

## 1. Recommended Materials

### A: RECOMMENDED MATERIALS

#### 1. GENERAL

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

#### 2. FUEL

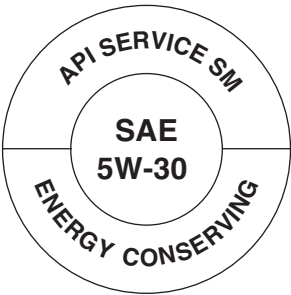

Always use gasoline of the same or higher octane value than specified in the owner's manual. Ignoring the specifications below will result in damage or poor performance of engine and fuel injection system. Use the specified gasoline to correct performance.

##### **Unleaded gasoline**

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

## 3. LUBRICANTS

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

| Lubricants   | Recommended materials  |   |
|--|--|---|
|  | API standard   | ILSAC Standard  |
| Engine oil<br>Choose oil suitable for the standard from the right. | SM "Energy-saving type"<br><br><br>RM-00049 | GF-4<br><br><br>RM-00002 |
| AT front differential gear oil                                     | GL-5   | —   |
| Rear differential gear oil   | GL-5   | —   |

# Recommended Materials

## RECOMMENDED MATERIALS

| SAE viscosity No. and applicable temperature                  |     |     |     |    |    |    |    |     |
|---|-----|-----|-----|----|----|----|----|-----|
| Engine oil  |     |     |     |    |    |    |    |     |
| (°C)  | -30 | -20 | -10 | 0  | 10 | 20 | 30 | 40  |
| (°F)  | -22 | -4  | 14  | 32 | 50 | 68 | 86 | 104 |
| <div>10W-30 or 10W-40</div>                                   |     |     |     |    |    |    |    |     |
| <div>5W-30 Recommend</div>                                    |     |     |     |    |    |    |    |     |
| RM-00060  |     |     |     |    |    |    |    |     |
| Rear differential gear oil and AT front differential gear oil |     |     |     |    |    |    |    |     |
| (°C)  | -30 | -20 | -10 | 0  | 10 | 20 | 30 | 40  |
| (°F)  | -22 | -4  | 14  | 32 | 50 | 68 | 86 | 104 |
| <div>90</div>   |     |     |     |    |    |    |    |     |
| <div>85W</div>  |     |     |     |    |    |    |    |     |
| <div>80W</div>  |     |     |     |    |    |    |    |     |
| <div>75W-90</div>   |     |     |     |    |    |    |    |     |
| RM-00058  |     |     |     |    |    |    |    |     |

## 4. FLUID

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

### CAUTION:

**Always use the recommended or equivalent ATF. Using material except recommended one or substitute would cause trouble.**

| Fluid                        | Recommended materials      | Alternative                             | Remarks |
|------------------------------|----------------------------|---|---------|
| Automatic transmission fluid | SUBARU ATF HP              | IDEMITSU: ATF HP<br>Castrol: Transmax J | —       |
| Power steering fluid         | DEXRON III or SUBARU ATF   | —                                       | —       |
| Brake fluid                  | FMVSS No. 116 DOT3 or DOT4 | —                                       | —       |

## 5. COOLANT

Use genuine coolant to protect the engine.

| Coolant                         | Recommended materials      | Item number | Alternative                      |
|---------------------------------|----------------------------|-------------|----------------------------------|
| Coolant                         | SUBARU coolant             | 000016218   | Phosphoric acid (non-amine) type |
| Water for dilution              | Distilled water            | —           | Soft water or tap water          |
| Cooling system protective agent | Cooling system conditioner | SOA345001   | None                             |

## 6. REFRIGERANT

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

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

## Recommended Materials

### RECOMMENDED MATERIALS

#### 7. GREASE

Use grease and supplementary lubricants shown in the table below.

| Grease                   | Application point   | Recommended materials      | Item number | Alternative |
|--------------------------|---|----------------------------|-------------|-------------|
| Supplementary lubricants | <ul style="list-style-type: none"> <li>• Oxygen sensor</li> <li>• Bolts etc.</li> </ul>     | Spray type lubricant       | —           | —           |
| Grease                   | Select lever  | NIGHTIGHT LYW No. 2 grease | —           | KOPR-KOTE   |
|                          | Brake pedal   | ESA MIC45-A EQUIV          | —           | —           |
|                          | <ul style="list-style-type: none"> <li>• Door latch</li> <li>• Door striker</li> </ul>      | SILICONE GREASE G-30M      | 004404002   | —           |
|                          | Steering gearbox  | VALIANT GREASE M2          | 003608001   | —           |
|                          | Disc brake (lock pin, guide pin, piston boot)   | NIGLUBE RX-2               | 000041000   | —           |
|                          | Between brake pad and shim  | Molykote AS-880N           | K0777YA010  | —           |
|                          | Brake pad clip  | Molykote M7439             | K0770YA000  | —           |
|                          | Front axle PTJ  | NKG302                     | 28395AG02A  | —           |
|                          | <ul style="list-style-type: none"> <li>• Front axle EBJ</li> <li>• Rear axle EBJ</li> </ul> | NTG2218-M                  | 28395AG01A  | —           |
|                          | Rear axle DOJ   | NKG205                     | 28495AG00A  | —           |

#### 8. ADHESIVE

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

| Adhesive | Application point  | Recommended materials   | Item number | Alternative                                 |
|----------|--|---|-------------|---|
| Adhesive | Windshield, front quarter glass, rear window glass, rear quarter glass, rear gate and body | Dow Automotive's adhesive:<br>ESSEX U-400HV or the equivalent<br>Glass primer: U-401 and U-402<br>Painted surface primer: U-413 | —           | —   |
|          | Rearview mirror base   | REPAIR KIT IN MR  | 65029FC000  | —   |
|          | Soft vinyl   | CEMEDINE 540  | —           | 3M's EC-776, EC-847 or EC-1022 (Spray type) |
|          | Momentary sealant  | CEMEDINE 3000   | —           | ARMSTRONG's Eastman 910                     |

## 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 | Converter case   | THREE BOND 1215       | 004403007   | DOW CORNING No. 7038 |
|               | Transmission oil pan   | THREE BOND 1217B      | K0877YA020  | —                    |
|               | <ul style="list-style-type: none"> <li>• Engine oil pressure switch</li> <li>• Cylinder head (Nipple)</li> <li>• Camshaft bowl-shape plug</li> <li>• Rear differential lock nut</li> </ul>   | THREE BOND 1324       | 004403042   | —                    |
|               | PCV Valve  | THREE BOND 1105       | 004403010   | DOW CORNING No. 7038 |
|               | Steering adjusting screw   | THREE BOND 1141       | 004403006   | —                    |
|               | <ul style="list-style-type: none"> <li>• Cylinder block</li> <li>• Cam cap</li> <li>• Engine oil pan</li> <li>• Cylinder head gasket (Block, head)</li> <li>• Rocker cover</li> <li>• Oil pan upper</li> <li>• Block (Oil pan upper)</li> <li>• Chain cover (Block, head, cam cap, oil pan upper)</li> </ul> | THREE BOND 1217G      | K0877Y0100  | —                    |
|               | <ul style="list-style-type: none"> <li>• Front sealing cover</li> <li>• Rear sealing cover</li> </ul>  | 3M Butyl Rubber 8626  | —           | —                    |
|               |  |                       |             |                      |

**Recommended Materials**

RECOMMENDED MATERIALS

---

# PRE-DELIVERY INSPECTION

*PI*

---

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

