

# Recommended Materials

## RECOMMENDED MATERIALS

### 1. Recommended Materials

#### A: RECOMMENDED MATERIALS

##### 1. GENERAL

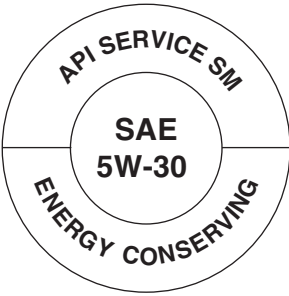

To insure the best performance, always use the specified oil, gasoline, adhesive, sealant, etc. or a substitute of equivalent quality.

##### 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.

| Lubricants   | Recommended materials   |   |
|--|---|---|
|  | API spec.   | ILSAC spec.   |
| Engine oil<br>Choose oil suitable for the standard from the right. | SM grade "Energy conservation"<br><br>RM-00049 | GF-4<br><br>RM-00002 |
| Manual transmission oil  | GL-5  | —   |
| Front differential oil   | GL-5  | —   |
| Rear differential oil  | GL-5  | —   |

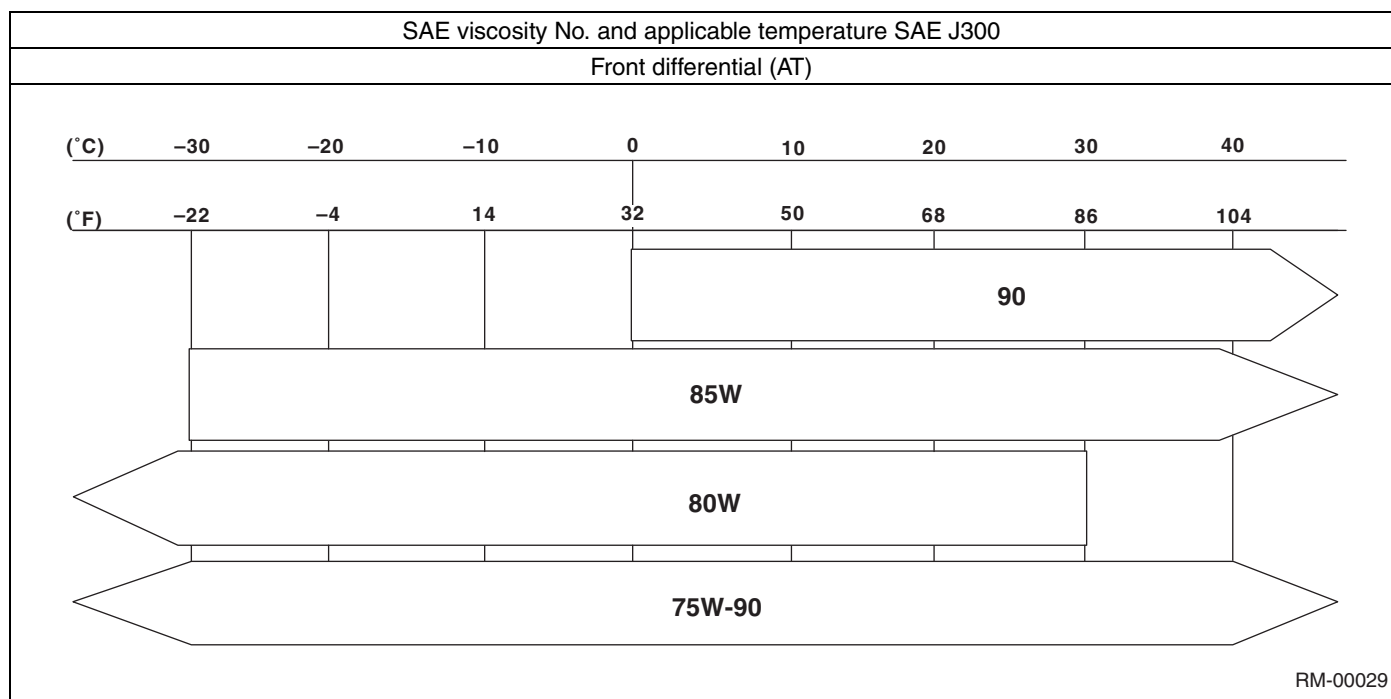
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| SAE viscosity No. and applicable temperature SAE J300 |     |     |     |    |    |    |    |     |
|---|-----|-----|-----|----|----|----|----|-----|
| Engine oil  |     |     |     |    |    |    |    |     |
| (°C)  | -30 | -20 | -10 | 0  | 10 | 20 | 30 | 40  |
| (°F)  | -22 | -4  | 14  | 32 | 50 | 68 | 86 | 104 |
| 10W-30 or 10W-40                                      |     |     |     |    |    |    |    |     |
| 5W-30 Recommend                                       |     |     |     |    |    |    |    |     |
| RM-00059  |     |     |     |    |    |    |    |     |
| Manual transmission oil and rear differential oil     |     |     |     |    |    |    |    |     |
| (°C)  | -30 | -20 | -10 | 0  | 10 | 20 | 30 | 40  |
| (°F)  | -22 | -4  | 14  | 32 | 50 | 68 | 86 | 104 |
| 90  |     |     |     |    |    |    |    |     |
| 85W   |     |     |     |    |    |    |    |     |
| 80W   |     |     |     |    |    |    |    |     |
| 75W-90  |     |     |     |    |    |    |    |     |
| RM-00004  |     |     |     |    |    |    |    |     |

