

1. Recommended Materials SA05678

A: RECOMMENDED MATERIALS

SA05678G22

1. GENERAL SA05678G2201

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

2. FUEL SA05678G2202

Always use a 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 operation of the engine and fuel injection system. Use the specified gasoline to correct performance.

● **Unleaded gasoline**

Use unleaded gasoline and not leaded gasoline on vehicles with catalytic converter installed to reduce air pollution. Using leaded gasoline will damage the catalytic converter.

● **Leaded gasoline**

On vehicles without catalytic converter, use gasoline with an octane value of 90 RON or higher.

● **Methanol**

Use gasoline with a methanol content of 5% or less.

● **Ethanol**

Use gasoline with an ethanol content of 10% or less.

● **MTBE**

Use gasoline with an MTBE content of 15% or less.

● **California specifications**

All Subaru vehicles are LEV, and thus can use California specification gasoline.

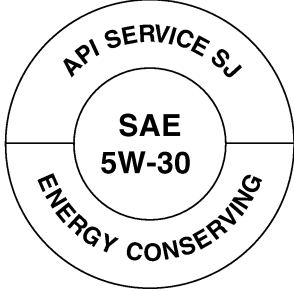

● **Reformulated gasoline**

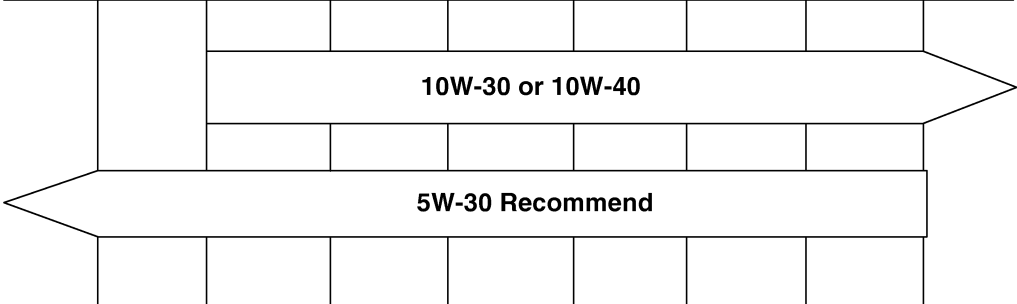
Reformulated gasoline may be used.

RECOMMENDED MATERIALS

3. LUBRICANTS SA05678G2203

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

Lubricant	Recommended			Alternative
	API Spec.	CCMC Spec.	ACEA Spec.	
Engine oil	SJ Grade "Energy conserving"  G10001  G10002	G4 or G5	A1, A2 or A3	API: SH or SG
Manual transmission oil	GL-5	—	—	—
Front differential	GL-5	—	—	—
Rear differential	GL-5	—	—	—

SAE viscosity	SAE viscosity No. and applicable temperature SAE J300																		
Engine oil	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">(°C)</td> <td style="text-align: center;">-30</td> <td style="text-align: center;">-20</td> <td style="text-align: center;">-10</td> <td style="text-align: center;">0</td> <td style="text-align: center;">10</td> <td style="text-align: center;">20</td> <td style="text-align: center;">30</td> <td style="text-align: center;">40</td> </tr> <tr> <td style="text-align: center;">(°F)</td> <td style="text-align: center;">-22</td> <td style="text-align: center;">-4</td> <td style="text-align: center;">14</td> <td style="text-align: center;">32</td> <td style="text-align: center;">50</td> <td style="text-align: center;">68</td> <td style="text-align: center;">86</td> <td style="text-align: center;">104</td> </tr> </table> 	(°C)	-30	-20	-10	0	10	20	30	40	(°F)	-22	-4	14	32	50	68	86	104
(°C)	-30	-20	-10	0	10	20	30	40											
(°F)	-22	-4	14	32	50	68	86	104											
	<small>G10003A</small>																		

RECOMMENDED MATERIALS

Recommended Materials

SAE viscosity	SAE viscosity No. and applicable temperature SAE J300								
Manual transmission oil	(°C)	-30	-20	-10	0	10	20	30	40
	(°F)	-22	-4	14	32	50	68	86	104
	90								▶
	85W								▶
Rear differential	80W								▶
	75W-90								▶
									▶
GI0004A									
Front differential	(°C)	-30	-20	-10	0	10	20	30	40
	(°F)	-22	-4	14	32	50	68	86	104
	90								▶
	85W								▶
80W								▶	
80W-90								▶	
GI0005A									

4. FLUID SA05678G2204

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

Fluid	Recommended	Alternative	Remarks
Automatic transmission fluid	DEXRON III	—	
Power steering fluid	DEXRON III	—	
Brake fluid	FMVSS No. 116 DOT3	FMVSS No. 116 DOT4	
Clutch fluid	FMVSS No. 116 DOT3	FMVSS No. 116 DOT4	

5. COOLANT SA05678G2205

Use genuine coolant to protect the engine. The table below shows the ratio of coolant to distilled water.

Coolant	Recommended	Item number	Alternative
Coolant	SUBARU coolant	000016218	None
Water for dilution	Distilled water	—	Tap water

6. REFRIGERANT SA05678G2206

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 ZXL200PG.

Air conditioner	Recommended	Item number	Alternative
Refrigerant	HFC134a	—	None
Compressor oil	ZXL200PG	—	None

RECOMMENDED MATERIALS

Recommended Materials

7. GREASE SA05678G2207

Use the grease and supplementary lubricants shown in the table below.

Grease	Application point	Recommended	Item number	Alternative
Supplementary lubricants	<ul style="list-style-type: none"> ● O2 sensor ● Bolts, etc. 	SUBARU CRC	004301003	—
Grease	MT main shaft	FX clutch grease	000040901	—
	Clutch master cylinder push rod	Slicolube G-40M	004404003	—
	<ul style="list-style-type: none"> ● Steering shaft bearing ● Gear shift bush 	SUNLIGHT2	003602010	—
	Steering gear box	Valiant grease M-2	003608001	—
	Disc brake	Niglube RX-2	003606000 or 725191040	—
	Drum brake	Molykote No. 7439	72519460	—
	<ul style="list-style-type: none"> ● Brake pad ● Brake shoe 	Molykote AS-880N	26298AC000	—
	Front axle SFJ	SSG-6003	28093TA000	—
	Rear axle BJ	Molykote No. 2	723223010	—
	Rear axle DOJ	VU-3A702	23223GA050	—
	<ul style="list-style-type: none"> ● Control cable ● Throttle linkage ● Water pump ● Door latch ● Door striker 	Slicolube G-30M	004404002	—

8. ADHESIVES SA05678G2210

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

Adhesive	Application point	Recommended	Item number	Alternative
Adhesive	Windshield and body	Essex Chemical Crop's Urethane E	—	Sunstar 580
	Weatherstrip, rubber parts	Cemedine 5430L	—	3M's EC-1770 EC-1368
	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 SA05678G2209

Use seal material shown in the table below, or equivalent.

Seal material	Application point	Recommended	Item number	Alternative
	Engine case	Three Bond 1215	004403007	Dow Corning's No. 7038
	Transmission	Three Bond 1217B	K0877YA020	—
	Rear differential	Three Bond 1324	004403042	—
	Rear differential	Three Bond 1105	004403010	Dow Corning's No. 7038
	Weatherstrip	Starcalking B-33A	000018901	Butyl Rubber sealant
	Steering adjusting screw	Three Bond 1102	004403006	—
	SOHC cam cap	Three Bond 1280B	K0877YA018	—

RECOMMENDED MATERIALS

Recommended Materials

MEMO: