# FRONT AXLE & FRONT SUSPENSION

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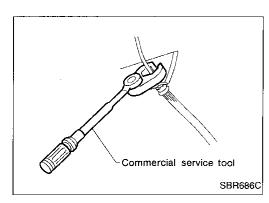
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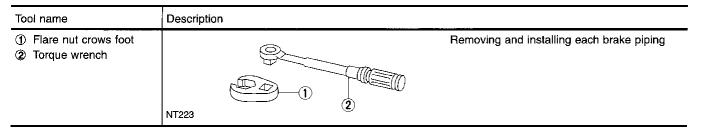
#### Precautions

- When installing rubber parts, final tightening must be carried out under unladen condition\* with tires on ground.
  - \* Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.
- After installing removed suspension parts, check wheel alignment and adjust if necessary.
- Use flare nut wrench when removing or installing brake lines.
- Always torque brake lines when installing.

# **Special Service Tools**

Tool number (Kent-Moore No.) Tool name	Description		
HT72750000 (J24319-01) Ball joint remover	NT146	PALP	Removing tie-rod outer end and lower ball joint
HT71780000 ( — ) Spring compressor	NT144	of the line	Removing and installing coil spring
ST35652000 ( — ) Shock absorber attachment	NT145		Fixing shock absorber
ST30031000 (J22912-01) Bearing inner race puller		a de la construcción de la const	Removing bearing inner race
	NT412	A K	a: 50 mm (1.97 in) dia.

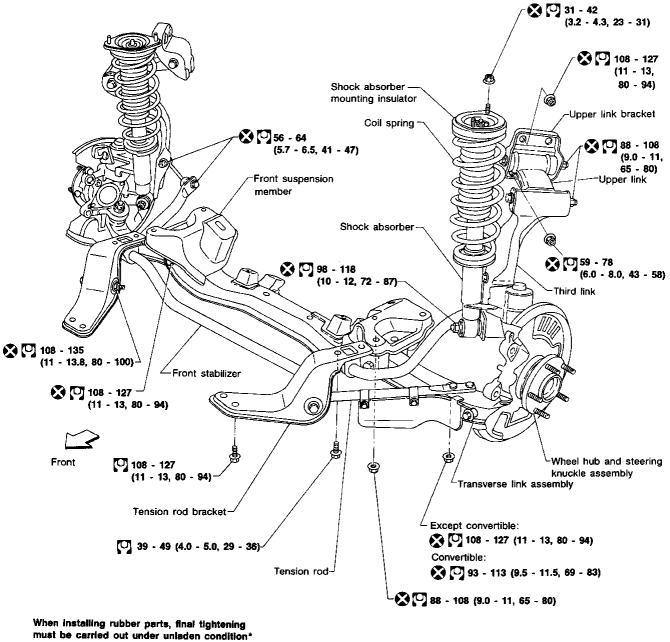
# **Commercial Service Tools**



# PRECAUTIONS AND PREPARATION Commercial Service Tools (Cont'd)

Tool name	Description		R
Wheel bearing drift		Removing wheel bearing	- G
	a b ()) / har		M
	NT084	a: 60 mm (2.36 in) dia. b: 37 mm (1.46 in) dia.	
Wheel bearing drift		Installing wheel bearing	
	a b b		[_(
	NT115	a: 75 mm (2.95 in) dia. b: 65 mm (2.56 in) dia.	
Baffle plate drift		Installing baffle plate	- 3
	THE		٦
	a	a: 125 mm (4.92 in) dia.	UĽ
Tension rod bushing drift	NT065	b: 106 mm (4.17 in) dia. Removing and installing tension rod bush-	- _
tetteren roo odonnig dint		ing	C[
		a: 78 mm (3.07 in) dia.	
		b: 66 mm (2.60 in) dia. c: 62 mm (2.44 in) dia.	M
<u> </u>	NT155	d: 25 - 55 mm (0.98 - 2.17 in) dia.	-
Grease seal drift		Installing wheel hub grease seal	A
	TIT		
	ab	a: 86 mm (3.39 in) dia.	P
	NT115	b: 76 mm (2.99 in) dia.	
Cap drift		Installing king pin cap	F/
	TTO		
	a b		Ŕ
	NT115	a: 60 mm (2.36 in) dia. b: 52 mm (2.05 in) dia.	Մմն
Bearing drift		Installing king pin lower bearing	-
	T TO TO		BF
	a b W		
	NT115	a: 57 mm (2.24 in) dia. b: 50 mm (1.97 in) dia.	Sĩ
Bearing drift	- ~	Installing king pin upper bearing	-
			R
		a: 57 mm (2.24 in) dia.	
		b: 46 mm (1.81 in) dia. c: 40 mm (1.57 in) dia. d: 25 mm (0.008 in)	B
Grease seal drift	NT156	d: 2.5 mm`(0.098 in) Installing king pin grease seal	-
			HZ
	Tott()) Januar		UU//
	a	a: 68 mm (2.68 in) dia.	
	NT115	b: 58 mm (2.28 in) dia.	E

IDX



with tires on ground.

Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

🖸 : N•m (kg-m, ft-lb)

# Front Axle and Front Suspension Parts

Check front axle and front suspension parts for looseness, cracks,

wear or other damage. Retighten all nuts and bolts to the specified torque. Tightening torgue: Refer to FRONT SUSPENSION MA (FA-13). Make sure that cotter pin is inserted. EM LC Check suspension lower ball joint and tie-rod ball joint for grease leakage, and dust cover for cracks or other damage. EF & EC

- Check shock absorber for oil leakage or other damage.
- FE

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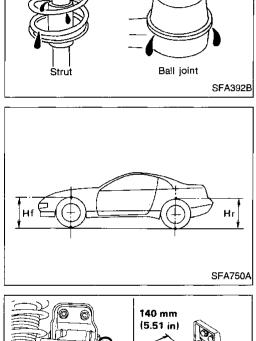
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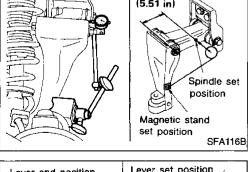
MT

