FRONT & REAR SUSPENSION

SECTION SU

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FE

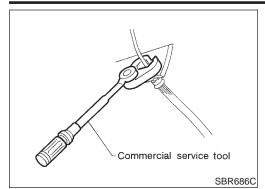
EM

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IDX



Precautions

PRECAUTIONS

 When installing rubber parts, final tightening must be carried out under unladen condition* with tires on ground. Oil will shorten the life of rubber bushes. Be sure to wipe off any spilled oil.
 *: 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 tubes.
 - Always torque brake lines when installing.
- Lock nuts are unreusable parts; always use new ones. When replacing, do not wipe the oil off the new lock nut before tightening.

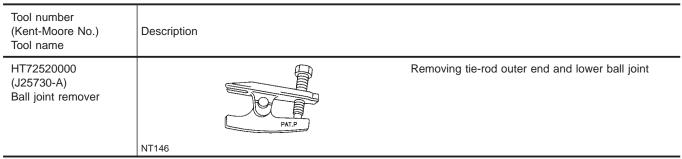
NHSU0002

NHSU0003

Preparation

SPECIAL SERVICE TOOLS

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.



COMMERCIAL SERVICE TOOLS

Tool name	Description	
Attachment Wheel align- ment	NT148	Measure wheel alignment a: Screw M24 x 1.5 pitch b: 35 mm (1.38 in) dia. c: 65 mm (2.56 in) dia. d: 56 mm (2.20 in) e: 12 mm (0.47 in)
1 Flare nut crowfoot 2 Torque wrench		Removing and installing each brake piping a: 10 mm (0.39 in)

Tool name	Description	
Spring compressor	Removing and installing coil spring	GI
	NT717	MA
		EM

SU-3

AX

LC

EC

FE

AT

SU

ST

RS

BT

HA

SC

EL

IDX

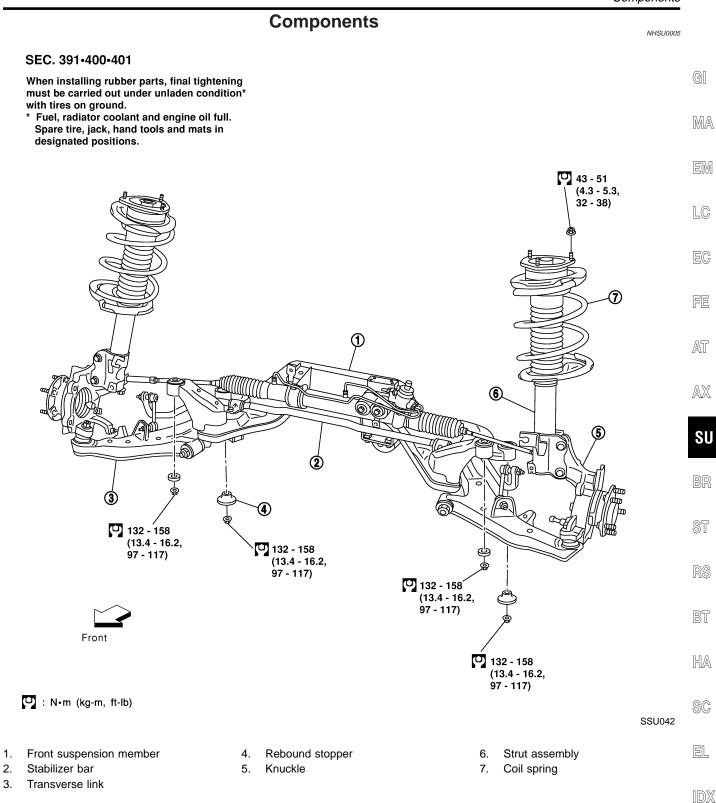
Noise, Vibration and Harshness (NVH) Troubleshooting

Noise, Vibration and Harshness (NVH) Troubleshooting

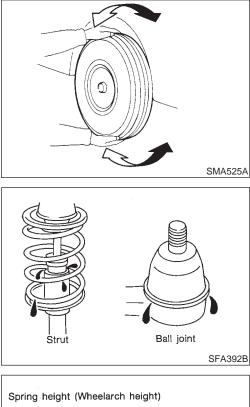
NV	н 1	ROUBLES	вно	ΟΤΙΝ	IG (СНА	RT				_													IHSU000 U0004S0
Jse	th	e chart belo	w to	help	you	find	the	cau	ise d	of th	e sy	/mpt	om.	lf n	eces	sar	y, re	pair	or r	epla	ice t	hes	e pa	rts.
Re	fere	nce page	SU-5, 17	SU-10, 22		I	I	SU-9, 20	SU-6	SU-11	SU-6	1	I	I	I	I	I	AX-3	AX-3	1	I	I	BR-7	ST-5
SU		le Cause and ECTED	Improper installation, looseness	Shock absorber deformation, damage or deflection	Bushing or mounting deterioration	Parts interference	Spring fatigue	Suspension looseness	Incorrect wheel alignment	Stabilizer bar fatigue	Out-of-round	Imbalance	Incorrect air pressure	Uneven tire wear	Deformation or damage	Non-uniformity	Incorrect tire size	DRIVE SHAFT	AXLE	SUSPENSION	TIRES	ROAD WHEEL	BRAKES	STEERING
		Noise	×	×	×	×	×	×										×	×		×	×	×	×
		Shake	×	×	×	×		×										×	×		×	×	×	×
	ION	Vibration	×	×	×	×	×											×	×		×			×
	SUSPENSION	Shimmy	×	×	×	×			×										×		×	×	×	×
	USP	Judder	×	×	×														×		×	×	×	×
	0	Poor quality ride or han- dling	×	×	×	×	×		×	×									×		×	×		
		Noise	×								×	×	×	×	×	×		×	×	×		×	×	×
		Shake	×								×	×	×	×	×		×	×	×	×		×	×	×
Symptom		Vibration											×				×	×	×	×				×
Sym	TIRES	Shimmy	×								×	×	×	×	×	×	×		×	×		×	×	×
	F	Judder	×								×	×	×	×	×		×		×	×		×	×	×
		Poor quality ride or han- dling	×								×	×	×	×	×		×		×	×		×		
		Noise	×								×	×			×			×	×	×	×		×	×
	Ш	Shake	×								×	×			×			×	×	×	×		×	×
	ROAD WHEEL	Shimmy, Judder	×								×	×			×				×	×	×		×	×
	RO₽	Poor quality ride or han- dling	×								×	×			×				×	×	×			

 \times : Applicable

Components

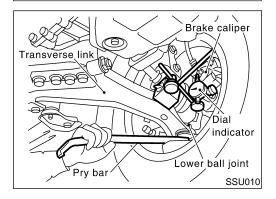


On-vehicle Service



Spring height (Wheelarch height)

SFA818AA



FRONT SUSPENSION

On-vehicle Service FRONT SUSPENSION PARTS

Check front axle and front suspension parts for excessive play, cracks, wear or other damage.

- Shake each front wheel to check for excessive play.
- Make sure that cotter pin is inserted.
- Retighten all axle and suspension nuts and bolts to the specified torque.

Tightening torque: Refer to "FRONT SUSPENSION", SU-5.

- Check strut (shock absorber) for oil leakage or other damage.
- Check suspension ball joint for grease leakage and ball joint dust cover for cracks or other damage.
 If ball joint dust cover is cracked or damaged, replace trans-

If ball joint dust cover is cracked or damaged, replace transverse link.

- Check spring height from top of wheelarch to the ground.
- a) Vehicle must be unladen*, parked on a level surface, and tires checked for proper inflation and wear (tread wear indicator must not be showing).

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

- b) Bounce vehicle up and down several times before measuring. **Standard height: Refer to SDS (SU-15).**
- c) Spring height is not adjustable. If out of specification, check for worn springs or suspension parts.
- Check suspension ball joint end play.
- a) Jack up front of vehicle and set the stands.
- b) Clamp dial indicator onto transverse link and place indicator tip on lower edge of brake caliper.
- c) Make sure front wheels are straight and brake pedal is depressed.
- d) Place a pry bar between transverse link and inner rim of road wheel.
- e) While raising and releasing pry bar, observe maximum dial indicator value.

Vertical end play: 0 mm (0 in)

f) If ball joint movement is beyond specifications, remove and replace it.

FRONT WHEEL ALIGNMENT

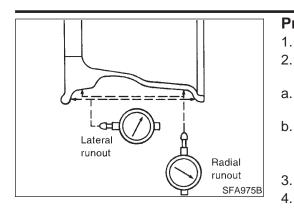
Before checking front wheel alignment, be sure to make a preliminary inspection (Unladen*).

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

5. 6. 7.

FE

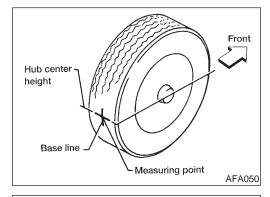
AT

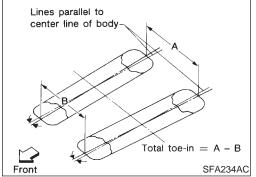


Preliminary Inspection

, , , , , , , , , , , , , , , , , , ,	JHSU0007S01
Check tires for wear and improper inflation.	11500007501
Check wheels for deformation, cracks and other damage If deformed, remove wheel and check wheel runout. Remove tire from wheel and mount wheel on a tire b	GI
machine.	
Set dial indicator as shown in the illustration.	IMIA
Wheel runout (Dial indicator value):	
Refer to SDS, SU-15.	EM
Check front wheel bearings for looseness.	
Check front suspension for looseness.	
Check steering linkage for looseness.	LC
Check that front shock absorbers work properly.	
Check vehicle posture (Unladen).	EG

Attachment Alignment gauge SRA096A



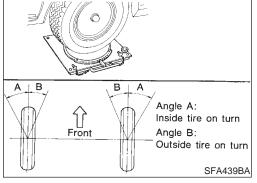


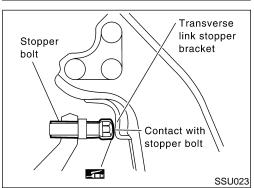
Camber, Caster and Kingpin Inclination	
and cannot be adjusted.	SU
 Measure camber, caster and kingpin inclination of both right and left wheels with a suitable alignment gauge. Camber, caster and kingpin inclination: Refer to SDS, SU-14. 	BR
 If camber, caster or kingpin inclination is not with specification, inspect front suspension parts. Replace dan aged or worn out parts. 	(0457
Toe-in	RS
Measure toe-in using the following procedure.	303
WARNING:	BT
 Always perform the following procedure on a flat surface 	э.
 Make sure that no person is in front of the vehicle befor pushing it. 	e _{HA}
 Bounce front of vehicle up and down to stabilize the posture Push the vehicle straight ahead about 5 m (16 ft). Put a mark on base line of tread (rear side) of both tires at th 	SC
same height as hub center. These are measuring points.	EL
 Measure distance "A" (rear side). Push the vehicle slowly ahead to rotate the wheels 18 degrees (1/2 turn). 	o _{IDX}
If the wheels have rotated more than 180 degrees (1/2 turn), tr the above procedure again from the beginning. Never pus vehicle backward.	
6. Measure distance "B" (front side).	
Total toe-in:	
Refer to SDS, SU-14.	

On-vehicle Service (Cont'd)

FRONT SUSPENSION

Lock nut 7





- 7. Adjust toe-in by varying the length of steering tie-rods.
- a. Loosen lock nuts.
- b. Adjust toe-in by screwing tie-rods in and out.

Standard length "L": Refer to ST-30, "SDS".

c. Tighten lock nuts to specified torque.

Lock nut tightening torque: Refer to ST-15, "POWER STEERING GEAR AND LINK-AGE".

Front Wheel Turning Angle

- Set wheels in straight-ahead position. Then move vehicle forward until front wheels rest on turning radius gauge properly.
- 2. Rotate steering wheel all the way right and left; measure turning angle.
 - Do not hold the steering wheel on full lock for more than 15 seconds.

Wheel turning angle (Full turn): Refer to SDS, SU-14.

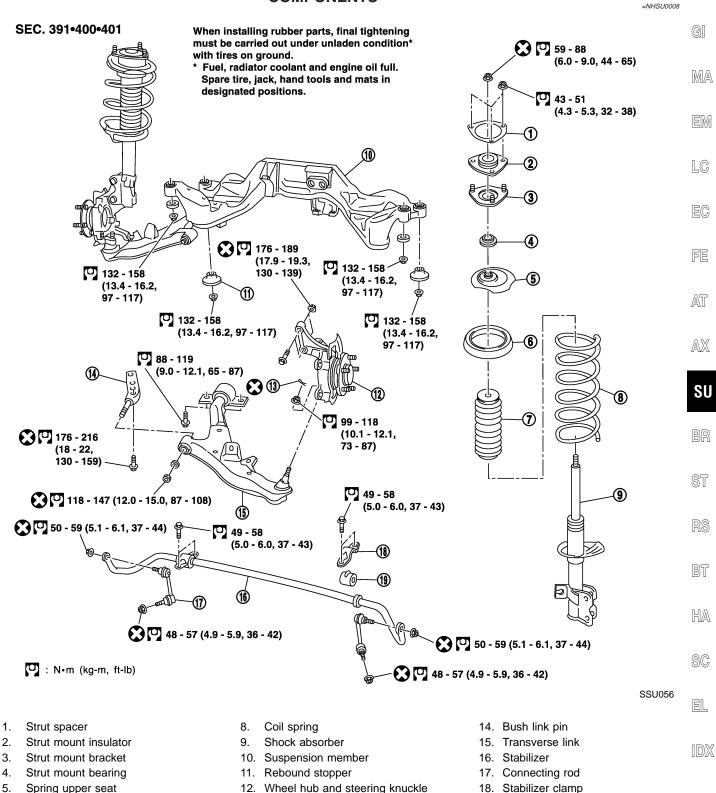
3. Check stopper bolt head to see whether it contacts stopper bracket at specified outside wheel angle. If not, adjust stopper bolt to contact stopper bracket at the correct angle. Adjust protrusion of stopper bolt before placing stopper bolt cap.

Apply grease to face of stopper bracket that bolt touches.

Tighten stopper bolt lock nut.

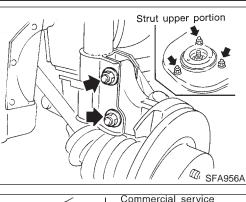
🖸 : 54 - 72 N·m (5.5 - 7.3 kg-m, 40 - 53 ft-lb)

Coil Spring and Shock Absorber COMPONENTS



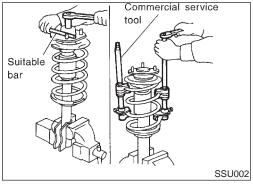
- Spring rubber seat 6.
- 7. Bound bumper rubber
- 13. Cotter pin

- 19. Bushing



REMOVAL AND INSTALLATION

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



DISASSEMBLY

- 1. Set shock absorber on vise, then **loosen** piston rod lock nut.
- Do not remove piston rod lock nut at this time.
- 2. Compress spring with Tool so that shock absorber mounting insulator can be turned by hand.

WARNING:

Make sure that the pawls of the two spring compressors are firmly hooked on the spring. The spring compressors must be tightened alternately so as not to tilt the spring.

3. Remove piston rod lock nut.

SSU003

INSPECTION Shock Absorber Assembly

NHSU0011

- Check for smooth operation through a full stroke, both compression and extension.
- Check for oil leakage 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.

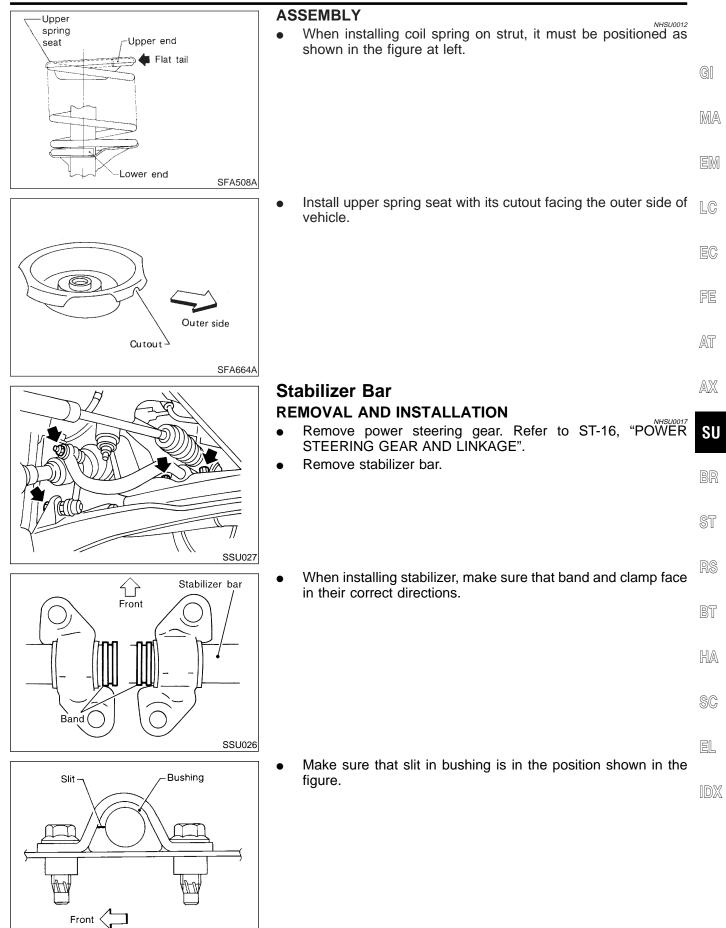
Thrust Bearing

- Check thrust bearing parts for unusual noise or excessive rattle in axial direction.
- Replace if necessary.

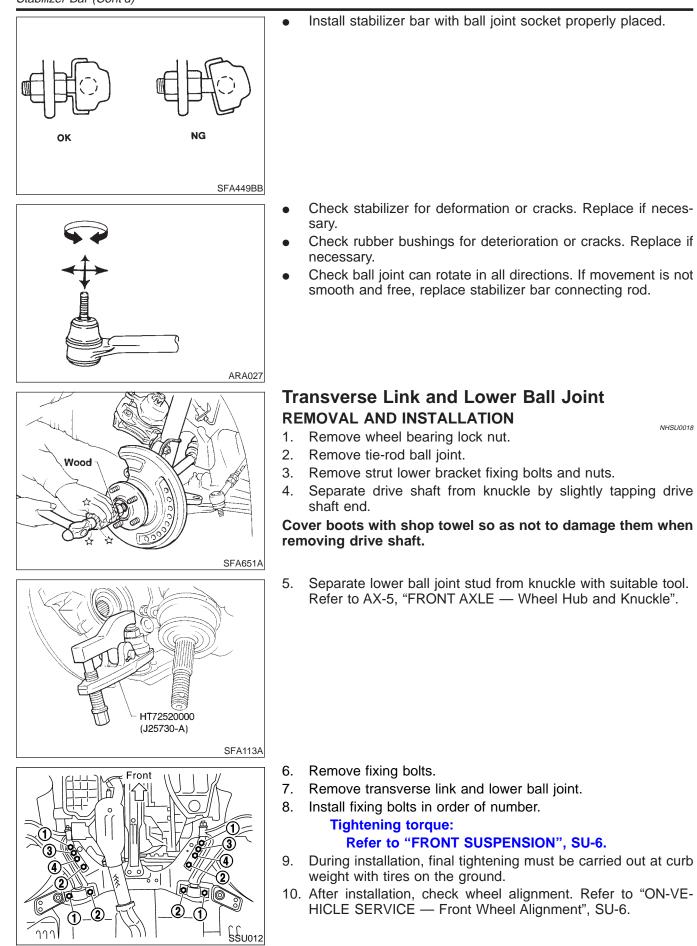
Coil Spring

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

SU-10



SFA604B



SU-12

INSPECTION

NHSU0019

Transverse Link

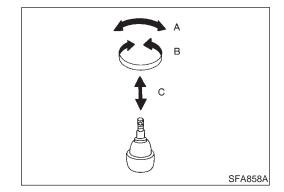
- Check transverse link for damage, cracks or deformation. Replace it if necessary.
- Check rubber bushing for damage, cracks and deformation. Replace transverse link if necessary.

MA

GI

EM

LC



Check ball joint for play. Replace transverse link assembly if

Before checking, turn ball joint at least 10 revolutions so that	EC
ball joint is properly broken in.	
Swinging force "A":	FE
(measuring point: cotter pin hole of ball stud):	
7.8 - 77.5 N (0.8 - 7.9 kg, 1.8 - 17.4 lb)	AT
Turning torque "B":	/~11
0.50 - 4.90 N⋅m (5.1 - 50 kg-cm, 4.4 - 43.4 in-lb)	
Vertical end play "C":	AX
0 mm (0 in)	

• Check dust cover for damage. Replace it and cover clamp if su necessary.

BR

ST

RS

BT

HA

SC

EL

IDX

Service Data and Specifications (SDS)

GENERAL SPECIFICATIONS (FRONT)

Suspension type	Independent MacPherson strut				
Shock absorber type	Double-acting hydraulic				
Stabilizer bar	Standard equipment				

FRONT WHEEL ALIGNMENT (UNLADEN*1)

Tire size			P225/50R17	P215/55R17			
Camber		Minimum	-1°00′	(–1.00°)			
Degree minute (Decimal c	legree)	Nominal	-0°15′ (-0.25°)				
		Maximum	0°30′	0°30′ (0.50°)			
		Left and right difference	45′ (0.75°) or less				
Caster		Minimum	2°00′	(2.00°)			
Degree minute (Decimal c	legree)	Nominal	2°45′	(2.75°)			
		Maximum	3°30′	3°30′ (3.50°)			
		Left and right difference	45' (0.75°) or less				
Kingpin inclination		Minimum	13°30′ (13.50°)				
Degree minute (Decimal degree)		Nominal	14°15′ (14.25°)				
		Maximum	15°00′ (15.00°)				
Total toe-in		Minimum	0 (0)				
	Distance (A – B) mm (in)	Nominal	1 (0.04)				
		Maximum	2 (0.08)				
		Minimum	0′ (0).00°)			
	Angle (left plus right) Degree minute (Decimal degree)	Nominal	6′ (0.10°)				
		Maximum	12′ (0.20°)				
Wheel turning angle		Minimum	29°30′	(29.50°)			
Full turn*2	Inside Degree minute (Decimal degree)	Nominal	33°00′ (33.0°)				
		Maximum	34°00′	(34.0°)			
	Outside Degree minute (Decimal degree)	Nominal	28°30′	(28.50°)			

*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.

LOWER BALL JOINT

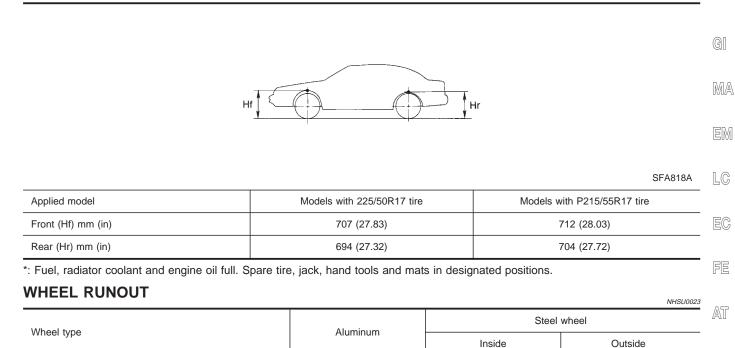
	NHSU0022
Swinging force "A" (Measuring point: cotter pin hole of ball stud) N (kg, lb)	7.8 - 77.5 (0.8 - 7.9, 1.8 - 17.4)
Turning torque "B" N·m (kg-cm, in-lb)	0.50 - 4.90 (5.1 - 50.0, 4.4 - 43.4)
Vertical end play "C" mm (in)	0 (0)

WHEELARCH HEIGHT (UNLADEN*)

Radial runout limit mm (in)

Lateral runout limit mm (in)

=NHSU0041



0.3 (0.012)

0.3 (0.012)

0.8 (0.031) or less

1.0 (0.039) or less

r	•	ľ

AX

0.4 (0.016) or less

0.9 (0.035) or less

BR

ST

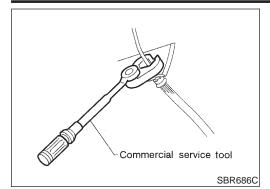
BT

HA

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IDX



COMMERCIAL SERVICE TOOLS

Precautions

PRECAUTIONS

 When installing each rubber part, final tightening must be carried out under unladen condition* with tires on ground. Oil will shorten the life of rubber bushes. Be sure to wipe off any spilled oil.

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

- Use flare nut wrench when removing or installing brake tubes.
- After installing removed suspension parts, check wheel alignment.
- Do not jack up at the trailing arm and lateral link.
- Always torque brake lines when installing.
- Lock nuts are unreusable parts; always use new ones. When replacing, do not wipe the oil off of the new lock nut before tightening.

			NHSU0026
Tool name	Description		
Equivalent to GG94310000 1 Flare nut crowfoot 2 Torque wrench	3 3 2 NT360	Removing and installing brake piping a: 10 mm (0.39 in)	
Spring compressor	NT717	Removing and installing coil spring	

Preparation

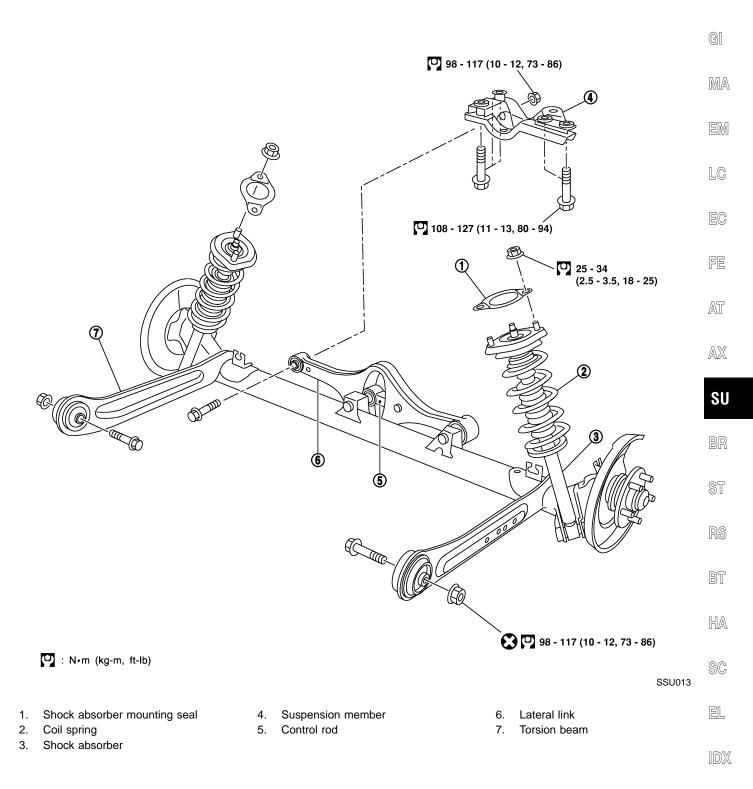
Noise, Vibration and Harshness (NVH) Troubleshooting

Refer to "Noise, Vibration and Harshness (NVH) Troubleshooting", "FRONT SUSPENSION", SU-4.

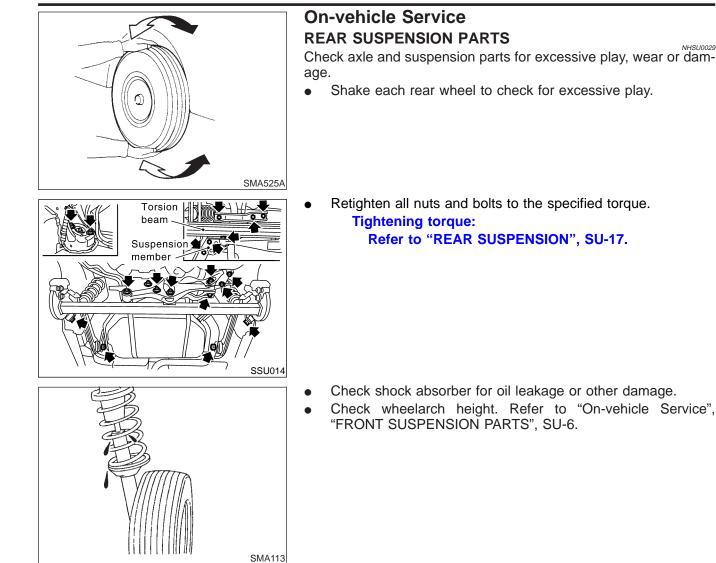
Components

Components

NHSU0028



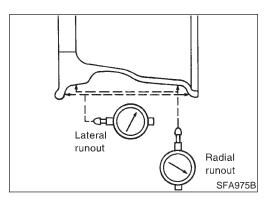
On-vehicle Service



REAR WHEEL ALIGNMENT

Before checking rear wheel alignment, be sure to make a preliminary inspection (Unladen*).

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



Preliminary Inspection

NHSU0030S01

NHSU0029

- 1. Check tires for wear and improper inflation. 2. Check wheels for deformation, cracks and other damage. If deformed, remove wheel and check wheel runout.
- Remove tire from wheel and mount wheel on a tire balance a. machine.
- b. Set dial indicator as shown in the illustration.

Wheel runout (Dial indicator value): Refer to SDS, SU-15.

3. Check front wheel bearings for looseness.

SU-18

Check front suspension for looseness.

4.

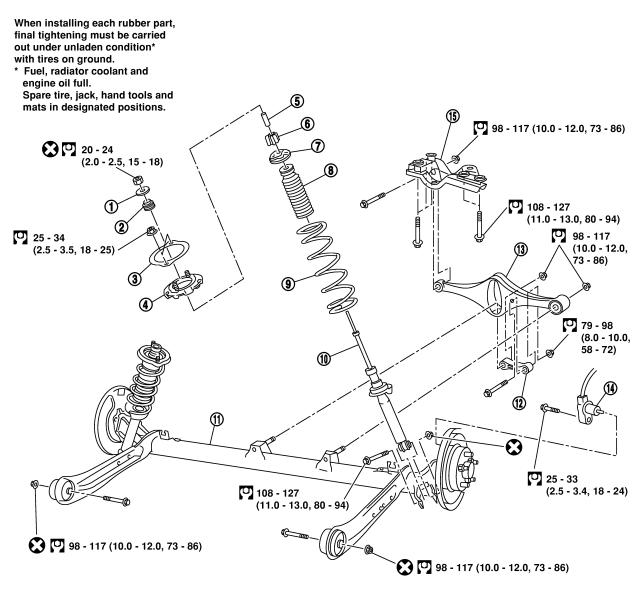
height

Fron

5. Check steering linkage for looseness. 6. Check that front shock absorbers work properly. 7. Check vehicle posture (Unladen). GI MA Camber LC NHSU0030S02 Camber is preset at factory and cannot be adjusted. Attachment -**Camber:** Refer to SDS, SU-25. Alignment If the camber is not within specification, inspect and replace gauge any damaged or worn rear suspension parts. AT SFA948A AX Toe-in NHSI 10030503 Front Toe-in is preset at factory and cannot be adjusted. Measure toe-in using following procedure. If out of SU specification, inspect and replace any damaged or worn rear Hub center suspension parts. WARNING: Perform following procedure always on a flat surface. . Make sure that no person is in front of the vehicle before • ST Base line pushing it. 1. Bounce rear of vehicle up and down to stabilize the posture. Measuring point SFA614B 2. Push the vehicle straight ahead about 5 m (16 ft). Put a mark on base line of the tread (rear side) of both tires at 3. Lines parallel to the same height of hub center. This mark is a measuring point. center line of body Measure distance "A" (rear side). 4. BT 5. Push the vehicle slowly ahead to rotate the wheels 180 degrees (1/2 turn). HA If the wheels have rotated more than 180 degrees (1/2 turn), try the above procedure again from the beginning. Never push vehicle backward. SC Measure distance "B" (front side). 6 Total toe-in = A - B Total toe-in: A – B SFA234AC EL Refer to SDS, SU-25.

Removal and Installation

SEC. 431



🕐 : N•m (kg-m, ft-lb)

- 1. Washer
- 2. Bushing
- 3. Shock absorber mounting seal
- 4. Shock absorber mounting bracket
- 5. Distance tube

6. Bushing

8.

- 7. Bound bumper cover
 - Bound bumper
- 9. Coil spring
- 10. Shock absorber

- 11. Torsion beam
- 12. Control rod
- 13. Lateral link
- 14. ABS sensor
- 15. Suspension member

SSU015

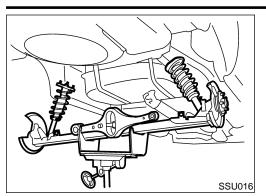
NHSU0031

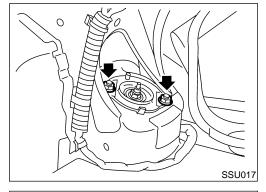
NHSU0031S01

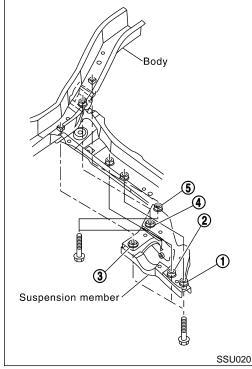
MA

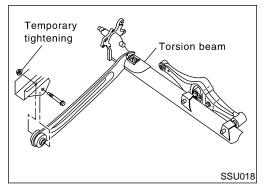
EM

FE









REMOVAL

CAUTION:

- Before removing the rear suspension assembly, disconnect the ABS wheel sensor from the assembly. Failure to do so may result in damage to the sensor wires and the sensor becoming inoperative.
- Remove suspension assembly.
- 1. Remove tires, then remove brake hose lock plate.
- 2. Disconnect parking brake cable from caliper and remove brake caliper and rotor.

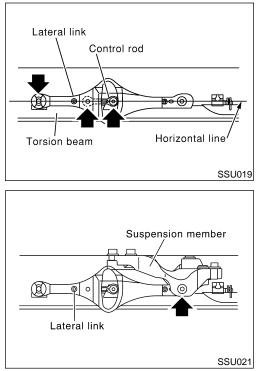
Suspend caliper assembly with wire so as not to stretch brake hose.

Be careful not to depress brake pedal, or piston will pop out.

- 3. Using a transmission jack, raise torsion beam a little, and remove nuts and bolts from the trailing arm, shock absorber assembly (lower side) and lateral link.
- 4. Lower transmission jack, and remove suspension.
- 5. Remove trunk room trim. Refer to BT-40, "Trunk Room Trim".
- 6. Remove strut securing nuts (upper side). Then pull out strut assembly. $$\mathbb{A}\mathbb{T}$$

•	STALLATION Install suspension assembly.	NHSU0031S02	AX
Re Ne 1.	fill with new brake fluid "DOT 3". ver reuse drained brake fluid. Install suspension member.		SU Br
a. b.	Temporarily tighten bolt 5. Tighten all bolts in numerical order shown in the figur Tightening torque: Refer to SU-20.	e.	ST
	Refer to 30-20.		RS
			BT
			HA
			SC
2.	Attach control rod to lateral link. Do not tighten bolt	e at thie	EL
3.	Attach lateral link, control rod and torsion beam to veh not tighten bolts at this time.		IDX

Removal and Installation (Cont'd)



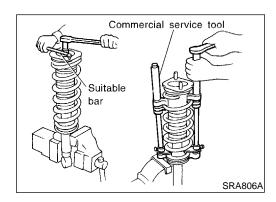
4. Using a transmission jack to lift the torsion beam, place lateral link and control rod horizontally against torsion beam. Tighten bolts and nuts to specified torque.

