

# **RECOMMENDED MATERIALS**

# 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

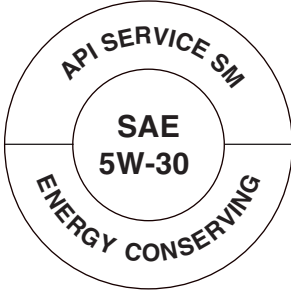

Always use a gasoline of the same or higher octane value than specified in the owner's manual. Ignoring the specifications below will result in damage or poor operation of the engine and fuel injection system. Use the specified gasoline to correct performance.

##### • Unleaded gasoline

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

##### 3. LUBRICANTS

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

Lubricant	Recommended		
	API standard	ILSAC standard	
Engine oil	SM Grade "Energy conserving"  RM-00049	GF-4  RM-00002	
Manual transmission oil	GL-5	—	
AT front differential gear oil	GL-5	—	
Rear differential gear oil	Except STI model	GL-5	—
	STI model	GL-5 (For mechanical LSD)	

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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	
		10W-30 or 10W-40							
5W-30 Recommend									

RM-00003

Manual transmission oil, front differential gear oil and rear differential gear 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-00047

\*:Recommended Rear Differential Oil (STI model)

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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	Alternative	Remarks
Automatic transmission fluid	SUBARU ATF Type-HP	Idemitsu: ATF HP Castrol: Transmax J Pennzoil Quakerstate: Penzoil ATF-J	—
Power steering fluid	DEXRON III	—	—
Brake fluid	FMVSS No. 116 DOT3	FMVSS No. 116 DOT4	—
Clutch fluid	FMVSS No. 116 DOT3	FMVSS No. 116 DOT4	—

### 5. COOLANT

Use the coolant specified in the table below to protect the engine.

Coolant	Recommended	Item number	Alternative
Coolant	SUBARU coolant	000016218	None
Water for dilution	Distilled water	—	Tap water (Soft water)
Cooling system protective agent	Cooling system conditioner	SOA635071	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 except for DH-PR.

Air conditioner	Recommended	Item number	Alternative
Refrigerant	HFC134a	—	None
Compressor oil	DH-PR	—	None

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## 7. GREASE

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

Grease	Application point	Recommended	Item number	Alternative
Supplementary lubricants	<ul style="list-style-type: none"> <li>• O<sub>2</sub> sensor</li> <li>• Bolts, etc.</li> </ul>	Spray type lubricant	004301003	—
Grease	MT main shaft	NICHIMOLY N-130	—	—
	Clutch master cylinder push rod	Silicolube G-40M	004404003	—
	<ul style="list-style-type: none"> <li>• Gear shift lever</li> <li>• Clutch operating cylinder</li> <li>• Clutch pedal</li> <li>• Brake pedal</li> <li>• Clutch bearing</li> <li>• Clutch release lever</li> <li>• Select lever</li> </ul>	KOPR-KOTE	003603001	—
	Select lever (lock plate)	Suncall GLO-224	—	—
	Steering gear box	VALIANT GREASE M-2	003608001	One-Luber SG One-Luber MO
	Disc brake	Niglube RX-2	K0779GA102	—
	Brake pad	Molykote AS-880N	K0777YA010	—
	Front axle PTJ	NKG302	28495AE010	—
	<ul style="list-style-type: none"> <li>• Front axle EBJ</li> <li>• Rear axle EBJ</li> </ul>	NTG2218-M	28395AG010	—
	Front axle BJ (STI model)	NTG2218-M	28395AG030	—
	<ul style="list-style-type: none"> <li>• Front axle DOJ (STI model)</li> <li>• Rear axle EDJ (STI model)</li> </ul>	NKG205	28495AG010	—
	Rear axle DOJ (Except STI model)	NKG205	28495AG000	—
	<ul style="list-style-type: none"> <li>• Throttle cable end</li> <li>• Door latch</li> <li>• Door striker</li> </ul>	Silicolube G-30M	004404002	—

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#### 8. ADHESIVES

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

Adhesive	Application point	Recommended	Item number	Alternative
Adhesive	Windshield, rear window glass, rear quarter glass, rear gate and body	Dow Automotive's Adhesive: ESSEX U-400HV or equivalent Glass primer: U-401 and U-402 Paint surface primer: U-413	—	—
	Inner 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 seal material shown in the table below, or equivalent.

Seal material	Application point	Recommended	Item number	Alternative	
Seal material	<ul style="list-style-type: none"> <li>• Cylinder block</li> <li>• Torque converter clutch case</li> <li>• Transmission case</li> <li>• Transmission oil pan (6MT model)</li> <li>• Oil pump</li> <li>• DOHC rocker cover</li> </ul>	Three Bond 1215B	004403007	Dow Corning's No. 7038	
	Transmission oil pan (AT model)	Three Bond 1217B	K0877YA020	—	
	<ul style="list-style-type: none"> <li>• Rear differential</li> <li>• Oil pressure swtch</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	
	Steering adjusting screw	Three Bond 1141	004403006	—	
	Camshaft cap	NA model	Three Bond 1280B	K0877YA018	—
		Turbo model	Three Bond 1215	004403007	—
	<ul style="list-style-type: none"> <li>• Front sealing cover</li> <li>• Rear sealing cover</li> </ul>	3M Butyl Rubber 8626	—	—	
	Engine pressure switch	Three Bond 1207C	004403012	—	
	<ul style="list-style-type: none"> <li>• Separator cover</li> <li>• DOHC half moon plug</li> </ul>	Three Bond 1280B	K0877YA018	—	