

Recommended Materials

RECOMMENDED MATERIALS

1. Recommended Materials

A: RECOMMENDED MATERIALS

1. GENERAL

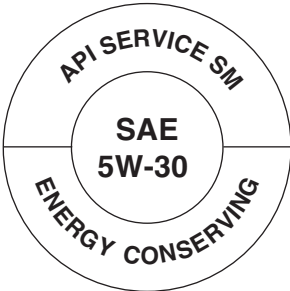

To insure the best performance, always use the specified oil, gasoline, adhesive, sealant, etc. or a substitute of equivalent quality.

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.
- 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 grade "Energy conserving"  RM-00049	GF-4  RM-00002
Manual Transmission Oil	GL-5	—
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, rear differential gear oil, 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
90								
85W								
80W								
75W-90								
RM-00004								

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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. Using material except recommended one or substitute would cause trouble.

Fluid		Recommended materials	Item number	Alternative
Automatic transmission fluid	CVT	SUBARU CVT OIL FOR LINEARTRONIC	K0425Y0710	—
	5AT	SUBARU ATF HP	—	IDEMITSU: ATF HP
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	K0670Y0001	—
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 other than DENSO OIL 8.

Air Conditioner	Recommended materials	Item number	Alternative
Refrigerant	HFC134a	—	—
Compressor oil	DENSO OIL 8	—	—

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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	—	—
Grease	<ul style="list-style-type: none"> MT main shaft (spline parts) MT main shaft (oil seal lip) Clutch release lever 	NICHIMOLY N-130	—	—
	Clutch master cylinder push rod	SILICONE GREASE G-40M	—	—
	<ul style="list-style-type: none"> Gear shift lever Clutch operating cylinder Clutch pedal Brake pedal Release bearing Select lever (Except for shift lock parts) 	NIGHTIGHT LYW No. 2 grease	—	—
	Select lever (Shift lock parts)	Multemp D	—	—
	<ul style="list-style-type: none"> Door latch Door striker 	SILICONE GREASE G-30M	004404002	—
	Steering gearbox	VALIANT GREASE M2	003608001	ONE LUBER SG or MO
	Disc brake (lock pin, guide pin, piston boot)	Brake grease (NIGLUBE RX-2)	K0779GA102	—
	Between brake pad and shim	Molykote AS-880N	K0777YA010	—
	Brake pad clip	Molykote M7439 (Brake Grease 60G)	—	—
	Front axle AAR	One-Luber GKN-C	—	—
	<ul style="list-style-type: none"> Rear axle BJ Rear axle EBJ 	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 Paint surface primer: U-413	—	—
	Rearview mirror base	REPAIR KIT IN MR	65029FC000	—

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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"> • MT transmission case • Converter case • CVT converter case • CVT transmission case • CVT intermediate case • CVT converter cover • CVT chain cover 	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"> • Cylinder block • Camshaft cap • Oil pump (Except for 3.6 L model) • Rocker cover (3.6 L model or turbo model) • Oil pan (block lower) (except 3.6 L model) • Oil pan (oil pan upper) (3.6 L model) • Block lower (block) (except 3.6 L model) • Block (oil pan upper) (3.6 L model) • Back chain cover (front chain cover, block, head, oil pan upper) (3.6 L model) • Separator cover (except for 3.6 L model) • Scavenge pump (turbo model) 	THREE BOND 1217G	K0877Y0100	—
	<ul style="list-style-type: none"> • Engine oil pressure switch • Rear differential lock nut (companion flange) • Rear differential driven gear mounting bolt threaded portion • Engine oil separator cover threaded portion (when reusing bolts) • Engine oil pump mounting bolt threaded portion (when reusing the bolt) (when reusing bolts) • Timing belt guide cam sprocket side mounting bolt threaded portion (when reusing the bolt) (when reusing bolts) 	THREE BOND 1324	004403042	—
Seal material	<ul style="list-style-type: none"> • Rear differential • PCV valve (except 3.6L model) • Service hole plug • Intake manifold nipple 	THREE BOND 1105	004403010	DOW CORNING No. 7038
	Steering adjusting screw	SEAL END No. 22	—	—
	PCV valve (3.6L model)	THREE BOND 1141G	—	—
	<ul style="list-style-type: none"> • Front sealing cover (door) • Rear sealing cover (door) 	3M Butyl Rubber 8626	—	—
	Rear differential (side retainer bolt)	THREE BOND 1110B	K0879Y0020	—