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PRECAUTIONS

PRECAUTIONS PFP:00001

Caution

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

- Unladen conditions mean that fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.
- After servicing suspension parts, be sure to check wheel alignment.
- Caulking nuts are not reusable. Always use new ones when installing. Since new caulking nuts are preoiled, tighten as they are.
- Avoid burden to front cross bar.

PREPARATION PREPARATION PFP:00002 Α **Special Service Tools (SST)** AES0002Q The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here. В Tool number (Kent-Moore No.) Description Tool name KV991040S0 CCK gauge attachment 1. Plate D 2. Guide bolts 3. Nuts 4. Springs 5. Center plate FSU Measuring wheel alignment 6. KV9910 4020 Adapter A a: 72 mm (2.83 in) dia. 7. KV9910 4030 Adapter B b: 65 mm (2.56 in) dia. 8. KV9910 4040 Adapter C c: 57 mm (2.24 in) dia. 9. KV9910 4050 Adapter D G d: 53.4 mm (2.102 in) dia. Н ST3565 2000 Disassembling and assembling shock absorber Strut attachment ZZA0807D ST3127 S000 (See J25742-1) Preload gauge 1. GG91030000 Torque wrench (J25765) Measuring rotating torque of ball joint 2. HT62940000 (—) Socket adapter (1/2") 3. HT62900000 (—) NT124 Socket adapter (3/8") **Commercial Service Tools** AES0002R M

Tool name		Description
Spring compressor	S-NT717	Removing coil spring
Power tool	PBICO190E	 Removing wheel nuts Removing brake caliper assembly Removing undercover Removing front suspension components parts

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING NVH Troubleshooting Chart

PFP:00003

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

	1 7	<u> </u>						,										
Reference page		FSU-8	FSU-11	I	I	I	FSU-8	FSU-6	FSU-18	NVH in PR section	NVH in RFD section.	NVH in RAX and RSU section.	NVH in WT section.	NVH in WT section.	NVH in RAX section.	NVH in BR section.	NVH in PS section.	
Possible cause and SUSPECTED PARTS		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	PROPELLER SHAFT	DIFFERENTIAL	REAR AXLE AND REAR SUSPENSION	TIRES	ROAD WHEEL	DRIVE SHAFT	BRAKES	STEERING	
		Noise	×	×	×	×	×	×			×	×	×	×	×	×	×	×
		Shake	×	×	×	×		×			×		×	×	×	×	×	×
Symptom FRC	FRONT SUSPENSION	Vibration	×	×	×	×	×				×		×	×		×		×
		Shimmy	×	×	×	×			×				×	×	×		×	×
		Judder	×	×	×								×	×	×		×	×
		Poor quality ride or handling	×	×	×	×	×		×	×			×	×	×			

^{×:} Applicable

FRONT SUSPENSION ASSEMBLY

PFP:54010

On-Vehicle Inspection and Service

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Make sure the mounting conditions (looseness, back lash) of each component and component statues (wear, damage) are normal.

INSPECTION OF BALL JOINT END PLAY OF EACH LINK

- 1. Set front wheels in a straight-ahead position. Do not depress brake pedal.
- 2. Check ball joint axial end play of each link.

CAUTION:

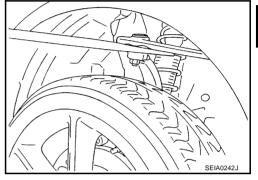
Be careful not to damage ball joint boot.

Upper Link Ball Joint

 Measure axial end play by installing and moving up/down with an iron pry bar or something similar between upper link and steering knuckle.

Standard value

Axial end play : 0 mm (0 in)

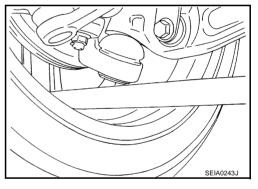


Steering Knuckle Lower Ball Joint

 Measure axial end play by installing and moving up/down with an iron pry bar or something similar between steering knuckle and wheel.

Standard value

Axial end play : 0 mm (0 in)

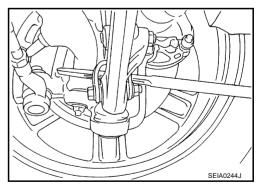


Compression Rod Ball Joint

 Measure axial end play by installing and moving up/down with an iron pry bar or something similar between compression rod and transverse link.

Standard value

Axial end play : 0 mm (0 in)



SHOCK ABSORBER INSPECTION

Check shock absorber for oil leakage, damage and replace if necessary. Refer to <u>FSU-10, "COIL SPRING AND SHOCK ABSORBER"</u>.

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Wheel Alignment Inspection DESCRIPTION

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Measure wheel alignment under unladen conditions.

NOTF:

Unladen conditions mean that fuel, engine coolant, and lubricant are full. Spare tire, jack, hand tools and mats are designated positions.

PRELIMINARY CHECK

- 1. Check tires for improper air pressure and wear.
- 2. Check road wheels for runout.
- 3. Check wheel bearing axial end play.
- 4. Check ball joint axial end play of compression rod, upper link, and steering knuckle
- 5. Check shock absorber operation.
- 6. Check each mounting part of axle and suspension for looseness and deformation.
- 7. Check each link, rod and member for cracks, deformation and other damage.
- 8. Check vehicle posture.

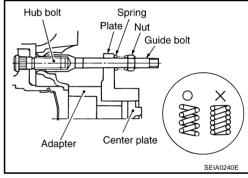
INSPECTION OF CAMBER, CASTER AND KINGPIN INCLINATION ANGLES

- Camber, caster, kingpin inclination angles cannot be adjusted.
- Before inspection, mount front wheels onto turning radius gauge. Mount rear wheels onto a stand that has same height so vehicle will remain horizontal.

Using a CCK Gauge

Install CCK gauge attachment (SST: KV991040S0) as following procedure in wheel, then measure wheel alignment.

- 1. Remove wheel nuts (2), and install a guide bolt to hub bolt.
- Screw adapter into plate body until it contacts body tightly.
- 3. Screw center plate into plate.
- Insert plate on guide bolt. Put spring in, and then evenly screw both guide bolt nut. When fastening guide bolt nut, do not completely compress spring.



5. Place the dent of alignment gauge onto the projection of center plate and tightly contact them to measure.

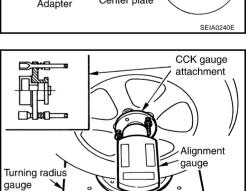
Standard value

Camber, caster, kingpin inclination angles:

Refer to FSU-21, "SERVICE DATA".

CAUTION:

- If camber, caster, or kingpin inclination angle is outside the standard, check front suspension parts for wear and damage, and replace suspect parts if necessary.
- King pin inclination angle is reference value, no inspection is required. (Due to the type of suspension, the kingpin inclination angle cannot be measured correctly using a normal alignment tester.)



Toe-In Inspection

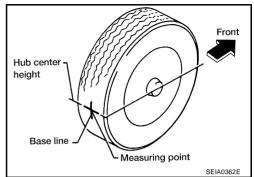
Measure toe-in using the following procedure.

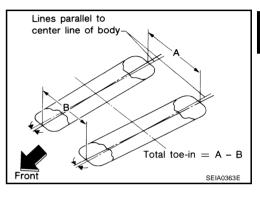
WARNING:

- Always perform the following procedure on a flat surface.
- Make sure that no person is in front of vehicle before pushing it.
- 1. Bounce front of vehicle up and down to stabilize the posture.
- 2. Push 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. These are measuring points.
- 4. Measure distance "A" (rear side).
- 5. Push vehicle slowly ahead to rotate wheels 180 degrees (1/2 turn).
 - If 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).

Standard value

Total toe-in: Refer to <u>FSU-21, "SERVICE DATA"</u>.





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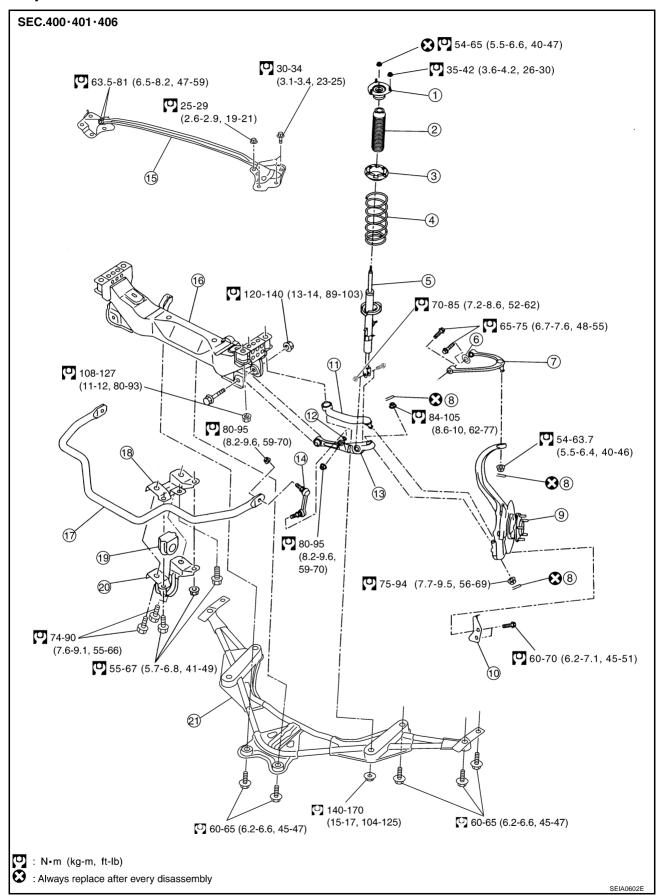
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Components



Mounting insulator 1 2 Bound bumper 3 Spring upper seat Α 4. Coil spring 5. Shock absorber 6. Stopper rubber 7. Upper link 8. Cotter pin 9. Front axle 10. Steering stopper bracket 11. Compression rod 12. Washer В 13. Transverse link Stabilizer connecting rod 15. Tower bar 16. Front suspension member 17. Stabilizer bar 18. Stabilizer clamp bracket 19. Stabilizer bushing Stabilizer clamp 21. Front cross bar Removal and Installation AES000DM **REMOVAL** Remove tire with power tool. D Remove brake caliper with power tool. Hang it in a place where it will not interfere with work. Refer to BR-25, "FRONT DISC BRAKE (CLZ25VD TYPE)", BR-31, "FRONT DISC BRAKE (OPB27VA TYPE)". FSU Remove undercover with power tool. Remove fixing bolts and nuts, then remove front cross bar from vehicle with power tool. 5. Remove steering hydraulic piping bracket from front suspension member. Refer to PS-34, "HYDRAULIC LINE". 6. Remove steering gear and front suspension member attachment bolts and hang steering gear on vehicle. Refer to PS-17, "POWER STEERING GEAR AND LINKAGE". Set jack under engine. **CAUTION:** When setting jack to engine, use a wooden block or an equivalent for the setting. Н 8. Remove fixing bolt and nut between shock absorber and transverse link with power tool. Remove cotter pin of upper link ball joint, then loosen mounting nut. 10. Use a ball joint remover (suitable tool) to remove upper link from steering knuckle. Be careful not to damage ball joint boot. **CAUTION:** Tighten temporarily mounting nut to prevent damage to threads and to prevent ball joint remover (suitable tool) from coming off. 11. Remove fixing nut and washer located at the bottom of stabilizer connecting rod, and then remove stabilizer connecting rod from transverse link with power tool. 12. Remove fixing nuts between engine mounting insulator and front suspension member. Refer to EM-131, "ENGINE ASSEMBLY". 13. Remove fixing nuts between front suspension member and body with power tool. 14. Remove front suspension assembly form vehicle. **INSTALLATION** Refer to FSU-8, "Components" for tightening torque. Install in the reverse order of removal. M

NOTE:

Refer to component parts location and do not reuse non-reusable parts.

Perform final tightening of shock absorber lower side (rubber bushing) under unladen condition with tires on ground. Check wheel alignment. Refer to FSU-21, "SERVICE DATA" .

COIL SPRING AND SHOCK ABSORBER

COIL SPRING AND SHOCK ABSORBER

PFP:54302

Removal and Installation REMOVAL

AES0002W

- 1. Remove tire with power tool.
- 2. Remove undercover with power tool.
- 3. Remove harness of wheel sensor from shock absorber. Refer to <u>BRC-83, "WHEEL SENSORS"</u> (With TCS), <u>BRC-144, "WHEEL SENSORS"</u> (With VDC).

CAUTION:

Do not pull on wheel sensor harness.

- 4. Remove mounting nuts of brake hose from shock absorber.
- 5. Remove mounting bolt and nut between shock absorber and transverse link with power tool.
- Remove tower bar, Refer to FSU-20, "TOWER BAR".
- 7. Remove mounting nuts on mounting insulator with power tool, then remove shock absorber from vehicle.

INSTALLATION

Refer to FSU-8, "Components" for tightening torque. Install in the reverse order of removal.

NOTE:

Refer to component parts location and do not reuse non-reusable parts.

 Perform final tightening of shock absorber lower side (rubber bushing) under unladen condition with tires on ground. Check wheel alignment. Refer to <u>FSU-21</u>, "<u>SERVICE DATA</u>".

Disassembly and Assembly DISASSEMBLY

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NOTE:

Make sure piston rod on shock absorber is not damaged when removing components from shock absorber.

 Install strut attachment (SST) to shock absorber and fix it in a vise.

CAUTION:

When installing strut attachment (SST) to shock absorber, wrap a shop cloth around shock absorber to protect it from damage.

Using a spring compressor (commercial service tool), compress coil spring between spring upper seat and spring lower seat (on shock absorber) until coil spring is free.

CAUTION:

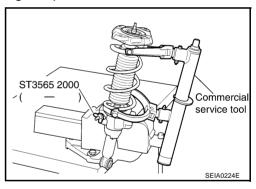
Be sure spring compressor (commercial service tool) is securely attached to coil spring. Compress coil spring.

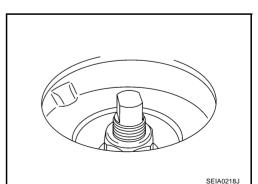
- 3. Check that coil spring between spring upper seat and spring lower seat is free and then secure piston rod tip so that piston rod does not turn, and remove piston rod lock nut.
- 4. Remove mounting insulator, bound bumper, spring upper seat. Then remove coil spring from shock absorber.
- 5. Gradually release spring compressor (commercial service tool), and remove coil spring.

CAUTION:

Loosen while making sure coil spring attachment position does not move.

6. Remove strut attachment (SST) from shock absorber.





COIL SPRING AND SHOCK ABSORBER

INSPECTION AFTER DISASSEMBLY

Shock Absorber Inspection

- Check shock absorber for deformation, cracks, damage, and replace if necessary.
- Check piston rod for damage, uneven wear, distortion, and replace if necessary.
- Check welded and sealed areas for oil leakage, and replace if necessary.

Mounting Insulator and Rubber Parts Inspection

Check mounting insulator for cracks and rubber parts for wear. Replace them if necessary.

Coil Spring Inspection

Check coil spring for cracks, wear or damage, and replace if necessary.

ASSEMBLY

NOTE:

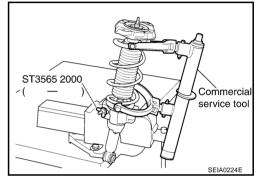
Make sure piston rod on shock absorber is not damaged when attaching components to shock absorber.

 Install strut attachment (SST) to shock absorber and fix it in a vise.

CAUTION:

When installing strut attachment (SST) to shock absorber, wrap a shop cloth around shock absorber to protect it from damage.

2. Compress coil spring using a spring compressor (commercial service tool), and install it onto shock absorber.

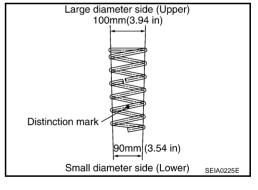


CAUTION:

- Install coil spring as shown in the figure with large diameter side [100 mm (3.94 in)] up and small diameter side [90 mm (3.54 in)] down. (Identification paint is the 4th winding point from lower side.
- Be sure spring compressor (commercial service tool) is securely attached to coil spring. Compress coil spring.
- 3. Apply soapy water to bound bumper and insert into mounting insulator.

CAUTION:

Do not use machine oil.



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COIL SPRING AND SHOCK ABSORBER

4. Attach spring upper seat and mounting insulator as shown in the figure.

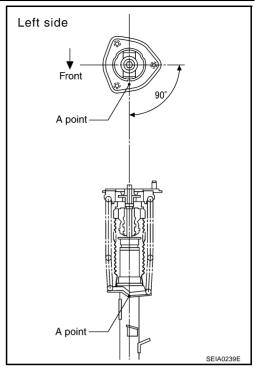
CAUTION:

- Make sure coil spring is securely seated in spring mounting groove of spring upper seat.
- The bottom part of spring should be at the position of A point of spring seat.
- 5. Secure piston rod tip so that piston rod does not turn, and tighten the specified torque on piston rod lock nut.
- 6. Gradually release spring compressor (commercial service tool), and remove coil spring.

CAUTION:

Loosen spring compressor (commercial service tool) while making sure coil spring attachment position does not move.

7. Remove strut attachment (SST) from shock absorber.



TRANSVERSE LINK

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TRANSVERSE LINK PFP:54500 Removal and Installation AES0002Y **REMOVAL** 1. Remove tire with power tool. 2. Remove undercover with power tool. 3. Remove mounting nut and washer on lower portion of stabilizer connecting rod with power tool. Remove mounting nut between transverse link and shock absorber on lower position. Remove mounting nut between transverse link and front suspension member with power tool. Remove transverse link from steering knuckle. Refer to FAX-4, "FRONT WHEEL HUB AND KNUCKLE" . Remove transverse link from vehicle. INSPECTION AFTER REMOVAL Visual Inspection Check transverse link and bushing for deformation, cracks, or damage. If any non-standard condition is found, replace it. **INSTALLATION** Refer to FSU-8, "Components" for tightening torque. Install in the reverse order of removal. NOTE: Refer to component parts location and do not reuse non-reusable parts. Perform final tightening of front suspension member installation position and shock absorber lower side (rubber bushing) under unladen condition with tires on ground. Check wheel alignment. Refer to FSU-21. "SERVICE DATA" .

Revision: 2004 December FSU-13 2005 350Z

UPPER LINK

UPPER LINK
PFP:54524

Removal and Installation

AES00031

- 1. Remove tire with power tool.
- 2. Remove undercover with power tool.
- 3. Remove shock absorber. Refer to FSU-10, "COIL SPRING AND SHOCK ABSORBER".
- 4. Remove cotter pin of upper link ball joint, then loosen mounting nut.
- 5. Use a ball joint remover (suitable tool) to remove upper link from steering knuckle. Be careful not to damage ball joint boot.

CAUTION:

Tighten temporarily mounting nut to prevent damage to threads and to prevent ball joint remover (suitable tool) from coming off.

- 6. Remove bolts holding upper link to body with power tool.
- 7. Remove upper link from vehicle.

INSPECTION AFTER REMOVAL

Visual Inspection

- Check upper link and bushing for deformation, cracks, or damage. If any non-standard condition is found, replace it.
- Check boot of ball joint for cracks, or other damage, and also for grease leakage. If any non-standard condition is found, replace it.

Ball Joint Inspection

Manually move ball stud to confirm it moves smoothly with no binding.

Swing Torque Inspection

NOTE:

Before measurement, move ball joint at least ten times by hand to check for smooth movement.

Hook spring scale at ball stud. Confirm spring scale measurement value is within the specifications when ball stud begins moving.

Standard value

Swing torque:

Less than 2.0 N·m (0.20 kg-m, 18 in-lb)

Measured value of spring scale:

Less than 34.8 N (3.5 kg, 7.8 lb)

If it is outside the specified range, replace upper link assembly.

Rotating Torque Inspection

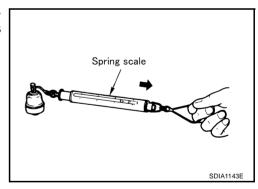
 Attach mounting nut to ball stud. Check that rotating torque is within specifications with a preload gauge (SST).

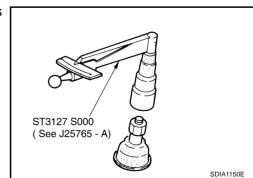
Standard value

Rotating torque:

Less than 2.0 N·m (0.20 kg-m, 18 in-lb)

If it is outside the specified range, replace upper link assembly.





UPPER LINK

Axial End Play Inspection

Move tip of ball joint in axial direction to check for looseness.

Standard value

Axial end play : 0 mm (0 in)

If it is outside the specified range, replace upper link assembly.

INSTALLATION

• Refer to FSU-8, "Components" for tightening torque. Install in the reverse order of removal.

NOTE:

Refer to component parts location and do not reuse non-reusable parts.

 Perform final tightening of front suspension member installation position (rubber bushing) under unladen condition with tires on ground. Check wheel alignment. Refer to <u>FSU-21</u>, <u>"SERVICE DATA"</u>.

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COMPRESSION ROD

COMPRESSION ROD

PFP:54468

Removal and Installation

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- 1. Remove tire with power tool.
- 2. Remove undercover with power tool.
- 3. Remove front cross bar from vehicle with power tool.
- 4. Remove cotter pin of compression rod ball joint, and loosen nut.
- 5. Use a ball joint remover (suitable tool) to remove compression rod from steering knuckle. Be careful not to damage ball joint boot.

CALITION

Tighten temporarily mounting nut to prevent damage to threads and to prevent ball joint remover (suitable tool) from coming off.

6. Remove compression rod from vehicle.

INSPECTION AFTER REMOVAL

Visual Inspection

- Check compression rod and bushing for deformation, cracks, or damage. If any non-standard condition is found, replace it.
- Check boot of ball joint for cracks, or other damage, and also for grease leakage. If any non-standard condition is found, replace it.

Ball Joint Inspection

Manually move ball stud to confirm it moves smoothly with no binding.

Swing Torque Inspection

NOTE:

Before measurement, move ball joint at least ten times by hand to check for smooth movement.

Hook spring scale at ball stud. Confirm spring scale measurement value is within the specifications when ball stud begins moving.

Standard value

Swing torque:

0.147 - 2.45 N·m (0.02 - 0.24 kg-m, 2 - 21 in-lb)

Measured value of spring scale:

2.37 - 39.5 N (0.24 - 4.03 kg, 0.53 - 8.88 lb)

 If it is outside the specified range, replace compression rod assembly.

Spring scale Spring scale

Rotating Torque Inspection

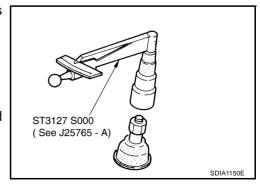
 Attach mounting nut to ball stud. Check that rotating torque is within the specifications with a preload gauge (SST).

Standard value

Rotating torque:

0.147 - 2.45 N·m (0.02 - 0.24 kg-m, 2 - 21 in-lb)

 If it is outside the specified range, replace compression rod assembly.



COMPRESSION ROD

AXIAL END PLAY INSPECTION

Move tip of ball joint in axial direction to check for looseness.

Standard value

Axial end play : 0 mm (0 in)

If it is outside the specified range, replace compression rod assembly.

INSTALLATION

Refer to FSU-8, "Components" for tightening torque. Install in the reverse order of removal.

NOTE:

Refer to component parts location and do not reuse non-reusable parts.

Perform final tightening of installation position between front suspension member and front cross bar (rubber bushing) under unladen condition with tires on ground. Check wheel alignment. Refer to FSU-21, "SERVICE DATA".

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STABILIZER BAR

STABILIZER BAR PFP:54611

Removal and Installation REMOVAL

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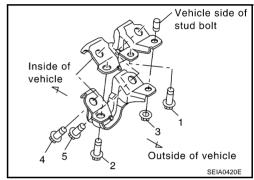
- 1. Remove tire with power tool.
- 2. Remove undercover with power tool.
- 3. Remove mounting nut on upper portion of stabilizer connecting rod with power tool.
- 4. Remove fixing bolts and nuts, then remove stabilizer clamp, stabilizer bushing, and stabilizer clamp bracket.
- Remove stabilizer bar from vehicle.

INSPECTION AFTER REMOVAL

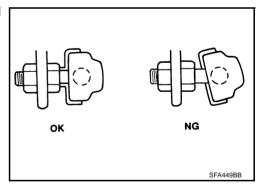
Check stabilizer bar, stabilizer connecting rod, stabilizer bushing, stabilizer clamp and stabilizer clamp bracket for deformation, cracks and damage, and replace if necessary.

INSTALLATION

- Refer to FSU-8, "Components" for tightening torque. Install in the reverse order of removal.
- Tighten each bolt and nut as shown in the figure for tightening stabilizer bracket and stabilizer clamp. Tightening order is as follows. 1 (fully tighten) → 2 (temporarily tighten) → 3 (temporarily tighten) → 2 (fully tighten) → 3 (fully tighten) → 4, 5 (temporarily tighten) → 4, 5 (fully tighten).



 Stabilizer bar uses pillow ball type connecting rod. Position ball joint with case on pillow ball head parallel to stabilizer bar.



FRONT SUSPENSION MEMBER

FRONT SUSPENSION MEMBER PFP:54401 Removal and Installation **REMOVAL** Remove tire with power tool. Remove undercover with power tool. Remove fixing bolts and nuts, then remove front cross bar from vehicle with power tool. Remove steering hydraulic piping bracket from front suspension member. Refer to PS-34, "HYDRAULIC LINE". Remove steering gear and front suspension member attachment bolts and hang steering gear on vehicle. Refer to PS-17. "POWER STEERING GEAR AND LINKAGE". Remove transverse link from front suspension member with power tool. Refer to FSU-13, "TRANSVERSE LINK". 7. Set jack under engine. **CAUTION:** When setting jack to engine, use a wooden block or an equivalent for the setting. 8. Remove fixing nuts between engine mounting insulator and front suspension member. Refer to EM-131, "ENGINE ASSEMBLY". Remove fixing nuts between front suspension member and body with power tool. 10. Remove front suspension member from vehicle. INSPECTION AFTER REMOVAL Check front suspension member for deformation, cracks, or any other damage. Replace if necessary. INSTALLATION Refer to FSU-8, "Components" for tightening torque. Install in the reverse order of removal. Perform final tightening of installation position between front suspension member and transverse link (rubber bushing) under unladen condition with tires on level ground. Check wheel alignment. Refer to FSU-21. "SERVICE DATA".

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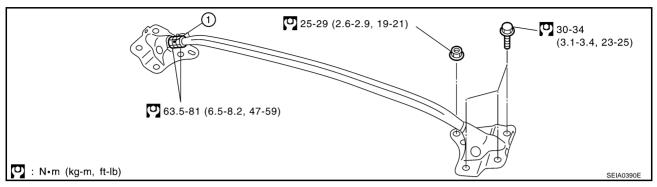
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TOWER BAR PFP:544A2

Removal and Installation

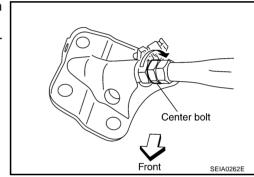
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1. Center bolt

REMOVAL

- 1. Fix center bolt, and then loosen nut in the right and left side.
- 2. Loosen center bolt to the direction in the figure on 660° (Or turn bolt 1.7 times) to place the black mark of center bolt above.
- 3. Remove tower bar fixing bolts and nuts, and remove tower bar from vehicle with power tool.



INSTALLATION

1. Install tower bar and tighten at the specified torque.

NOTE:

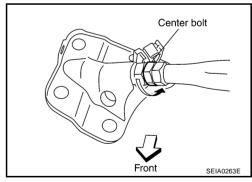
If it is hard to install tower bar, install it turning center bolt.

2. Tighten center bolt to the direction in the figure on 660° (Or turn bolt 1.7 times) to place the black mark of center bolt above.

NOTE

The space between tower bar and engine collector should be between 10.0 mm (0.394 in) and 17.0 mm (0.669 in).

3. Tighten both nut of the right and left side of center bolt.



SERVICE DATA

SERVICE DATA PFP:00030 AES00033

Wheel Alignment (Unladen)

		Minimum	- 1° 20′ (- 1.33°)		
Camber		Nominal	- 0° 35′ (- 0.58°)		
Degree minute (Decima	al degree)	Maximum	0° 10′ (0.17°)		
		Left and right difference	45′ (0.75°)		
		Minimum	7° 25′ (7.42°)		
Caster		Nominal	8° 10′ (8.17°)		
Degree minute (Decimal degree)		Maximum	8° 55′ (8.92°)		
		Left and right difference	45' (0.75°)		
		Minimum	4° 20′ (4.33°)		
Kingpin inclination Degree minute (Decimal degree)		Nominal	5° 05′ (5.08°)		
Dogree minute (Doomie	ar dogrooj	Maximum	5° 50′ (5.83°)		
		Minimum	0 mm (0 in)		
Total toe-in	Distance (A - B)	Nominal	1 mm (0.04 in)		
		Maximum	2 mm (0.08 in)		

Ball Joint AES00034

Swing torque	Less than 2.0 N·m (0.20 kg-m, 18 in-lb) (Upper link) 0.147 - 2.45 N·m (0.02 - 0.24 kg-m, 2 - 21 in-lb) (Compression rod)
Measurement on spring balance (cotter pinhole position)	Less than 34.8 N (3.5 kg, 7.8 lb) (Upper link) 2.37 - 39.5 N (0.24 - 4.03 kg, 0.53 - 8.88 lb) (Compression rod)
Rotating torque	Less than 2.0 N·m (0.20 kg-m, 18 in-lb) (Upper link) 0.147 - 2.45 N·m (0.02 - 0.24 kg-m, 2 - 21 in-lb) (Compression rod)
Axial end play	0 mm (0 in)

Wheelarch Height (Unladen*)

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Applied model		17 (Front) 17 (Rear)	225/45R18 (Front) 245/45R18 (Rear)			
	Coupe	Road star	Coupe	Road star		
Front (Hf)	681 mm (26.81 in)	679 mm (26.73 in)	683 mm (26.89 in)			
Rear (Hr)	700 mm (27.56 in)	699 mm (27.52 in)	706 mm (27.80 in)	705 mm (27.76 in)		

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

SERVICE DATA