

Recommended Materials

RECOMMENDED MATERIALS

1. Recommended Materials

A: RECOMMENDED MATERIALS

1. GENERAL

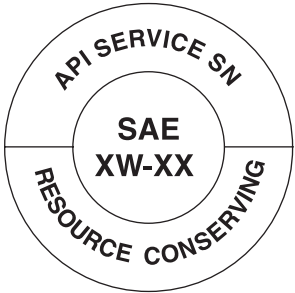

To insure the best performance, always use the specified oil, gasoline, adhesive, sealant, etc. or a substitute of equivalent quality.

2. FUEL

- Use unleaded gasoline because using leaded gasoline will cause a malfunction.
- 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"  RM-00081 Those with the above API service labels | GF-5 or GF-4  RM-00002 Those with the above ILSAC certification mark (Starburst mark) |
| Rear differential gear oil | GL-5 | — |

Recommended Materials

RECOMMENDED MATERIALS

| 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="border: 1px solid black; width: 80%; margin: auto; height: 40px; position: relative;"> (1) </div> | | | | | | | | |
| RM-00075 | | | | | | | | |
| (1) 0W-20 (synthetic oil) Specified | | | | | | | | |
| Rear differential gear oil* | | | | | | | | |
| (°C) | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 |
| (°F) | -22 | -4 | 14 | 32 | 50 | 68 | 86 | 104 |
| <div style="border: 1px solid black; width: 40%; margin: auto; height: 40px; position: relative;"> 90 </div> <div style="border: 1px solid black; width: 80%; margin: auto; height: 40px; position: relative;"> 75W-90 (1) </div> | | | | | | | | |
| RM-00080 | | | | | | | | |
| (1) Recommended materials | | | | | | | | |

*

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

Recommended Materials

RECOMMENDED MATERIALS

4. FLUID

CAUTION:

- Use the fluids specified in the table below. Do not mix two different kinds or makes of fluid.
- Always use the recommended CVTF for CVT. Using other fluid will cause malfunction.
- 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 | SUBARU CVT FLUID LINEARTRONIC II | K0425Y0711 | — |
| 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 | — |

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 | — | — |

Recommended Materials

RECOMMENDED MATERIALS

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"> MT main shaft (spline parts) MT main shaft (oil seal lip) Transfer driven gear (front roller bearing, rear roller bearing) Clutch release lever Clutch release bearing (inner circumference) Clutch operating cylinder | NICHIMOLY N-130 | — | — |
| | Clutch master cylinder push rod | SILICONE GREASE G-40M | — | — |
| | <ul style="list-style-type: none"> Gear shift lever Clutch pedal Brake pedal | NIGHTIGHT LYW No. 2 | — | — |
| | Select lever | Multemp D | — | — |
| | <ul style="list-style-type: none"> Door latch Door striker | SILICONE GREASE G-30M | 004404002 | — |
| | Steering gearbox | Multemp AC-P | — | — |
| | Disc brake (lock pin, guide pin) | NIGLUBE RX-2 | — | — |
| | Brake pad clip | Molykote M7439 | K0770YA000 | — |
| | Between front brake pad and shim | Molykote AS-880N | — | — |
| | Between rear brake pad and shim | WAKO grease V160 | — | — |
| | Brake shoe (parking brake) | Molykote 44MA | — | — |
| | Front axle AAR | One-Luber GKN-C | — | — |
| | Front axle AC | Olistamoly 2LN584/Lo | — | — |
| | Front axle PTJ | NKG302 | — | — |
| | <ul style="list-style-type: none"> Front axle EBJ Rear axle BJ (XV) Rear axle DOJ (XV) Rear axle EBJ Rear axle DOJ | NKG814 | — | — |
| | Rear axle BJ | Raremax LF-G | — | — |
| | Rear axle DOJ | | — | — |

Recommended Materials

RECOMMENDED MATERIALS

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 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 | — | — |

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"> • CVT extension case • CVT transmission case • CVT motor case (HEV model) • CVT drive pinion retainer • CVT oil pump chain cover • MT transmission case • MT transfer case | THREE BOND 1215B | — | DOW CORNING No. 7038 THREE BOND 1215 |
| | Transmission oil pan (CVT model) | THREE BOND 1217B | K0877YA020 | — |
| | <ul style="list-style-type: none"> • Rear differential • Oil pressure switch • PCV valve | THREE BOND 1324 | 004403042 | — |
| | <ul style="list-style-type: none"> • Rear differential • Service hole plug | THREE BOND 1105 | 004403010 | DOW CORNING No. 7038 |
| | Steering adjusting screw (electric power steering) | THREE BOND 1111B | — | — |
| | <ul style="list-style-type: none"> • Front sealing cover • Rear sealing cover | 3M Butyl Tape 8626 | — | — |
| | <ul style="list-style-type: none"> • Engine oil pan • Separator cover • Camshaft cap • Cylinder block • Rocker cover • Chain cover • Oil pan upper • Cylinder head • Camshaft carrier • Camshaft bearing cap | THREE BOND 1217G THREE BOND 1217H | K0877Y0100 — | — |
| | Rear differential | THREE BOND 1110F | — | THREE BOND 1110B |

PRE-DELIVERY INSPECTION

PI

| | |
|----------------------------------|------|
| | Page |
| 1. Pre-delivery Inspection | 2 |

