FRONT & REAR SUSPENSION

SECTION SU

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Precautions



Precautions PRECAUTIONS

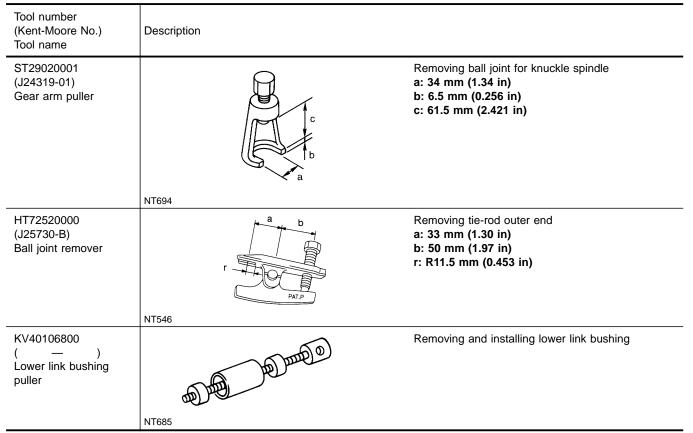
- When installing rubber parts, final tightening must be carried out under unladen condition* with tires on ground.
 *: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.
- Use flare nut wrench when removing and installing brake tubes.
- After installing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

NGSU0002

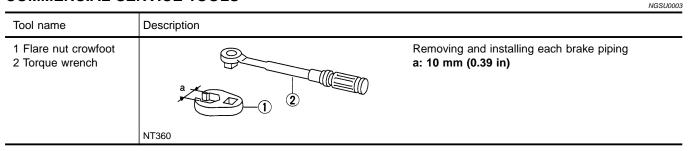
• Always torque brake lines when installing. **Preparation**

SPECIAL SERVICE TOOLS

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



COMMERCIAL SERVICE TOOLS



Noise, Vibration and Harshness (NVH) Troubleshooting

Noise, Vibration and Harshness (NVH) Troubleshooting

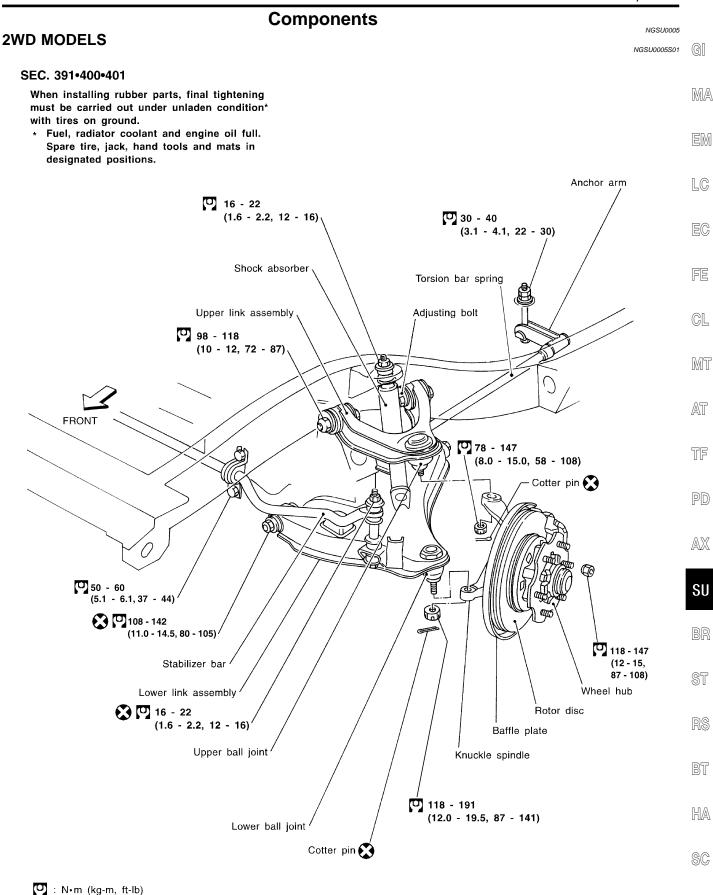
		ROUBLI													otir oton	•	lepa	air d	or rep	lace	e pa	arts a	s nec	essar	NGSU	SU0004 0004S01	G
Refe	ərer	nce page	SU-5, 23	SU-14, 24	1	I	1	SU-13, 24	SU-7	SU-16	SU-7	I	I	I	1	I	I	PD-4, NVH	PD-14, PD-62, PD-40, NVH	AX-3 , NVH	AX-3, NVH	Refer to SUSPENSION in this chart.	Refer to TIRES in this chart.	Refer to ROAD WHEEL in this chart.	BR-5 , NVH	ST-5, NVH	
Ind		e Cause ISPECTED	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	PROPELLER SHAFT	DIFFERENTIAL	DRIVE SHAFT	AXLE	SUSPENSION	TIRES	ROAD WHEEL	BRAKES	STEERING	E F C
		Noise	×	×	×	×	×	×										×	×	×	×		×	×	×	×	
		Shake	×	×	×	×		×										×		×	×		×	×	×	×	1
	NO	Vibration	×	×	×	×	×											×		×	×		×			×	
	SUSPENSION	Shimmy	×	×	×	×			×												×		×	×	×	×	
	JSPE	Judder	×	×	×																×		×	×	×	×	
	S	Poor quality ride or handling	×	×	×	×	×		×	×											×		×	×			
Ī		Noise	×								×	×	×	×	×	×		×	×	×	×	×		×	×	×	
		Shake	×								×	×	×	×	×		×	×		×	×	×		×	×	×	0
		Vibration											×				×	×		×	×	×				×	
ayiripituli	TIRES	Shimmy	×								×	×	×	×	×	×	×				×	×		×	×	×	0
וי	ΗĽ	Judder	×								×	×	×	×	×		×				×	×		×	×	×	
		Poor quality ride or handling	×								×	×	×	×	×		×				×	×		×			
ŀ		Noise	×								×	×			×			×	×	×	×	×	×		×	×	
	Ŀ.	Shake	×								×	×			×			×		×	×	×	×		×	×	
	ROAD WHEEL	Shimmy, Judder	×								×	×			×						×	×	×		×	×	60
	ROAI	Poor quality ride or bandling	×								×	×			×						×	×	×				

handling

Noise, Vibration and Harshness (NVH) Troubleshooting (Cont'd)

 \times : Applicable

Components

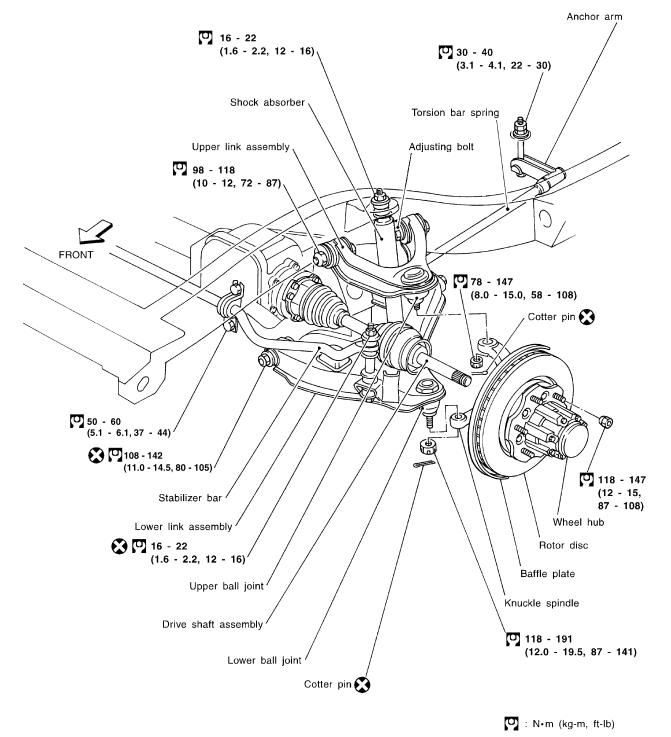


4WD MODELS

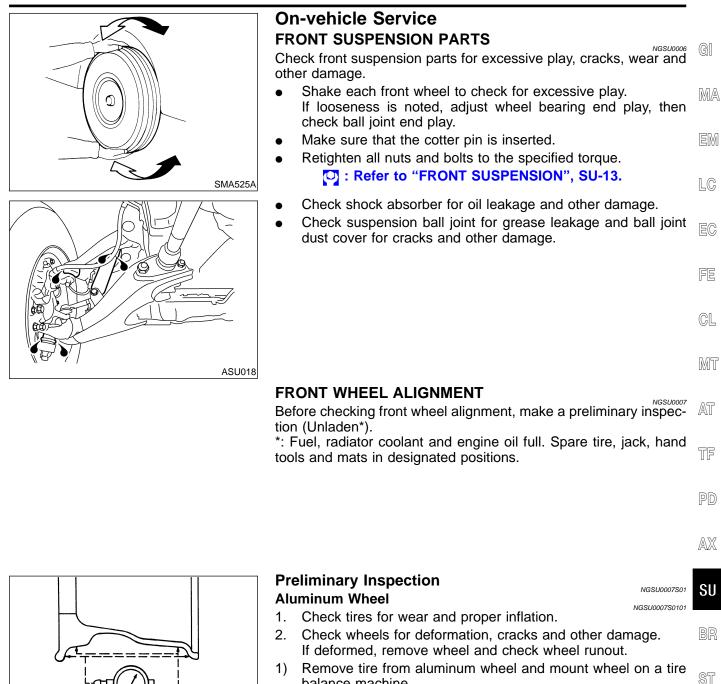
SEC. 391•400•401

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.



ASU058



- balance machine.
 Set dial indicator as shown in the illustration. Wheel runout (Dial indicator value): Refer to SDS, SU-19.
 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 by using the ${\rm MA}$ standard bounce test.

SC

BT

Lateral

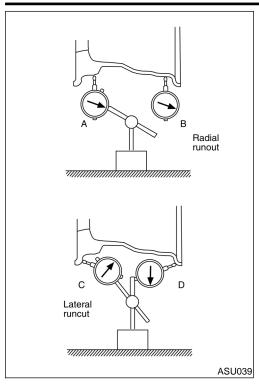
Radial runout

SFA975B

runout

On-vehicle Service (Cont'd)

FRONT SUSPENSION



Steel Wheel

- 1. Check tires for wear and proper inflation.
- 2. Check wheels for deformation, cracks and other damage. If deformed, remove wheel and check wheel runout.
- 1) Remove tire from steel wheel and mount wheel on a tire balance machine.

NGSU0007S0102

- 2) Set two dial indicator as shown in the illustrations.
- 3) Set each dial indicator to 0.
- 4) Rotate wheel, and check dial indicators at several points around the circumference of the wheel.
- 5) Calculate runout at each point as shown below. Radial runout = (A+B)/2 Lateral runout = (C+D)/2
- 6) Select maximum positive runout value and the maximum negative value.

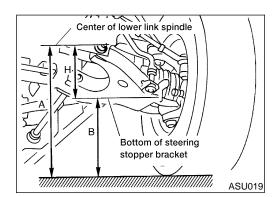
Add the two values to determine total runout.

In case a positive or negative value is not available, use the maximum value (negative or positive) for total runout.

If the total runout value exceeds the limit, replace steel wheel.

Radial runout limit: 0.5 mm (0.020 in) Lateral runout limit: 0.8 mm (0.031 in)

- 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 by using the standard bounce test.



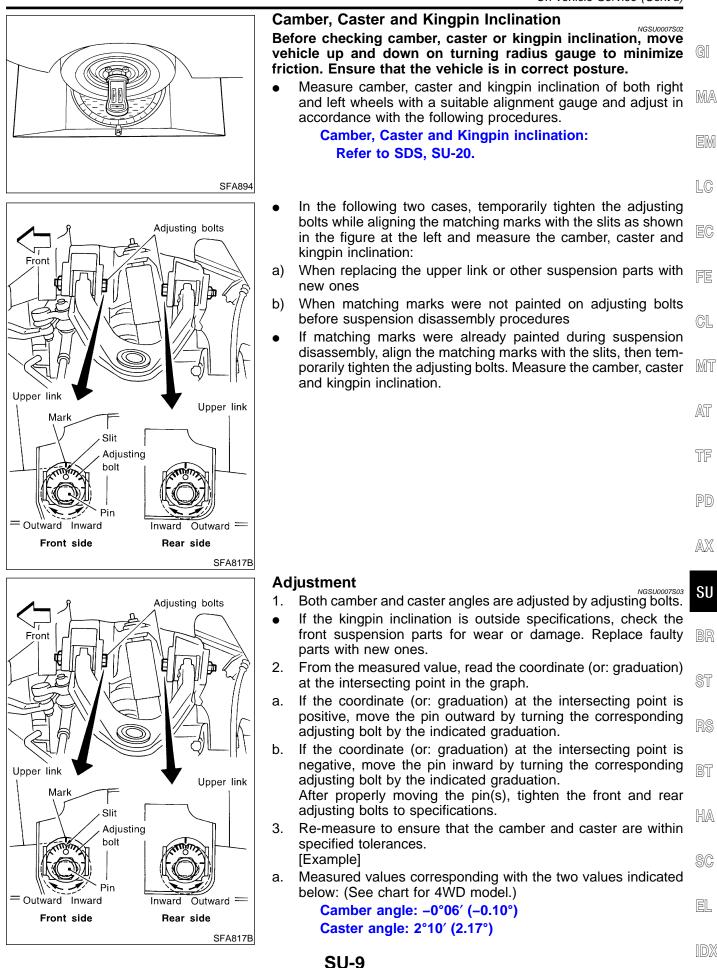
- Check vehicle posture (Unladen): H = A B mm (in) Refer to SDS, SU-20.
- a. Exercise the front suspension by bouncing the front of the vehicle 4 or 5 times to ensure that the vehicle is in a neutral height attitude.
- b. Measure wheel alignment.

Refer to SDS, SU-20.

- c. If wheel alignment is not as specified, adjust vehicle posture. Refer to SDS, SU-20.
- d. Adjust wheel alignment.

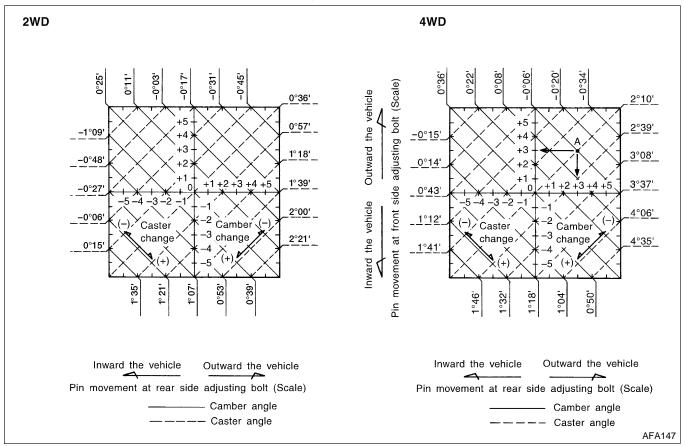
Refer to SDS, SU-20.

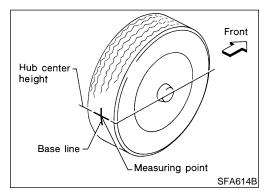
On-vehicle Service (Cont'd)

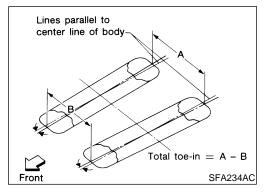


- b. Apply the above two values to the graph and determine point "A".
- c. The coordinate (or: graduation) indicates that both the front and rear adjusting bolts must be turned outward by 3 graduations.

Turn the adjusting bolts by the amount corresponding with the 3 graduations.







Toe-in

6.

Measure toe-in using the following procedure. WARNING:

• Always perform the following procedure on a flat surface.

NGSU0007S04

- Make sure that no one is in front of the vehicle before pushing it.
- 1. Bounce front of vehicle up and down to stabilize the posture.
- 2. Push the vehicle straight ahead about 5 m (16 ft).
- 3. Put a mark on base line of the tread (rear side) of both tires at the same height of hub center. This mark is a measuring point.
- 4. Measure distance "A" (rear side).
- 5. Push the vehicle slowly ahead to rotate the wheels 180 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.

Measure distance "B" (front side).

Total toe-in:

Refer to SDS, SU-20.

On-vehicle Service (Cont'd) 7. Adjust toe-in by varying the length of both steering tie-rods. a. Loosen lock nuts. GI Adjust toe-in by turning both the left and right tie-rod tubes b equal amounts. MA U LC ASU020 Make sure that the tie-rod bars are screwed into the tie-rod tube more than 35 mm (1.38 in). Make sure that the tie-rods are the same length. Front Standard length (A = B): 2WD KA24DE models FE 343.9 mm (13.54 in) 2WD and 4WD VG33E models CL 297.6 mm (11.72 in) A = B в Tighten clamp bolts or lock nuts, then torque them. c. MT ASU021 Front Wheel Turning Angle NGSU0007S05 AT Set wheels in straight-ahead position. Then move vehicle for-1. ward until front wheels rest properly on turning radius gauge. 2. Rotate steering wheel all the way right and left; measure turn-TF ing angle. AB В А On power steering models, turn steering wheel to full lock and • apply force (at circumference of steering wheel) of 98 to 147 Angle A: PD ∬ Front Inside tire on turn N (10 to 15 kg, 22 to 33 lb) with engine at idle. Angle B: Do not hold the steering wheel at full lock for more than Outside tire on turn 15 seconds. AX Wheel turning angle (Full turn): SFA439BA Refer to SDS, SU-20. SU

DD

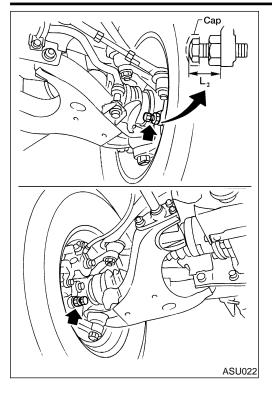
ST

BT

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SC

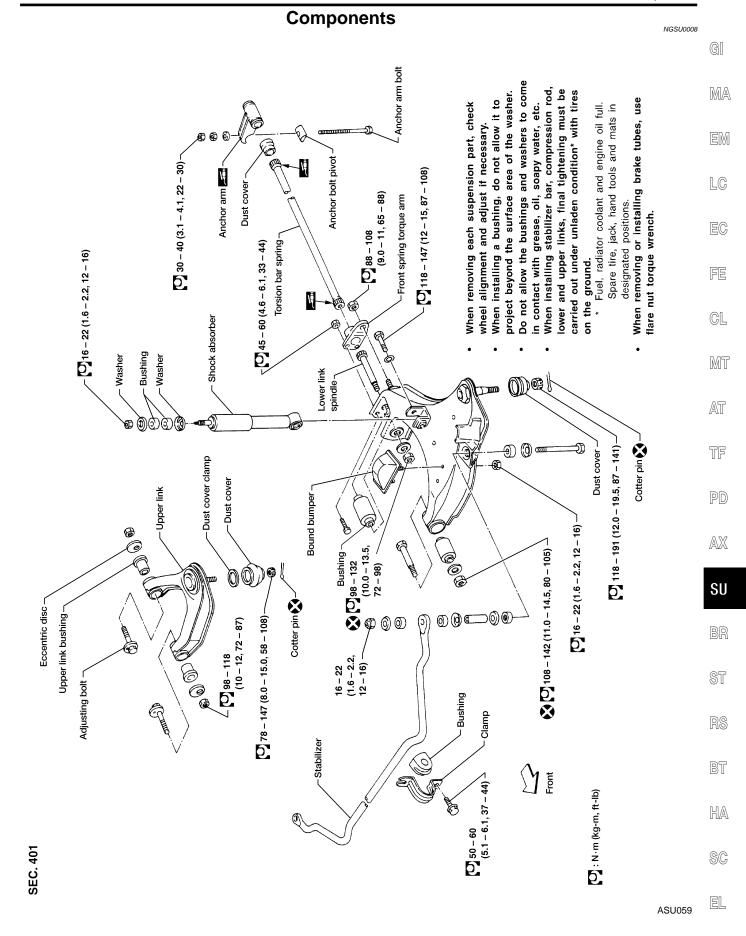
On-vehicle Service (Cont'd)



Adjust stopper bolt if necessary.
Standard length "L₁" (2WD KA24DE models):
20 mm (0.79 in)
(Length before cap is mounted)
Standard length "L₂" (2WD & 4WD VG33E models):
Except P265/70R15 tire:
26.5 mm (1.043 in)
(Length before cap is mounted)
P265/70R15 tire:
30.0 mm (1.2 in)
(Length before cap is mounted)

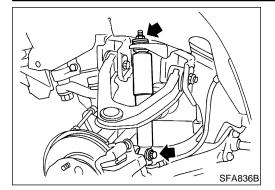


Components



SU-13

Shock Absorber



Shock Absorber REMOVAL AND INSTALLATION

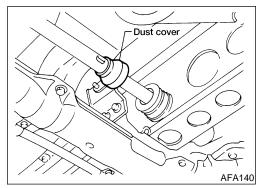
- 1. Support lower link with jack.
- 2. Remove bolt and nut that hold shock absorber.

INSPECTION

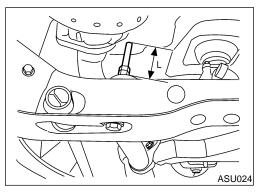
Except for nonmetallic parts, clean all parts with suitable solvent and dry with compressed air.

Use compressed air to blow dirt and dust off of nonmetallic parts.

- Check for oil leakage and cracks. Replace if necessary.
- Check piston rod for cracks, deformation and other damage. Replace if necessary.
- Check rubber parts for wear, cracks, damage and deformation. Replace if necessary.



Matching marks ASU023



Torsion Bar Spring REMOVAL

NGSU0011

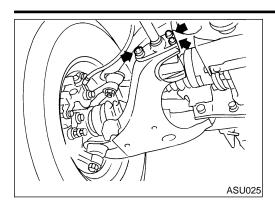
NGSU0009

- 1. Move dust cover.
- 2. Paint matching marks on the torsion bar spring and the corresponding arm.

Always use paint to place the matching mark; do not scribe the affected parts.

3. Measure anchor bolt protrusion "L" and remove the lock nut and adjusting nut.

Before removing the nuts, ensure that twisting force is eliminated from the torsion bar springs.



4. Remove torsion bar spring.

 Remove torque arm fixing nuts, then withdraw torsion bar spring forward with torque arm.

MA

ena

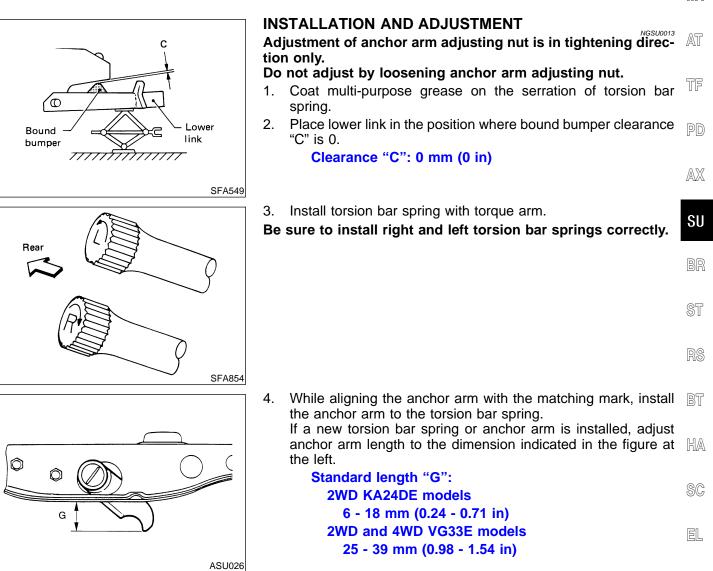
LC

INSPECTION

- Check torsion bar spring for wear, twist, bend and other damage.
- Check serrations of each part for cracks, wear, twist and other damage.
- Check dust cover for cracks.

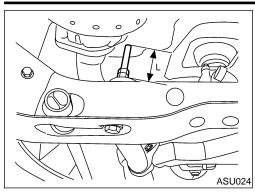
CL

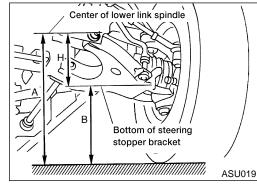
Mt



SU-15

Torsion Bar Spring (Cont'd)





5. Tighten the adjusting nut so the torsion bar length corresponds with dimension "L" previously measured during torsion bar removal. Tighten the lock nut to specifications.

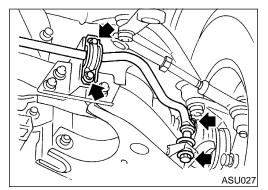
If a new torsion bar spring or anchor arm is installed, tighten the adjusting nut to the dimension indicated in the figure at the left, then tighten the lock nut to specifications.

Standard length "L": 2WD KA24DE models 54 mm (2.13 in) 2WD & 4WD VG33E models 70 mm (2.76 in)

- 6. Bounce vehicle with tires on ground (Unladen) to eliminate friction of suspension.
- 7. Measure vehicle posture "H".
- a. Exercise the front suspension by bouncing the front of the vehicle 4 or 5 times to ensure that the vehicle is in a neutral height attitude.
- b. Measure vehicle posture ... Dimension "H".
 - H = A B mm (in) "Unladen" Refer to "Wheel Alignment (Unladen)", "SDS", SU-20.
- 8. If height of the vehicle is not within allowable limit, adjust vehicle posture.

Refer to "Wheel Alignment (Unladen)", "SDS", SU-20.

9. Check wheel alignment if necessary. Refer to "Wheel Alignment (Unladen)", "SDS", SU-20.



White mark

Stabilizer Bar REMOVAL

Remove stabilizer bar connecting bolts and clamp bolts.

NGSU0015

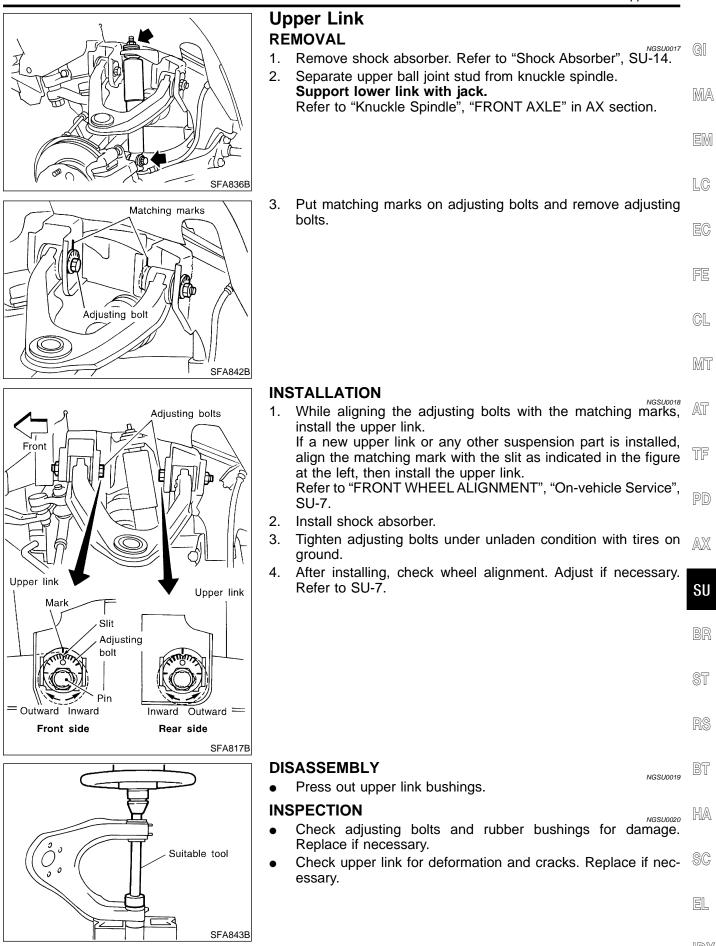
INSPECTION

- Check stabilizer bar for twist and deformation. Replace if necessary.
- Check rubber bushing for cracks, wear and deterioration. Replace if necessary.

INSTALLATION

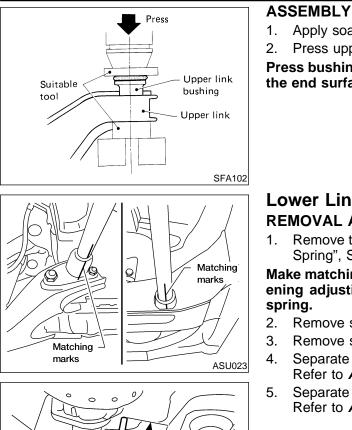
Install bushing outside of white mark painted on stabilizer.

Upper Link



Upper Link (Cont'd)

Q



- 1. Apply soapsuds to rubber bushing.
 - Press upper link bushing.

Press bushing so that the flange of bushing securely contacts the end surface of the upper link collar.

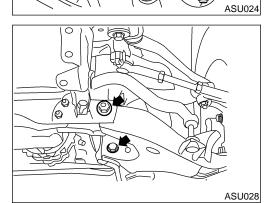
Lower Link **REMOVAL AND INSTALLATION**

Remove torsion bar spring. Refer to "REMOVAL", "Torsion Bar Spring", SU-14.

Make matching marks and measure dimension "L" when loosening adjusting nut until there is no tension on torsion bar spring.

- Remove shock absorber lower fixing bolt.
- Remove stabilizer bar connecting bolt.
- Separate drive shaft from front final drive (4WD models). Refer to AX-15, "Drive Shaft", "FRONT AXLE".
- Separate lower link ball joint from knuckle spindle. Refer to AX-13, "Knuckle Spindle", "FRONT AXLE".

Remove front lower link fixing bolts. 6.



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- Remove bushing of lower link spindle from frame with Tool. 7. After installing lower link, adjust wheel alignment and vehicle 8. height. Refer to "FRONT WHEEL ALIGNMENT", "On-vehicle Service", SU-7.

INSPECTION

Lower Link and Lower Link Spindle

NGSU0025

NGSU0021

- (KV40106800) (-)AFA138
- NGSU0025S01 Check for deformation and cracks. Replace if necessary.

Lower Link Bushing

NGSU0025S02 Check for distortion and damage. Replace if necessary.

	Upper Ball Joint and Lower Ball Joint	
	Upper Ball Joint and Lower Ball Joint REMOVAL AND INSTALLATION	
‡ °	 Separate knuckle spindle from upper and lower links. Refer to <i>AX-13</i>, "Knuckle Spindle", "FRONT AXLE". 	GI
	 INSPECTION Check joints for play. If ball is worn and play in axial direction is excessive or joint is hard to swing, replace as a upper link or lower link. Axial end play "C": 	MA EM
AFA136	Upper link	LC
	0 mm (0 in) Lower link 2WD KA24DE models 1.3 mm (0.051 in) or less 2WD & 4WD VG33E models 0.2 mm (0.008 in) or	EC
	 Iess Check dust cover for damage. 	FE
	Replace dust cover and dust cover clamp if necessary.	CL
		MT
GENERAL SPECIFICATIONS (FRO	Service Data and Specifications (SDS) NT)	AT
Suspension type	Independent double wishbone torsion bar spring	TF
Shock absorber type	Double-acting hydraulic	11
Stabilizer	Standard equipment	PD
WHEEL RUNOUT AVERAGE	NGSU0029	u e
	Steel	AX

			1AVA		
Wheel type	Aluminum	15 inches	14 ir		
		15 inches	Painted	Plated	SU
Radial runout limit mm (in)	0.3 (0.012)	0.5 (0.031)	0.5 (0.020)	0.5 (0.024)	
Lateral runout limit mm (in)	0.3 (0.012)	0.8 (0.031)	0.8 (0.031)	0.8 (0.031)	BR
			•		

UPPER BALL JOINT

Vertical end play "C"	mm (in)	0 (0)

LOWER BALL JOINT

Applied model	2WD	4WD					
Vertical end play "C" mm (in)	1.3 (0.051) or less	0.2 (0.008) or less	BT				

HA

RS

NGSU0030 ST

SC

WD Mode		(UNLADEN*1)			=NGSU00		
			Minimum		0°03′	NGSU00325		
-			Nominal		0°03′ (0.05°) 0°33′ (0.55°)			
Degree minute (Decimal degree)		Maximum		0°33° (0.55°) 1°03′ (1.05°)				
		Left and right	difference	45' (0.75°) or less				
			Minimum	unerence		(2.07°)		
			Nominal			(2.57°)		
Caster Degree minute	(Decimal degree)	Maximum			(3.07°)		
			Left and right	difference		°) or less		
			Minimum			(10.38°)		
Kingpin inclinat			Nominal			(10.88°)		
Degree minute	(Decimal degree)	Maximum			(11.38°)		
				Minimum		0.12)		
	Distance (A - I	В)	Radial tire	Nominal		0.16)		
	mm (in)			Maximum		0.20)		
Total toe-in				Minimum		0.25°)		
	Angle (left plus		Radial tire	Nominal	20' (0.33°)			
	Degree minute	(Decimal degree)		Maximum	25′ (0.42°)			
					Except P265/70R15	P265/70R15		
		Inside	Minimum		32°48′ (32.80°)	30°48′ (30.80°)		
		Degree minute (Decimal degree)	Nominal		34°48′ (34.80°)	32°48′ (32.80°)		
Wheel turning angle	Full turn*2		Maximum		34°48′ (34.80°)	32°48′ (32.80°)		
angio		Quitaida	Minimum		31°00′ (31.00°)	28°42′ (28.70°)		
		Outside Degree minute	Nominal		33°00′ (33.00°)	30°42′ (30.70°)		
		(Decimal degree)	Maximum		33°00′ (33.00°) 30°42′ (30.70°)			
Vehicle posture	e Lower arm pive	ot height (H) mm (in	i)		37.7 - 41.7 (*	1.484 - 1.642)		
						om of steering per bracket		

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

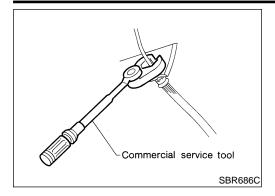
*2: On power steering models, wheel turning force (at circumference of steering wheel) of 98 to 147 N (10 to 15 kg, 22 to 33 lb) with engine idle.

Camber								
Camber			Minimum		0°06′ (0.10°)		
			Nominal		0°36′ (0.60°)			
Degree minute (Decimal degree)		Maximum		1°06′ (1.10°)			
			Left and right	difference	45′ (0.75°) or less			
			Minimum		1°40′ (1.67°)			
Caster			Nominal		2°10′ (
Degree minute (Decimal degree)		Maximum		2°40′ (.2.67°)		
			Left and right	difference	45′ (0.75	') or less		
			Minimum		10°18′ (10.30°)		
Kingpin inclinatio Degree minute (on Decimal degree)		Nominal		10°48′ (10.80°)		
			Maximum		11°18′ (.11.30°)		
				Minimum	3 (0	.12)		
	Distance (A – E mm (in)	3)	Radial tire	Nominal	4 (0.16) 5 (0.20)			
otal toe-in				Maximum				
				Minimum	15′ (0.25°)			
	Angle (left plus right) Degree minute (Decimal degree)		Radial tire	Nominal	20′ (0.33°)			
				Maximum	25′ (0	J.42°)		
					Except P265/70R15	P265/70R15		
		Inside Degree minute (Decimal degree)	Minimum		33°06′ (33.10°)	31°00′ (31.00°)		
			Nominal		35°06′ (35.10°)	33°00′ (33.00°)		
Vheel turning angle	Full turn*2		Maximum		35°06′ (35.10°) 33°00′ (33.00°)			
-		Outside	Minimum		31°12′ (31.20°)	29°00′ (29.00°)		
		Degree minute	Nominal		33°12′ (33.20°)	31°00′ (31.00°)		
		(Decimal degree)	Maximum		33°12′ (33.20°) 31°00′ (31.00°)			
/ehicle posture	Lower arm pivo	t height (H) mm (in)		45.5 - 49.5 (1	.791 - 1.949)		
						om of steering per bracket		

SC

REAR SUSPENSION

Precautions

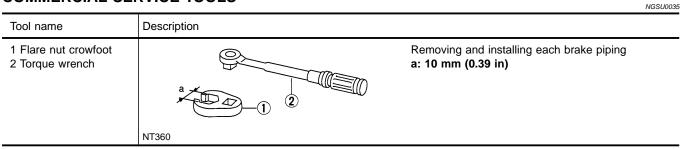


Precautions PRECAUTIONS

- 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.
- Use flare nut wrench when removing and installing brake tubes.
- After installing removed suspension parts, check wheel alignment and adjust if necessary.
- Always torque brake lines when installing.

Preparation

COMMERCIAL SERVICE TOOLS



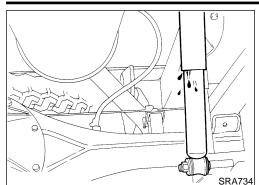
Noise, Vibration and Harshness (NVH) Troubleshooting

Noise, Vibration and Harshness (NVH) Troubleshooting GI =NGSU0036 Refer to "Noise, Vibration and Harshness (NVH) Troubleshooting", "FRONT SUSPENSION", SU-3. Components MA NGSU0037 SEC. 380 • 430 • 431 78 - 98 (8.0 - 10.0, 58 - 72) EM When installing rubber parts, final tightening must be carried out under unladen condition* with tires on ground. Fuel, radiator coolant and engine oil full. LC Spare tire, jack, hand tools and mats in designated positions. 🗶 🔽 117 – 147 (12 – 15, 86 – 108) **40 – 50 (4.1 – 5.1, 30 – 37)** 43 - 55 (4.4 - 5.6, 32 - 41) FE **41.2 - 47.1 (4.2 - 4.8, 30 - 35)** CL MT AT Front TF PD : N ⋅ m (kg-m, ft-lb) **118 – 147 (12 – 15, 87 – 108)** ASU030 AX **On-vehicle Service** SU **REAR SUSPENSION PARTS** NGSU0038 Check rear suspension parts for excessive play, wear and damage. Shake each rear wheel to check for excessive play. ST SMA525A Retighten all nuts and bolts to the specified torque. BT C: Refer to REAR SUSPENSION, SU-24. HA SC

ASU031

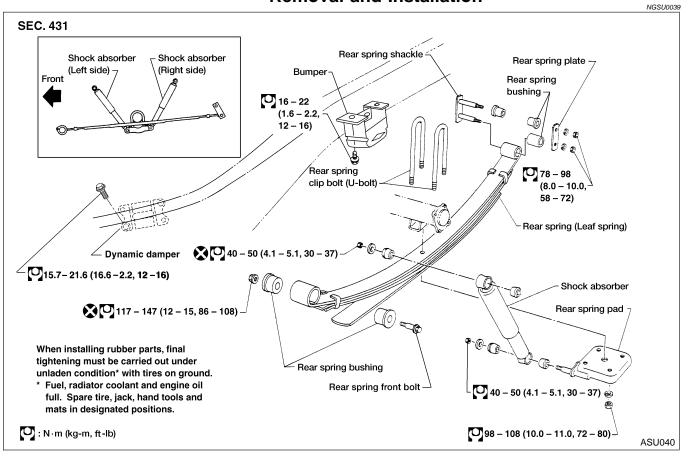
REAR SUSPENSION

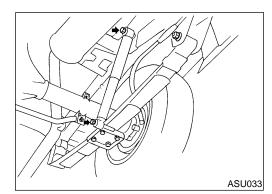
On-vehicle Service (Cont'd)



- Check shock absorber for oil leakage and other damage.
- Check shock absorber bushing for excessive wear and other damage.

Removal and Installation





Shock Absorber REMOVAL AND INSTALLATION

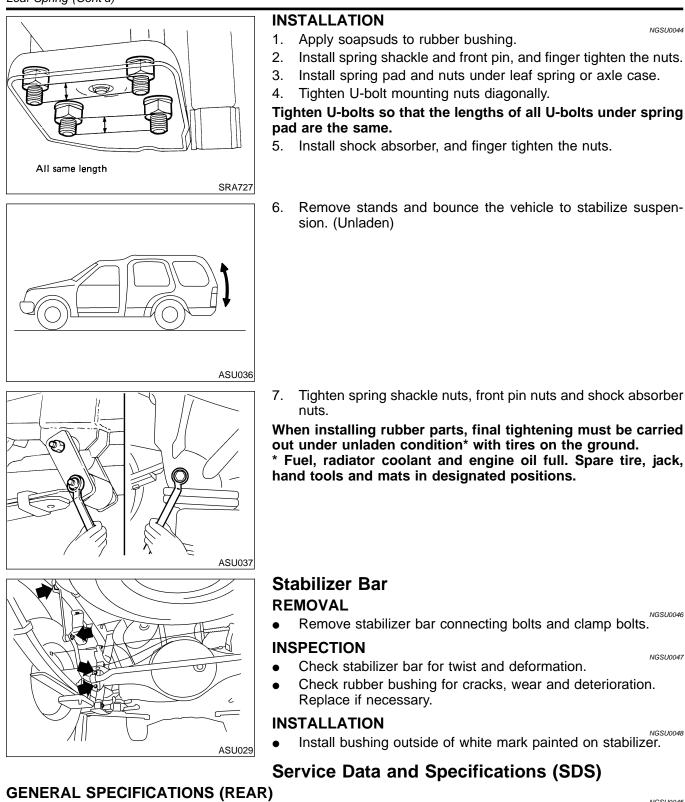
 Remove shock absorber by disconnecting upper and lower end.

REAR SUSPENSION

	 INSPECTION If oil leakage, cracks and deformation occurs, replace shock absorber assembly. If rubber bushings are cracked and deformed, replace rubber 	G]
	bushings.	MA EM
		LC
	Leaf Spring REMOVAL AND INSTALLATION 1. Disconnect shock absorber lower end, and remove U-bolts.	EC
		FE
		CL
SRA702	2. Disconnect spring shackle.	MT
		AT TF
		PD
ار <u>ر</u> ار		AX
	3. Disconnect front pin.	SU Br
		ST
ASU034		RS
	 INSPECTION Check leaf spring for cracks. Replace if necessary. Check front bracket and pin, shackle, U-bolts and spring pad for wear, cracks, straightness and damaged threads. Replace 	BT HA
	 if necessary. Check all bushings for deformation and cracks. Replace if necessary. (4WD models: Rear spring front bushing) Make sure that front bushing is properly installed. 	SC
ASU035	make our o that none buoning to property installed.	EL

Leaf Spring (Cont'd)

REAR SUSPENSION



Tighten U-bolts so that the lengths of all U-bolts under spring

NGSU0044

NGSU0047

NGSU0045

- 5. Install shock absorber, and finger tighten the nuts.
- Remove stands and bounce the vehicle to stabilize suspen-

Tighten spring shackle nuts, front pin nuts and shock absorber

When installing rubber parts, final tightening must be carried out under unladen condition* with tires on the ground. * Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

- NGSU0046 Remove stabilizer bar connecting bolts and clamp bolts.
- Check stabilizer bar for twist and deformation.
- Check rubber bushing for cracks, wear and deterioration.
- NGSU0048 Install bushing outside of white mark painted on stabilizer.

Service Data and Specifications (SDS)

Suspension type	Rigid axle with semi-elliptic leaf spring
Shock absorber type	Double-acting hydraulic