

# Recommended Materials

## RECOMMENDED MATERIALS

### 1. Recommended Materials

#### A: RECOMMENDED MATERIALS

##### 1. GENERAL

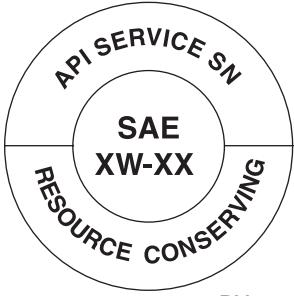
To insure the best performance, always use the specified oil, gasoline, adhesive, sealant, etc. or a substitute of equivalent quality.

##### 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.

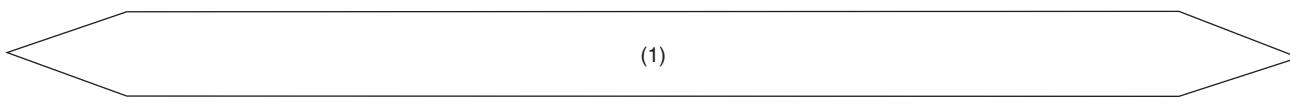
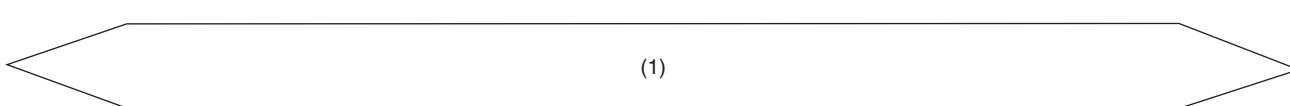
##### 3. LUBRICANTS

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.	SN or SM grade "Resource conserving" or "Energy conserving"   Those with the above API service labels	GF-5 or GF-4   Those with the above ILSAC certification mark (Starburst mark)
Rear differential gear oil	GL-5	—

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SAE viscosity No. and applicable temperature								
Engine oil								
Non-turbo model								
(°C)	-30	-20	-10	0	10	20	30	40
(°F)	-22	-4	14	32	50	68	86	104
								
(1)								
RM-00075								
(1) 0W-20 (synthetic oil) Specified								
Turbo model								
								
(1)								
RM-00075								
(1) 5W-30 (synthetic oil) Specified								

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Rear differential gear oil*1								
(°C)	-30	-20	-10	0	10	20	30	40
(°F)	-22	-4	14	32	50	68	86	104
						90		
				75W-90 (1)				
								RM-00080

(1) Recommended materials

\*1

### CAUTION:

Do not mix two different kinds or makes of gear oil.

## 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 CVTF. Using material except recommended one 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	Non-turbo	SUBARU CVT OIL FOR LINEARTRONIC	K0425Y0710	—	
		Turbo	SUBARU HIGH TORQUE CVT OIL FOR LINEARTRONIC	K0421Y0700	—	
Transmission gear oil		SUBARU GEAR OIL EXTRA MT		—	GL-5 (75W-90)	
Front differential gear oil		SUBARU GEAR OIL EXTRA MT		—	GL-5 (75W-90)	
Brake fluid and clutch fluid		FMVSS No. 116 DOT3, or DOT4		—	—	

## 5. ENGINE COOLANT

Use genuine engine 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 air compressor oil except for DH-PR.

Air conditioner	Recommended materials	Item number	Alternative
Refrigerant	HFC134a	—	—
Compressor oil	DH-PR	—	—

#### 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	004301003	—
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 release lever</li><li>• Clutch release bearing (inner circumference)</li><li>• Clutch operating cylinder</li></ul>	NICHIMOLY N-130	—	—
	Clutch master cylinder push rod	SILICONE GREASE G-40M	—	—
	<ul style="list-style-type: none"><li>• Gear shift lever</li><li>• Clutch pedal</li><li>• Brake pedal</li></ul>	NIGHTIGHT LYW No. 2	—	—
	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	Multemp AC-P	—	—
	Disc brake (lock pin, guide pin)	NIGLUBE RX-2	—	—
	Between brake pad and shim	Molykote AS-880N	—	—
	Brake pad clip	Molykote M7439 (Brake Grease 60G)	—	—
	Parking brake	Molykote 44MA	—	—
	Front axle PTJ	NKG302	—	—
	<ul style="list-style-type: none"><li>• Front axle EBJ</li><li>• Rear axle BJ</li><li>• Rear axle EBJ</li><li>• Rear axle DOJ</li><li>• Rear axle EDJ</li></ul>	NKG814	—	—

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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 glass, rear quarter glass, rear gate glass and body	Dow Automotive's Adhesive: ESSEX U-400HV or equivalent Glass primer: U-401 and U-402 Painted surface primer: U-413	—	—

### 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	• MT transmission case • MT transfer case • Transmission cover • CVT transmission case • CVT extension case • CVT intermediate case (TR690 model) • CVT converter case cover (TR690 model) • CVT oil pump chain cover • CVT drive pinion retainer	THREE BOND 1215B	—	DOW CORNING No. 7038 THREE BOND 1215
	Transmission oil pan (CVT model)	THREE BOND 1217B	K0877YA020	—
	• Rear differential • Oil pressure switch • PCV valve	THREE BOND 1324	004403042	—
	Rear differential	THREE BOND 1105	004403010	DOW CORNING No. 7038
	Steering adjusting screw	THREE BOND 1111B	—	—
	• Engine oil pan • Separator cover • Cylinder block • Rocker cover • Chain cover • Oil pan upper • Cylinder head • Camshaft carrier • Camshaft bearing cap	THREE BOND 1217G	K0877Y0100	—
	• Front door (sealing cover) • Rear door (sealing cover)	3M Butyl Tape 8626	—	—
	Rear differential (side retainer bolt)	THREE BOND 1110F	—	THREE BOND 1110B

# PRE-DELIVERY INSPECTION

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