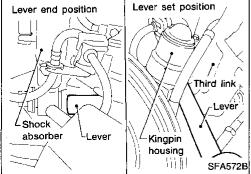
- Check spring height from top of wheelarch to ground.
- (1) Vehicle must be unladen\*, parked on a level surface, and tires Ať checked for proper inflation and wear (tread wear indicator must not be showing). Fuel, radiator coolant and engine oil full. Spare tire, jack, PD hand tools and mats in designated positions. (2) Bounce vehicle up and down several times before measuring. Standard height: Refer to SDS (FA-27). FA (3) Spring height is not adjustable. If out of specification, check for worn springs or suspension parts. Check upper link free play. RA Jack up front of vehicle and set stands. (1)Set steering wheel in the straight-forward direction and lock it (2) using key lock. BR (3) Remove front wheels. On axle side (4) Install dial gauge. ST Install magnet stand on third link. а. Set dial gauge in position. b. Set dial gauge spindle in contact with flat surface of upper link. RS Set at 140 mm (5.51 in) from center of upper link retaining bolt on the third link side. (Reset dial gauge.) BT (5) Install lever. Insert lever [30 mm (1.18 in) outside dia., 350 mm (13.78 in) long, approx.] between lower end of third link and kingpin loca-HA tion. Make sure lever does not interfere with splash guard, brake hoses, etc., when set in position. EL

  - IDX

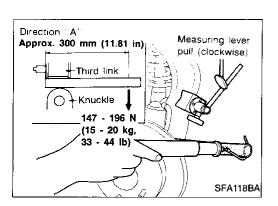
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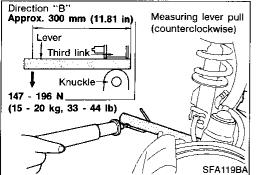
# **ON-VEHICLE SERVICE**



# Front Axle and Front Suspension Parts (Cont'd)

#### – Free play in direction "A" —

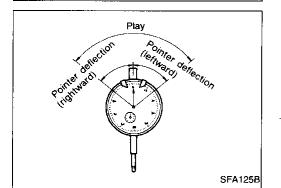
Attach spring scale to lever tip. Pull spring scale with a force of 147 to 196 N (15 to 20 kg, 33 to 44 lb) and then read dial gauge indication.

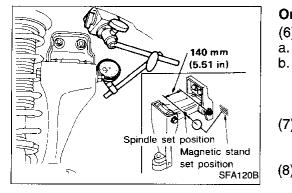


#### Free play in direction "B" —

With dial gauge held in position, invert lever. Attach spring scale to lever tip. Pull spring scale with a force of 147 to 196 N (15 to 20 kg, 33 to 44 lb) and then read dial gauge indication. Free play = (Gauge pointer deflection in direction "A") +

(Gauge pointer deflection in direction "B") Allowable free play range: 5.0 mm (0.197 in), max.





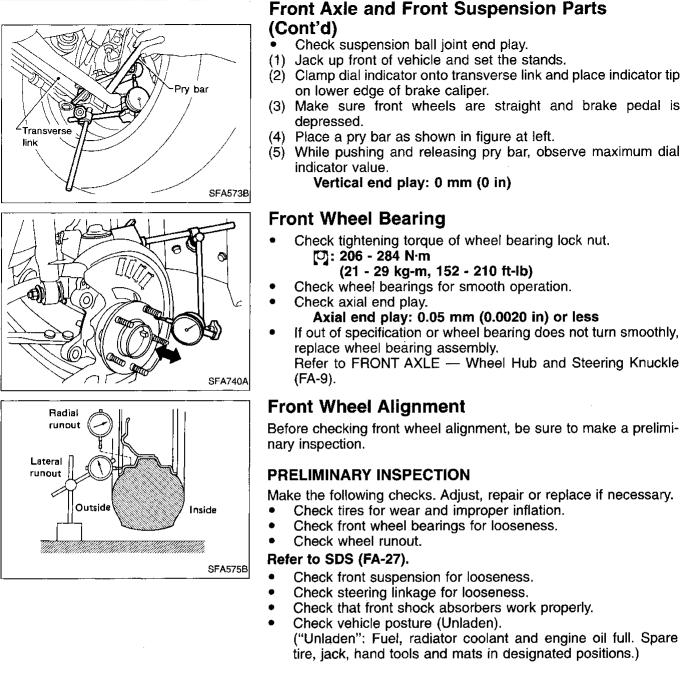
#### On body side

- (6) Install dial gauge.
  - Install magnet stand on hoodledge wheelhouse side.
- b. Set dial gauge in position.

Set dial gauge spindle in contact with flat surface of upper link. Set at 140 mm (5.51 in) from center of upper link retaining bolt on bracket side. (Reset dial gauge.)

- (7) Follow the same procedures for setting lever and measuring the free play as those outlined under "On axle side" above. Allowable free play range: 5.0 mm (0.197 in), max.
- (8) If free play exceeds specifications, replace upper link assembly.

# **ON-VEHICLE SERVICE**



(4) Place a pry bar as shown in figure at left. (5) While pushing and releasing pry bar, observe maximum dial Vertical end play: 0 mm (0 in) Check tightening torgue of wheel bearing lock nut. (21 - 29 kg-m, 152 - 210 ft-lb) Check wheel bearings for smooth operation. Axial end play: 0.05 mm (0.0020 in) or less If out of specification or wheel bearing does not turn smoothly,

GL replace wheel bearing assembly. Refer to FRONT AXLE - Wheel Hub and Steering Knuckle MT

AT Before checking front wheel alignment, be sure to make a prelimi-PD

	in a also also Addiss		£
Make the followi	ing checks. Adjus	st, repair or replace	it necessary.

- Check front wheel bearings for looseness.
- Check front suspension for looseness.
  - Check steering linkage for looseness.
- Check that front shock absorbers work properly.
  - ("Unladen": Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.)

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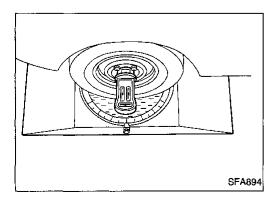
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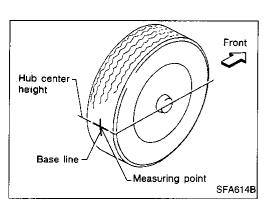


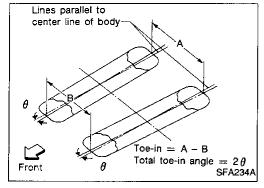
## CAMBER, CASTER AND KINGPIN INCLINATION

ĦA Camber, caster and kingpin inclination are preset at factory and cannot be adjusted.

