

FRONT AXLE & FRONT SUSPENSION

SECTION **FA**

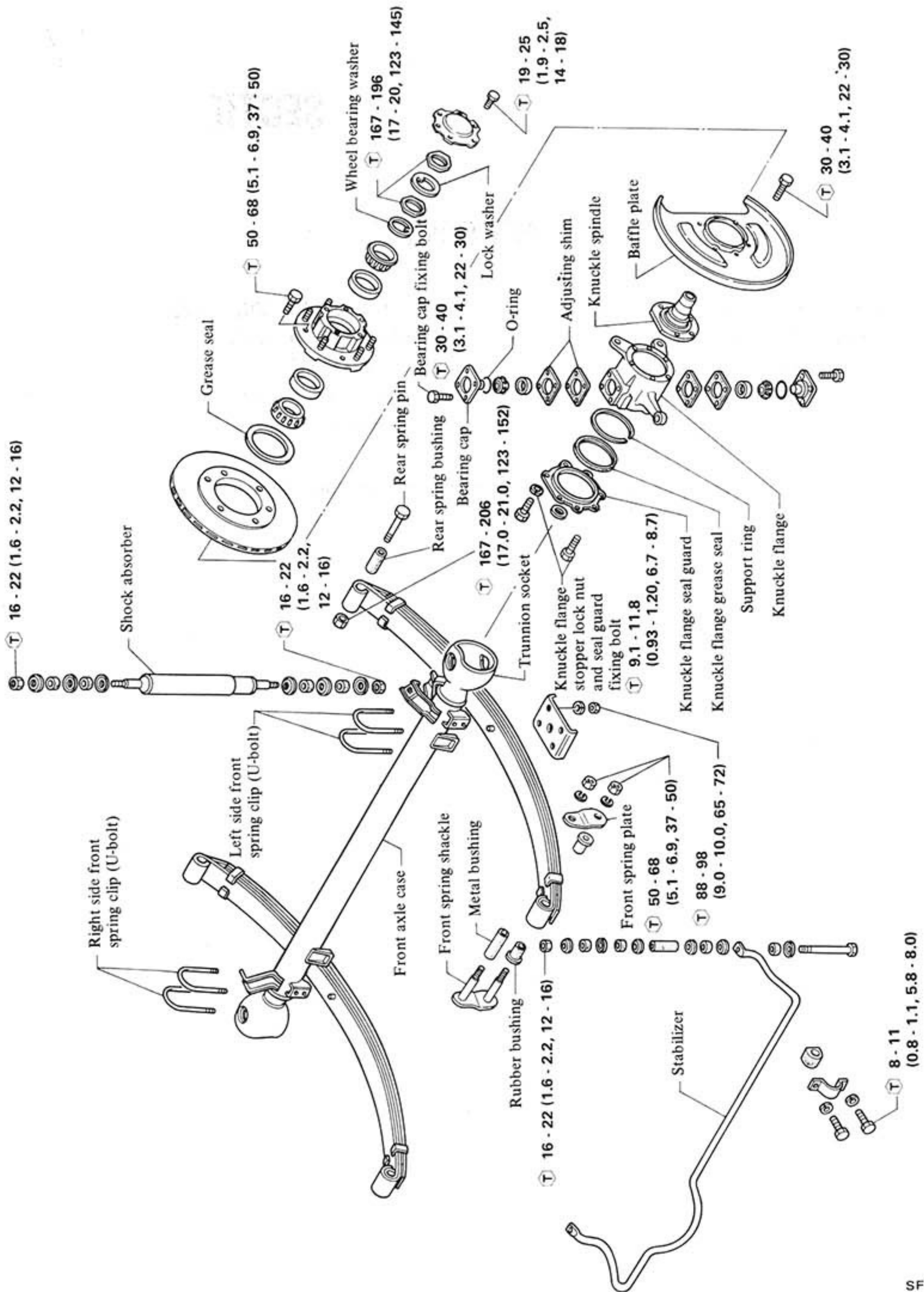
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4WD: Refer to Service Manual "NISSAN model 160 & 61 series
(Pub. No. SM4E-0160G0)".

