

GENERAL DESCRIPTION

FRONT SUSPENSION

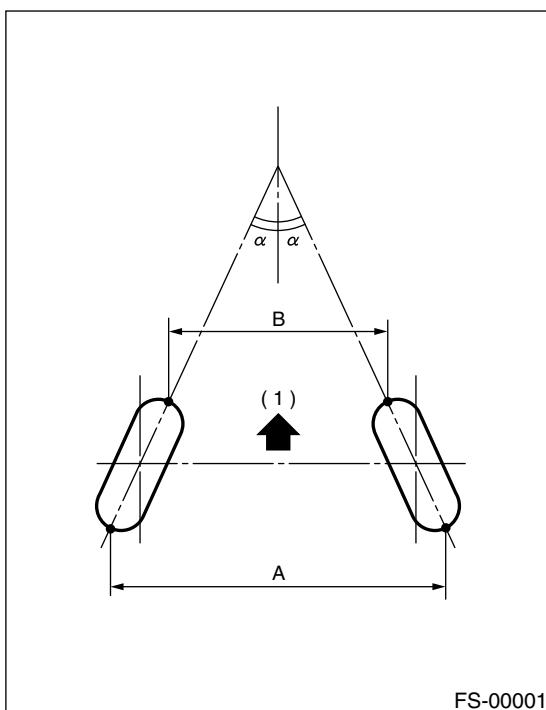
1. General Description

A: SPECIFICATIONS

| | Model | Sedan | Wagon | OUTBACK | PICKUP |
|-------|--|--|----------------------|----------------------|----------------------|
| Front | Camber (Tolerance: $\pm 0^{\circ}45'$ Adjustment standard: $\pm 0^{\circ}30'$) | $-0^{\circ}05'$ | $-0^{\circ}05'$ | $0^{\circ}20'$ | $0^{\circ}40'$ |
| | Caster | $3^{\circ}05'$ | $2^{\circ}50'$ | $2^{\circ}40'$ | $2^{\circ}45'$ |
| | Toe-in | Tolerance: 0 ± 3 mm (0 ± 0.12 in), Toe angle (The sum of both wheels): $\pm 0^{\circ}15'$ Tolerance: 0 ± 2 mm (0 ± 0.08 in), Toe angle (The sum of both wheels): $\pm 0^{\circ}10'$ | | | |
| | Kingpin angle | $14^{\circ}15'$ | $14^{\circ}15'$ | $13^{\circ}30'$ | $13^{\circ}00'$ |
| | Wheel arch height [Tolerance: $+12/-24$ mm ($+0.47/-0.94$ in)] | 388 mm (15.28 in) | 388 mm (15.28 in) | 424 mm (16.69 in) | 436 mm (17.17 in) |
| | Diameter of stabilizer | 21 mm (0.83 in) | | | |
| Rear | Camber (Tolerance: $\pm 0^{\circ}45'$ Adjustment standard: $\pm 0^{\circ}30'$) | $-0^{\circ}30'$ | $-0^{\circ}20'$ | $0^{\circ}10'$ | $0^{\circ}05'$ |
| | Toe-in | Tolerance: 0 ± 3 mm (0 ± 0.12 in), Toe angle (The sum of both wheels): $\pm 0^{\circ}15'$ Tolerance: 0 ± 2 mm (0 ± 0.08 in), Toe angle (The sum of both wheels): $\pm 0^{\circ}10'$ | | | |
| | Wheel arch height [Tolerance: $+12/-24$ mm ($+0.47/-0.94$ in)] | 371 mm (14.61 in) | 381 mm (15.00 in) | 421 mm (16.57 in) | 441 mm (17.36 in) |
| | Thrust angle | Tolerance: $\pm 0^{\circ}30'$, Adjustment standard: $\pm 0^{\circ}20'$ | | | |
| | Diameter of stabilizer | 16 mm (0.63 in) | | | |

NOTE:

- Front and rear toe-in and front camber can be adjusted. If toe-in or camber exceeds tolerance, adjust toe-in and camber to the adjustment standard.
- The other items indicated in the specification table cannot be adjusted. If the other items exceed specifications, check suspension parts and connections for deformities; replace with new ones as required.



