1. General Description

A: SPECIFICATION

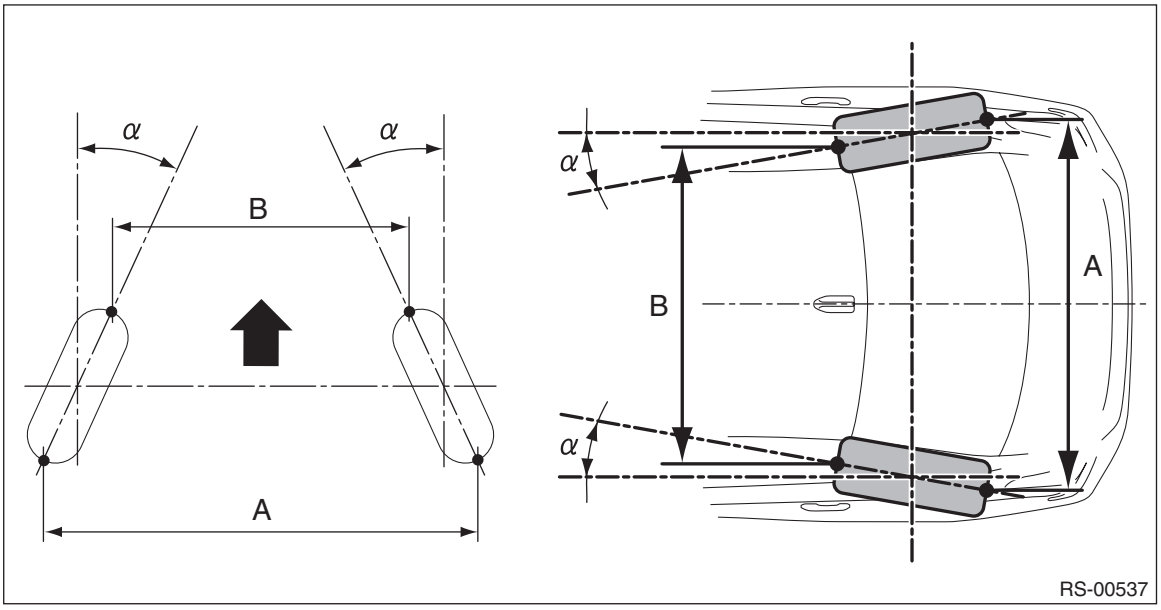
1. WRX MODEL

Tire size		235/45R17
Wheel arch height (Tolerance: $^{+12\ mm}_{-24\ mm}$ ($^{+0.47\ in}_{-0.94\ in}$))	mm (in)	367 (14.45)
Camber (tolerance: ±0°45′ Differences between RH and LH: 45′ or less)		–1°30′
Toe-in	mm (in)	IN3±3 (IN0.12±0.12)
		Toe angle (sum of both wheels): IN0°16′±16′
Thrust angle (tolerance: 0°00′±30′)		0°00′

2. STI MODEL

Tire size		245/40R18
Wheel arch height (Tolerance: $^{+12\ mm}_{-24\ mm}$ ($^{+0.47\ in}_{-0.94\ in}$))	mm (in)	362 (14.25)
Camber (tolerance: ±0°45′ Differences between RH and LH: 45′ or less)		–1°40′
Toe-in	mm (in)	IN3±3 (IN0.12±0.12)
		Toe angle (sum of both wheels): IN0°16′±16′
Thrust angle (tolerance: 0°00′±30′)		0°00′

NOTE:
• Front toe-in, rear toe-in and front camber can be adjusted. Adjust if the value of toe-in or camber exceeds the tolerance range of the specification chart.
• Other items except for front toe-in, rear toe-in and front camber that are described in the specification chart cannot be adjusted.
• If other items exceed the tolerance range of the specification chart, check the suspension parts and connections for deformation. If defective, replace with new parts.