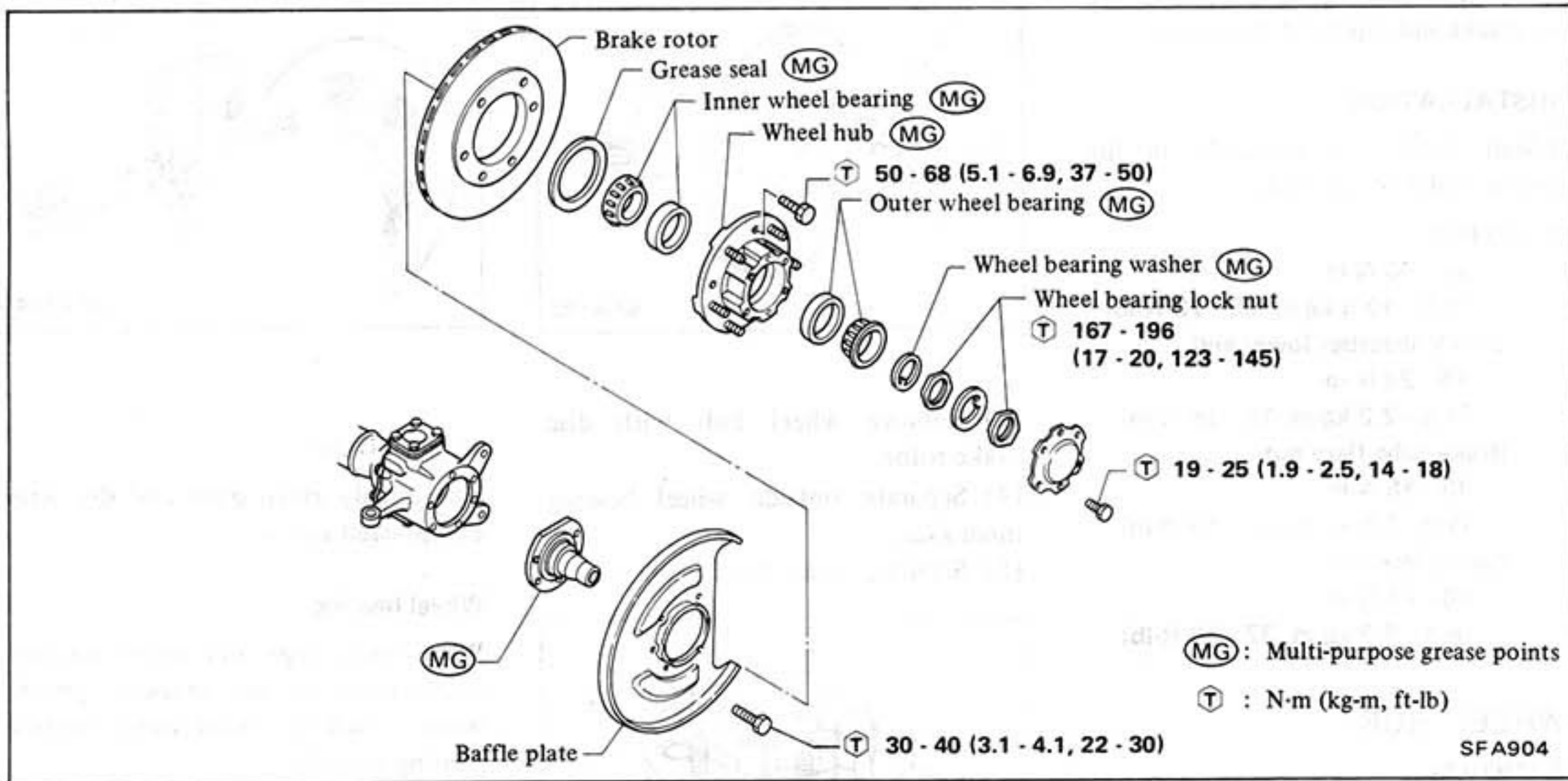
FA

FRONT AXLE AND FRONT SUSPENSION SYSTEM (2WD)



T : N·m (kg-m, ft-lb)

FRONT AXLE (2WD)



FRONT AXLE ASSEMBLY REMOVAL

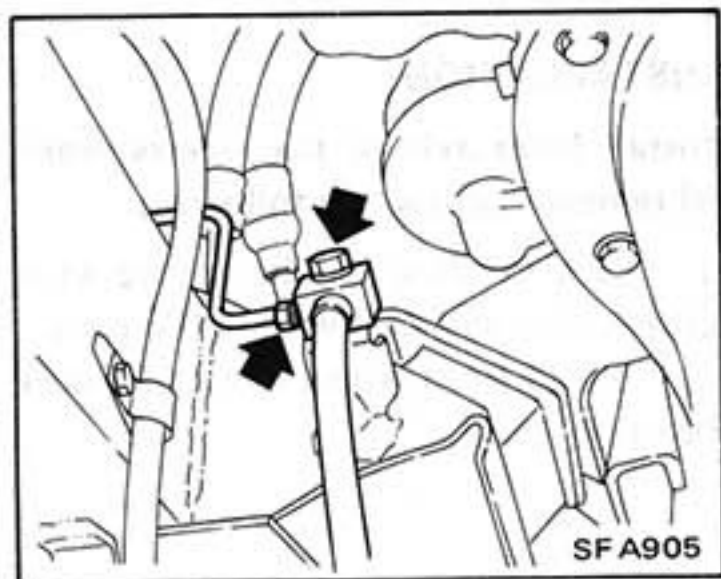
1 Block rear wheels with chocks and raise front of vehicle, then support it with safety stands.

Refer to section GI for lifting points and towing (4WD).

2. Remove wheel and tire assembly.
3. Disconnect brake tube.

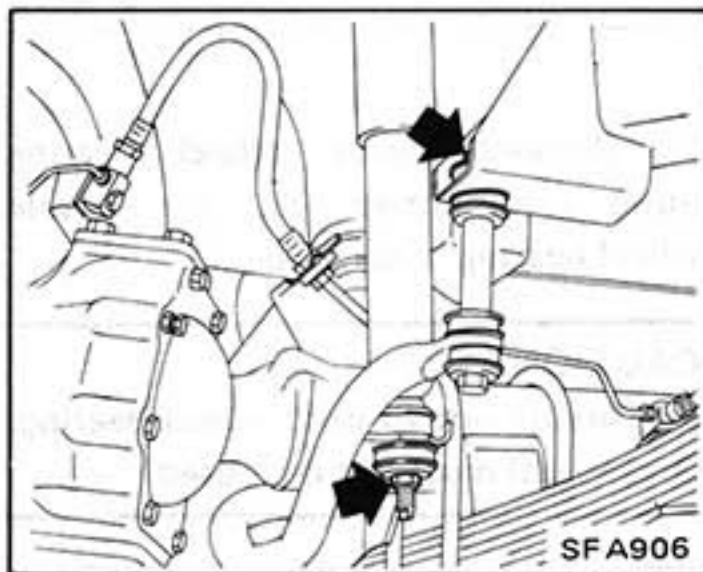
CAUTION:

When removing or installing brake tubes, use Tool GG94310000.



4. Jack up front suspension.

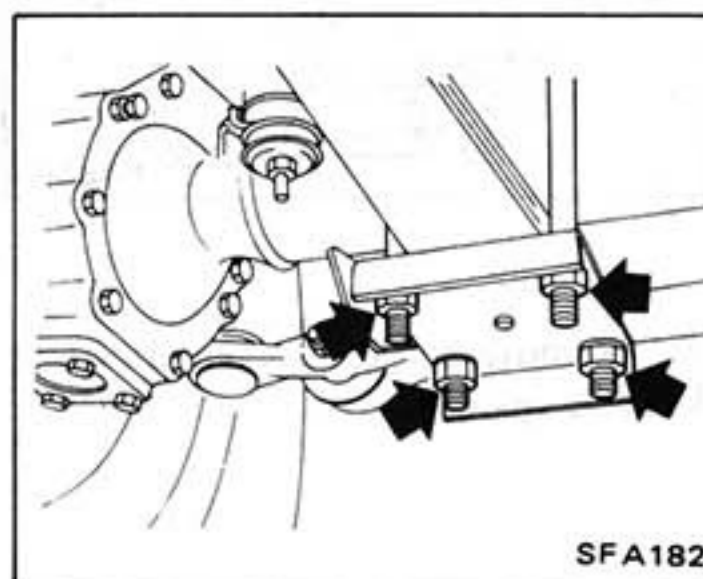
5. Disconnect shock absorber lower ends and remove the stabilizer bar connecting bolts.