(1) Front

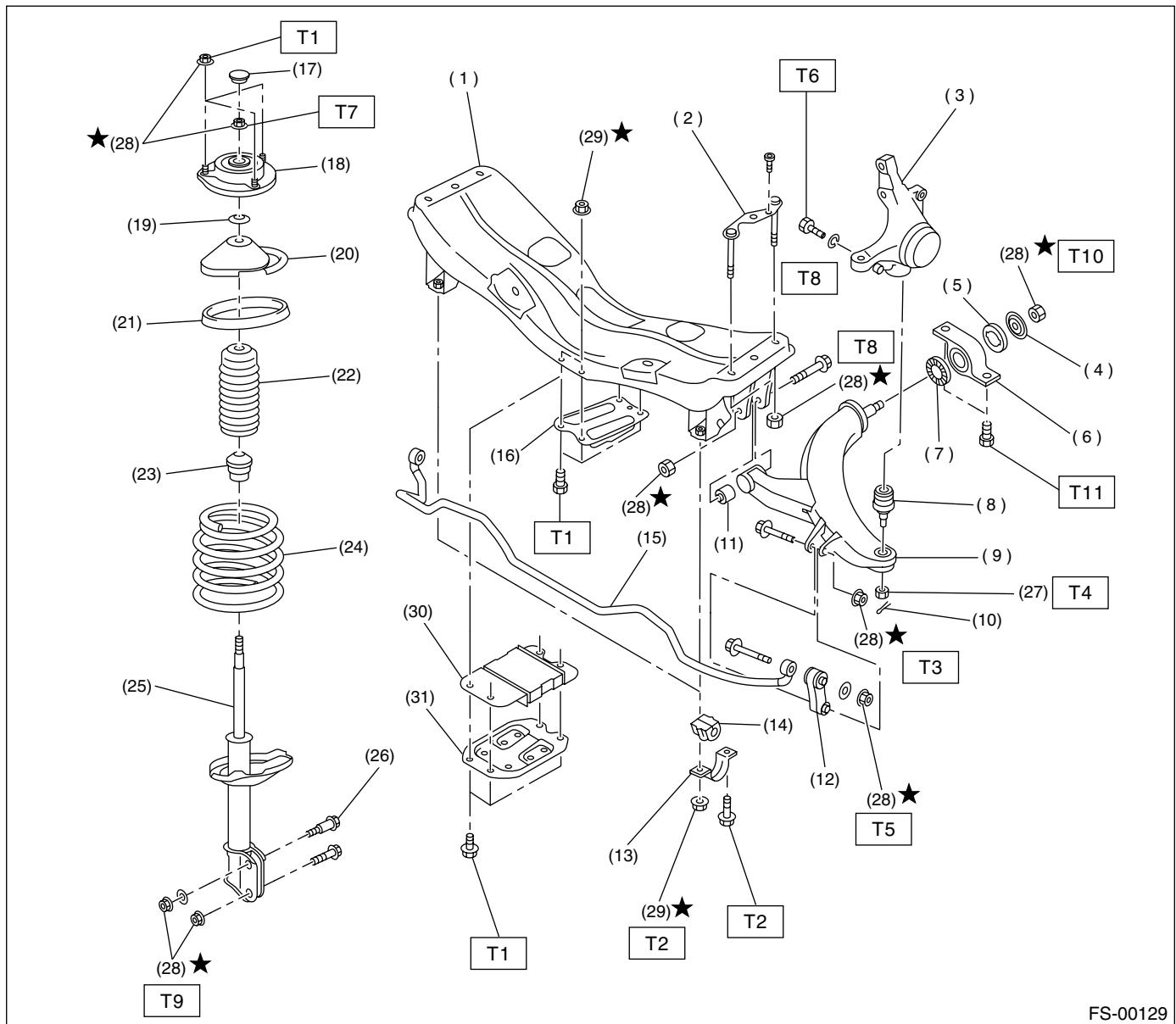
A – B = Positive: Toe-in, Negative: Toe-out

