

# Recommended Materials

## RECOMMENDED MATERIALS

### 1. Recommended Materials

#### A: RECOMMENDED MATERIALS

##### 1. GENERAL

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

##### 2. FUEL

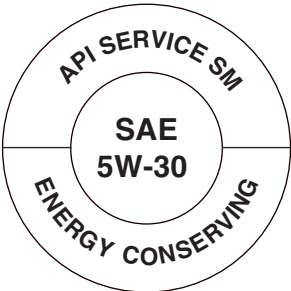

Always use gasoline of the same or higher octane value than specified in the owner's manual. Ignoring the specifications below will result in damage or poor performance of engine and fuel injection system. Use the specified gasoline to correct performance.

##### Unleaded gasoline

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

##### 3. LUBRICANTS

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

Lubricants	Recommended materials	
	API standard	ILSAC Standard
Engine oil	SM "Energy-saving type"  RM-00049	GF-4  RM-00002
AT front differential gear oil	GL-5	—
Rear differential gear oil	GL-5	—

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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-00045								

### 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 Castrol: Transmax J Pennzoil-Quaker State: Pennzoil ATF-J	—
Power steering fluid	DEXRON III	—	—
Brake fluid	FMVSS No. 116 DOT3 or DOT4	—	—

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#### 5. COOLANT

Use genuine coolant to protect the engine.

Coolant	Recommended materials	Item number	Alternative
Coolant	SUBARU coolant	000016218	Phosphoric acid (no amin) 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

#### 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	Multemp AC-D	—	—
		Multemp SH-W	—	—
		PERMLUB BAN-5	—	—
	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	K0779GA102	—
	Between brake pad and shim	Molykote AS-880N	K0777YA010	—
	Brake pad clip	Molykote M7439	003602001	—
	Front axle PTJ	NKG302	2895AG02A	—
	<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, rear window glass, rear quarter glass, rear gate and body	Dow Automotive's adhesive: ESSEX U-400HV or the equivalent Glass primer: U-401 and U-402 Painted surface primer: U-413	—	—
	Rearview mirror base	REPAIR KIT IN MR	65029FC000	—
	Soft vinyl	CEMEDINE 540	—	3M's EC-776, EC-847 or EC-1022 (Spray type)
	Momentary sealant	CEMEDINE 3000	—	ARMSTRONG's Eastman 910

## 9. SEAL MATERIAL

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

Seal material	Application point	Recommended materials	Item number	Alternative
Seal material	<ul style="list-style-type: none"> <li>Cylinder block</li> <li>Converter case</li> </ul>	THREE BOND 1215	004403007	DOW CORNING's 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's No. 7038
	Steering adjusting screw	THREE BOND 1141	004403006	—
	<ul style="list-style-type: none"> <li>Cam cap</li> <li>Engine oil pan</li> <li>Cylinder head plug</li> <li>Rocker cover</li> <li>Oil pan (Pan upper)</li> <li>Block (Pan upper)</li> <li>Back cover (Front cover, block head, pan upper)</li> </ul>	THREE BOND 1280B	K0877YA018	THREE BOND 1217G
	<ul style="list-style-type: none"> <li>Front sealing cover</li> <li>Rear sealing cover</li> </ul>	3M Butyl Rubber 8626	—	—

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