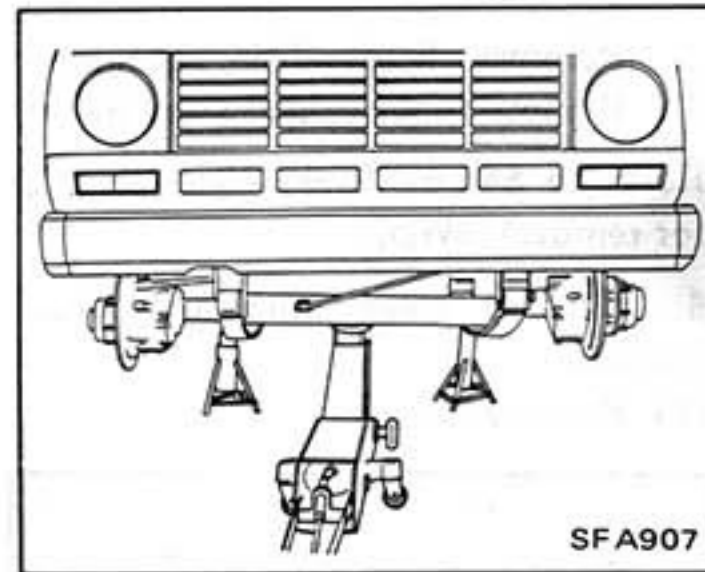
6. Disconnect tie rod ends.

Refer to section ST for disconnecting tie rod ends (4WD).

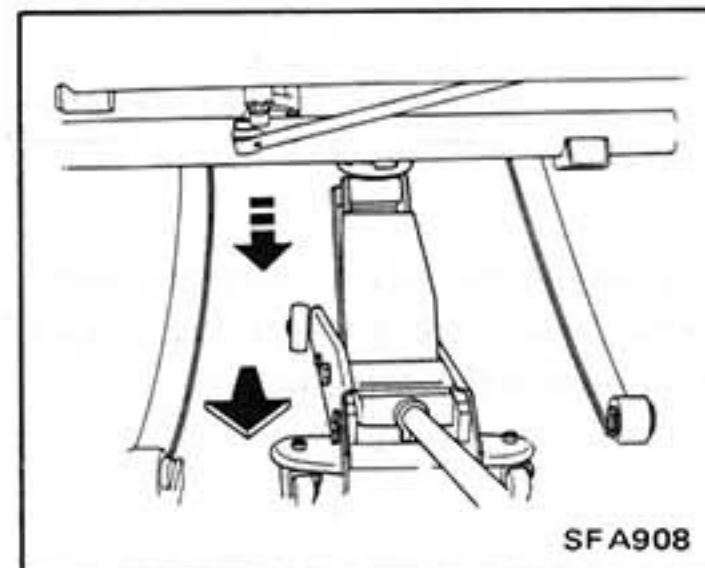
7. Remove U-bolts.



8. Support axle case with jack, then remove front shackle pins, and lower leaf springs.



9 Slowly lower jack, then pull axle case with jack towards front of the vehicle.



INSPECTION

Check axle case for yield, deformation or cracks and replace if necessary.

INSTALLATION

Install front axle assembly in the reverse order of removal.

T : U-bolt

88 - 98 N·m
(9.0 - 10.0 kg·m, 65 - 72 ft·lb)

Shock absorber lower end

16 - 22 N·m
(1.6 - 2.2 kg·m, 12 - 16 ft·lb)

Brake tube flare nut

15 - 18 N·m
(1.5 - 1.8 kg·m, 11 - 13 ft·lb)

Spring shackle

50 - 68 N·m
(5.1 - 6.9 kg·m, 37 - 50 ft·lb)

WHEEL HUB

REMOVAL

1. Block rear wheels with chocks and raise front of vehicle, and then support it with safety stands.

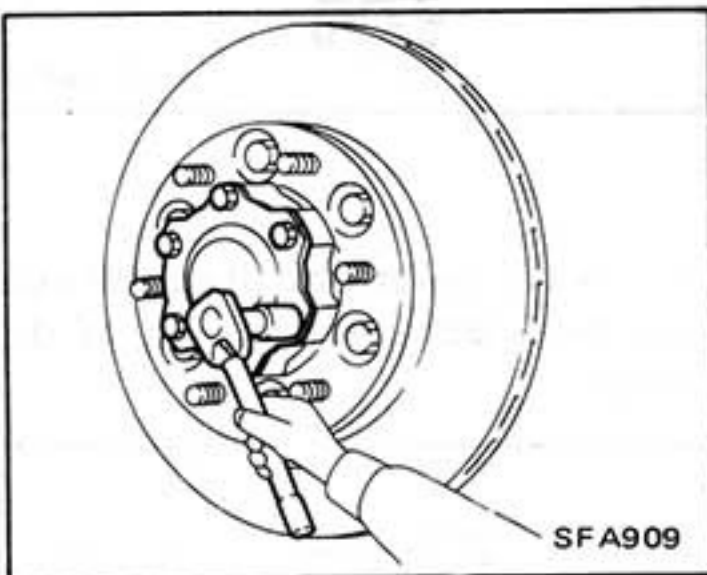
Refer to section GI for lifting points and towing (4WD).

2. Remove wheel and tire assembly.
3. Remove brake caliper assembly.

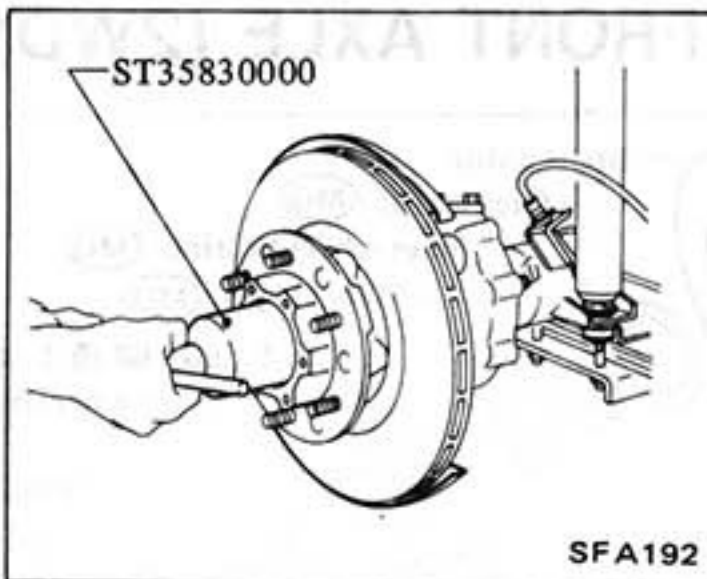
Refer to Service Brake (Section BR) for removal (4WD).

4. Remove wheel hub and wheel bearing.

(1) Remove hub cap.



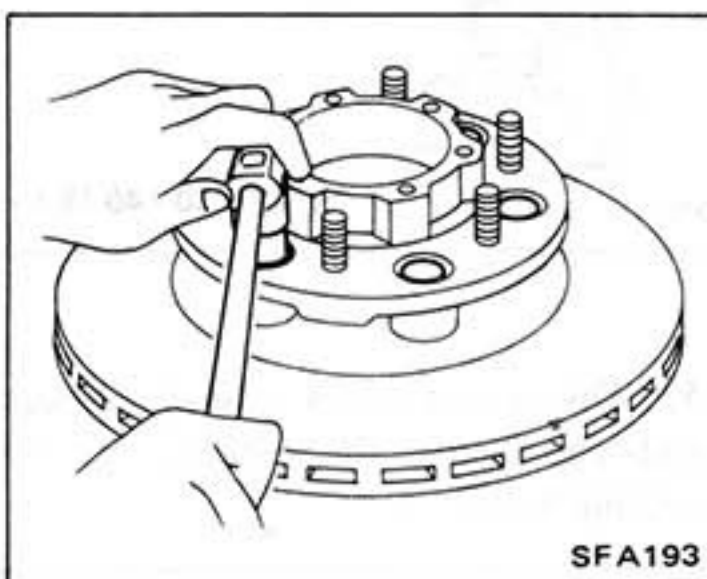
(2) Straighten lock washer and then, using Tool, remove wheel bearing lock nut and wheel bearing washer.



(3) Remove wheel hub with disc brake rotor.

(4) Separate outside wheel bearing inner race.

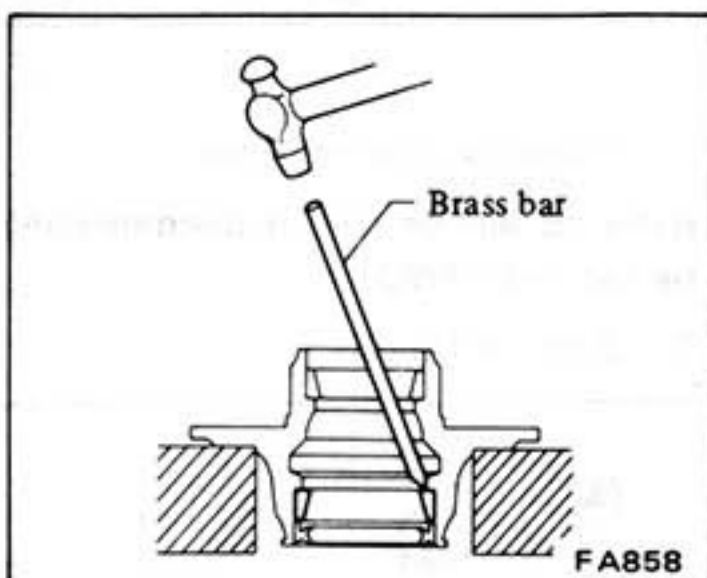
(5) Separate brake disc to hub.



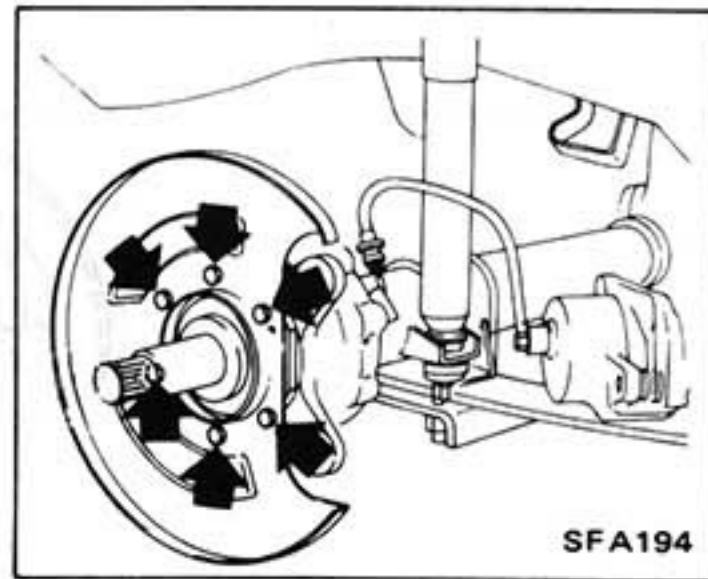
(6) Remove inside wheel bearing outer race, grease seal and outside wheel bearing outer race.

CAUTION:

Be careful not to drop wheel bearing. Grease seal must not be reused.



5. Remove baffle plate and draw out knuckle spindle.



INSPECTION

Thoroughly clean parts and dry with compressed air.

Wheel bearing

When race, cage and roller surfaces make noise or are cracked, pitted, worn, rough or out-of-round, replace bearing assembly.

Wheel hub

Check wheel hub for cracks by means of a magnetic exploration or dyeing test, replace if necessary.

Knuckle spindle

Also check wheel hub, replace if cracks or damage is found.

Grease seal

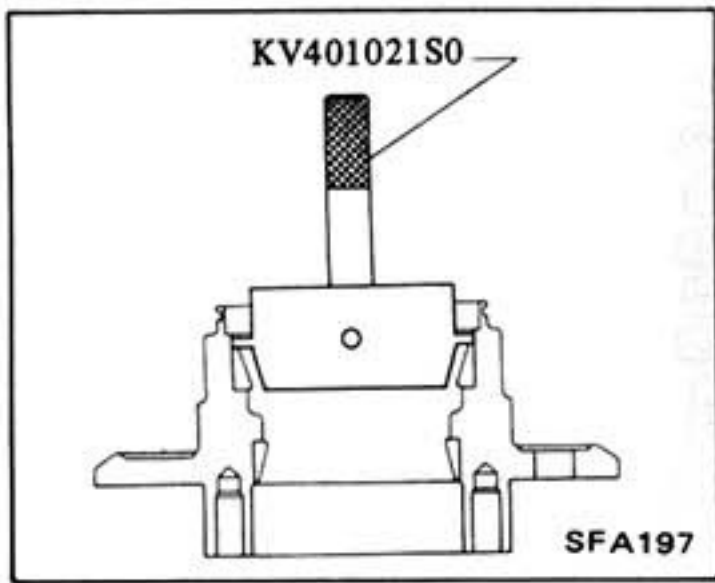
If grease leakage is detected during removal, replace grease seal. Replace grease seal at every disassembly even if it appears good.