- (1) Measure camber, caster and kingpin inclination of both ΞL right and left wheels with a suitable alignment gauge. Camber, Caster and Kingpin inclination: Refer to SDS (FA-26).
- (2) If camber, caster or kingpin inclination is not within ID)X specification, inspect front suspension parts. Replace damaged or worn out parts.

# **ON-VEHICLE SERVICE**





# Front Wheel Alignment (Cont'd)

#### TOE-IN

Measure toe-in using following procedure. If out of specification, inspect and replace any damaged or worn rear suspension parts. **WARNING:** 

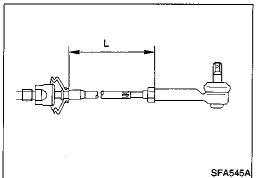
- Perform following procedure always on a flat surface.
- Make sure that no person is in front of the vehicle before pushing it.
- 1. Move rear of vehicle up and down to stabilize the posture.
- 2. Push the vehicle straight ahead about 5 m (196.9 in).
- 3. Put a mark on base line of the tread (rear side) at the same height of hub center to be a measuring point.
- 4. Measure distance "A" (rear side).
- 5. Push the vehicle slowly ahead to turn the wheels around 180 degrees.

#### If the wheels have passed 180 degrees, try the above procedure again from the beginning. Never push vehicle backward.

Measure distance "B" (front side).
 Toe-in (A – B):

Refer to SDS (FA-26).

- 7. Adjust toe-in by varying length of steering tie-rods.
- (1) Loosen lock nuts.
- (2) Adjust toe-in by turning tie-rod forward or backward.



SFA935A

Make sure both tie-rods are the same length. Standard length "L": 155 mm (6.10 in)
(3) Tighten lock nuts to the specified torque. [○]: 78 - 98 N·m

(8.0 - 10.0 kg-m, 58 - 72 ft-lb)

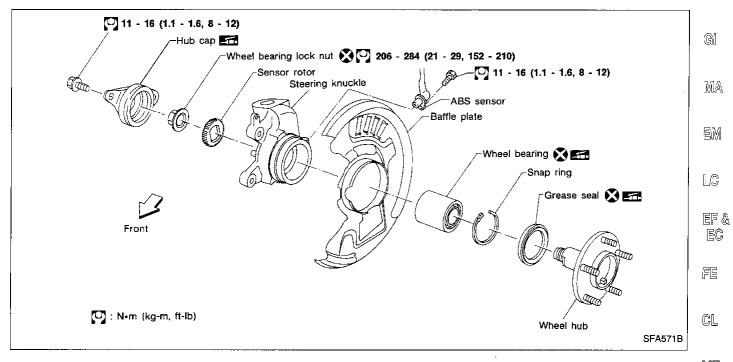
# A B B A Front A: Inside B: Outside SFA439B

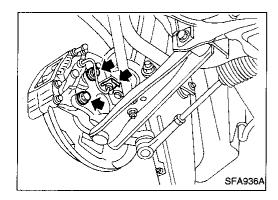
#### FRONT WHEEL TURNING ANGLE

- 1. Set wheels in straight-ahead position. Then, move vehicle forward until front wheels rest on turning radius gauge properly.
- 2. Rotate steering wheel fully to the right or left; measure turning angle.

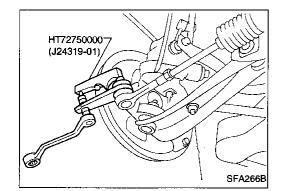
#### Wheel turning angle:

Full turn	Inside wheel: A	32°30′ - 36°30′
	Outside wheel: B	26°30′ - 30°30′





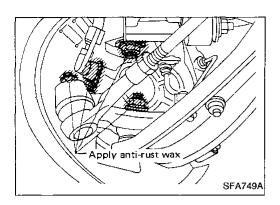
#### MT Wheel Hub and Steering Knuckle AT REMOVAL CAUTION: Wheel bearing usually does not require maintenance. If any of PD) the following symptoms are noted, replace wheel bearing assembly. Growling noise is emitted from wheel bearing during FA operation. Wheel bearing drags or turns roughly when hub is turned by hand. RA Remove brake caliper assembly and rotor. Brake line need not be disconnected from brake caliper. Be careful not to depress brake pedal, or piston will pop out. BR Make sure brake line is not twisted. Remove ABS sensor. ST Before removing the front wheel hub assembly, disconnect the ABS wheel sensor from the assembly. Then move it away from the front wheel hub assembly area. Failure to do so may RS result in damage to the sensor wires and the sensor becoming inoperative. BT Remove tie-rod ball joint and lower ball joint with Tool. CAUTION: HA Steering knuckle is made from aluminum alloy. Be careful not to hit steering knuckle. Remove kingpin lower nut then remove steering knuckle EL. assembly.



**FA-9** 

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# FRONT AXLE



# Wheel Hub and Steering Knuckle (Cont'd) INSTALLATION

- Install steering knuckle assembly.
  - Apply anti-rust wax as follows:
  - Portions around lower ball joint connections
  - Portions around tie-rod ball joint connections
  - Portions around kingpin lower nut location
  - Portions around ABS sensor connection

DISASSEMBLY

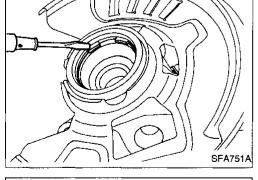
CAUTION:

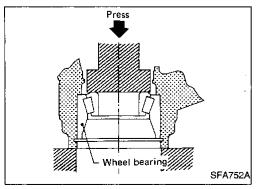
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When removing wheel bearing from steering knuckle, replace wheel bearing assembly (outer race, inner races and grease seal) with a new one.

- SFA434B
- Remove hub cap and wheel bearing lock nut.
- Remove wheel hub with a suitable tool.

Remove circular clip with a suitable tool.





Press out wheel bearing assembly from steering knuckle.

INSPECTION

Circular clip

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Wheel hub and steering knuckle

Replace if necessary.

Check circular clip for wear or cracks.

Suitable tool
ST30031000
SFA753A

# Wheel Hub and Steering Knuckle (Cont'd)

Drive out wheel bearing inner race (to outside) from wheel hub, • then remove grease seal.

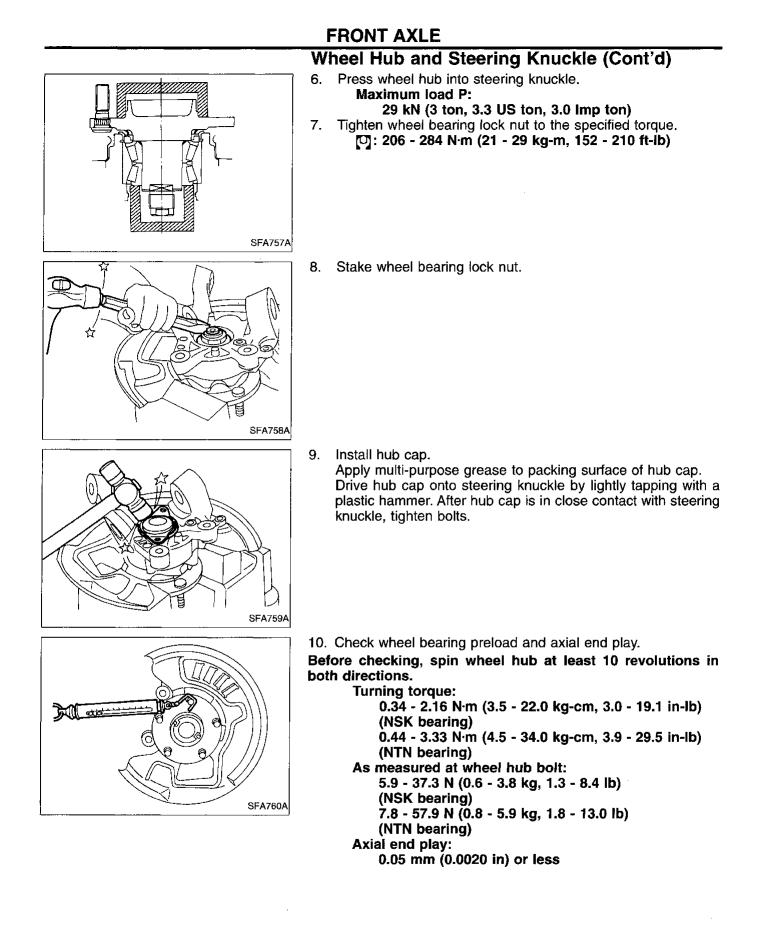
	MA
	EM
	LC
PECTION eel hub and steering knuckle	EF & EC
Check wheel hub and steering knuckle for any cracks.	ev

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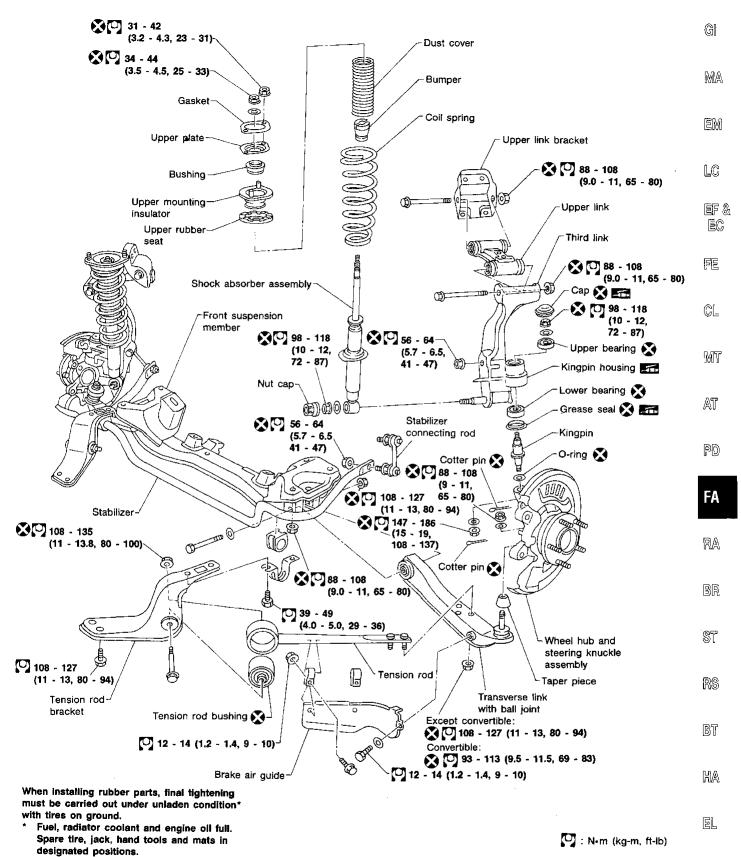
CL.

	MT
ASSEMBLY	
<ol> <li>Press new wheel bearing assembly into steering knuckle from outside of steering knuckle.</li> <li>Maximum load P:</li> </ol>	AT
34.3 kN (3.5 ton, 3.9 US ton, 3.44 lmp ton) CAUTION:	PD
<ul> <li>Do not press inner race of wheel bearing assembly.</li> <li>Do not apply oil or grease to mating surfaces of wheel bearing outer race and wheel hub.</li> </ul>	FA
	RA
2. Install circular clip into groove of steering knuckle.	BR
	ST
	RS
Analy multi average graces to ecoling lia	BT
4. Install grease seal. Maximum load P:	HA
5. Install splash guard.	EL
	IDX
	<ol> <li>Press new wheel bearing assembly into steering knuckle from outside of steering knuckle. Maximum load P: 34.3 kN (3.5 ton, 3.9 US ton, 3.44 Imp ton)</li> <li>CAUTION:         <ul> <li>Do not press inner race of wheel bearing assembly.</li> <li>Do not apply oil or grease to mating surfaces of wheel bearing outer race and wheel hub.</li> </ul> </li> <li>Install circular clip into groove of steering knuckle.</li> <li>Install circular clip into groove of steering knuckle.</li> <li>Install circular clip into groove of steering knuckle.</li> <li>Install grease seal. Maximum load P: 10 kN (1 ton, 1.1 US ton, 1.0 Imp ton)</li> </ol>

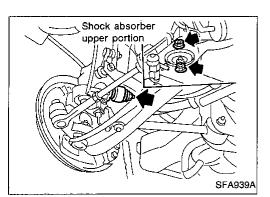


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#### FRONT SUSPENSION



DX



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Suitable

bar HT71780000

# **Coil Spring and Shock Absorber**

REMOVAL

- Remove shock absorber fixing bolt and nut (to hoodledge).
- Do not remove piston rod lock nut.

# DISASSEMBLY

- 1. Set shock absorber in vise with Tool, then loosen piston rod lock nut.
- Do not remove piston rod lock nut.
- 2. Compress spring with Tool so that shock absorber mounting insulator can be turned by hand.
- 3. Remove piston rod lock nut.

#### INSPECTION

SFA435B

#### Shock absorber assembly

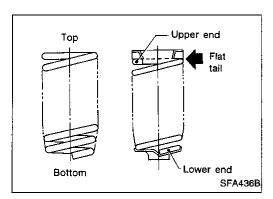
- Check for smooth operation through a full stroke, both compression and extension.
- Check for oil leakage occurring on welded or gland packing portions.
- Check piston rod for cracks, deformation or other damage. Replace if necessary.

#### Mounting insulator and rubber parts

 Check cemented rubber-to-metal portion for separation or cracks. Check rubber parts for deterioration. Replace if necessary.

#### Coil spring

Check for cracks, deformation or other damage. Replace if necessary.

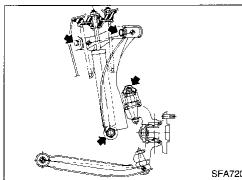


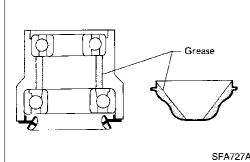
### ASSEMBLY

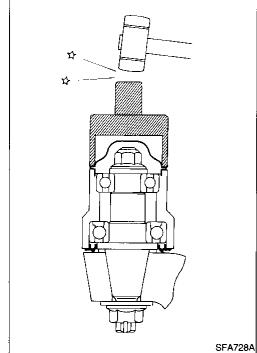
- When installing coil spring, be careful not to reverse top and bottom direction. (Top end is flat.)
- When installing coil spring on shock absorber, it must be positioned as shown in figure at left.

# Third Link and Upper Link

		GI
	CAUTION: Kingpin bearing usually does not require maintenance. If any of the following symptoms are noted, replace kingpin bearing	MA
	<ul> <li>Kingpin bearing drags or turns roughly when steering</li> </ul>	EM
	knuckle is turned by hand.	LC
		ef & EC
	[	FE
		CL
720A	· [	MT
	INSTALLATION Third link • Pack kingpin housing and cap with multi-purpose grease.	AT
}	Grosse canacity:	PD
/		FA
727A	<ul> <li>Install third link and cap.</li> </ul>	RA
	•	BR
:		ŝT
	리	7S
	<u>[</u>	9T
	ŀ	łA
		DX







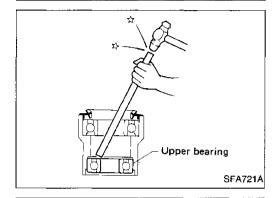




#### **Upper link**

• Upper link has characters "A" and "L" (or "R") on it as shown. Always install upper link with "A" side facing axle and side without a character facing vehicle body.

Upper link bushings cannot be disassembled.



Face "A" character side

SFA859A

toward axle.

Lower bearing

SFA722A

🗸 Kingpin grease seal

Outer race-Kingpin housing

Outer race

R = Upper link (right)

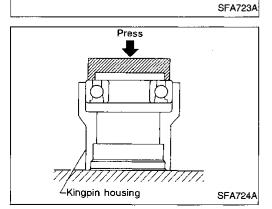
L = Upper link (left)

#### DISASSEMBLY

Remove upper bearing (inner race and ball).

- Remove kingpin grease seal.
- Remove lower bearing (inner race and ball).

- Remove upper and lower outer race.
- Be careful not to damage kingpin housing.



#### ASSEMBLY

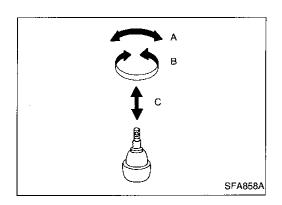
Install lower bearing.

FA-16

#### FRONT SUSPENSION Third Link and Upper Link (Cont'd) . Install upper bearing. Press ŝ GI $(0.098 \pm 0.008)$ E $2.5 \pm 0.2$ MA EM 1777. SFA725A LC -Kingpin housing Install lower oil seal. Press Apply multi-purpose grease to oil seal lip. EF & Grease EC FE Kingpin grease seal CL R SFA726A MT Transverse Link and Lower Ball Joint AT **REMOVAL AND INSTALLATION** Remove tension rod, ball joint and transverse link assembly. • During installation, final tightening must be done at curb weight e PD with tires on ground. After installation, check wheel alignment. • Refer to "Front Wheel Alignment" of ON-VEHICLE SERVICE FA (FA-7). TE INSPECTION RA SFA940A Transverse link Check transverse link and rubber bushing for damage, cracks • BR or deformation. Replace if necessary. ST RS BT HA EL

IDX

## FRONT SUSPENSION



# Transverse Link and Lower Ball Joint (Cont'd)

#### Lower ball joint

Replace transverse link assembly if any of the following cases occur: Ball stud is worn, play in axial direction is excessive or joint is hard to swing.

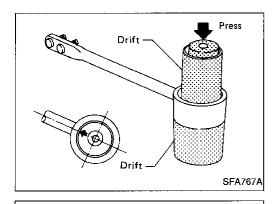
#### Swing force, turning torque and vertical end play

Before checking, turn ball joint at least 10 revolutions so that ball joint is properly broken in.