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### 4. FLUID

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

| Fluid                        | Recommended materials | Item number | Alternative                             |
|------------------------------|-----------------------|-------------|---|
| Automatic transmission fluid | SUBARU ATF HP         | —           | Idemitsu: ATF HP<br>Castrol: Transmax J |
| Power steering fluid         | SUBARU ATF HP         | —           | DEXRON III                              |
| Brake fluid                  | FMVSS No. 116 DOT3    | —           | FMVSS No. 116 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 coolant             | 000016218   | Phosphoric acid (non-amine) type |
| Water for dilution              | Distilled water            | —           | Soft water or tap water          |
| Cooling system protecting 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 air compressor oil other than ZXL200PG.

| Air conditioner | Recommended materials | Item number | Alternative |
|-----------------|-----------------------|-------------|-------------|
| Refrigerant     | HFC134a               | —           | None        |
| Compressor oil  | ZXL200PG              | —           | None        |

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### 7. GREASE

Use the 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                   | MT main shaft   | 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>• Select lever</li> <li>• Clutch activating cylinder</li> <li>• Accelerator pedal</li> <li>• Clutch pedal</li> <li>• Brake pedal</li> <li>• Hill holder</li> <li>• Clutch bearing</li> <li>• Clutch release lever</li> </ul> | NIGTITE LYW No. 2 grease | —           | KOPR-KOTE                    |
|                          | Steering shaft bearing  | KOPR-KOTE                | 003603001   | —                            |
|                          | Selector lever lock plate unit  | Suncall GLO-244          | 0029408040  | —                            |
|                          | Steering gearbox  | Variant grease M-2       | —           | One luber MO or One luber SG |
|                          | <ul style="list-style-type: none"> <li>• Disc brake</li> <li>• Drum brake wheel cylinder</li> </ul>   | Niglube RX-2             | 000041000   | —                            |
|                          | <ul style="list-style-type: none"> <li>• Drum brake</li> <li>• Brake shoe</li> </ul>  | Molykote No. 7439        | K0770YA000  | —                            |
|                          | Brake pad   | Molykote AS-880N         | K0777YA010  | —                            |
|                          | Front axle AARi   | One luber C              | 28395SA020  | —                            |
|                          | Front axle AC   | Olistamoly               | 28395SA030  | —                            |
|                          | Rear axle EBJ   | NKG106                   | 28395TC000  | —                            |
|                          | Rear axle DOJ   | NKG205                   | 28495AG000  | —                            |
|                          | <ul style="list-style-type: none"> <li>• Water pump</li> <li>• Door latch</li> <li>• Door striker</li> </ul>  | Silicone grease G-30M    | 004404002   | —                            |

### 8. ADHESIVES

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

| Adhesive | Application point   | Recommended materials   | Item number | Alternative                                 |
|----------|---|---|-------------|---|
| Adhesive | Windshield, rear window glass, rear quarter glass, rear gate and body | Dow Automotive's Adhesive: ESSEX U-400 HV or equivalent<br>Glass primer: U-401 and No. U-402<br>Paint 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                     |

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#### 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>• Torque converter clutch case</li> </ul>   | THREE BOND 1215       | —           | Dow corning's No. 7038 |
|               | <ul style="list-style-type: none"> <li>• Cylinder block</li> <li>• DOHC cam cap (Turbo model)</li> <li>• Oil pump</li> <li>• Engine oil pan</li> <li>• SOHC cam cap</li> <li>• DOHC rocker cover</li> <li>• Separator cover</li> <li>• DOHC semicircular plug</li> </ul> | THREE BOND 1217G      | K0877Y0100  | —                      |
|               | ATF oil pan  | THREE BOND 1217B      | K0877YA020  | —                      |
|               | <ul style="list-style-type: none"> <li>• Rear differential</li> <li>• Engine oil pressure switch</li> <li>• Cylinder head (Nipple)</li> </ul>  | THREE BOND 1324       | 004403042   | —                      |
|               | <ul style="list-style-type: none"> <li>• Rear differential</li> <li>• Service hole plug</li> </ul>   | THREE BOND 1105       | 004403010   | Dow corning's No. 7038 |
|               | Weather strip  | Star caulking B-33A   | 000018901   | Butyl rubber sealant   |
|               | <ul style="list-style-type: none"> <li>• Steering adjusting screw</li> <li>• PCV Valve</li> </ul>  | THREE BOND 1141       | 004403006   | —                      |
|               | <ul style="list-style-type: none"> <li>• Front sealing cover</li> <li>• Rear sealing cover</li> </ul>  | 3M Butyl Rubber 8626  | —           | —                      |