INSTALLATION

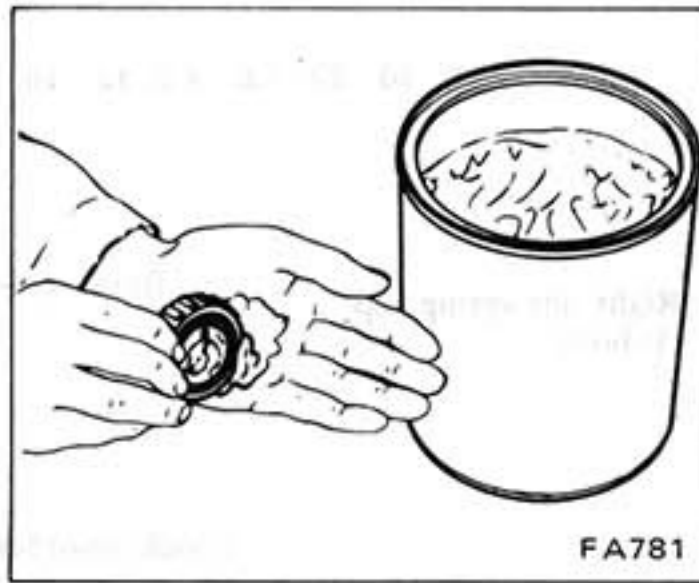
Install front axle in the reverse order of removal, noting the following:

1. Pack knuckle spindle groove with grease, then install it with baffle plate.
2. Install front wheel hub and wheel bearings.

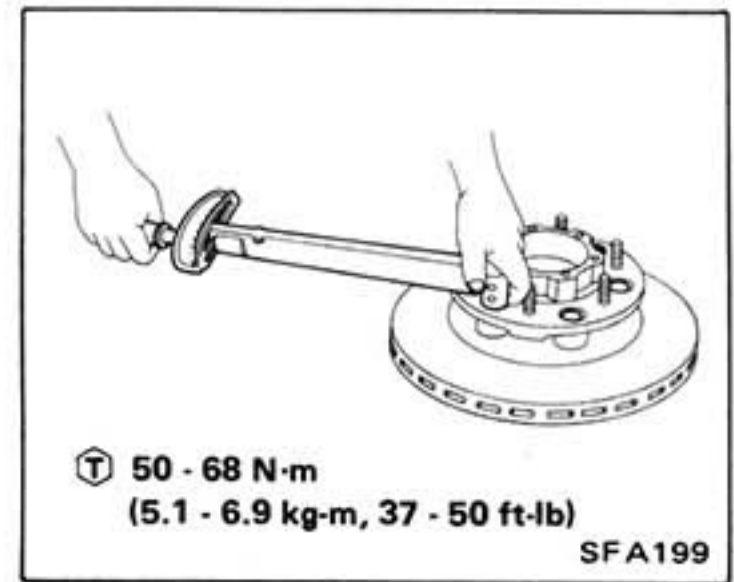
(1) Install bearing outer race using Tool.



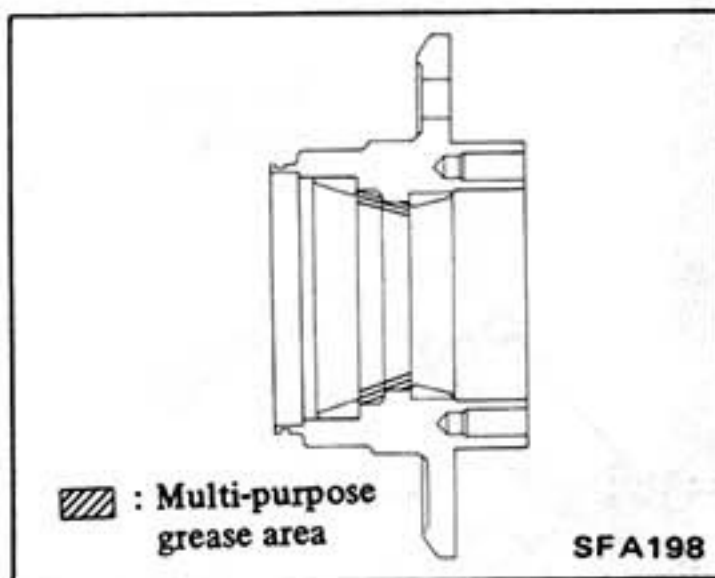
(3) Coat each bearing with recommended multi-purpose grease.



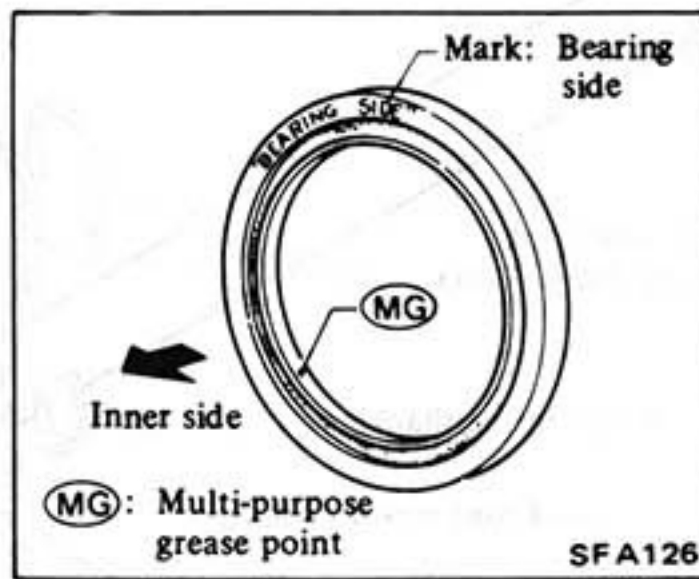
(5) Fix brake rotor to hub.



(2) Pack hub with recommended multi-purpose grease.



(4) Place inner bearing in hub and install a new grease seal, coating sealing lips with recommended multi-purpose grease.



(6) Sparingly apply recommended multi-purpose grease to each part.

- Threaded portion of spindle.
- Bearing washer to bearing contacting face.

(7) Put hub assembly on spindle and then install washer and wheel bearing lock nut.

(8) Install wheel bearing lock washer and other wheel bearing lock nut.

Refer to section MA for adjustment of wheel bearing pre-load (4WD).

