |                                   |                                                                    |                                |                       |
|                                    | Every 15,000 miles   |                               |                                    |                                   |                                                                    |                                |                       |
| Parking brake                      | Every 15 months      | I                             | I                                  |                                   | I                                                                  |                                | I                     |
|                                    | Every 24,000 km      |                               |                                    |                                   |                                                                    |                                |                       |
|                                    | Every 15,000 miles   |                               |                                    |                                   |                                                                    |                                |                       |
| Suspension                         | Every 7.5 months     |                               | I                                  | I                                 | I                                                                  |                                | I                     |
|                                    | Every 12,000 km      |                               |                                    |                                   |                                                                    |                                |                       |
|                                    | Every 7,500 miles    |                               |                                    |                                   |                                                                    |                                |                       |
| Axle boots and joints              | Every 7.5 months     | I                             | I                                  | I                                 | I                                                                  |                                | I                     |
|                                    | Every 12,000 km      |                               |                                    |                                   |                                                                    |                                |                       |
|                                    | Every 7,500 miles    |                               |                                    |                                   |                                                                    |                                |                       |
| Steering system (Power steering)   | Every 7.5 months     | I                             | I                                  | I                                 | I                                                                  |                                | I                     |
|                                    | Every 12,000 km      |                               |                                    |                                   |                                                                    |                                |                       |
|                                    | Every 7,500 miles    |                               |                                    |                                   |                                                                    |                                |                       |

R: Replace  
I: Inspection



### 3. Engine Oil

#### A: INSPECTION

Refer to "LU" section for engine oil inspection.  
<Ref. to LU(H4DO)-13, INSPECTION, Engine Oil.>

#### B: REPLACEMENT

Refer to "LU" section for engine oil replacement.  
<Ref. to LU(H4DO)-14, REPLACEMENT, Engine Oil.>

## Engine Oil Filter

### PERIODIC MAINTENANCE SERVICES

---

#### 4. Engine Oil Filter

##### A: REPLACEMENT

Refer to "LU" section for engine oil filter replacement. <Ref. to LU(H4DO)-64, Engine Oil Filter.>

### 5. Spark Plug

#### A: REPLACEMENT

Refer to "IG" section for spark plug replacement.  
<Ref. to IG(H4DO)-4, Spark Plug.> <Ref. to  
IG(H4DOTC)-4, Spark Plug.>

## V-belt

### PERIODIC MAINTENANCE SERVICES

---

## 6. V-belt

### A: INSPECTION

Refer to "ME" section for V-belt inspection. <Ref. to ME(H4DO)-83, V-belt.> <Ref. to ME(H4DOTC)-75, V-belt.>

### B: REPLACEMENT

Refer to "ME" section for V-belt replacement. <Ref. to ME(H4DO)-83, V-belt.> <Ref. to ME(H4DOTC)-75, V-belt.>

## Hoses Related to Emission

PERIODIC MAINTENANCE SERVICES

---

### 7. Hoses Related to Emission

#### A: INSPECTION

Check that each hose has no cracks, damage or loose part.

## PCV Valve

### PERIODIC MAINTENANCE SERVICES

---

## 8. PCV Valve

### A: INSPECTION

Refer to "EC" section for PCV valve inspection.  
<Ref. to EC(H4DO)-56, INSPECTION, PCV Valve.> <Ref. to EC(H4DOTC)-76, INSPECTION, PCV Valve.>

### 9. 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. <Ref. to FU(H4DO)-170, INSPECTION, Fuel Delivery and Evaporation Lines.> <Ref. to FU(H4DOTC)-205, Fuel Delivery and Evaporation Lines.>

## Fuel Filter

### PERIODIC MAINTENANCE SERVICES

---

## 10. Fuel Filter

### A: REPLACEMENT

For fuel filter replacement procedure, refer to “FU” section. <Ref. to FU(H4DO)-151, Fuel Filter.>  
<Ref. to FU(H4DOTC)-194, Fuel Filter.>

### B: INSPECTION

Replace if the filter is clogged, or time for replacement has come.