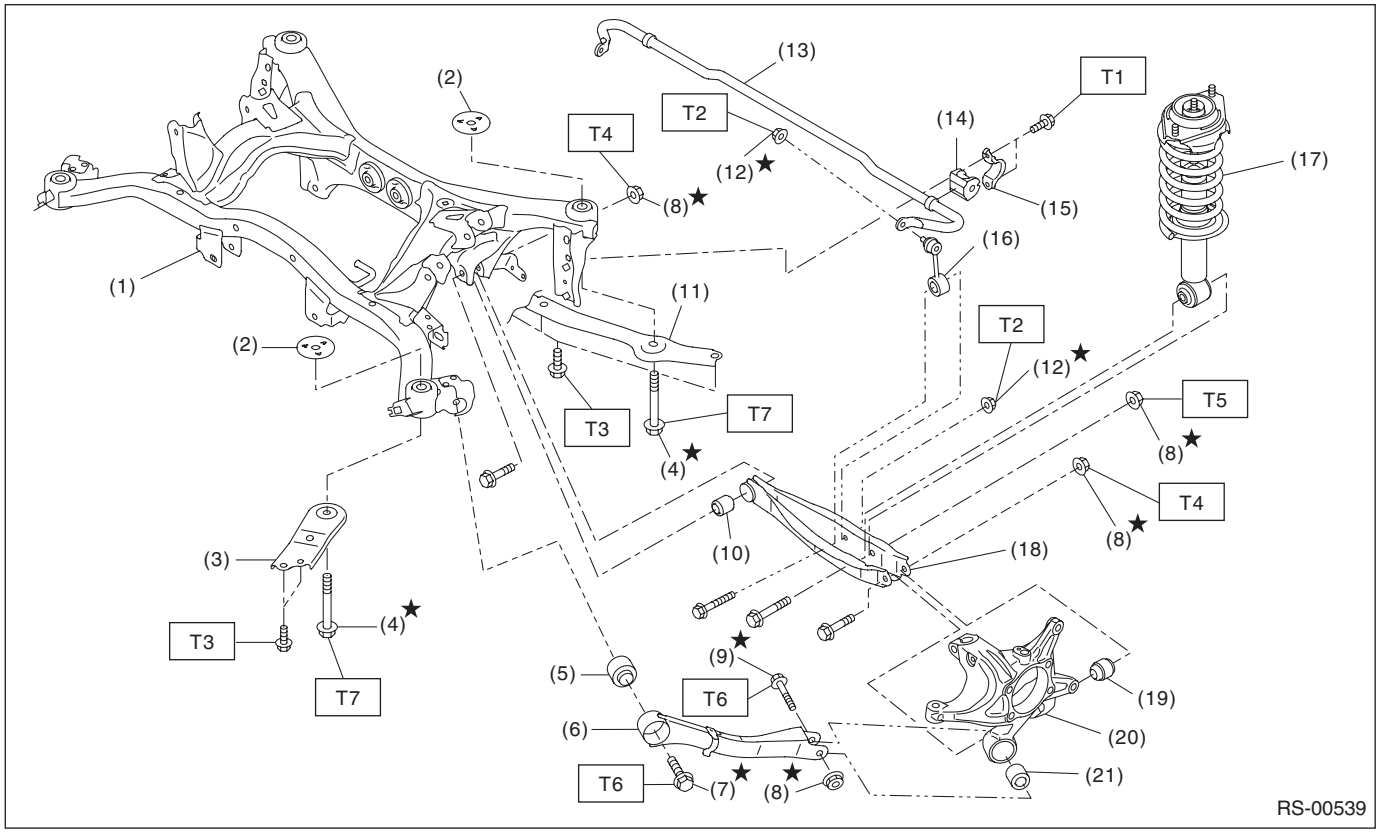


A – B = Positive: Toe-in, Negative: Toe-out

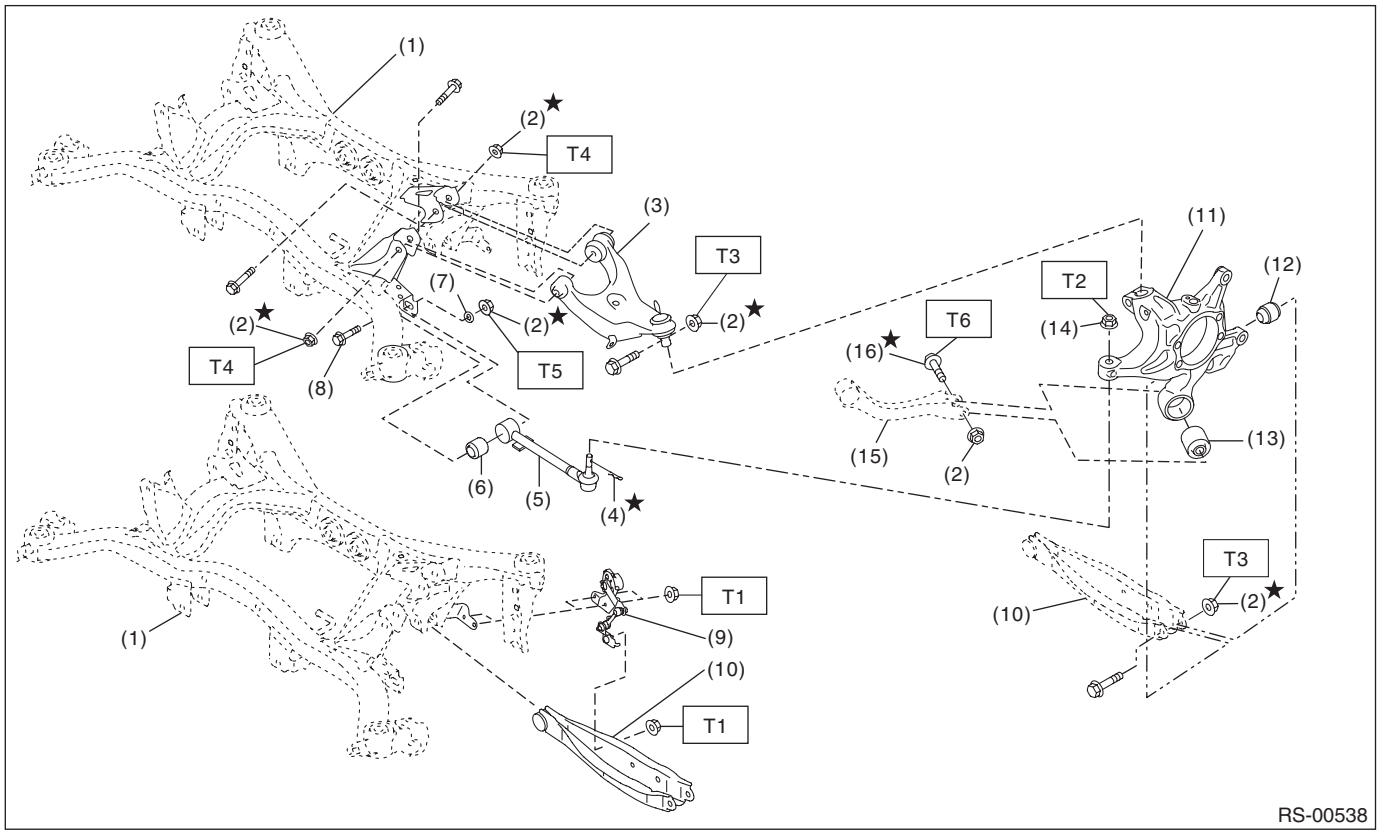
α = Individual toe angles

B: COMPONENT

1. REAR SUSPENSION

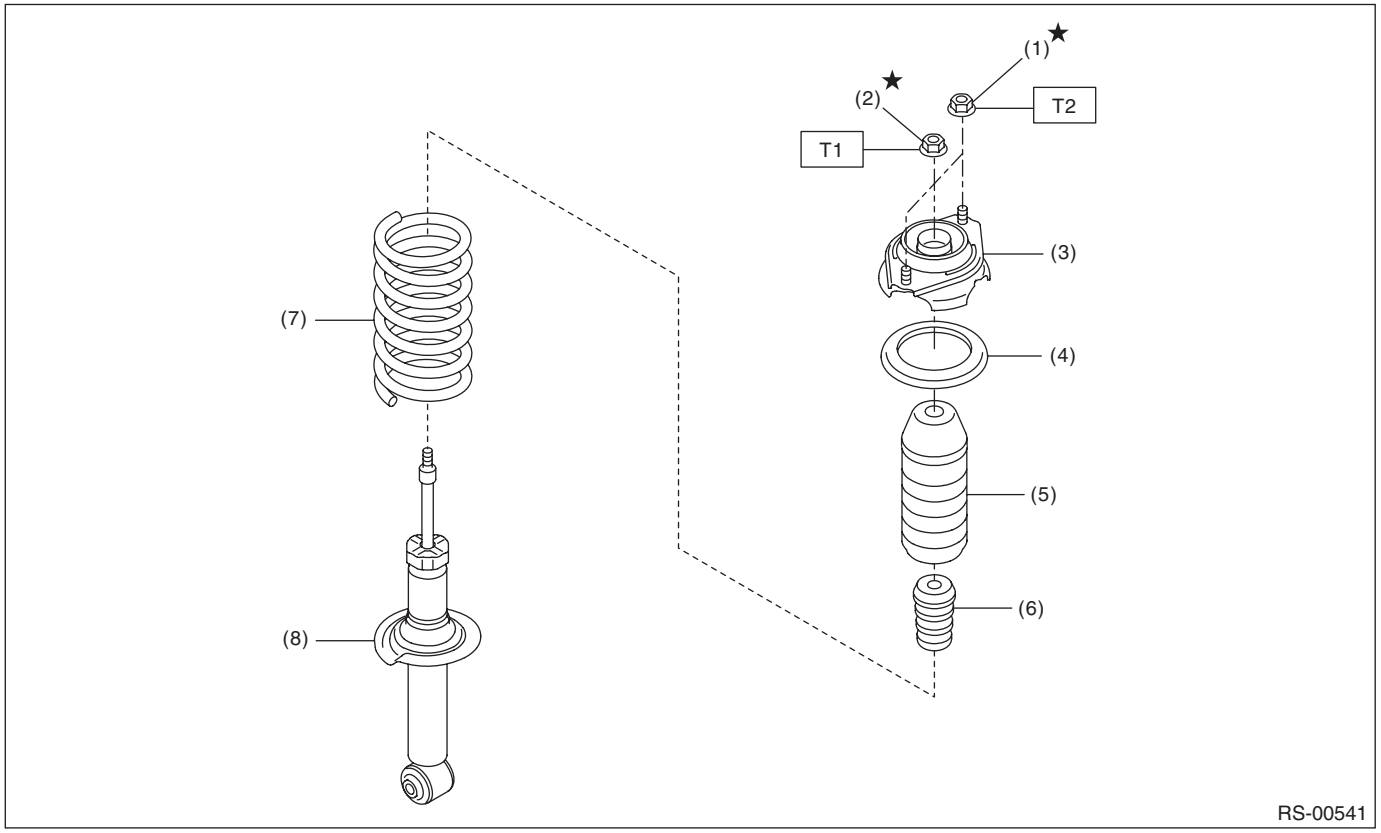


(1)	Rear sub frame ASSY	(11)	Rear support sub frame	(21)	Bushing - trailing link
(2)	Stopper UPR	(12)	Flange nut		
(3)	Support - sub frame	(13)	Rear stabilizer	***Tightening torque: N·m (kgf-m, ft-lb)***	
(4)	Flange bolt A	(14)	Bushing - stabilizer	***T1:***	***30 (3.1, 22.1)***
(5)	Bushing A - trailing link	(15)	Clamp - stabilizer bushing	***T2:***	***38 (3.9, 28.0)***
(6)	Trailing link	(16)	Stabilizer link ASSY	***T3:***	***70 (7.1, 51.6)***
(7)	Flange bolt B	(17)	Rear shock absorber ASSY	***T4:***	***80 (8.2, 59.0)***
(8)	Self-locking nut	(18)	Rear lateral link ASSY	***T5:***	***85 (8.7, 62.7)***
(9)	Flange bolt C	(19)	Bushing - rear axle housing	***T6:***	***110 (11.2, 81.1)***
(10)	Bushing C - lateral link rear	(20)	Housing ASSY - rear axle	***T7:***	***145 (14.8, 106.9)***



(1)	Rear sub frame ASSY	(9)	Sensor ASSY - headlight beam leveler (models with auto headlight beam leveler only)	***Tightening torque: N·m (kgf-m, ft-lb)***
(2)	Self-locking nut	(10)	Lateral link ASSY - rear	***T1: 7.5 (0.8, 5.5)***
(3)	Rear upper arm ASSY	(11)	Housing ASSY - rear axle	***T2: 60 (6.1, 44.3)***
(4)	Snap pin	(12)	Bushing - rear axle housing	***T3: 80 (8.2, 59.0)***
(5)	Lateral link ASSY - front	(13)	Bushing - trailing link	***T4: 90 (9.2, 66.4)***
(6)	Bushing B - lateral link	(14)	Flange nut	***T5: 100 (10.2, 73.8)***
(7)	Adjusting washer	(15)	Trailing link	***T6: 110 (11.2, 81.1)***
(8)	Adjusting bolt	(16)	Flange bolt	