- 5. Tighten lateral link at suspension member.
- 6. Attach shock absorber assembly to vehicle. Then tighten the upper side of shock absorber assembly.
- 7. Remove transmission jack and lower torsion beam so that the shock absorber assembly reaches full extension. Tighten torsion beam and lower side of shock absorber assembly to specified torque.

Coil Spring and Shock Absorber REMOVAL AND INSTALLATION

NHSU0032

Remove shock absorber upper and lower fixing nuts. **Do not remove piston rod lock nut on vehicle.**



DISASSEMBLY

- Set shock absorber in vise, then loosen piston rod lock nut.
 Do not remove piston rod lock nut at this time.
- 2. Compress spring with Tool so that the shock absorber upper spring seat can be turned by hand.

WARNING:

Make sure that the pawls of the two spring compressors are firmly hooked on the spring. The spring compressors must be tightened alternately so as not to tilt the spring.

3. Remove piston rod lock nut.

INSPECTION

Shock Absorber Assembly

Check for smooth operation through a full stroke, both compression and extension.

- Check for oil leakage on welded or gland packing portions.
- Check piston rod for cracks, deformation or other damage. Replace if necessary.

Upper Rubber Seat and Bushing

Check rubber parts for deterioration or cracks. Replace if necessary.

NHSU0034

NHSU0034S02

SU-22

Coil Spring

necessary.

Check for cracks, deformation or other damage. Replace if

NHSU0034S03

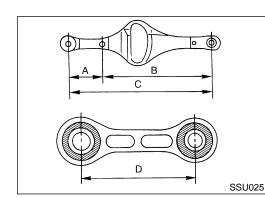
GI

MA ASSEMBLY LC NHSU0035 Front Locate upper spring seat as shown. • Shock absorber 57 Spring lower lower bushing end position center 12.8° AT Spring lower end position IН RH SRA699A AX When installing coil spring, be careful not to reverse top and bottom direction. (Top end is flat.) Upper end Тор When installing coil spring on shock absorber, it must be posi-Flat SU tioned as shown in figure at left. tail CAUTION: Do not reuse piston rod lock nut. ower end Bottom SFA436B Torsion Beam, Lateral Link and Control Rod DISASSEMBLY

- Remove torsion beam assembly. Refer to "Removal and Installation", "REAR SUSPENSION", SU-21.
- Remove lateral link and control rod from torsion beam.



HA



INSPECTION

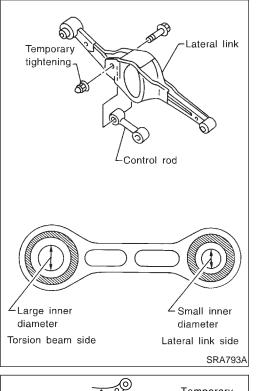
 Check for cracks, distortion or other damage. Replace if necessary.

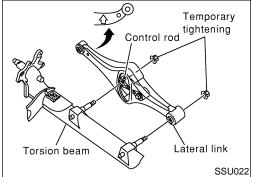
Standard length:

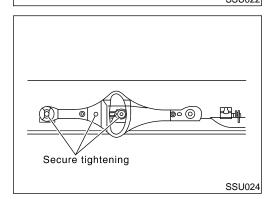
- A 206.5 208.5 mm (8.13 8.21 in)
- B 393.5 395.5 mm (15.49 15.57 in)
- C 600 604 mm (23.62 23.78 in)
- D 106 108 mm (4.17 4.25 in)
- Check all rubber parts for wear, cracks or deformation. Replace if necessary.

SU-23

Torsion Beam, Lateral Link and Control Rod (Cont'd)







ASSEMBLY

- 1. Temporarily assemble lateral link and control rod.
- When installing the control rod, connect the bush with the smaller inner diameter to the lateral link.

NHSU0038

- 2. Temporarily install lateral link and control rod on torsion beam.
- When installing, place lateral link with the arrow topside.

- 3. Place lateral link and control rod horizontally against torsion beam, and tighten to the specified torque.
- 4. Install torsion beam assembly. Refer to "Removal and Installation", "REAR SUSPENSION", SU-21.

Service Data and Specifications (SDS)

GENERAL SPECIFICATIONS (REAR)

Suspension type Shock absorber type		Multi-link beam suspension Double-acting hydraulic		_ GI
Camber Degree minute (Decimal degree)		Minimum	-1°45′ (-1.75°)	EN
		Nominal	-1°00′ (-1.00°)	
		Maximum	-0°15′ (-0.25°)	
Total toe-in	Distance (A – B)	Minimum	-3 (-0.12)	L(
	mm (in)	Nominal	1 (0.04)	
		Maximum	5 (0.20)	E(
	Angle (left plus right) Degree minute (Decimal degree)	Minimum	-16′ (-0.27°)	FE
		Nominal	5′30″ (0.09°)	
		Maximum	26′ (0.43°)	

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

AX

BR

ST

RS

BT

HA

SC

EL

IDX

NOTES