

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

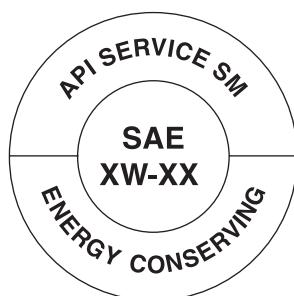
Always use gasoline of the same or higher octane value than specified in the owner's manual. Ignoring the specifications will result in damage or poor performance of engine and fuel injection system. To gain proper performance, always use specified gasoline.

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.

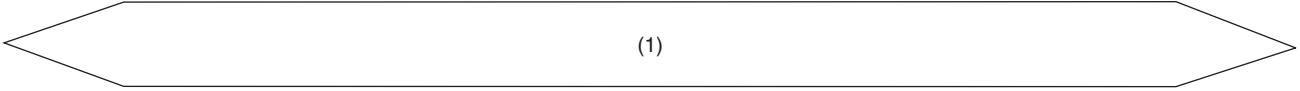
3. LUBRICANT

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"  RM-00076 Those with the above API service labels	GF-5 or GF-4  RM-00002 Those with the above ILSAC certification mark (Starburst mark)
Manual transmission 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
								
(1)								
RM-00075								
(1) 5W-30 (synthetic oil) Specified								
Manual transmission gear 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								
								
75W-90								
RM-00079								

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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
Power steering fluid	SUBARU ATF	DEXRON III	—
Brake fluid	FMVSS No. 116 DOT3, or DOT4	—	—
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 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	—

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

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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	• MT main shaft (spline portion) • MT main shaft (oil seal lip) • Transfer driven gear (Front roller bearing, rear roller bearing) (5MT) • Clutch release lever • Clutch release bearing • Clutch operating cylinder	NICHIMOLY N-130	—	—
	Clutch master cylinder push rod	SILICONE GREASE G-40M	—	—
	• Gear shift lever • Clutch pedal • Brake pedal • Release bearing	NIGHTIGHT LYW No. 2 grease	—	—
	Steering gearbox	VALIANT GREASE M-2	003608001	One-Luber SG
	Disc brake (lock pin, guide pin)	NIGLUBE RX-2	K0779GA102	—
	Brake pad end surface	Molykote M7439	003602001	—
	Between brake pad and shim	Molykote AS880N	K0777YA010	—
	Parking brake	Brake grease	003602002	—
	Rear axle EBJ	NKG814	—	—
	Front axle AAR	One-Luber GKN-C	—	—
	Front axle PTJ	NKG302	—	—
	Rear axle EDJ	NKG814	—	—
	• Door latch • Door striker	SILICONE GREASE G-30M	004404002	—

8. ADHESIVE

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

Adhesive	Application point	Recommended materials	Item number	Alternative
Adhesive	Windshield, rear quarter glass, rear window 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	—	—

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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">• Transmission case• Transmission oil pan (6MT)• MT transfer case• Clutch housing (6MT)	THREE BOND 1215	004403007	DOW CORNING No. 7038
	<ul style="list-style-type: none">• Rear differential• Oil pressure switch• Oil return cover mounting bolt• Engine oil separator cover mounting bolt (when reusing bolts)• Engine oil pump mounting bolt (when reusing bolts)• Timing belt guide cam sprocket side mounting bolt (when reusing bolts)	THREE BOND 1324	004403042	—
	<ul style="list-style-type: none">• Service hole plug• PCV nipple• Intake manifold nipple (STI model)• Rear differential	THREE BOND 1105	004403010	DOW CORNING No. 7038
	Rear differential (side retainer bolt)	THREE BOND 1110F	—	THREE BOND 1110B
	Steering adjusting screw	THREE BOND 1102	004403006	THREE BOND 1215
	<ul style="list-style-type: none">• Front door sealing cover• Rear door sealing cover	3M Butyl Rubber 8626	—	—
	<ul style="list-style-type: none">• Engine oil pan• Separator cover• Camshaft cap• Cylinder block• Oil pump• DOHC rocker cover	THREE BOND 1217G	K0877Y0100	—

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