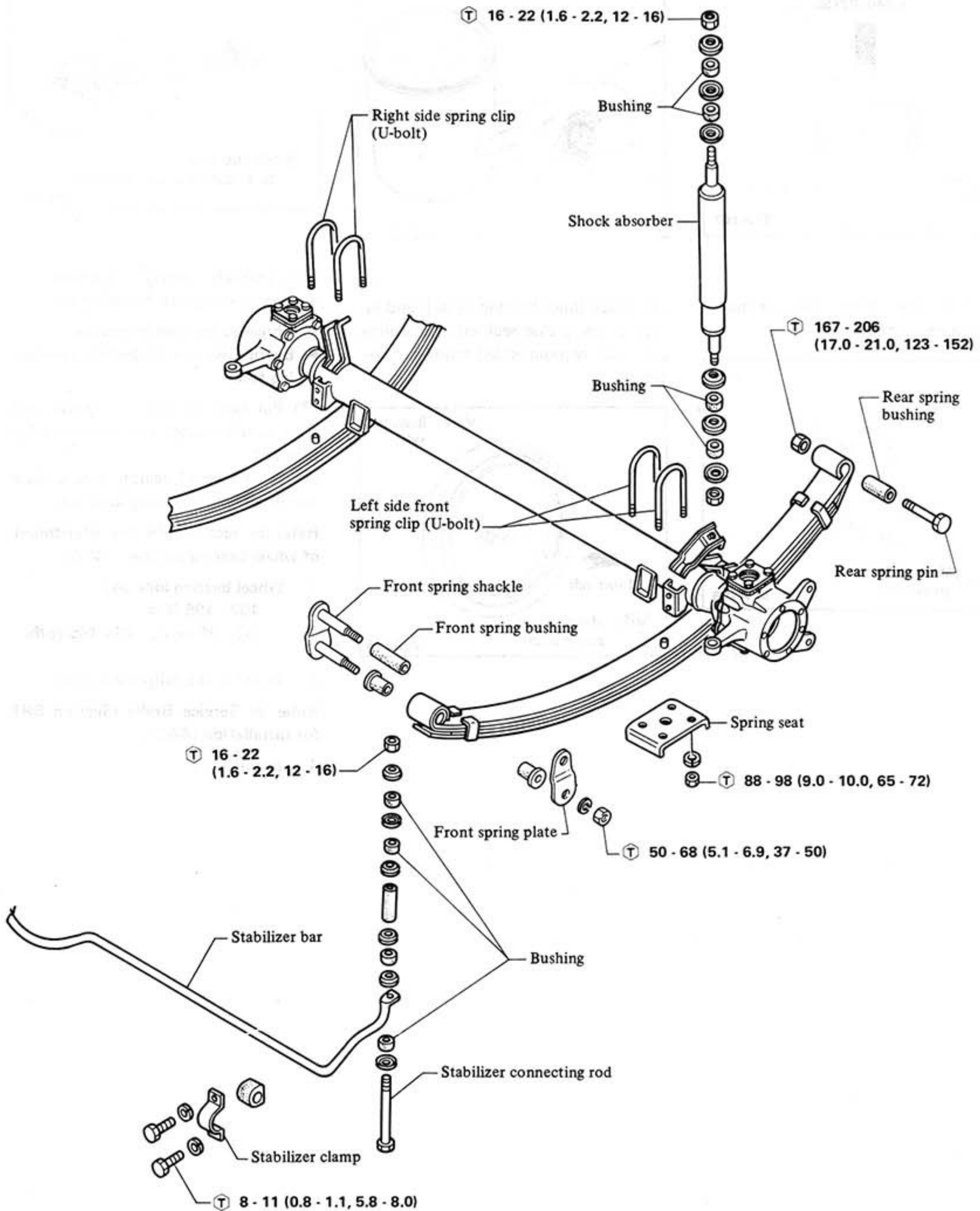
Ⓙ : Wheel bearing lock nut
167 - 196 N·m
(17 - 20 kg-m, 123 - 145 ft-lb)

3. Install brake caliper assembly.

Refer to Service Brake (Section BR) for installation (4WD).

4. Install wheel and tire.

FRONT SUSPENSION (2WD)



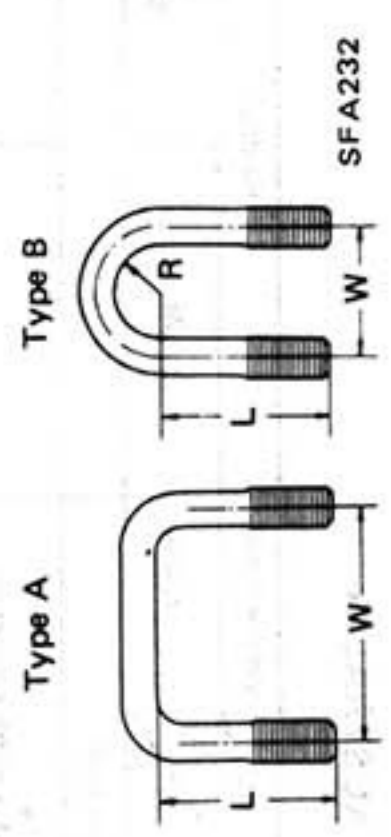
① : N·m (kg·m, ft·lb)

SFA910

SERVICE DATA AND SPECIFICATIONS

GENERAL SPECIFICATIONS FOR EUROPE

Item	Hardtop		Wagon	
	L28	SD33 SD33T	L28	SD33 SD33T
Vehicle model	L28	SD33 SD33T	L28	SD33 SD33T
Engine	L28	SD33 SD33T	L28	SD33 SD33T
Steering wheel	L.H.	R.H.	L.H.	R.H.
Suspension type	Parallel semi-elliptic leaf spring			
Leaf spring Length x width x thickness mm (in)	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-4			
-number of leaves	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-1			
R.H. side	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-4	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-1
L.H. side	1,100 x 60 x 10 (43.31 x 2.36 x 0.39)-1	1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1	1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-3	1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-3
Free camber	169.5 (6.67)			
R.H. side	169.5 (6.67)			
L.H. side	169.5 (6.67)			
Spring constant N/mm (kg/mm, lb/in)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)			
R.H. side	32.4 - 58.8 (3.3 - 6.0, 185 - 336)	32.4 - 58.8 (3.3 - 6.0, 185 - 336)	43.2 - 78.5 (4.4 - 8.0, 246 - 448)	48.1 - 88.3 (4.9 - 9.0, 274 - 504)
L.H. side	32.4 - 58.8 (3.3 - 6.0, 185 - 336)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	43.2 - 78.5 (4.4 - 8.0, 246 - 448)
Shock absorber	Double-acting hydraulic type			
Type	446 (17.56)			
Maximum length	2,010 (205, 452)			
Damping force (at 0.3 m (1.0 ft)/sec.)	686 (70, 154)			
Expansion	20 (0.79)			
Compression	85 x 73.5 (3.346 x 2.894)			
Stabilizer bar diameter	125 x 89 (4.92 x 3.50)			
U-bolt	137 x 89 (5.39 x 3.50)			
Type A R.H. Length (L) x width (W)	85 x 73.5 (3.346 x 2.894)			
Type B L.H. Length (L) x width (W)	137 x 89 (5.39 x 3.50)			