Swing force "A": 7.8 - 53.0 N (0.8 - 5.4 kg, 1.8 - 11.9 lb)

(measuring point: cotter pin hole of ball stud) Turning torque "B":

0.49 - 3.43 N·m (5.0 - 35 kg-cm, 4.3 - 30.4 in-lb) Vertical end play limit "C": 0 mm (0 in)

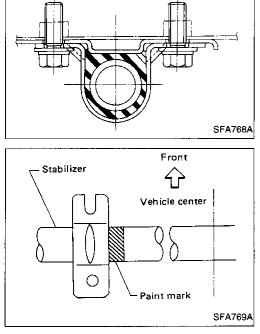


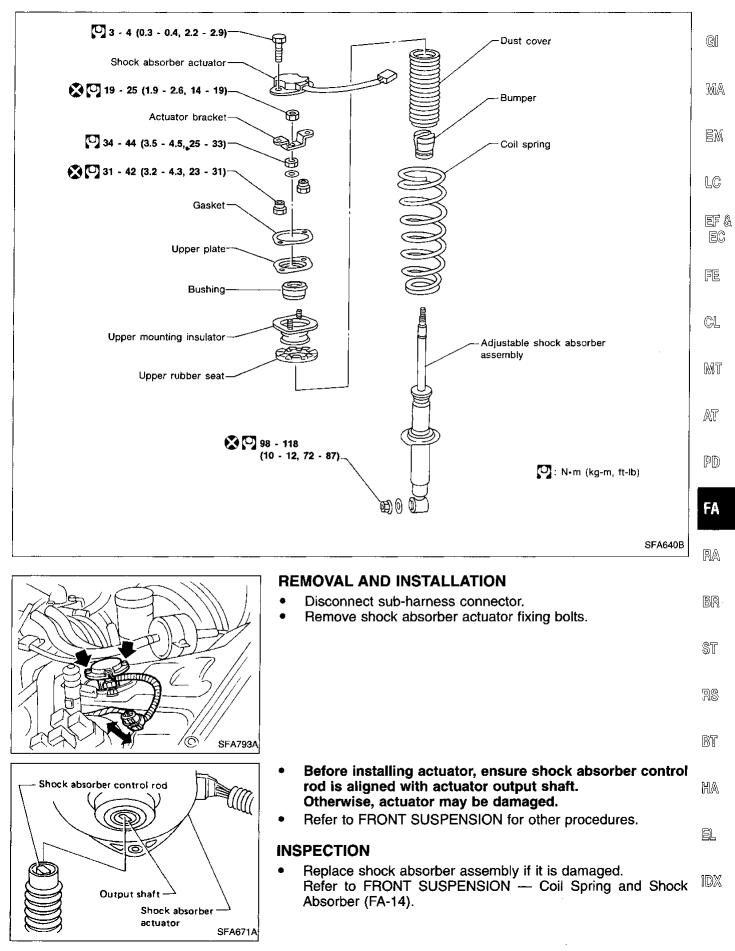
Front

### **Tension Rod and Stabilizer Bar**

#### REMOVAL AND INSTALLATION

- Remove tension rod and stabilizer bar.
- Place a drift on lower side of tension rod bushing and another on upper side, as shown. Remove tension rod bushing by pressing it out.
- Place arrow mark on bushing facing tension rod before installing bushing.
- When installing stabilizer, make sure that paint mark and clamp face in the correct direction.

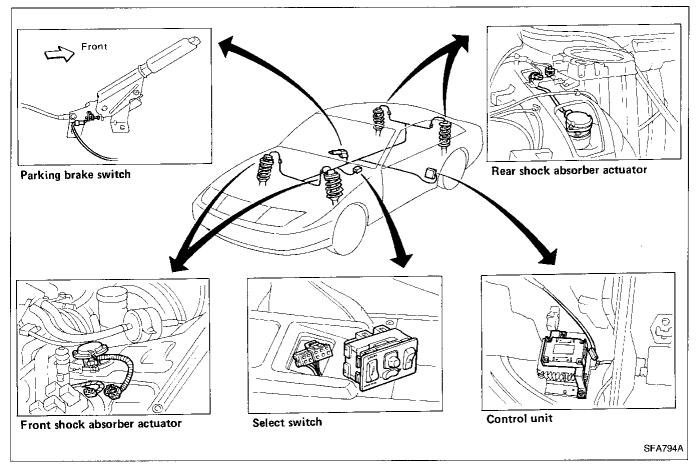




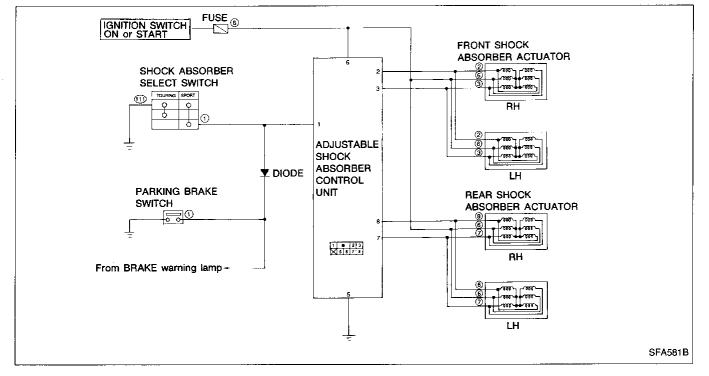
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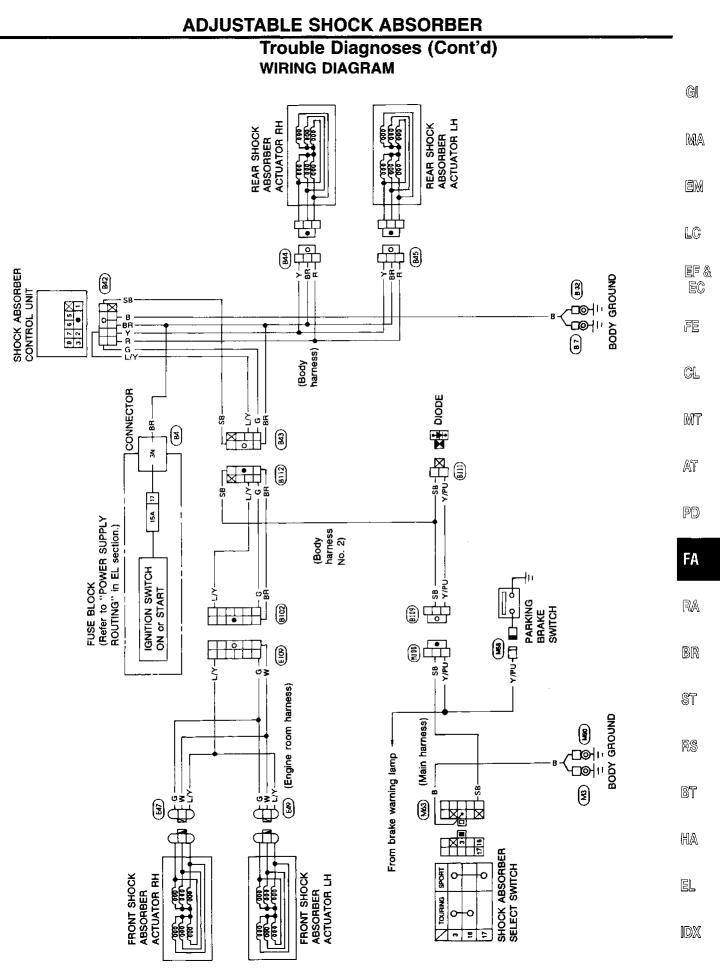
### **Trouble Diagnoses**