α = Each toe angle

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B: COMPONENT



FS-00129

| | | |
|----------------------------|---|--|
| (1) Front crossmember | (17) Dust seal | (31) Dynamic plate (Non-TURBO, MT model) |
| (2) Bolt ASSY | (18) Strut mount | |
| (3) Housing | (19) Spacer | |
| (4) Washer | (20) Upper spring seat | |
| (5) Stopper rubber (Rear) | (21) Rubber seat | |
| (6) Rear bushing | (22) Dust cover | |
| (7) Stopper rubber (Front) | (23) Helper | |
| (8) Ball joint | (24) Coil spring | |
| (9) Transverse link | (25) Damper strut | |
| (10) Cotter pin | (26) Adjusting bolt | |
| (11) Front bushing | (27) Castle nut | |
| (12) Stabilizer link | (28) Self-locking nut | |
| (13) Clamp | (29) Flange nut | |
| (14) Bushing | (30) Dynamic damper (Non-TURBO, MT model) | |
| (15) Stabilizer | | |
| (16) Jack-up plate | | |

Tightening torque: N·m (kgf·m, ft·lb)

T1: 20 (2.0, 14.5)

T2: 25 (2.5, 18.1)

T3: 30 (3.1, 22)

T4: 39 (4, 29)

T5: 45 (4.6, 33)

T6: 50 (5.1, 37)

T7: 54 (5.5, 39.8)

T8: 95 (9.7, 71)

T9: 152 (16, 116)

T10: 186 (19.0, 137)

T11: 245 (25.0, 181)

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C: CAUTION

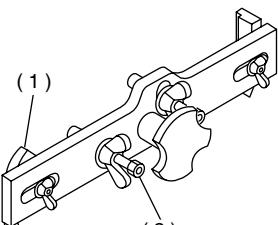
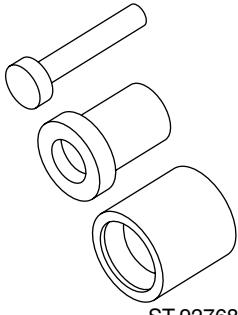
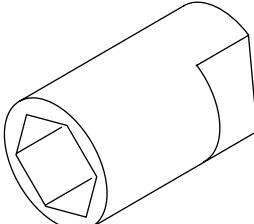
- Wear working clothing, including a cap, protective goggles, and protective shoes during operation.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust or dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly, and replacement.
- Use SUBARU genuine grease etc. or the equivalent. Do not mix grease etc. with that of another grade or from other manufacturers.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or safety stands at the specified points.
- Apply grease onto sliding or revolution surfaces before installation.
- Before installing O-rings or snap rings, apply sufficient amount of grease to avoid damage and deformation.
- Before securing a part on a vise, place cushioning material such as wood blocks, aluminum plate, or shop cloth between the part and the vise.

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D: PREPARATION TOOL

1. SPECIAL TOOLS

| ILLUSTRATION | TOOL NUMBER | DESCRIPTION | REMARKS |
|---|-------------|-------------------------|---|
|  ST-927380002 | 927380002 | ADAPTER | Used as an adapter for camber & caster gauge when measuring camber and caster. (1) 28199AC000 PLATE (2) 28199AC010 BOLT |
|  ST-927680000 | 927680000 | INSTALLER & REMOVER SET | Used for replacing transverse link bushing. |
|  ST-927760000 | 927760000 | STRUT MOUNT SOCKET | Used for disassembling and assembling strut and shock mount. |

2. GENERAL PURPOSE TOOLS

| TOOL NAME | REMARKS |
|----------------------|---------------------------------------|
| Alignment gauge | Used for wheel alignment measurement. |
| Turning radius gauge | Used for wheel alignment measurement. |
| Toe-in gauge | Used for toe-in measurement. |
| Dial gauge | Used for damper strut measurement. |