FOR AUSTRALIA

Item	Vehicle model		Wagon		Van		Pick-up
	Hardtop	Engine	SD33 SD33T	L28	SD33 SD33T	L28	
Suspension type Parallel semi-elliptic leaf spring							
Leaf spring Length x width x thickness mm (in) —number of leaves	R.H. side		1,100 x 60 x 6 (43.31 x 2.36 x 0.24)–3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)–1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)–1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)–1 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)–3 1,100 x 60 x 15 (43.31 x 2.36 x 0.59)–1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)–1 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)–3 1,100 x 60 x 16 (43.31 x 2.36 x 0.63)–1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)–1 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)–3 1,100 x 60 x 15 (43.31 x 2.36 x 0.59)–1	1,100 x 60 x 8 (43.31 x 2.36 x 0.31)–6
	L.H. side		1,100 x 60 x 6 (43.31 x 2.36 x 0.24)–4 1,100 x 60 x 10 (43.31 x 2.36 x 0.39)–1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)–3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)–1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)–1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)–1 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)–3 1,100 x 60 x 15 (43.31 x 2.36 x 0.59)–1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)–3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)–1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)–1	1,100 x 60 x 8 (43.31 x 2.36 x 0.31)–6
Free camber	mm (in)						
R.H. side	169.5 (6.67)						
L.H. side	169.5 (6.67)						
Spring constant	N/mm (kg/mm, lb/in)						
R.H. side	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	43.2 - 78.5 (4.4 - 8.0, 246 - 448)		48.1 - 88.3 (4.9 - 9.0, 274 - 504)		43.2 - 78.5 (4.4 - 8.0, 246 - 448)	63.8 (6.51, 364.6)
L.H. side	32.4 - 58.8 (3.3 - 6.0, 185 - 336)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)		43.2 - 78.5 (4.4 - 8.0, 246 - 448)		36.3 - 68.6 (3.7 - 7.0, 207 - 392)	63.8 (6.51, 364.6)
Shock absorber	Type						
	Double-acting hydraulic type						
Maximum length	mm (in)						
	446 (17.56)						
Damping force	[at 0.3 m (1.0 ft)/sec.]						
Expansion	N (kg, lb)						
	2,010 (205, 452)						
Compression	N (kg, lb)						
	686 (70, 154)						
Stabilizer bar diameter	mm (in)						
	23 (0.91)						
U-bolt	Type A R.H.						
Length (L) x width (W)	80 x 73.5 (3.150 x 2.894)		85 x 73.5 (3.346 x 2.894)		91 x 73.5 (3.583 x 2.894)		
Type B L.H.	mm (in)						
Length (L) x width (W)	125 x 89 (4.92 x 3.50)		137 x 89 (5.39 x 3.50)		125 x 89 (4.92 x 3.50)		143 x 89 (5.63 x 3.50)

SERVICE DATA AND SPECIFICATIONS

FOR MIDDLE EAST

Item	Vehicle model		Hardtop		Wagon		Van	Pick-up	Wagon	
	L28	P	L28	P	L28	P	P	P	L28	
Suspension type	Parallel semi-elliptic leaf spring									
Leaf spring	4-wheel drive									
Length x width x thickness --number of leaves	Parallel semi-elliptic leaf spring									
R.H. side	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-4 1,100 x 60 x 10 (43.31 x 2.36 x 0.39)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-1 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-3 1,100 x 60 x 15 (43.31 x 2.36 x 0.59)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-4 1,100 x 60 x 10 (43.31 x 2.36 x 0.39)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-7 1,100 x 60 x 10 (43.31 x 2.36 x 0.39)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-4 1,100 x 60 x 10 (43.31 x 2.36 x 0.39)-1
L.H. side	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-4 1,100 x 60 x 10 (43.31 x 2.36 x 0.39)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-1 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-3 1,100 x 60 x 15 (43.31 x 2.36 x 0.59)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-4 1,100 x 60 x 10 (43.31 x 2.36 x 0.39)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-7 1,100 x 60 x 10 (43.31 x 2.36 x 0.39)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-4 1,100 x 60 x 10 (43.31 x 2.36 x 0.39)-1
Free camber	169.5 (6.67)									
R.H. side	169.5 (6.67)									
L.H. side	169.5 (6.67)									
Spring constant	N/mm (kg/mm, lb/in)									
R.H. side	32.4 - 58.8 (3.3 - 6.0, 185 - 336)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	43.2 - 78.5 (4.4 - 8.0, 246 - 448)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	43.2 - 78.5 (4.4 - 8.0, 246 - 448)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	43.2 - 78.5 (4.4 - 8.0, 246 - 448)	52.2 (5.32, 297.9)	32.4 - 58.8 (3.3 - 6.0, 185 - 336)	52.2 (5.32, 297.9)
L.H. side	32.4 - 58.8 (3.3 - 6.0, 185 - 336)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	43.2 - 78.5 (4.4 - 8.0, 246 - 448)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	43.2 - 78.5 (4.4 - 8.0, 246 - 448)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	43.2 - 78.5 (4.4 - 8.0, 246 - 448)	52.2 (5.32, 297.9)	32.4 - 58.8 (3.3 - 6.0, 185 - 336)	52.2 (5.32, 297.9)
Shock absorber	Double-acting hydraulic type									
Type	446 (17.56)									
Maximum length	mm (in)									
Damping force	N (kg, lb)									
[at 0.3 m (1.0 ft)/sec.]	2,010 (205, 452)									
Expansion	N (kg, lb)									
Compression	686 (70, 154)									
Stabilizer bar diameter	mm (in)									
	20 (0.79)									
U-bolt	23 (0.91)									
Type A R.H.	80 x 73.5 (3.150 x 2.894)									
Length (L) x width (W)	85 x 73.5 (3.346 x 2.894)									
Type B L.H.	125 x 89 (4.92 x 3.50)									
Length (L) x width (W)	137 x 89 (5.39 x 3.50)									

SERVICE DATA AND SPECIFICATIONS

EXCEPT FOR EUROPE, AUSTRALIA AND MIDDLE EAST

Item	Hardtop			Wagon		
	L.H.	R.H.	SD33 SD33T	L28	L.H.	R.H.
Vehicle model						
Engine						
Steering wheel	L.H.	R.H.	R.H.	L.H.	R.H.	R.H.
Suspension type	Parallel semi-elliptic leaf spring					
Leaf spring						
Length x width x thickness mm (in)						
-number of leaves						
R.H. side	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-4 1,100 x 60 x 10 (43.31 x 2.36 x 0.39)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1 1,100 x 60 x 10 (43.31 x 2.36 x 0.39)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-1 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-3 1,100 x 60 x 15 (43.31 x 2.36 x 0.59)-1
L.H. side	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-4 1,100 x 60 x 10 (43.31 x 2.36 x 0.39)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-4 1,100 x 60 x 10 (43.31 x 2.36 x 0.39)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)-1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)-1 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)-3 1,100 x 60 x 15 (43.31 x 2.36 x 0.59)-1
Free camber	mm (in)					
R.H. side	169.5 (6.67)					
L.H. side	169.5 (6.67)					
Spring constant	N/mm (kg/mm, lb/in)					
R.H. side	32.4 - 58.8 (3.3 - 6.0, 185 - 336)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)				43.2 - 78.5 (4.4 - 8.0, 246 - 448)
L.H. side	32.4 - 58.8 (3.3 - 6.0, 185 - 336)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	32.4 - 58.8 (3.3 - 6.0, 185 - 336)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	43.2 - 78.5 (4.4 - 8.0, 246 - 448)	36.3 - 68.6 (3.7 - 7.0, 207 - 392)
Shock absorber	Type					
Type	Double-acting hydraulic type					
Maximum length	mm (in)					
Damping force	[at 0.3 m (1.0 ft)/sec.]					
Expansion	N (kg, lb)					
Compression	N (kg, lb)					
Stabilizer bar diameter	mm (in)					
U-bolt						
Type A R.H.	mm (in)					
Length (L) x width (W)	80 x 73.5 (3.150 x 2.894)					
Type B L.H.	mm (in)					
Length (L) x width (W)	125 x 89 (4.92 x 3.50)					

