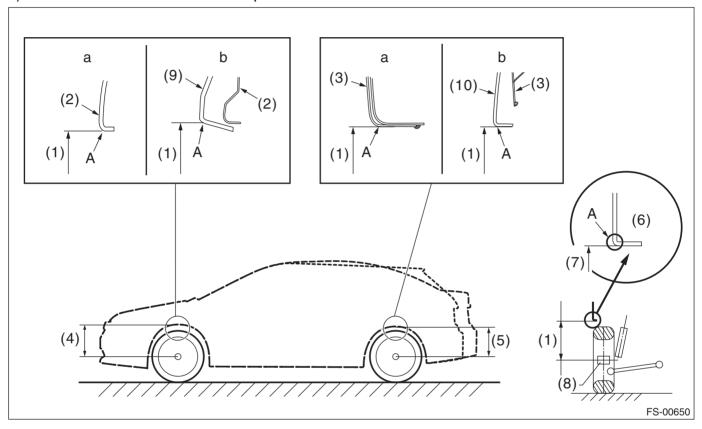
1. WHEEL ARCH HEIGHT

- 1) Park the vehicle on a level surface.
- 2) Empty the vehicle so that it is at "curb weight". (Empty the luggage compartment, load the spare tire, jack and service tools, and fill up the fuel tank.)
- 3) Set the steering wheel in a straight-ahead position, and stabilize the suspension by moving the vehicle in a straight line for 5 m (16 ft) or more.
- 4) Suspend a thread from the wheel arch (point "A" in the figure below) and affix at a position directly above the center of wheel.
- 5) Measure the distance between the point "A" and the center of wheel.



- a Except for XV model
- b XV model
- (1) Wheel arch height
- (5) Rear wheel arch height
- (9) Garnish fender (XV model)

(2) Front fender

- (6) Flange bend line
- (10) Garnish ASSY rear quarter (XV model)

(3) Rear quarter

(4)

- Front wheel arch height
- (7) Point of measurement
- (8) End of spindle

Wheel arch height specification mm (in) (tolerance: $^{+12 \text{ mm}}_{-24 \text{ mm}}$ ($^{+0.47 \text{ in}}_{-0.94 \text{ in}}$))		
	Except for XV model	XV model
Tire size	P195/65R15	P225/55R17
1116 3126	P205/55R16	225/55R17
	P205/50R17	220/001117
Front	387 (15.24)	452 (17.8)
Rear	368 (14.49)	450 (17.72)

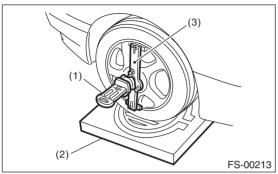
2. CAMBER

1) Place the front wheel on the turning radius gauge.

NOTE:

Make sure the ground contact surfaces of the front and rear wheels are at the same height.

2) Set the adapter into the center of wheel, and then set the wheel alignment gauge.

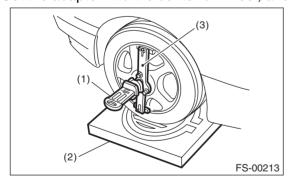


- (1) Alignment gauge
- (2) Turning radius gauge
- (3) Adapter
- 3) Measure the camber angle in accordance with the operation manual for wheel alignment gauge.

Tire	size	Camber (difference between RH and LH 45' or less)
Except for XV model	P195/65R15 P205/55R16 P205/50R17	-0°20′±0°45′
XV model	P225/55R17 225/55R17	0°10′±0°45′

3. CASTER

- 1) Place the front wheel on the turning radius gauge. Make sure the ground contact surfaces of the front and rear wheels are at the same height.
- 2) Set the adapter into the center of wheel, and then set the wheel alignment gauge.



- (1) Alignment gauge
- (2) Turning radius gauge
- (3) Adapter
- 3) Measure the caster angle in accordance with the operation manual for wheel alignment gauge.

Tire size	Caster
P195/65R15	
P205/55R16	6°01′
P205/50R17	
P225/55R17	5°58′
225/55R17	

4. STEERING ANGLE

- 1) Place the vehicle on turning radius gauge.
- 2) While depressing the brake pedal, turn the steering wheel fully to the left and right.
- 3) With the steering wheel held at each fully turned position, measure both the inner and outer wheel steering angles.