### 11. Air Cleaner Element

#### A: REPLACEMENT

Refer to "IN" section for air cleaner element replacement. <Ref. to IN(H4DO)-4, Air Cleaner Element.> <Ref. to IN(H4DOTC)-7, Air Cleaner Element.>

# Cooling System

## PERIODIC MAINTENANCE SERVICES

---

### 12. Cooling System

#### A: INSPECTION

##### 1. RADIATOR

Check that there are no engine coolant leaks from the hose connections. Refer to "CO" section for radiator inspection. <Ref. to CO(H4DO)-62, INSPECTION, Radiator.> <Ref. to CO(H4DOTC)-50, INSPECTION, Radiator.>

##### 2. RADIATOR CAP

Refer to "CO" section for radiator cap inspection. <Ref. to CO(H4DO)-63, INSPECTION, Radiator Cap.> <Ref. to CO(H4DOTC)-51, INSPECTION, Radiator Cap.>

##### 3. COOLING FAN

Check the radiator fan operates using Subaru Select Monitor, when the coolant temperature exceeds the specified value. If it does not operate, check the radiator fan system. <Ref. to CO(H4DO)-9, INSPECTION, Radiator Fan System.> <Ref. to CO(H4DOTC)-8, INSPECTION, Radiator Fan System.>

##### 4. COOLING SYSTEM

Start the engine, and then inspect that it does not overheat or it is not cooled excessively. If it overheats or it is cooled excessively, check the cooling system.

## 13.Engine Coolant

### A: INSPECTION

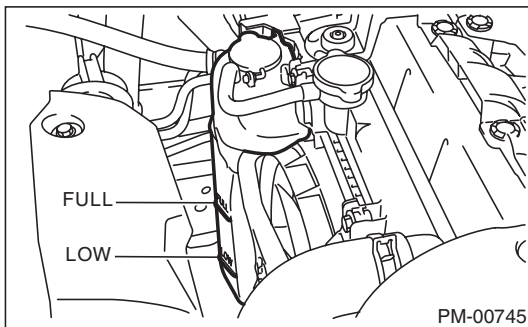
#### CAUTION:

- Do not use water instead of coolant.
- Refer to “RM” section for the recommended engine coolant. <Ref. to RM-4, ENGINE COOLANT, RECOMMENDED MATERIALS, Recommended Materials.>

- 1) Park the vehicle on a level surface.
- 2) Make sure the engine coolant level in the reservoir tank is between “FULL” and “LOW” when the engine is cold.

#### NOTE:

If the engine coolant level drops, make sure that there are no engine coolant leakage, and add engine coolant to the “FULL” line.



- 3) Remove the radiator cap and make sure that the radiator is filled with engine coolant up to the filler neck position.

### B: REPLACEMENT

Refer to “CO” section for engine coolant replacement. <Ref. to CO(H4DO)-14, REPLACEMENT, Engine Coolant.> <Ref. to CO(H4DOTC)-13, REPLACEMENT, Engine Coolant.>

## Clutch System

### PERIODIC MAINTENANCE SERVICES

---

## 14.Clutch System

### A: INSPECTION AND ADJUSTMENT

Refer to "CL" section for inspection and adjustment of clutch system. <Ref. to CL-26, INSPECTION, Clutch Pedal.> <Ref. to CL-27, ADJUSTMENT, Clutch Pedal.>

### 15. Transmission Gear Oil

#### A: INSPECTION

Refer to "6MT" section for transmission gear oil inspection. <Ref. to 6MT-24, INSPECTION, Transmission Gear Oil.>

#### B: REPLACEMENT

Refer to "6MT" section for transmission gear oil replacement. <Ref. to 6MT-24, REPLACEMENT, Transmission Gear Oil.>

## CVTF

### PERIODIC MAINTENANCE SERVICES

---

## 16.CVTF

### A: INSPECTION

Refer to "CVT" section for CVTF inspection. <Ref. to CVT(TR580)-35, INSPECTION, CVTF.> <Ref. to CVT(TR690)-36, INSPECTION, CVTF.>

### B: REPLACEMENT

Refer to "CVT" section for CVTF replacement. <Ref. to CVT(TR580)-36, REPLACEMENT, CVTF.> <Ref. to CVT(TR690)-38, REPLACEMENT, CVTF.>

### 17. Front & Rear Differential Gear Oil

#### A: INSPECTION

##### 1. FRONT DIFFERENTIAL (MT MODEL)

Front differential gear oil of MT model lubricates the transmission and differential together. Refer to "6MT" section for inspection procedures. <Ref. to 6MT-24, INSPECTION, Transmission Gear Oil.>

##### 2. FRONT DIFFERENTIAL (CVT MODEL)

Refer to "CVT" section for inspection of CVT model front differential gear oil. <Ref. to CVT(TR580)-39, INSPECTION, Differential Gear Oil.> <Ref. to CVT(TR690)-41, INSPECTION, Differential Gear Oil.>

##### 3. REAR DIFFERENTIAL

Refer to "DI" section for rear differential gear oil inspection. <Ref. to DI-19, INSPECTION, Differential Gear Oil.>

#### B: REPLACEMENT

##### 1. FRONT DIFFERENTIAL (MT MODEL)

Front differential gear oil of MT model lubricates the transmission and differential together. Refer to "6MT" section for replacement procedure. <Ref. to 6MT-24, REPLACEMENT, Transmission Gear Oil.>

##### 2. FRONT DIFFERENTIAL (CVT MODEL)

Refer to "CVT" section for front differential gear oil replacement. <Ref. to CVT(TR580)-41, REPLACEMENT, Differential Gear Oil.> <Ref. to CVT(TR690)-42, REPLACEMENT, Differential Gear Oil.>

##### 3. REAR DIFFERENTIAL

Refer to "DI" section for rear differential gear oil replacement. <Ref. to DI-19, REPLACEMENT, Differential Gear Oil.>



## Brake Line

### PERIODIC MAINTENANCE SERVICES

## 18.Brake Line

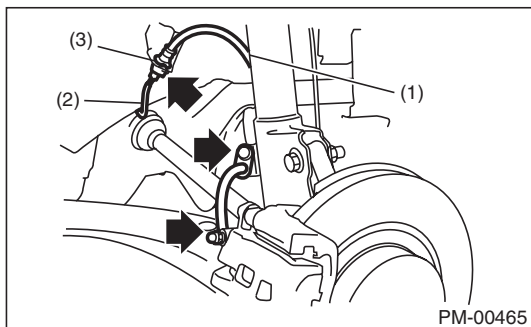
### A: INSPECTION

#### 1. BRAKE LINE

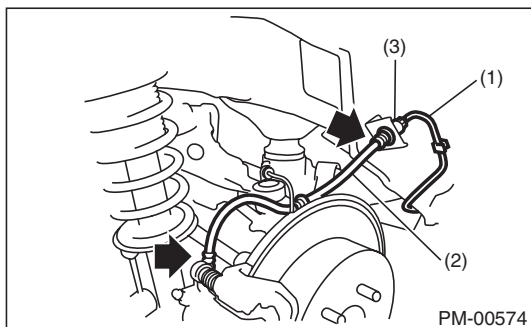
- 1) Check for scratches, swelling, corrosion, traces of fluid leakage on the brake hoses or pipe joints.
- 2) Make sure that brake pipes/hoses do not interfere with adjacent parts and there is no loose connector/clamp during driving.
- 3) Check any trace of fluid leakage, scratches, etc. on master cylinder, wheel cylinder and hydraulic unit.

