FRONT & REAR SUSPENSION

SECTION SU

MA

GI



LC

EC

FE

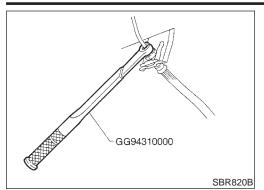
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- \- /	HA

SC

EL



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,

*: 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.

NMSU0002

NMSU0003

Preparation

SPECIAL SERVICE TOOLS

Tool number Tool name	Description		
HT72520000 Ball joint remover	NT146	PATP	Removing tie-rod outer end and lower ball joint

COMMERCIAL SERVICE TOOLS

Tool name	Description	
Attachment Wheel align- ment	b a.	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)
	NT360	

Tool name	Description		
Spring compressor	THE LEAD	Removing and installing coil spring	GI
	NT717		MA
Tension rod bushing drift		Removing and installing tension rod bushing a: 75 mm (2.95 in) dia. b: 66 mm (2.60 in) dia. c: 62 mm (2.44 in) dia.	LC
	NT155	d: 25 - 55 mm (0.98 - 2.17 in) dia.	EC
Attachment Wheel align- ment	c e e c	Measure wheel alignment a: Screw M22 x 1.5 pitch b: 35 mm (1.38 in) dia.	F
	bal	c: 65 mm (2.56 in) dia. d: 56 mm (2.20 in) e: 12 mm (0.47 in)	CL
	NT148		MT

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Noise, Vibration and Harshness (NVH) Troubleshooting

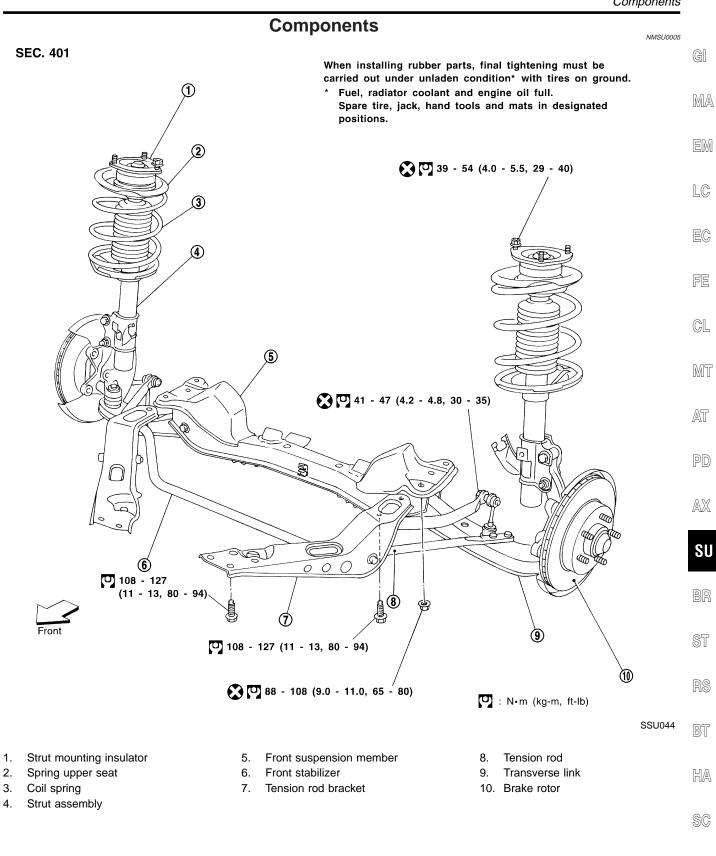
Noise, Vibration and Harshness (NVH) Troubleshooting

NVH TROUBLESHOOTING CHART

=NMSU0004

Use the chart below to help you find the cause of the symptom. If necessary, repair or replace these parts.

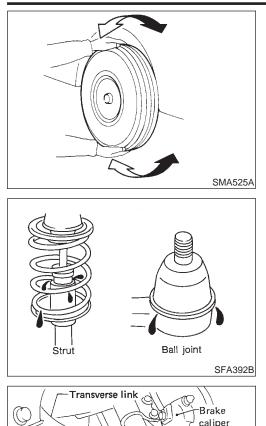
Refe	ere	nce page	SU-5, 15	SU-10, 20	I			SU-9, 18	SU-6	SU-11, 22	SU-6	I		I	I	I	I	AX-17	AX-3, AX-10	Refer to SUSPENSION in this chart.	Refer to TIRES in this chart.	Refer to ROAD WHEEL in this chart.	BR-5	ST-5
	Sl	le Cause JSPECTED	Improper installation, looseness	Shock absorber deformation, damage or 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	×	×	×	×		×										×	×		×	×	×	×
	SUSPENSION	Vibration	×	×	×	×	×											×	×		×			×
i		Shimmy	×	×	×	×			×										×		×	×	×	×
	SUSF	Judder	×	×	×														×		×	×	×	×
		Poor quality ride or han- dling	×	×	×	×	×		×	×									×		×	×		
		Noise	×								×	×	×	×	×	×		×	×	×		×	×	×
_		Shake	×								×	×	×	×	×		×	×	×	×		×	×	×
Symptom		Vibration											×				×	×	×	×				×
Sym	TIRES	Shimmy	×								×	×	×	×	×	×	×		×	×		×	×	×
	F	Judder	×								×	×	×	×	×		×		×	×		×	×	×
		Poor quality ride or han- dling	×								×	×	×	×	×		×		×	×		×		
		Noise	×								×	×			×			×	×	×	×		×	×
ļ		Shake	×								×	×			×			×	×	×	×		×	×
	ROAD WHEEL	Shimmy, Judder	×								×	×			×				×	×	×		×	×
×: Apr		Poor quality ride or han- dling	×								×	×			×				×	×	×			



- EL
- IDX

On-vehicle Service

Q



Dial

Pry bar

Lower ball joint

SFA556A

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
 - verse link.
- 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.

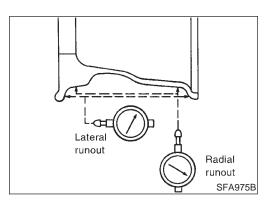
Vertical end play: 0 mm (0 in)

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.



Preliminary Inspection

- 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.
- a. Remove tire from wheel and mount wheel on a tire balance machine.

NMSU0007S01

b. Set dial indicator as shown in the illustration.

Wheel runout (Dial indicator value): Refer to SDS, SU-13.

3. Check front wheel bearings for looseness.

SU-6

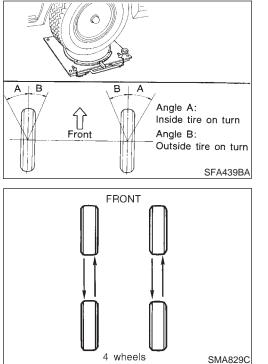
4. Check front suspension for looseness. 5. Check steering linkage for looseness. Check that front shock absorbers work properly. 6. 7. Check vehicle posture (Unladen). MA LC Camber, Caster and Kingpin Inclination NMSU0007S02 Camber, caster and kingpin inclination are preset at factory Attachment EC and cannot be adjusted. Measure camber, caster and kingpin inclination of both right 1. and left wheels with a suitable alignment gauge. Alignment gauge Camber, caster and kingpin inclination: Refer to SDS, SU-13. CL 2. If camber, caster or kingpin inclination is not within specification, inspect front suspension parts. Replace damaged or worn out parts. MT SFA948A Toe-in NMSU0007S03 AT Measure toe-in using the following procedure. Front WARNING: Always perform the following procedure on a flat surface. . Hub center Make sure that no person is in front of the vehicle before pushing it. Bounce front of vehicle up and down to stabilize the posture. 1. AX 2. Push the vehicle straight ahead about 5 m (16 ft). Base line 3. Put a mark on base line of tread (rear side) of both tires at the SU same height as hub center. These are measuring points. Measuring point AFA050 Measure distance "A" (rear side). 4. Lines parallel to Push the vehicle slowly ahead to rotate the wheels 180 5. center line of body degrees (1/2 turn). If the wheels have rotated more than 180 degrees (1/2 turn), try the above procedure again from the beginning. Never push vehicle backward. 6. Measure distance "B" (front side). Total toe-in: Refer to SDS, SU-13. Total toe-in = A - B SFA234AC Adjust toe-in by varying the length of steering tie-rods. 7. HA a. Loosen lock nuts. Adjust toe-in by screwing tie-rods in and out. b. SC Standard length "L": 164.2 mm (6.46 in) Tighten lock nuts to specified torque. C. Lock nut tightening torque: EL 37 - 46 N·m (3.7 - 4.7 kg-m, 27 - 33 ft-lb)

height

Fron

SFA545A

On-vehicle Service (Cont'd)



FRONT SUSPENSION

Front Wheel Turning Angle

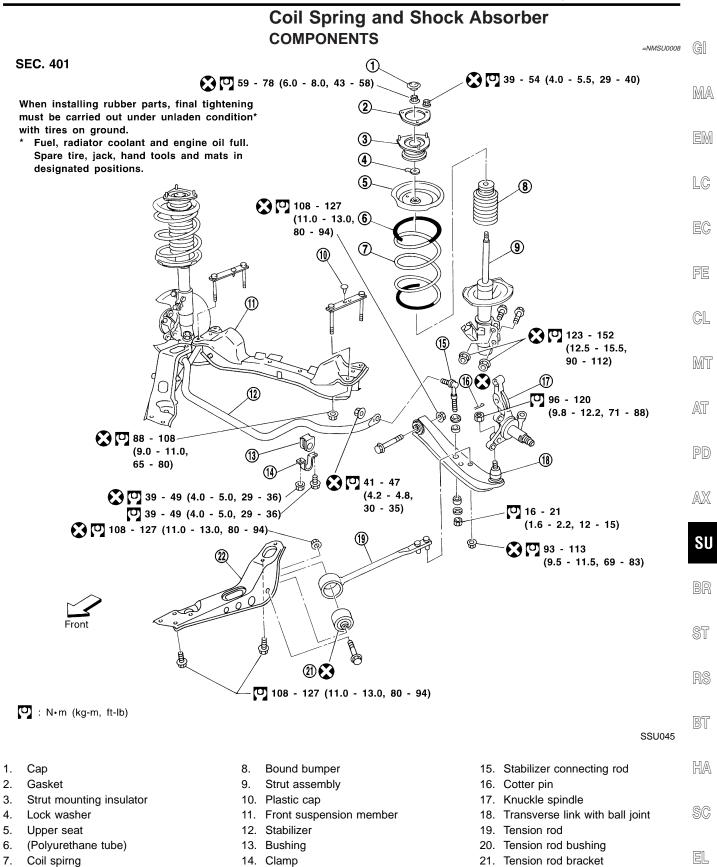
- Set wheels in straight-ahead position. Then move vehicle forward until front wheels rest on turning radius gauge properly.
- 2. Rotate steering wheel all the way right and left; measure turning angle.

Do not hold the steering wheel on full lock for more than 15 seconds.

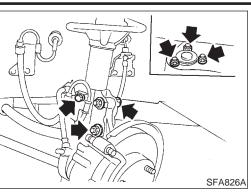
Wheel turning angle (Full turn): Refer to SDS, SU-13.

Tire Rotation

Do not include the T-type spare tire when rotating the tires.
 O : 99 - 117 N·m (10.1 - 11.9 kg-m, 73.0 - 86.3 ft-lb)

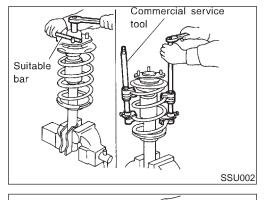


Coil Spring and Shock Absorber (Cont'd)



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

NMSU0011

- 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.

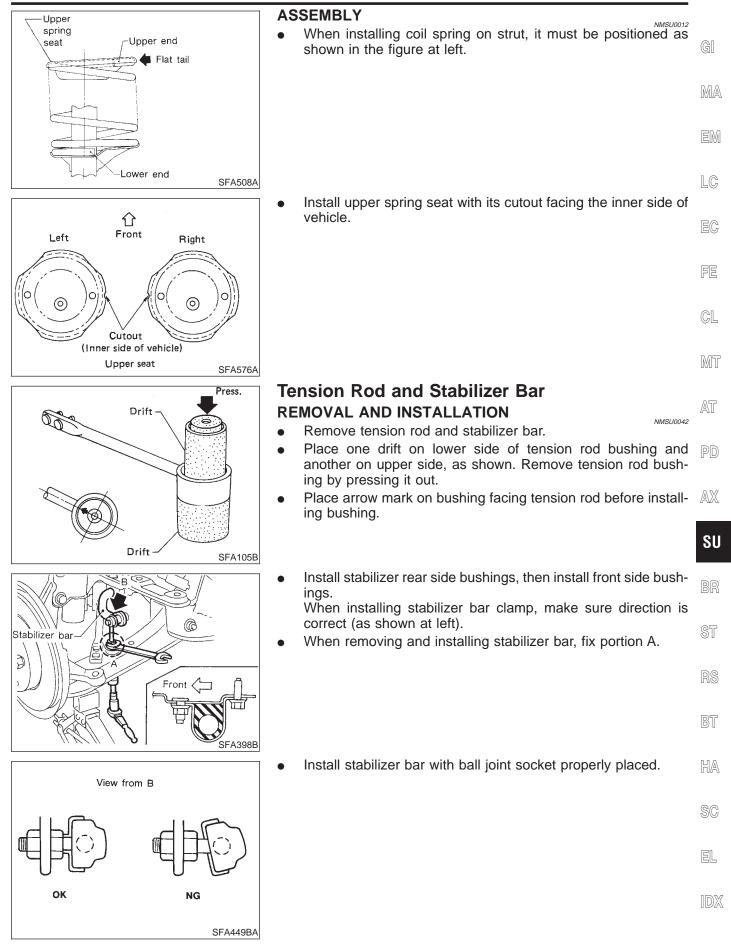
Thrust Bearing

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

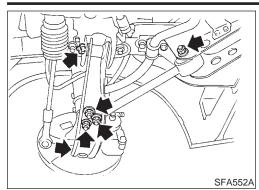
Coil Spring

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

SU-10



Transverse Link and Lower Ball Joint



Transverse Link and Lower Ball Joint REMOVAL AND INSTALLATION

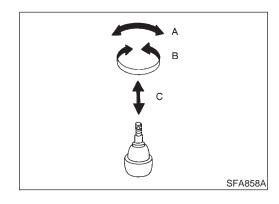
- Remove stabilizer, tension rod, ball joint and transverse link assembly.
- During installation, final tightening must be carried out at curb weight with tires on ground.
- After installation, check wheel alignment. Refer to "Front Wheel Alignment" of ON-VEHICLE SERVICE (SU-6).

INSPECTION

Transverse Link

NMSU0019

- 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.



Lower Ball Joint

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

```
Swinging force "A":
(measuring point: cotter pin hole of ball stud):
7.8 - 54.9 N (0.8 - 5.6 kg, 1.8 - 12.3 lb)
Turning torque "B":
0.5 - 3.4 N·m (5 - 35 kg-cm, 4.3 - 30.4 in-lb)
Vertical end play "C":
0 mm (0 in)
```

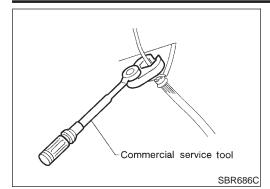
• Check dust cover for damage. Replace it and cover clamp if necessary.

Service Data and Specifications (SDS)

GENERAL SPECIFICATIONS (FRONT)

			lacPherson strut					
Shock absorber type		Double-acting	hydraulic					
Stabilizer bar		Standard equip						
	ALIGNMENT (UNLA	ADEN*1)		NMSU0021				
Camber			Minimum -1°45′ (-1.75°)					
Degree minute (Decimal o	degree)		Nominal	-1°00′ (-1.00°)				
			Maximum	-0°15′ (-0.25°)				
			Left and right difference	45' (0.75°) or less				
Caster			Minimum	6°10′ (6.17°)				
Degree minute (Decimal degree)			Nominal	6°55′ (6.92°)				
			Maximum	7°40′ (7.67°)				
			Left and right difference	45' (0.75°) or less				
Kingpin inclination			Minimum	13°10′ (13.17°)				
Degree minute (Decimal o	degree)		Nominal	13°55′ (13.92°)				
			Maximum	14°40′ (14.67°)				
Total toe-in			Minimum	1 (0.04)				
	Distance (A – B) mm (in)		Nominal	2 (0.08)				
			Maximum	3 (0.12)				
			Minimum	2'30″ (0.04°)				
	Angle (left plus right) Degree minute (Decimal degree)		Nominal	5′ (0.08°)				
			Maximum	7′30″ (0.13°)				
Wheel turning angle Full turn*2	Inside Degree minute (Decimal	degree)	Nominal	40°15′ (40.25°)				
	Outside Degree minute (Decimal	degree)	Nominal	32°10′ (32.17°)				
	nodels, wheel turning force	-	nd tools and mats in designate ence of steering wheel) of 98	ed positions. to 147 N (10 to 15 kg, 22 to 33 lb) with				
Swinging force "A" (Measuring point: cotter p	in hole of ball stud) N (kg, lb))	7.8 - 54.9	9 (0.8 - 5.6, 1.8 - 12.3)				
Turning torque "B" N·m	(kg-cm, in-lb)		0.5 - 3.	4 (5 - 35, 4.3 - 30.4)				
	n (in)			0 (0)				

Wheel type	Aluminum	Steel	wheel	SC
wheel type	Aluminum	Inside	Outside	_
Maximum radial runout limit mm (in)	0.3 (0.012) or less	0.8 (0.031) or less	0.4 (0.016) or less	- EL
Maximum lateral runout limit mm (in)	0.3 (0.012) or less	1.0 (0.039) or less	0.9 (0.035) or less	
				- IDX



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.

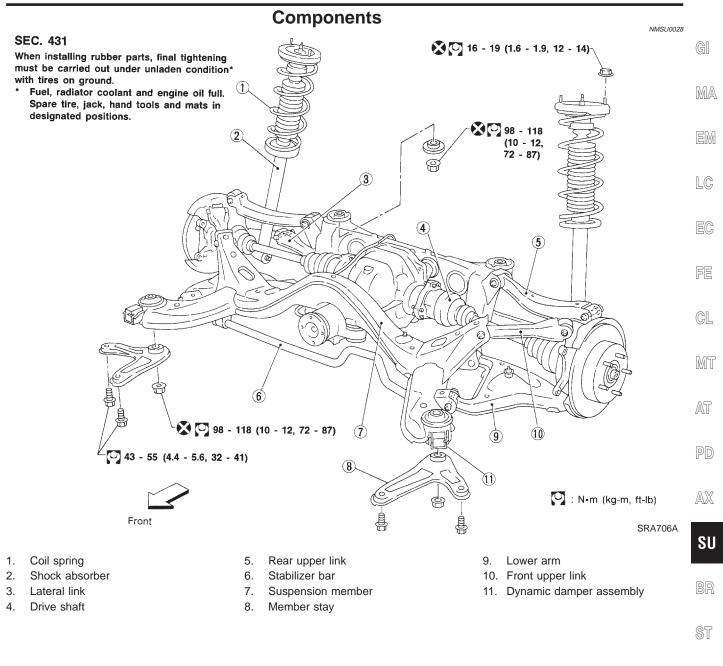
COMMERCIAL SERVICE TOOLS NMSU0026 Tool name Description Equivalent to Removing and installing brake piping GG94310000 a: 10 mm (0.39 in) 1 Flare nut crowfoot 2 Torque wrench NT360 Spring compressor Removing and installing coil spring NT717 Arm bushing remover Removing and installing bushing of rear axle housing M NT157

Preparation

Noise, Vibration and Harshness (NVH) Troubleshooting

NMSU0027

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



BT

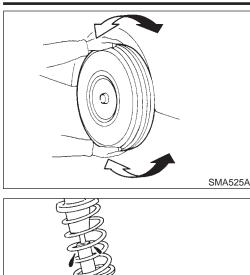
HA

SC

- EL
- IDX

SU-15

On-vehicle Service



runout

REAR SUSPENSION

SMA113

Radial runout

SFA975B

1.

On-vehicle Service REAR SUSPENSION PARTS

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

- Shake each rear wheel to check for excessive play.
 - Retighten all nuts and bolts to the specified torque. **Tightening torque: Refer to "REAR SUSPENSION", SU-15.**
- Check shock absorber for oil leakage or other damage.
- Check shock absorber bushing for excessive wear and other damage.

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

- Check tires for wear and improper inflation.
- 2. Check wheels for deformation, cracks and other damage. If deformed, remove wheel and check wheel runout.

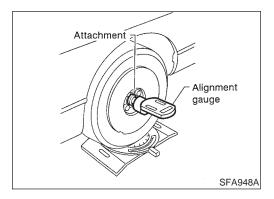
NMSU0030501

NMSU0030S02

- a. Remove tire from wheel and mount wheel on a tire balance machine.
- b. Set dial indicator as shown in the illustration.

Wheel runout (Dial indicator value): Refer to SDS, SU-13.

- 3. Check front wheel bearings for looseness.
- 4. Check front suspension for looseness.
- 5. Check steering linkage for looseness.
- 6. Check that front shock absorbers work properly.
- 7. Check vehicle posture (Unladen).

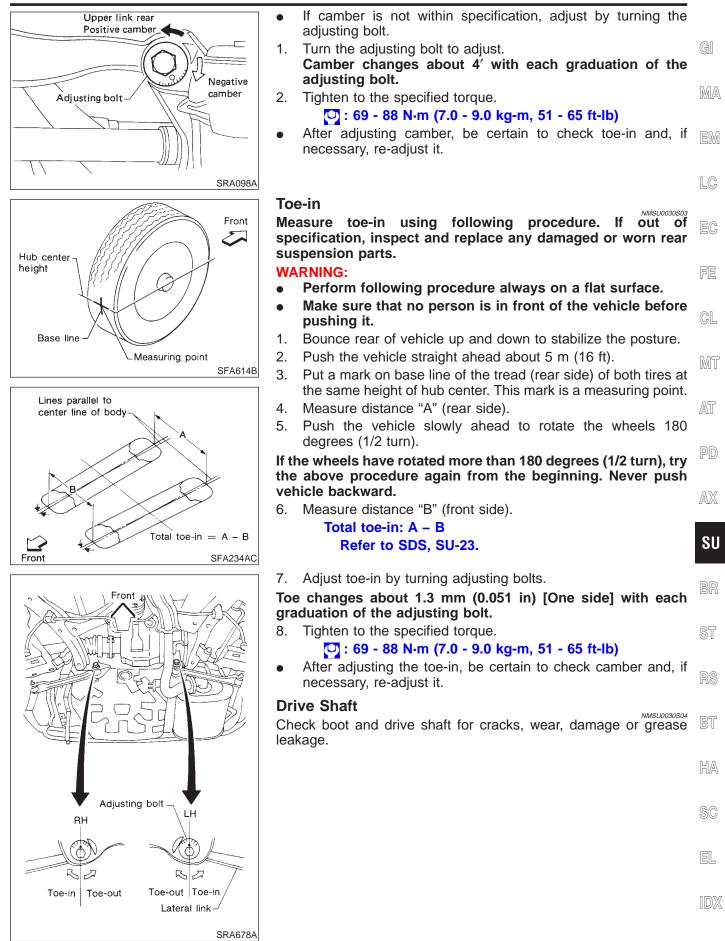


Camber

Camber is preset at factory and cannot be adjusted. Camber:

Refer to SDS, SU-23.

• If the camber is not within specification, inspect and replace any damaged or worn rear suspension parts.



Do not jack up at lower link.

SEC. 380•396•431

CAUTION:

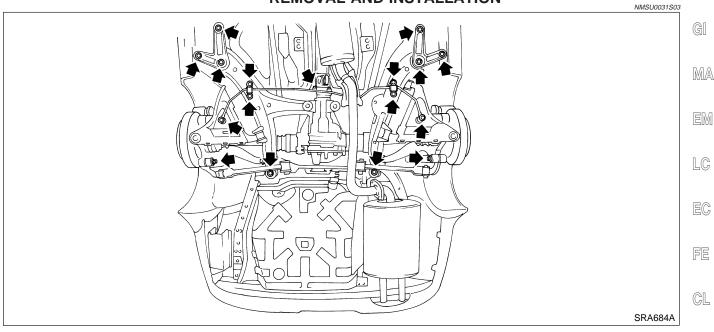
Removal and Installation



When installing rubber parts, final tightening must be carried out under unladen condition* 69 - 88 77 - 98 with tires on ground. (7.0 - 9.0,(7.9 - 10.0, 57 - 72)* Fuel, radiator coolant and engine oil full. 51 - 65) (13) (1)Spare tire, jack, hand tools and mats in designated positions. 🔁 🌄 16 - 19 \mathbf{X} (1.6 - 1.9)98 - 118 B (14) (1.2 - 1.4, 9 - 10) 12 - 14 (1.2 - 1.4, 9 - 10) (10 - 12, 72 - 87) 12 - 14) .(2) $\bigcirc \bigtriangledown$ 18 - 24 ⑫ മ (1.8 - 2.4, 13 - 17) O 3 6 \mathfrak{O} (4) 77 - 98 (5) (7.9 - 10.0, 6 57 - 72) (24) \odot 98 - 118 \bigcirc (10 - 12, 72 - 87) 8 ¢ 69 - 88 (9) (7.0 - 9.0, 51 - 65) 98 - 118 (10 - 12, 😧 🖳 9 - 11 72 - 87) (0.9 - 1.2, \odot 79 - 104) 77 - 98 (7.9 - 10.0, 57 - 72) 43 - 55 (4.4 - 5.6, 32 - 41)71 - 86 77 - 98 (7.2 - 8.8, 52 - 64) (7.9 - 10.0, 16 57 - 72)-@ 98 - 118 A ύ (10 - 12, 72 - 87) Front Ð 19 20 (18) 법 - É (22) 34 - 44 Ø ē (3.5 - 4.5, 25 - 33) 98 - 118 5 (10 - 12, 9 💽 🖳 9 - 11 (0.9 - 1.2, 79 - 104) 72 - 87) (23) N 6 🕑 : N•m (kg-m, in-lb) Ū 206 - 275 43 - 55 (4.4 - 5.6, 32 - 41) 💟 : N•m (kg-m, ft-lb) (21 - 28, 152 - 203) SSU046 Cap 10. Coil spring 18. Axle housing 1. Gasket 11. Shock absorber 19. Drive shaft 2. Upper plate 12. Suspension member 20. Connecting rod 3. 4. Bushing 13. Rear upper link 21. Final drive 14. Front upper link 5. Upper spring seat 22. Stabilizer bar Upper rubber seat 6. 15. Lateral link 23. Bushing 7. Bushing Lower arm 24. Member stay 16. 17. Protector 25. Dynamic damper assembly 8. Plate

9. Bumper rubber with dust cover

REMOVAL AND INSTALLATION



CAUTION:

Before removing the rear suspension assembly, disconnect the ABS sensor from the assembly. Then move it away from the rear suspension assembly. Failure to do so may result in damages to the sensor wires, making the sensor inoperative.

- 1. Remove exhaust tube.
- 2. Disconnect propeller shaft rear end.
- 3. Disconnect hand brake wire front end.

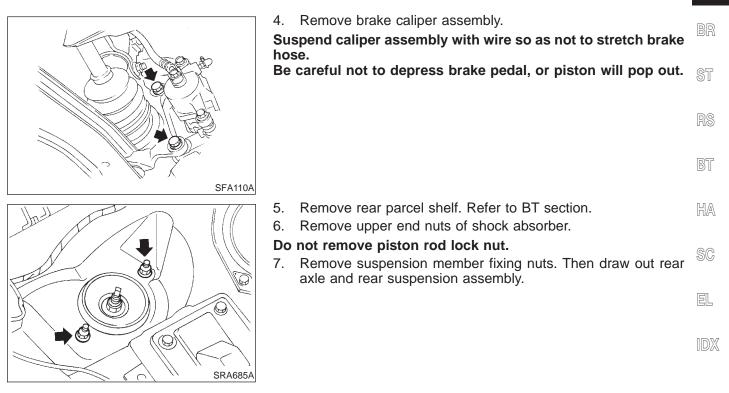
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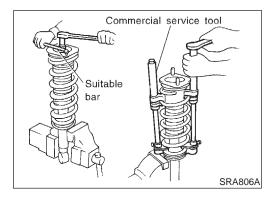
SU



Coil Spring and Shock Absorber REMOVAL AND INSTALLATION

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

NMSU0032



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

NMSU0034

NMSU0034S02

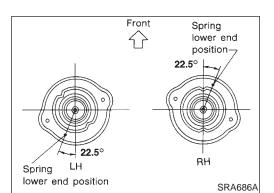
- Check for smooth operation through a full stroke, both compression and extension.
- Check for oil leakage on welded or gland packing portions.
- Check piston rod for cracks, deformation or other damage. Replace if necessary.

