

# Recommended Materials

## RECOMMENDED MATERIALS

### 1. Recommended Materials

#### A: RECOMMENDED MATERIALS

##### 1. GENERAL

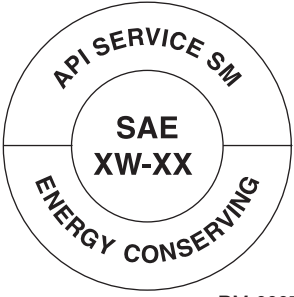

To insure the best performance, always use the specified oil, gasoline, adhesive, sealant, etc. or a substitute of equivalent quality.

##### 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 and fuel system components.
- Always use gasoline that is equivalent to that prescribed in the owner's 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.

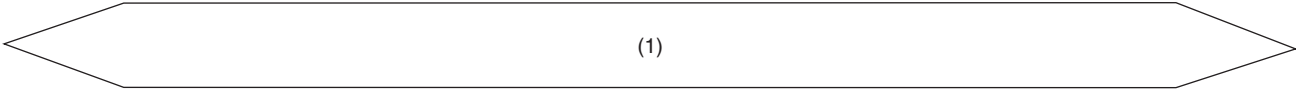


##### 3. LUBRICANTS

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

Lubricant	Recommended materials	
	API standard	ILSAC standard
Engine oil Choose oil suitable for the standard from the right.	SM or SN grade "Energy conserving"   RM-00076 Those with the above API service labels	GF-4 or GF-5   RM-00002 Those with the above ILSAC certification mark (Starburst mark)
Front differential gear oil	GL-5	—
Rear differential gear oil	GL-5	—

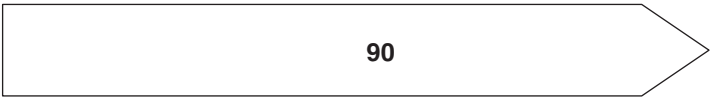
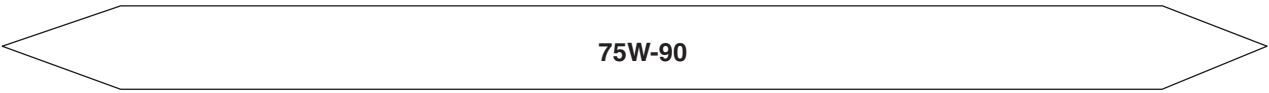
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SAE viscosity No. and applicable temperature								
Engine oil								
2.5 L model								
(°C)	-30	-20	-10	0	10	20	30	40
(°F)	-22	-4	14	32	50	68	86	104
 <p>(1)</p>								
RM-00075								
(1) 0W-20 (synthetic oil) Specified								
3.6 L model								
(°C)	-30	-20	-10	0	10	20	30	40
(°F)	-22	-4	14	32	50	68	86	104
 <p>(1)</p>								
 <p>(2)</p>								
RM-00078								
(1) 5W-30 (recommended), 5W-40 (2) 10W-30, 10W-40								

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SAE viscosity No. and applicable temperature								
Rear differential gear oil and AT and CVT front differential gear oil								
(°C)	-30	-20	-10	0	10	20	30	40
(°F)	-22	-4	14	32	50	68	86	104
								
								
								RM-00079

### 4. FLUID

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

#### CAUTION:

- **Be sure to use the recommended or equivalent ATF or CVTF. Using material except recommended one or substitute would cause trouble.**
- **If an alternative transmission gear oil is used, you may not have expected functionality and performance.**

Fluid		Recommended materials	Item number	Alternative
Automatic transmission fluid	CVT	SUBARU CVT OIL FOR LINEARTRONIC	K0425Y0710	—
	5AT	SUBARU ATF	K0410Y0700	IDEMITSU: ATF HP
Transmission gear oil		SUBARU EXTRA MT	—	GL-5 (75W-90)
Power steering fluid		SUBARU PS fluid	K0515YA000	DEXRON III
Brake fluid		FMVSS No. 116 DOT3, or DOT4	—	—
Clutch fluid		FMVSS No. 116 DOT3	—	—

### 5. COOLANT

Use genuine coolant to protect the engine.