#### NOTE:

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



- (1) Front brake hose
- (2) Front brake pipe
- (3) Clamp



- (1) Brake pipe
- (2) Rear brake hose
- (3) Clamp

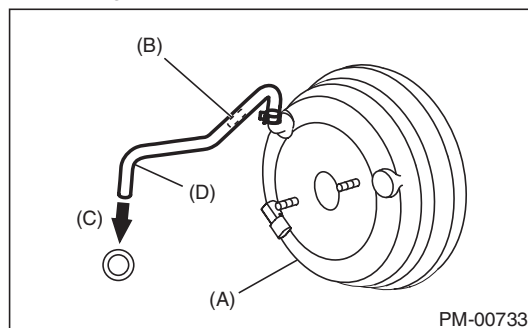
#### 2. SERVICE BRAKE

Refer to "BR" section for foot brake inspection.  
<Ref. to BR-72, INSPECTION, Brake Pedal.>

#### 3. BRAKE SERVO SYSTEM

- 1) With the engine off, depress the brake pedal several times applying the same pedal force. Check that the travel distance should not change.
- 2) With the brake pedal depressed, start the engine. Check that the pedal moves slightly toward the floor.
- 3) With the brake pedal depressed, stop the engine and keep the pedal depressed for 30 seconds. Check that the pedal height does not change.
- 4) A check valve is built into the brake booster nipple. Disconnect the vacuum hose to inspect function of check valve.

Check that check valve ventilates from booster side to engine side. Also, check that there is no ventilation from engine side to booster side.



- (A) Brake booster
- (B) Check valve
- (C) Engine side
- (D) Brake booster side

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

#### CAUTION:

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

- 6) Check that the vacuum hose is securely tightened.

### 19.Brake Fluid

#### A: INSPECTION

Refer to "BR" section for brake fluid inspection.  
<Ref. to BR-60, INSPECTION, Brake Fluid.>

#### B: REPLACEMENT

Refer to "BR" section for brake fluid replacement.  
<Ref. to BR-60, REPLACEMENT, Brake Fluid.>

## Disc Brake Pad and Disc

### PERIODIC MAINTENANCE SERVICES

---

## 20.Disc Brake Pad and Disc

### A: INSPECTION

Refer to “BR” section for disc brake pad and disc inspection. <Ref. to BR-18, INSPECTION, Front Brake Pad.> <Ref. to BR-32, INSPECTION, Rear Brake Pad.> <Ref. to BR-20, INSPECTION, Front Disc Rotor.> <Ref. to BR-35, INSPECTION, Rear Disc Rotor.>

### 21. Parking Brake

#### A: INSPECTION

Refer to "PB" section for parking brake inspection.  
<Ref. to PB-22, INSPECTION, Parking Brake Assembly (Rear Disc Brake).>

#### B: ADJUSTMENT

Refer to "PB" section for parking brake adjustment.  
<Ref. to PB-23, ADJUSTMENT, Parking Brake Assembly (Rear Disc Brake).>

