

# GENERAL DESCRIPTION

## FRONT SUSPENSION

### 1. General Description

#### A: SPECIFICATIONS

##### 1. STABILIZER

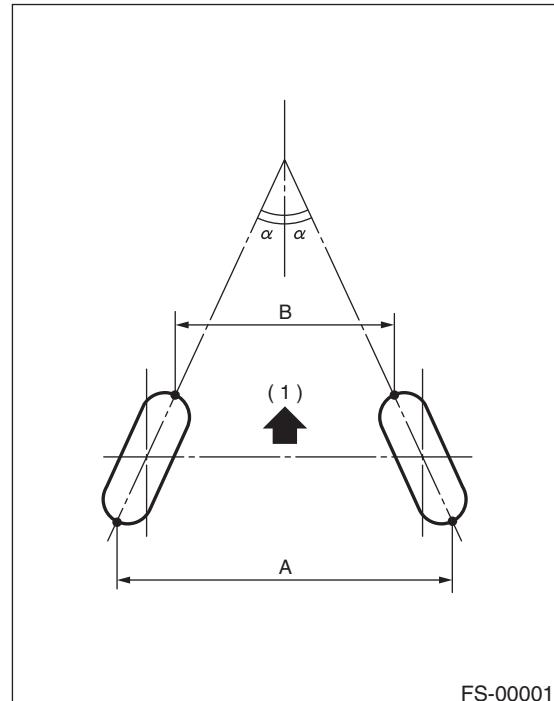
Model	Bar diameter.
ALL MODEL	20 mm (0.79 in)

### 2. WHEEL ALIGNMENT

Model	Sedan		Wagon		OUTBACK
	Turbo	Non-turbo	Turbo	Non-turbo	
Camber (tolerance: $\pm 0^{\circ}45'$ )	$-0^{\circ}25'$	$-0^{\circ}15'$	$-0^{\circ}20'$	$-0^{\circ}10'$	$-0^{\circ}05'$
Caster (common difference: $\pm 0^{\circ}45'$ )	$3^{\circ}35'$	$3^{\circ}25'$	$3^{\circ}35'$	$3^{\circ}25'$	$3^{\circ}25'$
Toe-in	$0\pm 3$ mm ( $0\pm 0.12$ in) Each toe angle: $\pm 0^{\circ}07'30''$ (Total toe angle: $\pm 0^{\circ}15'$ )				
Kingpin angle (tolerance: $\pm 0^{\circ}45'$ )	$14^{\circ}35'$	$14^{\circ}20'$	$13^{\circ}45'$	$13^{\circ}30'$	$13^{\circ}20'$
Wheel arch height [tolerance: +12 mm (+0.47 in) -24 mm (-0.94 in)]	396 mm (15.59 in)	406 mm (15.98 in)	387 mm (15.24 in)	397 mm (15.63 in)	402 mm (15.83 in)

