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NOT FOR RESALE

# RECOMMENDED MATERIALS

# Recommended Materials

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### 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

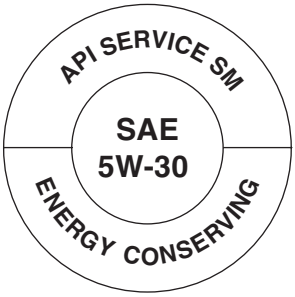

Always use gasoline of the same or higher octane value than specified in the owner's manual. Ignoring the specifications below will result in damage or poor performance of engine and fuel injection system. Use the specified gasoline to correct performance.

##### 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. See the table below to choose the correct SAE viscosity.

Lubricant	Recommended materials	
	API standard	ILSAC standard
Engine oil Choose oil suitable for the standard from the right.	SM "Energy conserving"  RM-00049	GF-4  RM-00002
Manual Transmission Oil	GL-5	—
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	
		10W-30 or 10W-40							
			5W-30 Recommend						

RM-00059

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-00058

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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	Alternative	Remarks
Automatic transmission fluid	SUBARU ATF HP	IDEMITSU: ATF HP CASTROL: Transmax J	—
Power steering fluid	SUBARU ATF HP	DEXRON III	—
Brake fluid	SUBARU genuine brake fluid	FMVSS No. 116 DOT3	—
Clutch fluid	FMVSS No. 116 DOT3	FMVSS No. 116 DOT4	—

### 5. COOLANT

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

Coolant	Recommended materials	Item number	Alternative
Coolant	SUBARU coolant	000016218	Phosphoric acid (non-amine) type
Water for dilution	Distilled water	—	Tap water (Soft water)
Cooling system protective agent	Cooling system conditioner	SOA345001	No

### 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 materials	Item number	Alternative
Refrigerant	HFC134a	—	None
Compressor oil	DH-PR	—	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	004301003	—
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>• Clutch activating cylinder</li> <li>• Clutch pedal</li> <li>• Brake pedal</li> <li>• Clutch bearing</li> <li>• Clutch release lever</li> <li>• Select lever</li> </ul>	NIGTIGHT LYW No. 2 grease	—	KOPR-KOTE
	Steering shaft bearing	SUNLIGHT 2	003602010	—
	Select lever (lock plate unit)	Suncall GLO-224	002948040	—
	Steering gearbox	VALIANT GREASE M-2	003608001	ONE LUBER SG
	Disc brake	NIGLUBE RX-2	000041000	—
	Brake pad	Molykote AS-880N	K0777YA010	—
	Brake shoe (drum brake)	Molykote No. 7439	K0770YA000	—
	Front axle AC	ONE LOUVER C	28395SA020	—
	Rear axle EBJ, BJ	NKG106	28395TC000	—
	Front axle AAR	Olistamoloy	28395TC000	—
	Rear axle DOJ	NKG205	28495AG010	—
<ul style="list-style-type: none"> <li>• Door latch</li> <li>• Door striker</li> </ul>	SILICONE GREASE G-30M	004404002	—	

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## 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 Adhesive: ESSEX U-400HV or 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>Torque converter clutch case</li> <li>Transmission case</li> </ul>	THREE BOND 1215	004403007	DOW CORNING No. 7038
	Transmission oil pan (AT model)	THREE BOND 1217B	K0877YA020	—
	<ul style="list-style-type: none"> <li>Rear differential</li> <li>Oil pressure switch</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 No. 7038
	Steering adjusting screw	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	—	—
	<ul style="list-style-type: none"> <li>Engine oil pan</li> <li>Separator cover</li> <li>DOHC semicircular plug</li> <li>Camshaft cap</li> <li>Cylinder block</li> <li>Oil pump</li> <li>DOHC rocker cover</li> </ul>	THREE BOND 1217G	K0877Y0100	—

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