2. REAR SHOCK ABSORBER



(1) Flange nut
(2) Self-locking nut
(3) Shock mount - rear
(4) Rubber seat - shock UPR
(5) Dust cover - rear shock
(6) Helper - rear
(7) Coil spring - rear
(8) Shock absorber COMPL - rear

Tightening torque: N·m (kgf-m, ft-lb)
T1: 25 (2.5, 18.4)
T2: 30 (3.1, 22.1)

C: CAUTION

• When performing any work, always wear work clothes, a work cap and protective shoes. Additionally, wear a helmet, protective goggles, etc. if necessary.
• When disposing of shock absorbers, be sure to bleed the oil or gas out completely. Also, do not expose to flames or fire.
• When performing a repair, identify the cause of trouble and avoid unnecessary removal, disassembly and replacement.
• Use SUBARU genuine grease, the recommended or equivalent. Do not mix grease etc. of different grades or manufacturers.
• Do not secure a part in a vise directly. Place cushioning materials such as wood blocks, aluminum plates, or waste cloth between the part and the vise.
• Be sure to tighten fasteners including bolts and nuts to the specified torque.
• Always use the jack-up point when the shop jacks or rigid racks are used to support the vehicle.
• When the suspension-related components have been removed/installed or replaced, perform “VDC sensor midpoint setting mode” of the VDC. <Ref. to VDC-16, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>
• For parts which are not reusable, always use new parts. Other parts should be replaced with new parts as required.
• When handling oil or fuel, adhere to the following to prevent unexpected accident.
  – Be careful with fire.
  – Prepare a container to catch grease or oil, etc. If any grease or oil spills, wipe it off and clean immediately to prevent from penetrating into floor or flowing outside.
  – Follow all government and local regulations concerning disposal of refuse when disposing.
• Be sure that the surface of brake disc or brake pad is free from grease or oil.
• Before disconnecting connectors of sensors or units, be sure to disconnect the ground cable from battery.
• Some vehicle components are extremely hot immediately after driving. Be wary of receiving burns from heated parts.

D: PREPARATION TOOL

1. SPECIAL TOOL

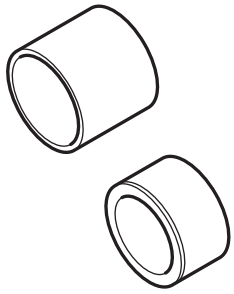
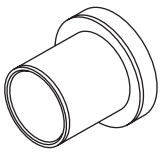
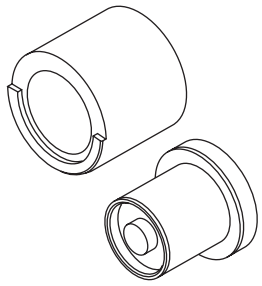
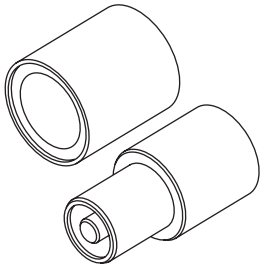
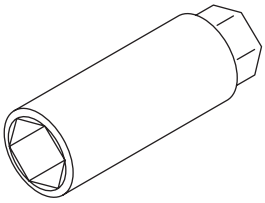
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST20099PA010	20099PA010	INSTALLER & REMOVER	• Used for replacing the bushing A - trailing link of the housing assembly - rear axle. • Used together with BUSHING REMOVER (20099FG000).
 ST20099FG000	20099FG000	BUSHING REMOVER	• Used for replacing the bushing A - trailing link of the housing assembly - rear axle. • Used together with base part of INSTALLER & REMOVER (20099PA000).

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST20099AE000	20099AE000	INSTALLER & REMOVER	Used for replacing the bushing B - lateral link.
 ST20099AE010	20099AE010	INSTALLER & REMOVER	Used for replacing the bushing C - lateral link.
 ST20399FG000	20399FG000	STRUT MOUNT SOCKET	• Used for disassembling and assembling strut assembly and shock absorber assembly. • Used for checking center nut torque of strut assembly and shock absorber assembly.

2. GENERAL TOOL

TOOL NAME	REMARKS
Alignment tester	Used for measuring wheel alignment.
Toe-in gauge	Used for toe-in measurement.
Jack	Used for removing and installing suspension.
Bearing puller	Used for removing bushings.
Tie-rod ball joint puller	Used for disconnecting the lateral link assembly - front.
Coil spring compressor	Used for disassembling and assembling strut assembly and shock absorber assembly.