#### NOTE:

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



(1) Front

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

$\alpha$  = Each toe angle

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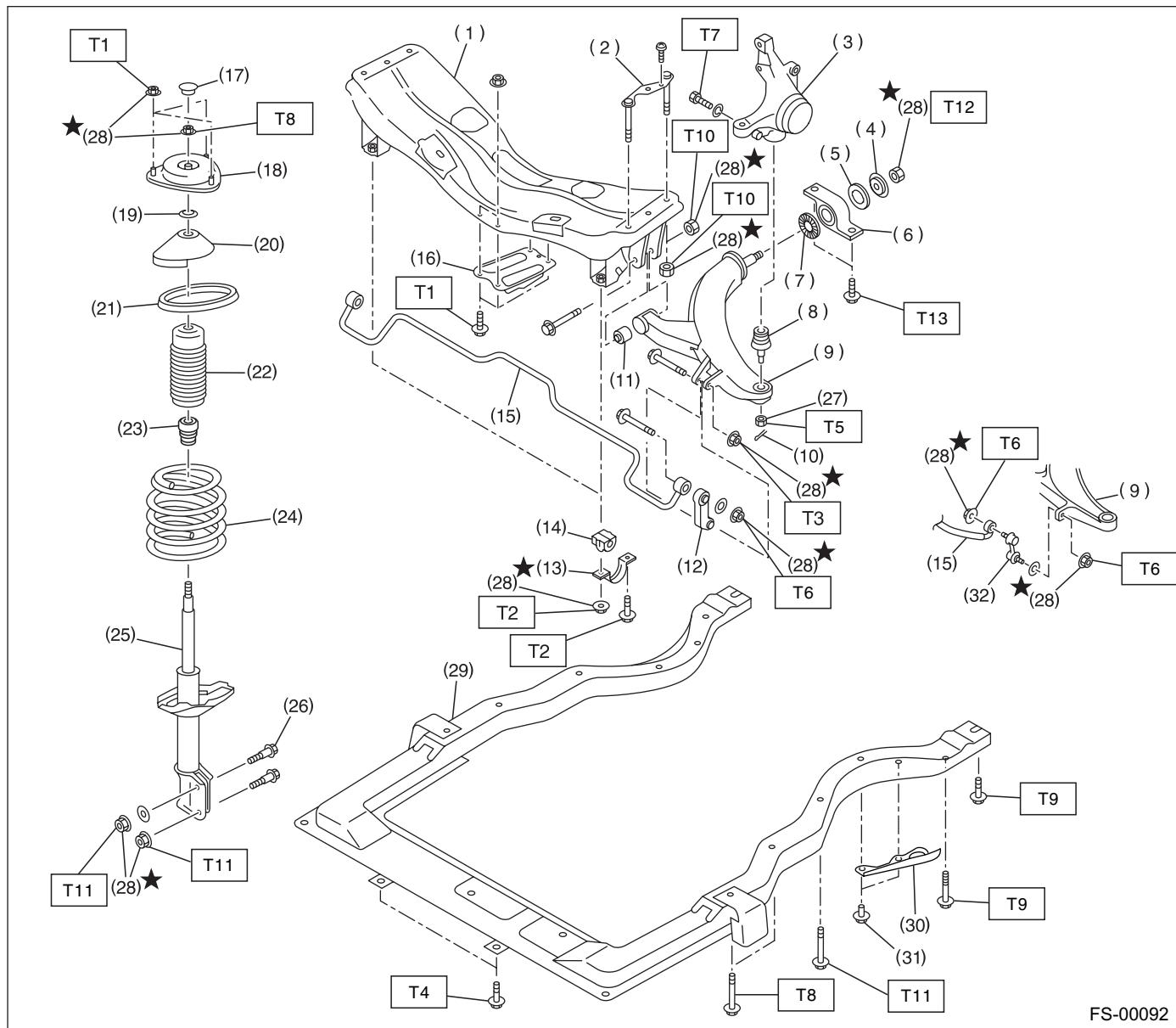
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### B: COMPONENT



FS-00092

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(1) Front crossmember	(17) Dust seal	<b>Tightening torque: N·m (kgf·m, ft·lb)</b>
(2) Bolt ASSY	(18) Strut mount	<b>T1: 20 (2.0, 14.5)</b>
(3) Housing	(19) Spacer	<b>T2: 25 (2.5, 18.1)</b>
(4) Washer	(20) Upper spring seat	<b>T3: 30 (3.1, 22)</b>
(5) Stopper rubber (Rear)	(21) Rubber seat	<b>T4: 34 (3.5, 25)</b>
(6) Rear bushing	(22) Dust cover	<b>T5: 40 (4.1, 30)</b>
(7) Stopper rubber (Front)	(23) Helper	<b>T6: 45 (4.6, 33)</b>
(8) Ball joint	(24) Coil spring	<b>T7: 50 (5.1, 37)</b>
(9) Transverse link	(25) Damper strut	<b>T8: 55 (5.6, 41)</b>
(10) Cotter pin	(26) Adjusting bolt	<b>T9: 71 (7.2, 52)</b>
(11) Front bushing	(27) Castle nut	<b>T10: 100 (10.2, 74)</b>
(12) Stabilizer link (Except sedan turbo model)	(28) Self-locking nut	<b>T11: &lt;Ref. to FS-17, INSPECTION, Sub Frame.&gt;</b>
(13) Clamp	(29) Sub frame	<b>T12: 175 (17.8, 129)</b>
(14) Bushing	(30) Cover	<b>T13: 190 (19.4, 140)</b>
(15) Stabilizer	(31) Clip	
(16) Jack-up plate	(32) Stabilizer link (Sedan turbo model)	<b>T14: 250 (25.5, 184)</b>

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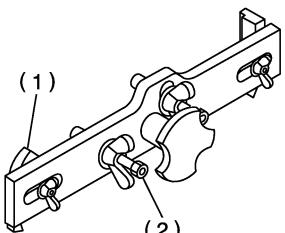
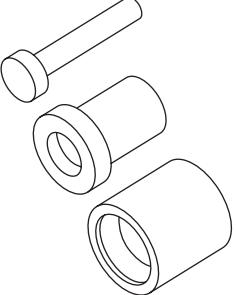
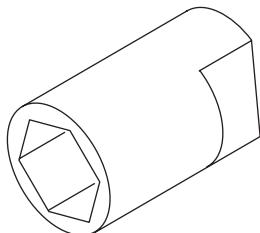
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#### C: CAUTION

- 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.

**D: PREPARATION TOOL****1. SPECIAL TOOLS**

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-927380001	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.