Upper Rubber Seat and Bushing

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

Coil Spring

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



ASSEMBLY

• Locate upper spring seat as shown.

NMSU0035

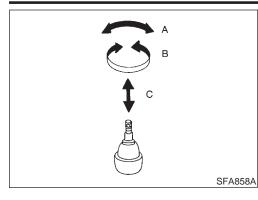
	Coil Spring and Shock Absorber (Cont'd)	
Top Upper end	 When installing coil spring, be careful not to reverse top and bottom direction. (Top end is flat.) When installing coil spring on shock absorber, it must be positioned as shown in figure at left. 	GI
	CAUTION: Do not reuse piston rod lock nut.	MA
Bottom Lower end		EM
SFA436B	Multi-link and Lower Ball Joint	LC
	 REMOVAL AND INSTALLATION Refer to "Removal and Installation" of REAR SUSPENSION (SU-18). 	EC
Matchmarks-	 Before removing, put matchmarks on adjusting pin. When installing, final tightening must be carried out at curb weight with tires on ground. 	FE
	 After installation, check wheel alignment. Refer to "Rear Wheel Alignment" of ON-VEHICLE SERVICE (SU-16). 	CL
SRA129A		MT
		AT PD
		AX
C Brog		SU
		BR
Adjusting bolt		ST
Toe-in Toe-out Toe-in		RS
Lateral link -		BT
	INSPECTION NMSU0044 Rear Suspension member	HA

Replace suspension member assembly if cracked or deformed or if any part (insulator, for example) is damaged.

Upper and Lower Links

Replace upper or lower link as required if cracked or deformed or if bushing is damaged.

Multi-link and Lower Ball Joint (Cont'd)



Lower Ball Joint

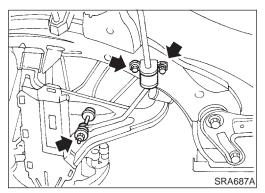
 Check ball joint for play. Replace transverse link assembly if any of the following cases occur. Ball stud is worn, play in axial direction is excessive or joint is hard to swing.

Swing Force and Turning Torque

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

Swing force "A": (measuring point: cotter pin hole of ball stud) 7.8 - 54.9 N (0.8 - 5.6 kg, 1.8 - 12.3 lb) Turning torque "B": 0.5 - 3.4 N·m (5 - 35 kg-cm, 4.3 - 30.4 in-lb) Vertical end play "C":

0 mm (0 in)



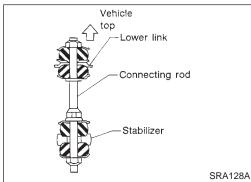
Stabilizer Bar

- REMOVAL
- Remove connecting rod and clamp.

NMSU0045

INSPECTION

- Check stabilizer bar for deformation or cracks. Replace if necessary.
- Check rubber bushings for deterioration or cracks. Replace if necessary.



INSTALLATION

When installing connecting rod, make sure direction is correct (as shown at left).

Service Data and Specifications (SDS)

GENERAL SPECIFICATIONS (REAR)

GENERAL SP	ECIFICATIONS (REAR)		=NMSU003	39 (
Suspension type		Independent multi-link with	coil spring	-
Shock absorber type		Double-acting hydraulic		-
Stabilizer		Standard equipment		_
REAR WHEEL	. ALIGNMENT (UNLADEN*)		NMSU004	40
Camber Degree minute (Decimal degree)		Minimum	-0°55′ (-0.92°)	- [
		Nominal	-1°25′ (-1.42°)	-
		Maximum	-1°55′ (-1.92°)	-
Total toe-in	Distance (A – B)	Minimum	0 (0)	_
	mm (in)	Nominal	2.6 (0.102)	_
		Maximum	5.2 (0.205)	-
Angle (left plus right) Degree minute (Decimal degree)		Minimum	0′ (0°)	_ (
	Degree minute (Decimai degree)	Nominal	7′ (0.12°)	_ (
		Maximum	14′ (0.23°)	-

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

AT

PD

AX

SU

BR

ST

RS

BT

HA

SC

SU-23

EL

NOTES