Tire size	Inner wheel	Outer wheel
P195/65R15 P205/55R16 P205/50R17	38.3°±1.5°	33.7°±1.5°
P225/55R17 225/55R17	38.5°±1.5°	34.0°±1.5°

5. FRONT WHEEL TOE-IN

Toe-in: Inspection value 0 ± 3 mm $(0\pm0.12$ in)

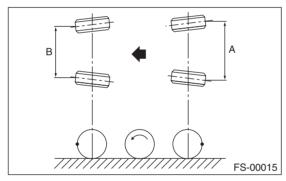
- 1) Set the toe-in gauge in the position at wheel axis center height behind the right and left front tires.
- 2) Place a mark at the center of both left and right tires, and measure distance "A" between the marks.
- 3) Move the vehicle forward to rotate the tires 180°.

NOTE:

Be sure to rotate the tires in the forward direction.

4) Measure the distance "B" between the left and right marks. Find toe-in using the following calculation:

A - B = Toe-in



6. REAR WHEEL TOE-IN

Refer to the FRONT WHEEL TOE-IN for rear toe-in inspection procedures. <Ref. to FS-10, FRONT WHEEL TOE-IN, INSPECTION, Wheel Alignment.>

Toe-in: Inspection value

Except for XV model: 3 ± 3 mm (0.12 \pm 0.12 in)

XV model: 0±3 mm (0±0.12 in)

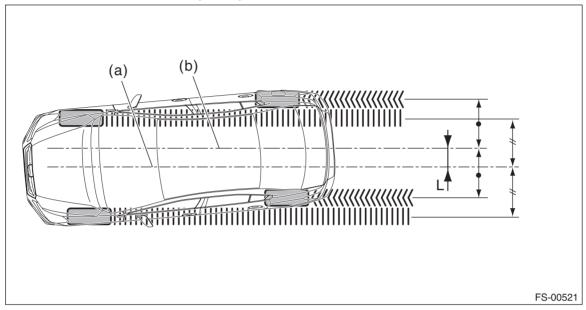
7. THRUST ANGLE

- 1) Park the vehicle on a level surface.
- 2) Move the vehicle 3 to 4 meters (10 to 13 feet) straight forward.
- 3) Draw the center of loci for both the front and rear axles.
- 4) Measure distance "L" between the center lines of the axle loci.

Thrust angle: Inspection value

0°±30′

Less than 30' when "L" is 23 mm (0.9 in) or less



- (a) Center line of loci (front axle)
- (b) Center line of loci (rear axle)

B: ADJUSTMENT

CAUTION:

When the wheel alignment has been adjusted, perform "VDC sensor midpoint setting mode" of the VDC. <Ref. to VDC-26, VDC SENSOR MIDPOINT SETTING MODE (MODELS WITHOUT EyeSight), ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

1. FRONT CAMBER

1) Adjust the camber angle to the following value.

Tire	size	Camber (difference between RH and LH 45' or less)
Except for XV model	P195/65R15 P205/55R16 P205/50R17	-0°20′±0°30′
XV model	P225/55R17 225/55R17	0°10′±0°30′

2) Loosen the two flange nuts located at the front lower section of the strut.

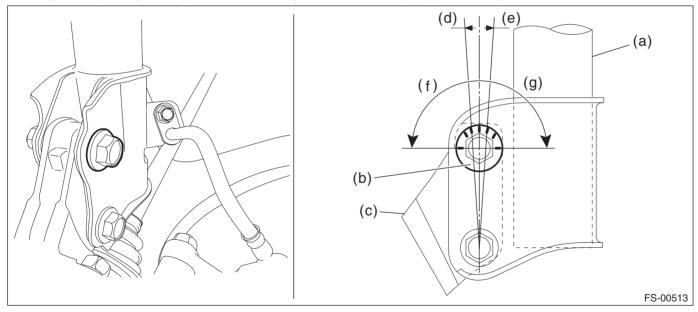
NOTE:

When the adjusting bolt needs to be loosened or tightened, hold its head with a wrench and turn the flange nut.

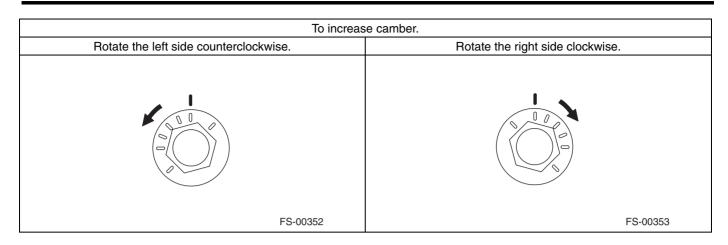
3) Turn the camber adjusting bolt so that the camber is set at specification.