SERVICE DATA AND SPECIFICATIONS

EXCEPT FOR EUROPE, AUSTRALIA AND MIDDLE EAST

Item	Vehicle model	Van	Pick-up	Fire
Engine	SD33	SD33	SD33	P
Steering wheel	L.H.	R.H.	L.H. R.H.	L.H.
Suspension type	Parallel semi-elliptic leaf spring			
Leaf spring Length x width x thickness —number of leaves				
R.H. side	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)—3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)—1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)—1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)—1 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)—3 1,100 x 60 x 15 (43.31 x 2.36 x 0.59)—1	1,100 x 60 x 9 (43.31 x 2.36 x 0.35)—3	1,100 x 60 x 8 (43.31 x 2.36 x 0.31)—3
L.H. side	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)—3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)—1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)—1	1,100 x 60 x 6 (43.31 x 2.36 x 0.24)—3 1,100 x 60 x 7 (43.31 x 2.36 x 0.28)—1 1,100 x 60 x 12 (43.31 x 2.36 x 0.47)—1	1,100 x 60 x 9 (43.31 x 2.36 x 0.35)—3	1,100 x 60 x 8 (43.31 x 2.36 x 0.31)—3
Free camber				
R.H. side	169.5 (6.67)		123.0 (4.84)	104.2 (4.10)
L.H. side	169.5 (6.67)		123.0 (4.84)	104.2 (4.10)
Spring constant				
R.H. side	36.3 - 68.6 (3.7 - 7.0, 207 - 392)	43.2 - 78.5 (4.4 - 8.0, 246 - 448)	55.0 (5.61, 314.2)	105.9 (10.8, 605)
L.H. side	36.3 - 68.6 (3.7 - 7.0, 207 - 392)		55.0 (5.61, 314.2)	105.9 (10.8, 605)
Shock absorber				
Type	Double-acting hydraulic type			
Maximum length	446 (17.56)			
Damping force [at 0.3 m (1.0 ft)/sec.]				
Expansion	2,010 (205, 452)		1,667 (170, 375)	
Compression	686 (70, 154)		1,079 (110, 243)	
Stabilizer bar diameter	20 (0.79)			
U-bolt				
Type A R.H. Length (L) x width (W)	80 x 73.5 (3.150 x 2.894)	85 x 73.5 (3.346 x 2.894)	73 x 73.5 (2.874 x 2.894)	91 x 73.5 (3.583 x 2.894)
Type B L.H. Length (L) x width (W)	125 x 89 (4.92 x 3.50)		120 x 89 (4.72 x 3.50)	137 x 89 (5.39 x 3.50)

SERVICE DATA AND SPECIFICATIONS

TIGHTENING TORQUE

Item	N·m	kg·m	ft·lb
Wheel hub			
Wheel hub to rotor disc	50 - 68	5.1 - 6.9	37 - 50
Drive flange fixing bolt	43 - 58	4.4 - 5.9	32 - 43
Drive flange stud nut	43 - 58	4.4 - 5.9	32 - 43
Hub cap fixing bolt (2WD)	19 - 25	1.9 - 2.5	14 - 18
Wheel bearing lock nut	167 - 196	17 - 20	123 - 145
Wheel nut	118 - 147	12 - 15	87 - 108
Knuckle flange			
Flange stopper lock nut	9.1 - 11.8	0.93 - 1.20	6.7 - 8.7
Seal guard fixing bolt	9.1 - 11.8	0.93 - 1.20	6.7 - 8.7
Bearing cap fixing bolt	30 - 40	3.1 - 4.1	22 - 30
Flange to knuckle spindle	30 - 40	3.1 - 4.1	22 - 30
Flange to tie rod	46 - 54	4.7 - 5.5	34 - 40
Flange to torque arm	108 - 147	11 - 15	80 - 108
Flange to back plate			
Disc brake	30 - 40	3.1 - 4.1	22 - 30
Drum brake	30 - 40	3.1 - 4.1	22 - 30
Torque arrester fixing nut	16 - 22	1.6 - 2.2	12 - 16
Drain plug	59 - 98	6.0 - 10.0	43 - 72
Filler plug	39 - 59	4.0 - 6.0	29 - 43
Shock absorber			
Shock absorber to axle case	16 - 22	1.6 - 2.2	12 - 16
Piston rod self-locking nut	16 - 22	1.6 - 2.2	12 - 16
Stabilizer bar			
Stabilizer bar clamp to axle case	8 - 11	0.8 - 1.1	5.8 - 8.0
Stabilizer bar to frame	16 - 22	1.6 - 2.2	12 - 16
Leaf spring			
U-bolt to spring seat			
• Green colored nut	108 - 118	11.0 - 12.0	80 - 87
• Except green colored nut	88 - 98	9.0 - 10.0	65 - 72
Rear spring pin nut	167 - 206	17.0 - 21.0	123 - 152
Spring shackle nut			
Spring side	50 - 68	5.1 - 6.9	37 - 50
Frame side	50 - 68	5.1 - 6.9	37 - 50
Bound bumper			
Bound bumper to frame	16 - 22	1.6 - 2.2	12 - 16
Free-running hub			
Free-running hub to wheel hub	54 - 59	5.5 - 6.0	40 - 43
Steering stopper bolt	9.1 - 11.8	0.93 - 1.2	6.7 - 8.7
Propeller shaft to companion flange	78 - 88	8.0 - 9.0	58 - 65
Brake tube flare nut	15 - 18	1.5 - 1.8	11 - 13
Brake hose connector	17 - 20	1.7 - 2.0	12 - 14
Wheel cylinder air bleeder	7 - 9	0.7 - 0.9	5.1 - 6.5