

<SUPPLEMENT-I>

# FRONT AXLE & FRONT SUSPENSION

## SECTION **FA**

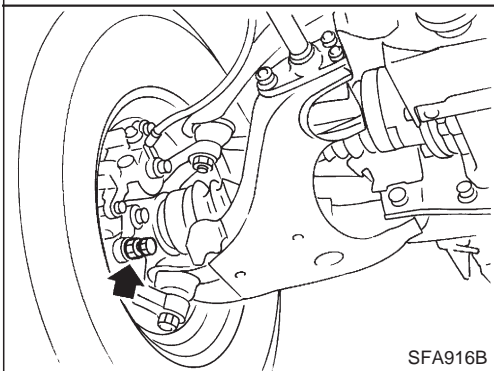
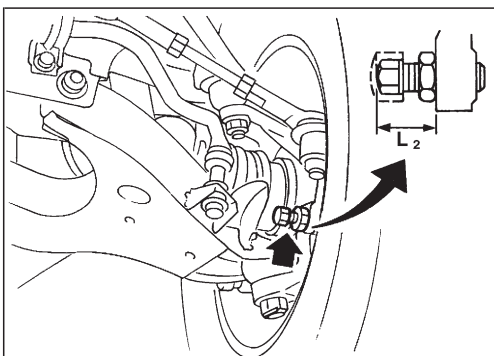
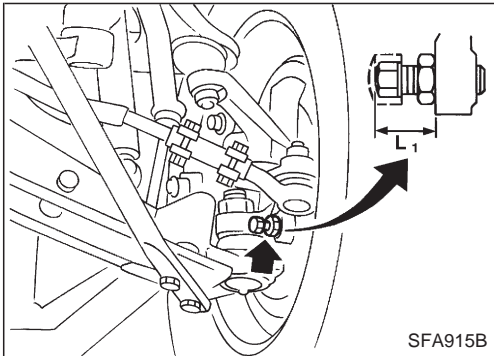
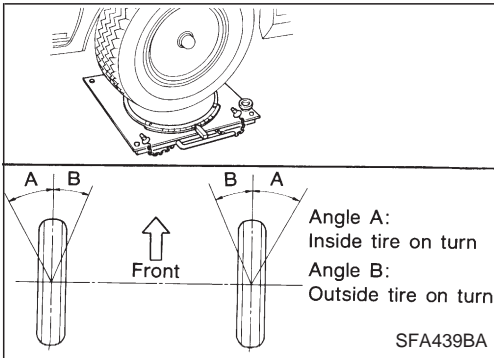
**MODIFICATION NOTICE:**

The front wheel turning angle for the 255/70R15 tire has been added.

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# ON-VEHICLE SERVICE



## Front Wheel Alignment

### FRONT WHEEL TURNING ANGLE

1. Set wheels in straight-ahead position. Then move vehicle forward until front wheels rest properly on turning radius gauge.
2. Rotate steering wheel all the way right and left; measure turning angle.
  - On power steering models, turn steering wheel to full lock and apply force (at circumference of steering wheel) of 98 to 147 N (10 to 15 kg, 22 to 33 lb) with engine at idle.
  - **Do not hold the steering wheel at full lock for more than 15 seconds.**

**Wheel turning angle (Full turn):**

**Refer to SDS, FA-1003.**

3. Adjust stopper bolt if necessary.

**Standard length "L<sub>1</sub>" (2WD):**

**20 mm (0.79 in)**

**Stopper bolt lock nut:**

**☐: 39 - 49 N-m (4.0 - 5.0 kg-m, 29 - 36 ft-lb)**

**Standard length "L<sub>2</sub>" (4WD):**

**Except 255/70R15 tire: 26.5 mm (1.043 in)**

**255/70R15 tire: 30.0 mm (1.181 in)**

**Stopper bolt lock nut:**

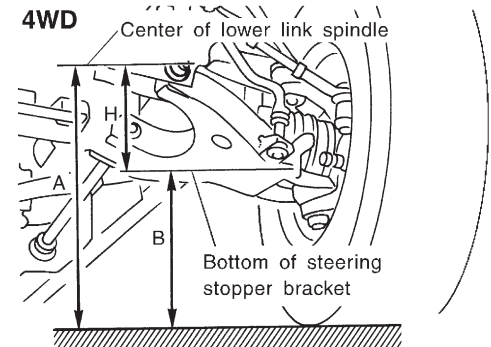
**☐: 76 - 98 N-m (7.8 - 10.0 kg-m, 56 - 72 ft-lb)**

# SERVICE DATA AND SPECIFICATIONS (SDS)

## Inspection and Adjustment

### 4WD

		Australia, Europe		Middle East, General Export	
		255/70R15 tire	Except 255/ 70R15 tire		
Camber	Degree minute (Decimal degree)	Minimum	0°06' (0.10°)		
		Nominal	0°36' (0.60°)		
		Maximum	1°06' (1.10°)		
		Left and right difference	45' (0.75°) or less		
Caster	Degree minute (Decimal degree)	Minimum	1°40' (1.67°)		
		Nominal	2°10' (2.17°)		
		Maximum	2°40' (2.67°)		
		Left and right difference	45' (0.75°) or less		
Kingpin inclination	Degree minute (Decimal degree)	Minimum	10°18' (10.30°)		
		Nominal	10°48' (10.80°)		
		Maximum	11°18' (11.30°)		
Total toe-in	Distance (A – B)  mm (in)	Radial tire	Minimum	3 (0.12)	
			Nominal	4 (0.16)	
			Maximum	5 (0.20)	
		Bias tire	Minimum	4 (0.16)	
			Nominal	5 (0.20)	
			Maximum	6 (0.24)	
	Angle (left plus right)  Degree minute (Decimal degree)	Radial tire	Minimum	15' (0.25°)	
			Nominal	20' (0.33°)	
			Maximum	25' (0.42°)	
		Bias tire	Minimum	20' (0.33°)	
			Nominal	25' (0.42°)	
			Maximum	30' (0.50°)	
Wheel turning angle	Inside  Degree minute (Decimal degree)	Minimum	31°00' (31.00°)	33°06' (33.10°)	33°18' (33.30°)
		Nominal	33°00' (33.00°)	35°06' (35.10°)	35°18' (35.30°)
		Maximum	33°00' (33.00°)	35°06' (35.10°)	35°18' (35.30°)
	Outside  Degree minute (Decimal degree)	Minimum	29°00' (29.00°)	31°12' (31.20°)	31°30' (31.50°)
		Nominal	31°00' (31.00°)	33°12' (33.20°)	33°30' (33.50°)
		Maximum	31°00' (31.00°)	33°12' (33.20°)	33°30' (33.50°)
Vehicle posture	Lower arm pivot height (H)	mm (in)	45.5 - 49.5 (1.791 - 1.949)		53.3 - 57.3 (2.098 - 2.256)



SFA816B

\*2: On power steering models, wheel turning force (at circumference of steering wheel) of 98 to 147 N (10 to 15 kg, 22 to 33 lb) with engine idle.