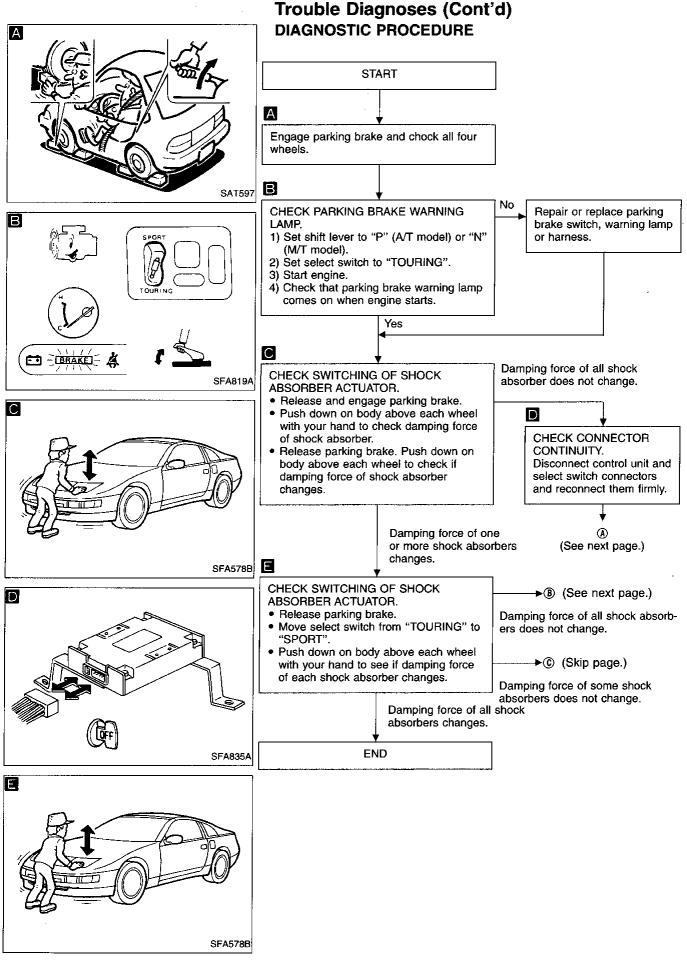
# COMPONENT PARTS AND HARNESS CONNECTOR LOCATION

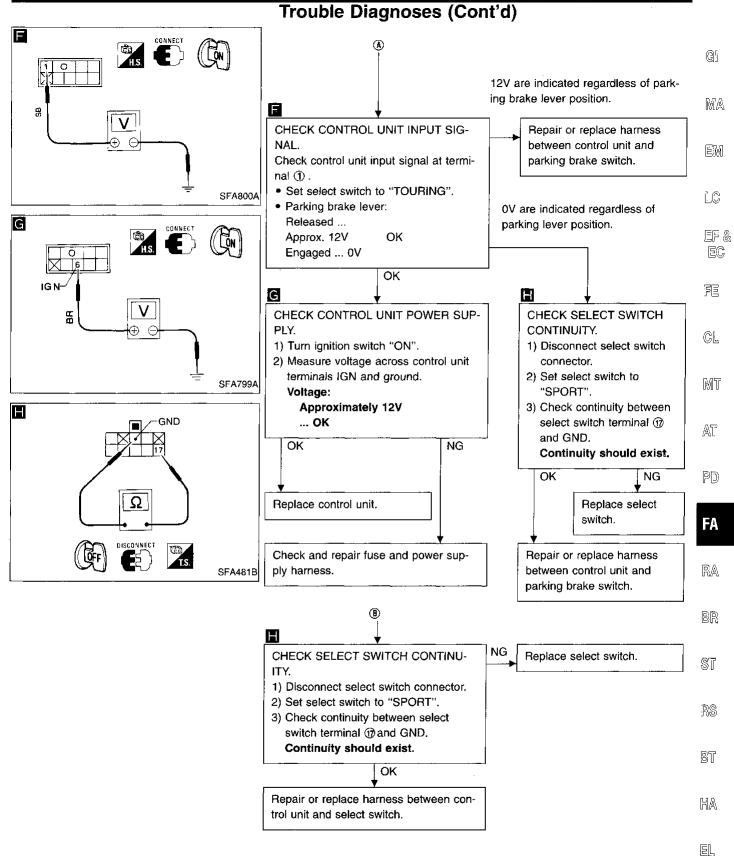


### CIRCUIT DIAGRAM FOR QUICK PINPOINT CHECK

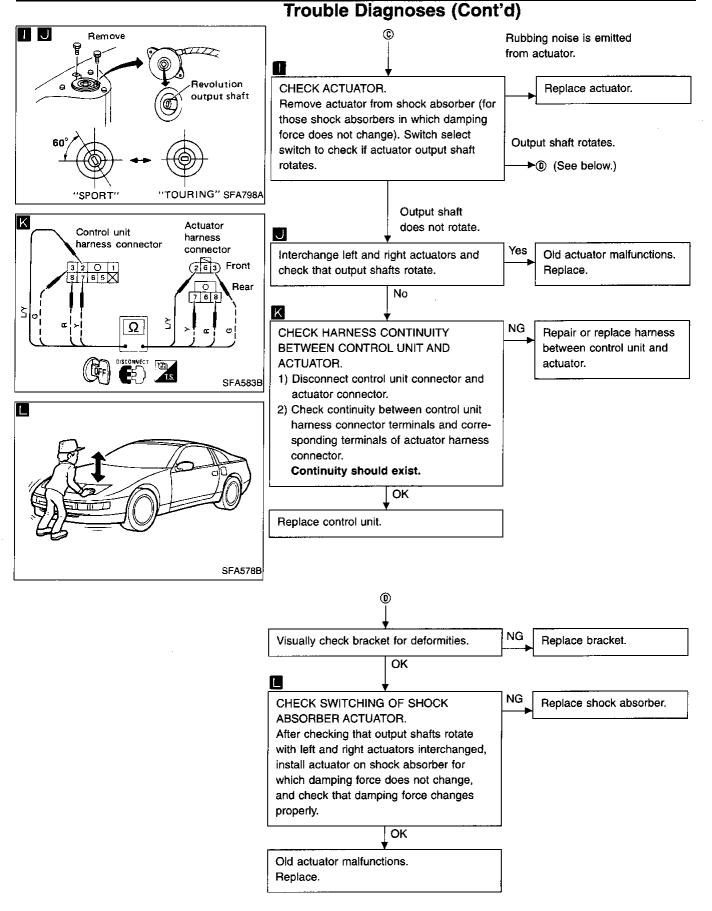








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#### Trouble Diagnoses (Cont'd) Control and operation of shock absorber damping force

	Selec	t switch
	TOURING	SPORT
Parking brake lever released	Soft	Firm
<sup>o</sup> arking brake lever engaged	Firm	Firm
trol unit inspec	tion table	
Terminal No.	Connected to	Standard value
		0V ("SPORT"); 12V ("TOURING") *1
Ð	Select switch and park- ing brake switch	0V (parking brake lever released); *2 12V (parking brake lever
		engaged)
2	Front actuator "Firm"	When select signal is emitted, 12V (approx.) instantaneously drops to 2 - 3V. *1
3	Front actuator "Soft"	When select signal is emitted, 12V (approx.) instantaneously drops to 2 - 3V. *1
5	GND	ov
6	IGN	Approx. 12V
Ø	Rear actuator "Firm"	When select signal is emitted, 12V (approx.) instantaneously drops to 2 - 3V. *1
3	Rear actuator "Soft"	When select signal is emitted, 12V (approx.) instantaneously drops to 2 - 3V. *1

\*1: Measure with parking brake released. \*2: Measure with select switch set to "TOURING".

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# **General Specifications**

#### **COIL SPRING**

Model		2 seater (Non-turbocharger), Con- vertible	2+2 seater (Non-turbocharger)	Turbocharger
Wire diameter	mm (in)	12.1 (0.476)	11.9 (0.469)	12.1 (0.476)
Coil diameter	mm (in)	100.1 (3.94)	99.9 (3.933)	100.1 (3.94)
Free length	mm (in)	360 (14.17)	370 (14.57)	
Identification color		Light blue x 1, Pink x 1	Light blue x 2	Light blue x 1, Orange x 1

#### SHOCK ABSORBER

Model	Non-turbocha	rger Turbocharger		
Shock absorber type	Double	Double acting gas type		
Piston rod diameter	in) 12.5 (0.492	2) 14.0 (0.551)		
Inner cylinder bore diameter mm (	in) 25.0 (0.984	30.0 (1.181)		