# Suspension

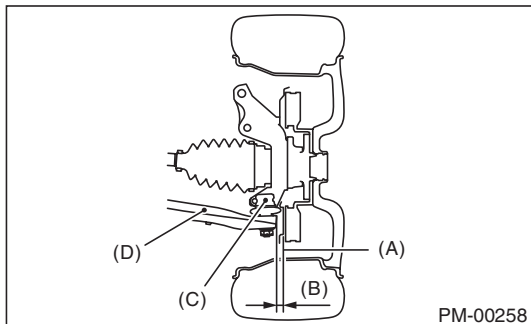
## PERIODIC MAINTENANCE SERVICES

### 22. Suspension

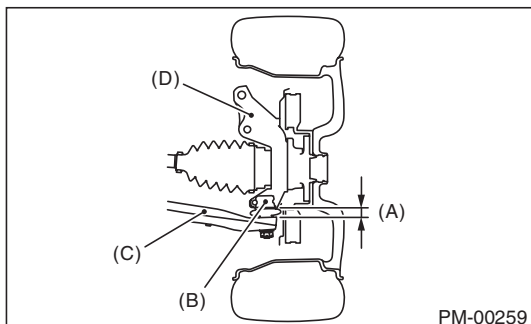
#### A: INSPECTION

##### 1. FRONT SUSPENSION BALL JOINT

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



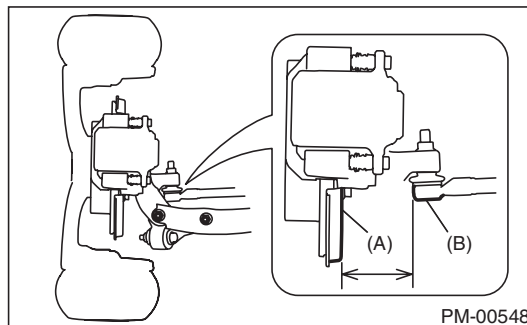
- 3) Next, grasp the end of front arm (C) and move it up and down. If movement (A) between the housing (D) and front arm (C) boss is observed, ball joint (B) may be excessively worn.



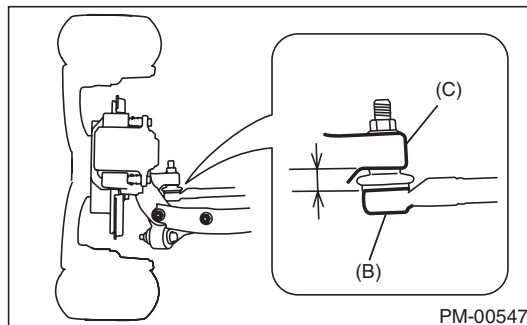
- 4) If the relative movement is observed in the preceding two steps, remove and inspect the ball joint. If the free play exceeds standard value, replace the ball joint. <Ref. to FS-31, Front Ball Joint.>
- 5) Damage of dust boots  
Visually inspect the ball joint dust boots. Replace if ball joint is damaged.

##### 2. REAR SUSPENSION BALL JOINT

- 1) Lift up the vehicle until rear wheels are off ground.
- 2) Grasp the bottom of tire and move it in and out in axial direction.
- 3) If movement is observed between the brake disc cover (A) and end of front lateral link (B), ball joint may be excessively worn.



- 4) Grasp the end of front lateral link (B) and move it up and down. If movement is observed between the housing (C) and front lateral link (B) boss, ball joint may be excessively worn.

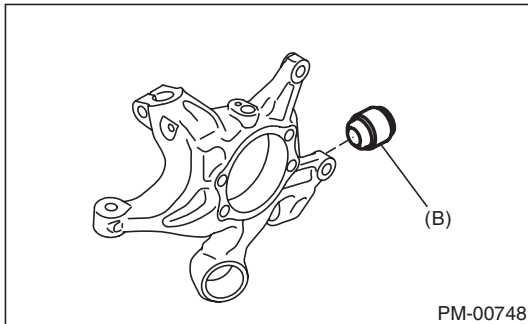
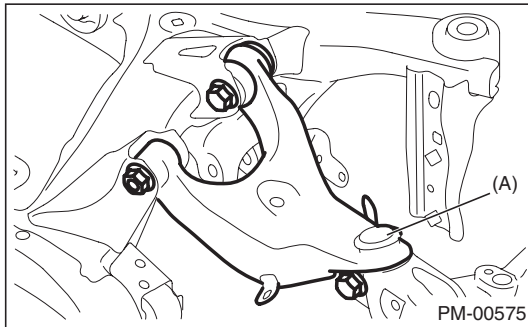


- 5) If the movement related to the previous two steps is observed, replace the front lateral link. <Ref. to RS-22, Front Lateral Link.>
- 6) Damage of dust boots  
Visually inspect the ball joint dust boots. Replace if front lateral link is damaged.

# Suspension

## PERIODIC MAINTENANCE SERVICES

7) Check the upper arm ball joint and the pillow ball bushing of housing in the same manner.