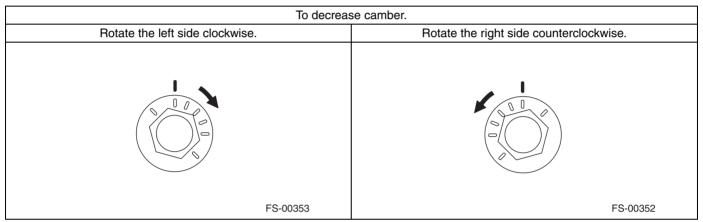
NOTE:

Moving the adjusting bolt by one scale changes the camber by approximately 0°15'.



- (a) Strut ASSY
- (b) Adjusting bolt
- (c) Housing ASSY front axle
- (d) Outer direction
- (e) Inner direction
- (f) Camber is increased.
- (g) Camber is decreased.





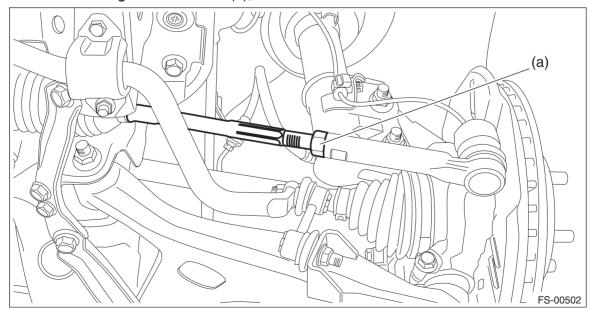
4) Tighten two new flange nuts.

Tightening torque:

155 N·m (15.81 kgf-m, 114.3 ft-lb)

2. STEERING ANGLE

- 1) Adjust the steering angle of both inner and outer wheels.
 - (1) Loosen the steering tie-rod lock nut (a), and rotate the tie-rod.



(2) Turn the tie-rod to adjust the steering angle of both inner and outer wheels.

(3) Tighten the steering tie-rod lock nut (a).

Tightening torque:

85 N·m (8.67 kgf-m, 62.7 ft-lb)

NOTE:

Check and correct the tie-rod boot if twisted.

2) Check the toe-in. <Ref. to FS-10, STEERING ANGLE, INSPECTION, Wheel Alignment.>

3. FRONT WHEEL TOE-IN

When adjusting the toe-in, adjust it to the following value. <Ref. to FS-13, STEERING ANGLE, ADJUST-MENT, Wheel Alignment.>

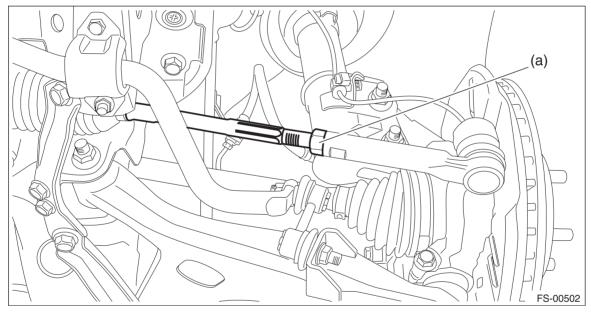
Toe-in: Adjustment value 0±2 mm (0±0.08 in)

- 1) Check that the left and right wheel steering angles are within specification.
- 2) Loosen the left and right side steering tie-rod lock nuts (a).
- 3) Turn the left and right tie-rods by equal amounts until the toe-in is at the specification.

NOTE:

Both the left and right tie-rods are right-hand threaded. To increase toe-in, turn both tie-rods clockwise by equal amount (viewing from the inside of vehicle).

4) Tighten the tie-rod lock nut (a).



Tightening torque:

85 N·m (8.67 kgf-m, 62.7 ft-lb)

5) Check and correct the tie-rod boot if twisted.

4. REAR WHEEL TOE-IN

When adjusting, adjust it to the following value.