### FRONT STABILIZER BAR

Applied model		2 seater	2+2 seater
Stabilizer diameter	mm (in)	27.2 (1.071)	28.6 (1.126)
Identification color		White	Purple

#### **TENSION ROD**

Rod diameter	mm (in)	20.0 (0.787)
nou diamater		20.0 (0.107)

	Inspection and Adjustment
<b>۱</b>	

WHEEL ALIGNMENT (Unladen*1)			
Camber	degree	-1°35' to -0°05'	
Caster	degree	8°55′ - 10°25′	
Toe-in		· · · · · · · · · · · · · · · · · · ·	
А — В	mm (in)	0 - 2 (0 - 0.08)	
Total angle 20	degree	0' - 11'	
Kingpin inclination	degree	12°10′ - 13°40′	
Front wheel turning angle			
Full turn*2 inside/outside	degree	32°30′ - 36°30′/26°30′ - 30°30′	

\*1: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

\*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.

WHEEL BEARING		
Wheel bearing axial end play mm (in)	0.05 (0.0020) or less	
Wheel bearing lock nut		
Tightening torque	000 004 /01 00 150 0	

Wheel bearing lock nut	
Tightening torque N·m (kg-m, ft-lb)	206 - 284 (21 - 29, 152 - 210)
Wheel bearing turning resistance N·m (kg-cm, in-lb)	
NSK bearing	0.34 - 2.16 (3.5 - 22.0, 3.0 - 19.1)
NTN bearing	0.44 - 3.33 (4.5 - 34.0, 3.9 - 29.5)
At wheel hub bolt N (kg, lb)	
NSK bearing	5.9 - 37.3 (0.6 - 3.8, 1.3 - 8.4)
NTN bearing	7.8 - 57.9 (0.8 - 5.9, 1.8 - 13.0)

# SERVICE DATA AND SPECIFICATIONS (SDS)

#### LOWER BALL JOINT

Swing force (Measuring point: cotto of ball stud)	er pin hole N (kg, lb)	7.8 - 53.0 (0.8 - 5.4, 1.8 - 11.9)	
Turning torque N-m (kg-cm, in-lb)		0.49 - 3.43 (5.0 - 35, 4.3 - 30.4)	
Vertical end play	mm (in)	0 (0)	

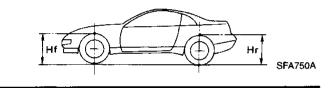
#### WHEEL RUNOUT (Radial and lateral)

Aluminum wheel

0.3 mm (0.012 in) or less

### WHEELARCH HEIGHT

_				Unit: mm (in)
		Non-turbocharger		Turbocharger
		2 seater	2+2 seater	2 seater
	Front (Hf)	675 (26.57)	677 (26.65)	675 (26.57)
	Rear (Hr)	676 (26.61)	675 (26.57)	675 (26.57)



Inspection and Adjustment (Cont'd)

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