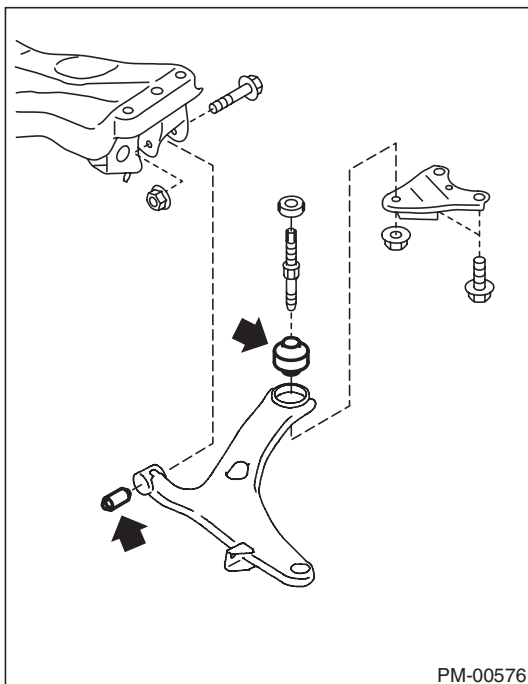
(A) Upper arm ball joint

(B) Pillow ball bushing

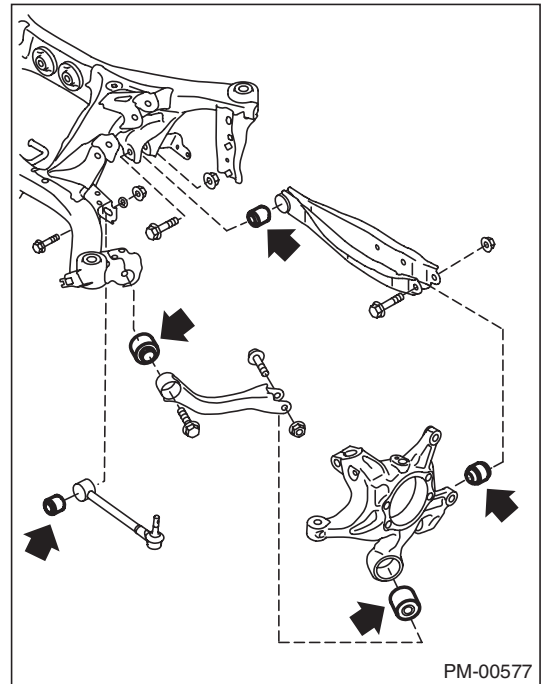
### 3. FRONT, REAR SUSPENSION BUSHING

Apply pressure with tire lever etc, and inspect the bushing for excessive wear or damage. If defective, replace the bushing.

- Front suspension bushing



- Rear suspension bushing



### 4. WHEEL ARCH HEIGHT

Refer to "FS" section for wheel arch height inspection. <Ref. to FS-8, WHEEL ARCH HEIGHT, INSPECTION, Wheel Alignment.>

### 5. WHEEL ALIGNMENT

Measure and adjust the front and rear wheel alignment at a time. Refer to "FS" section for measurement and adjustment of wheel alignment. <Ref. to FS-7, INSPECTION, Wheel Alignment.>

### 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 parts. <Ref. to FS-2, General Description.> <Ref. to RS-2, General Description.>

# Suspension

## PERIODIC MAINTENANCE SERVICES

---

### 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. Thoroughly remove the deposits of the lower spring seat of strut where dust or mud are likely piled up. If necessary, replace the damaged parts with new parts. If minor rust formation, pitting, etc. are noted, remove the rust and take rust prevention measure.

- Front suspension
  - Front arm
  - Cradle
  - Strut
- Rear suspension
  - Sub frame
  - Front lateral link
  - Rear lateral link
  - Upper arm
  - Trailing link
  - 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 measures as required.

## 23. Wheel Bearing

### A: INSPECTION

#### 1. FRONT WHEEL BEARING

**NOTE:**

Inspect the condition of front wheel bearing grease.

- 1) Jack-up the front 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.