Toe-in: Adjustment value

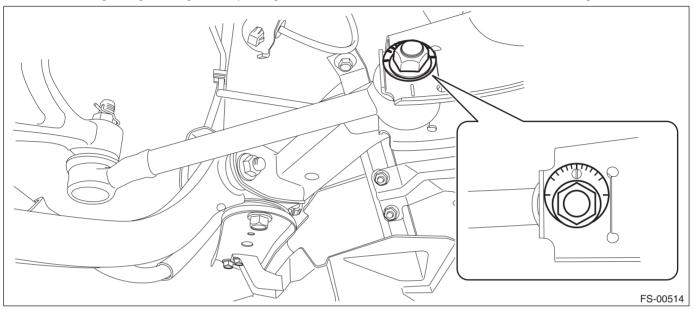
Except for XV model: 3±2 mm (0.12±0.08 in)

XV model: 0±2 mm (0±0.08 in)

1) Loosen the self-locking nut for the lateral link assembly - front.

NOTE:

When loosening or tightening the adjusting bolt, hold the bolt head and turn the self-locking nut.

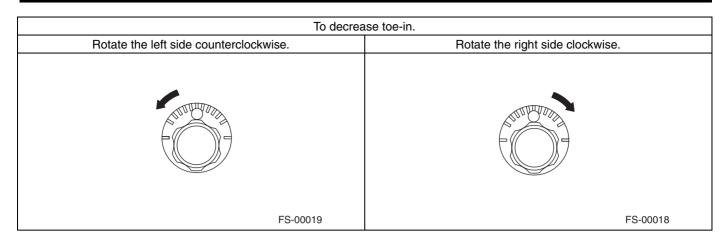


2) Turn the adjusting bolt until toe-in is within the specification.

NOTE:

When the left and right wheels are adjusted for toe-in at the same time, the movement of one scale graduation changes toe-in by approx. 1.3 mm (0.05 in).

To increase toe-in.	
Rotate the left side clockwise.	Rotate the right side counterclockwise.
FS-00018	FS-



3) Attach and tighten a new self-locking nut.

Tightening torque:

100 N·m (10.20 kgf-m, 73.8 ft-lb)

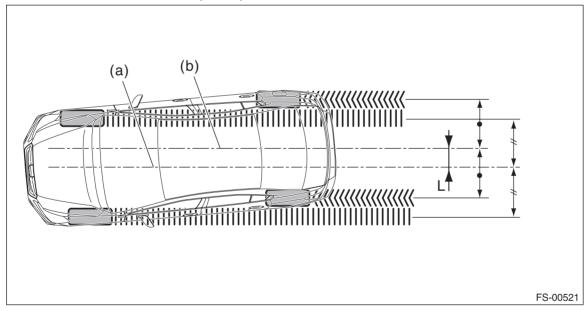
5. THRUST ANGLE

When adjusting, adjust it to the following value.

Thrust angle: Adjustment value

0°±20′

Less than 20' when "L" is 15 mm (0.6 in) or less

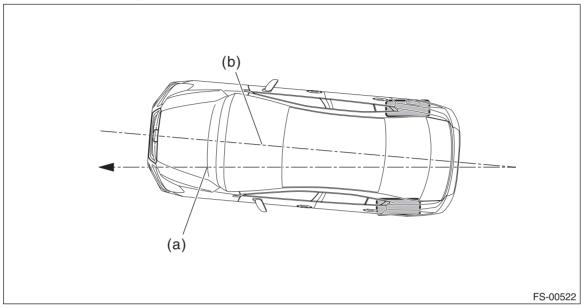


- (a) Center line of loci (front axle)
- (b) Center line of loci (rear axle)
- 1) Make thrust angle adjustments by turning the toe-in adjusting bolts of the rear suspension equally in the same direction.
- 2) When one rear wheel is adjusted in a toe-in direction, adjust the other rear wheel equally in toe-out direction, in order to make the thrust angle adjustment.

3) When the left and right adjusting bolts are turned by one graduation, the thrust angle will change approx. 15'. ("L" is approx. 11 mm (0.43 in)).

NOTE:

Thrust angle is a mean value of left and right wheel toe angles in relation to the vehicle body center line. Vehicle is driven straight in the thrust angle direction while slanting in the oblique direction depending on the degree of the mean thrust angle.



(a) Thrust angle

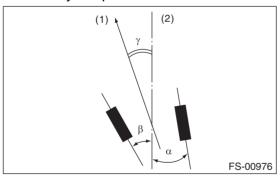
(b) Body center line

Thrust angle:

 $\gamma = (\alpha - \beta)/2$

- α : Rear RH wheel toe-in angle
- β: Rear LH wheel toe-in angle

Substitute only the positive toe-in values from each wheel into α and β in the calculation.



- (1) Front
- (2) Body center line