

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

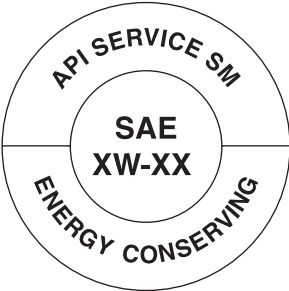

Always use gasoline of the same or higher octane value than specified in the owner's manual. Ignoring the specifications will result in damage or poor performance of engine and fuel injection system. To gain proper performance, always use specified gasoline.

Unleaded gasoline

For vehicles equipped with a catalytic converter for reducing air pollution, use unleaded gasoline. If leaded gasoline is used, the catalytic converter may become damaged.

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"  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) |
| AT 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 |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 20px; left: 25%; width: 75%; height: 40px; border: 1px solid black; border-bottom: none; margin-bottom: 5px;"></div> <div style="position: absolute; top: 20px; left: 25%; width: 75%; height: 40px; border: 1px solid black; border-bottom: none; margin-bottom: 5px; text-align: center;">(2)</div> <div style="position: absolute; bottom: 20px; left: 0; width: 95%; height: 40px; border: 1px solid black; border-top: none; margin-top: 5px;"></div> <div style="position: absolute; bottom: 20px; left: 0; width: 95%; height: 40px; border: 1px solid black; border-top: none; margin-top: 5px; text-align: center;">(1)</div> </div> | | | | | | | | |
| RM-00078 | | | | | | | | |
| (1) 5W-30 (recommended), 5W-40 (2) 10W-30, 10W-40 | | | | | | | | |
| Rear differential gear oil and AT front differential gear oil | | | | | | | | |
| (°C) | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 |
| (°F) | -22 | -4 | 14 | 32 | 50 | 68 | 86 | 104 |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 20px; left: 45%; width: 50%; height: 40px; border: 1px solid black; border-bottom: none; margin-bottom: 5px;"></div> <div style="position: absolute; top: 20px; left: 45%; width: 50%; height: 40px; border: 1px solid black; border-bottom: none; margin-bottom: 5px; text-align: center;">90</div> <div style="position: absolute; bottom: 20px; left: 0; width: 95%; height: 40px; border: 1px solid black; border-top: none; margin-top: 5px;"></div> <div style="position: absolute; bottom: 20px; left: 0; width: 95%; height: 40px; border: 1px solid black; border-top: none; margin-top: 5px; text-align: center;">75W-90 (1)</div> </div> | | | | | | | | |
| RM-00080 | | | | | | | | |
| (1) Recommended materials | | | | | | | | |

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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 | Alternative | Remarks |
|------------------------------|-----------------------|------------------|---------|
| Automatic transmission fluid | SUBARU ATF | IDEMITSU: ATF HP | — |
| Power steering fluid | SUBARU ATF | DEXRON III | — |
| Brake fluid | FMVSS No. 116 DOT3 | DOT4 | — |

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 | — |

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 | — | None |
| Compressor oil | DENSO OIL 8 | — | None |

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 | Select lever | Multemp AC-D | — | — |
| | | Multemp SH-W | — | — |
| | | Permalube BAN-5 | — | — |
| | Brake pedal | ESA MIC45-A EQUIB | — | — |
| | Steering gearbox | VALIANT GREASE M2 | 003608001 | One-Luber SG |
| | Disc brake (lock pin, guide pin) | NIGLUBE RX-2 | — | — |
| | Between brake pad and shim | Molykote AS-880N | K0777YA010 | — |
| | Brake pad clip | Molykote M7439 | — | — |
| | Front axle PTJ | NKG302 | — | — |
| | • Front axle EBJ • Rear axle EBJ | NTG2218-M | — | — |
| | 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, front quarter glass, rear window glass, rear quarter glass, rear gate 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 | Converter case | THREE BOND 1215 | 004403007 | DOW CORNING No. 7038 |
| | Transmission oil pan | THREE BOND 1217B | K0877YA020 | — |
| | <ul style="list-style-type: none"> • Engine oil pressure switch • Cylinder head (seal bolt) • Rear differential lock nut • PCV valve | THREE BOND 1324 | 004403042 | — |
| | Steering adjusting screw | THREE BOND 1102 | 004403006 | THREE BOND 1215 |
| | <ul style="list-style-type: none"> • Cylinder block • Cam cap • Engine oil pan • Engine strainer • Cylinder head gasket (Block, head) • Rocker cover • Oil pan upper • Chain cover (Block, head, cam cap, oil pan upper) | THREE BOND 1217G | K0877Y0100 | — |
| | <ul style="list-style-type: none"> • Door (Front sealing cover) • Door (Rear sealing cover) | 3M Butyl Rubber 8626 | — | — |

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PRE-DELIVERY INSPECTION

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