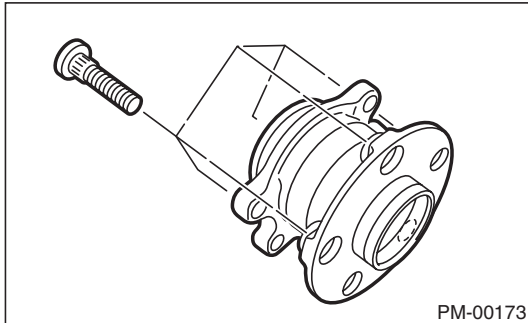
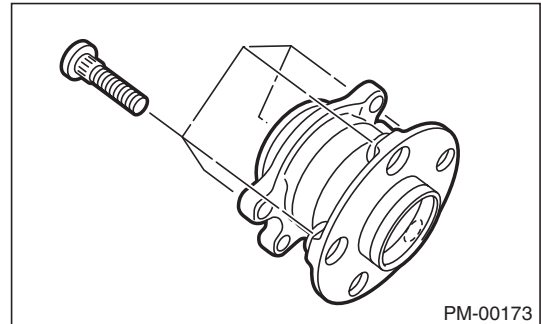
**Service limit:**

***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 transmission-side joint of the front drive shaft from the transmission. <Ref. to DS-18, 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.

- 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.



#### 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-66, Rear Drive Shaft.>

## Axle Boots & Joints

### PERIODIC MAINTENANCE SERVICES

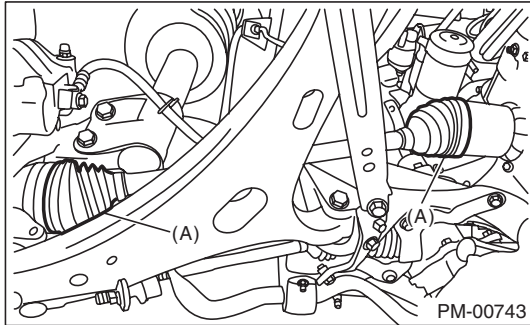
## 24. Axle Boots & Joints

### A: INSPECTION

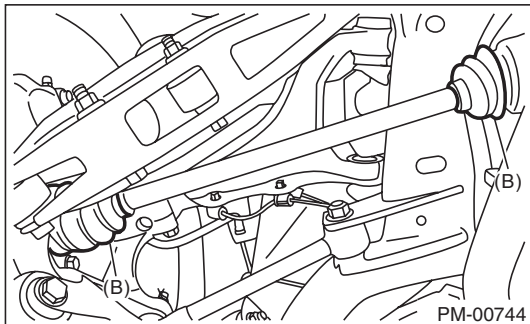
#### 1. FRONT AND REAR AXLE BOOTS

Inspect the front axle boots (A) and rear axle boots (B) for deformation, damage or failure. If faulty, replace with new part. <Ref. to DS-55, Front Drive Shaft.> <Ref. to DS-66, Rear Drive Shaft.>

- Front



- Rear



#### 2. PROPELLER SHAFT

Inspect the propeller shaft for damage or failure. If faulty, replace with new part. <Ref. to DS-11, Propeller Shaft.>

## Tire Inspection and Rotation

PERIODIC MAINTENANCE SERVICES

---

### 25. Tire Inspection and Rotation

#### A: INSPECTION

Refer to "WT" section for tire inspection and rotation. <Ref. to WT-6, TIRE ROTATION, INSPECTION, Tire and Wheel.>

## Steering System (Power Steering)

### PERIODIC MAINTENANCE SERVICES

## 26. Steering System (Power Steering)

### A: INSPECTION

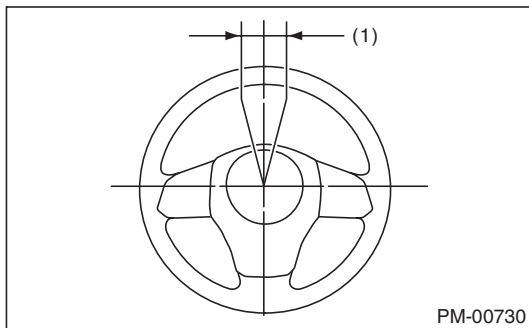
#### 1. STEERING WHEEL

- 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 (periphery).

#### **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 check if there is play in the direction.

#### **Play limit:**

**0.5 mm (0.020 in)**

- 3) Drive the vehicle and check the following items.
  - (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 one side while driving on a level surface.
  - (3) Wheel runout:  
Steering wheel should not show any sign of runout.
  - (4) Return status:  
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. <Ref. to PS-13, Universal Joint.>

#### **Tightening torque:**

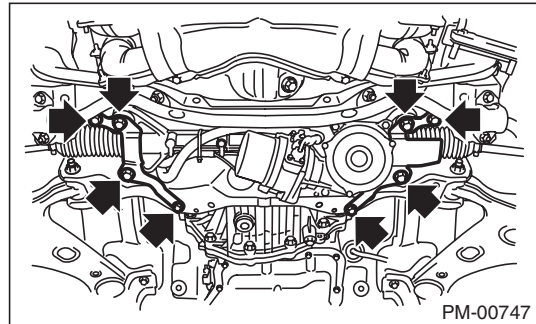
**24 N·m (2.4 kgf-m, 17.4 ft-lb)**

#### 3. GEARBOX

1) Set the steering wheel in the straight position, then rotate it 90° in both the left and right directions. While steering wheel is being rotated, check the looseness of the gearbox.

#### **Tightening torque:**

**60 N·m (6.1 kgf-m, 44.3 ft-lb)**



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

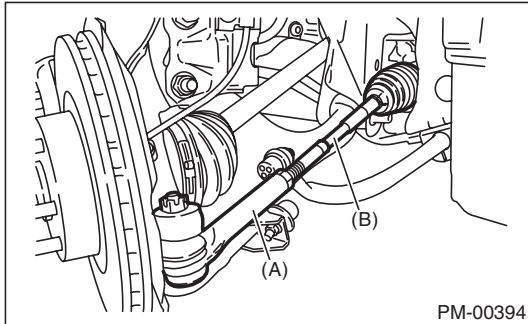
3) With the vehicle stopped on a level surface, quickly turn the steering wheel to the left and right. While steering wheel is being rotated, check the gear backlash. If any noise is noticed, adjust the gear backlash. <Ref. to PS-39, GEARBOX BACKLASH ADJUSTMENT, ADJUSTMENT, Electric Power Steering Gearbox.>

## Steering System (Power Steering)

PERIODIC MAINTENANCE SERVICES

### 4. TIE-ROD

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



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

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

#### **Tightening torque:**

**27 N·m (2.75 kgf-m, 19.9 ft-lb)**

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

#### **Tightening torque:**

**85 N·m (8.7 kgf-m, 62.7 ft-lb)**

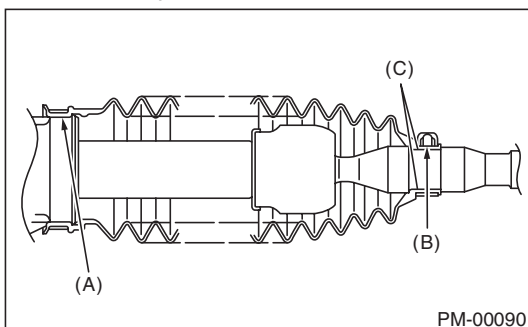
### 5. GEARBOX BOOTS

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

- 1) The (A) and (B) positions of the gearbox boot are fitted in (A) and (C) grooves of gearbox and the rod.
- 2) Clips are fitted outside of positions (A) and (B) of boot.
- 3) Check that there is no cracks or holes in the boot.

#### **NOTE:**

Rotate (B) position of gearbox boot against the torsion produced by the adjustment of toe-in etc.



## A/C Filter

### PERIODIC MAINTENANCE SERVICES

---

## 27.A/C Filter

### A: REPLACEMENT

Refer to “AC” section for A/C filter replacement.  
<Ref. to AC-97, REPLACEMENT, A/C Filter.>