Engine coolant	Recommended materials	Item number	Alternative
Coolant	SUBARU SUPER COOLANT (Concentrated type)	—	—
	SUBARU SUPER COOLANT (Diluted type)	K0670Y0001	—
Water for dilution	Distilled water	—	Soft water or tap water
Cooling system protective agent	Cooling system conditioner	SOA345001	—

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## 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	—	—
Compressor oil	DENSO OIL 8	—	—

## 7. GREASE

Use grease and supplementary lubricants shown in the table below.

Grease	Application point	Recommended materials	Item number	Alternative
Supplementary lubricants	Oxygen sensor	Spray type lubricant	—	—
Grease	<ul style="list-style-type: none"> <li>• MT main shaft (spline parts)</li> <li>• MT main shaft (oil seal lip)</li> <li>• Transfer driven gear (front roller bearing, rear roller bearing)</li> <li>• Clutch operating cylinder</li> <li>• Release bearing (inner circumference)</li> <li>• Clutch release lever</li> </ul>	NICHIMOLY N-130	—	—
	Clutch master cylinder push rod	SILICONE GREASE G-40M	—	—
	Gear shift lever	Multemp HL-D	—	—
	<ul style="list-style-type: none"> <li>• Clutch pedal</li> <li>• Brake pedal</li> </ul>	NIGHTIGHT LYW No. 2 grease	—	—
	Select lever	Multemp D	—	—
	<ul style="list-style-type: none"> <li>• Door latch</li> <li>• Door striker</li> </ul>	SILICONE GREASE G-30M	004404002	—
	Steering gearbox	VALIANT GREASE M-2	—	One-Luber SG or MO
	Disc brake (lock pin, guide pin)	NIGLUBE RX-2	K0779GA102	—
	Parking brake (in the parking brake shoe)	Molykote 44MA	—	—
	Between brake pad and shim	Molykote AS-880N	K0777YA010	—
	Brake pad clip	Molykote M7439	003602001	—
	Front axle AC	Olistamoloy 2LN584/L0	—	—
	Front axle AAR	One-Luber GKN-C	—	—
	<ul style="list-style-type: none"> <li>• Rear axle BJ</li> <li>• Rear axle EBJ</li> </ul>	NKG106	—	—
	Rear axle DOJ	NKG205	—	—

## 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 glass and body	Dow Automotive's adhesive: ESSEX U-400HV or the equivalent Glass primer: U-401 and U-402 Painted surface primer: U-413	—	—

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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>• MT transfer case</li> <li>• MT transmission cover</li> <li>• 5AT converter case</li> <li>• CVT transmission case</li> <li>• CVT extension case</li> <li>• CVT chain cover</li> <li>• CVT drive pinion retainer</li> </ul>	THREE BOND 1215	004403007	DOW CORNING No. 7038
	Transmission oil pan (AT and CVT model)	THREE BOND 1217B	K0877YA020	—
	<ul style="list-style-type: none"> <li>• Camshaft cap</li> <li>• Strainer (3.6 L model)</li> <li>• Rocker cover</li> <li>• Oil pan (oil pan upper)</li> <li>• Block (oil pan upper)</li> <li>• Chain cover (block, head, oil pan upper, front cam shaft cap) (3.6 L model)</li> <li>• Cylinder block</li> <li>• Camshaft carrier (2.5 L non-turbo model)</li> <li>• Chain cover (block, head, oil pan upper, camshaft carrier, front camshaft cap) (2.5 L non-turbo model)</li> <li>• Separator cover (except for 3.6 L model)</li> </ul>	THREE BOND 1217G	K0877Y0100	—
	<ul style="list-style-type: none"> <li>• Engine oil pressure switch</li> <li>• Rear differential</li> <li>• PCV valve</li> </ul>	THREE BOND 1324	004403042	—
	<ul style="list-style-type: none"> <li>• Rear differential</li> <li>• Intake manifold nipple</li> </ul>	THREE BOND 1105	004403010	DOW CORNING No. 7038
	Steering adjusting screw	THREE BOND 1102	004403006	THREE BOND 1215
	<ul style="list-style-type: none"> <li>• Front sealing cover (door)</li> <li>• Rear sealing cover (door)</li> </ul>	3M Butyl Rubber 8626	—	—
	Rear differential (side retainer bolt)	THREE BOND 1110F	K0879Y0021	THREE BOND 1110B

# PRE-DELIVERY INSPECTION

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