

SECTION **RSU**
 REAR SUSPENSION

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RSU

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PRECAUTIONS

PRECAUTIONS

PFP:00001

Cautions

NES0008L

- When installing rubber bushings, final tightening must be carried out under unladen conditions with tires on level 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 pre-oiled, tighten as they are.

PREPARATION

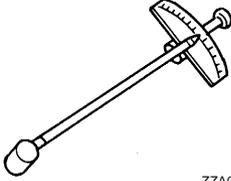
PREPARATION

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Special Service Tools (SST)

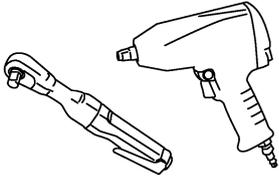
NES0008M

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

Tool number (Kent-Moore No.) Tool name	Description
ST3127S000 (J-25765-A)  ZZA0806D	Measuring rotating torque of ball joint

Commercial Service Tools

NES0008N

Tool name	Description
Power tool  PBIC0190E	Loosening bolts and nuts

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NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

PF0:00003

NVH Troubleshooting Chart

NES00080

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

Symptom		Possible cause and SUSPECTED PARTS	Reference page																
			RSU-7	RSU-9	—	—	—	RSU-7	RSU-18	RSU-16	NVH in PR section	NVH in RFD section	NVH in RAX and RSU sections	NVH in WT section	NVH in WT section	NVH in RAX section	NVH in BR section	NVH in PS section	
Symptom	REAR SUSPENSION	Noise	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	
		Shake	x	x	x	x	x	x			x	x	x	x	x	x	x	x	x
		Vibration	x	x	x	x	x					x		x	x		x		x
		Shimmy	x	x	x	x			x					x	x	x		x	x
		Judder	x	x	x									x	x	x		x	x
		Poor quality ride or handling	x	x	x	x	x		x	x				x	x	x			

x: Applicable

REAR SUSPENSION ASSEMBLY

REAR SUSPENSION ASSEMBLY

PFP:55020

On-Vehicle Inspection

NES0008P

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

INSPECTION OF SUSPENSION ARM BALL JOINT END PLAY

- Measure axial end play of the suspension arm ball joint by prying between the suspension arm and axle with a iron bar or something similar.

Axial end play : 0 mm (0 in)

CAUTION:

Be careful not to damage ball joint boot.

SHOCK ABSORBER INSPECTION

- Check shock absorber for oil leakage, damage and replace if necessary.

Wheel Alignment Inspection

NES0008Q

DESCRIPTION

- Measure wheel alignment under unladen conditions. "Unladen conditions" mean that fuel, engine coolant, and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

PRELIMINARY CHECK

- Check tires for improper air pressure and wear.
- Check road wheels for runout.
- Check wheel bearing axial end play.
- Check suspension arm ball joint axial end play.
- Check shock absorber operation.
- Check each mounting point of axle and suspension for looseness and deformation.
- Check each link, arm and member for cracks, deformation, and other damage.
- Check vehicle posture.

GENERAL INFORMATION AND RECOMMENDATIONS

- A four-wheel thrust alignment should be performed.
 - This type of alignment is recommended for any NISSAN/INFINITI vehicle.
 - The four-wheel "thrust" process helps ensure that the vehicle is properly aligned and the steering wheel is centered.
 - The alignment rack itself should be capable of accepting any NISSAN/INFINITI vehicle.
 - The rack should be checked to ensure that it is level.
- Make sure the machine is properly calibrated.
 - Your alignment equipment should be regularly calibrated in order to give correct information.
 - Check with the manufacturer of your specific equipment for their recommended Service/Calibration Schedule.

REAR SUSPENSION ASSEMBLY

THE ALIGNMENT PROCESS

IMPORTANT:

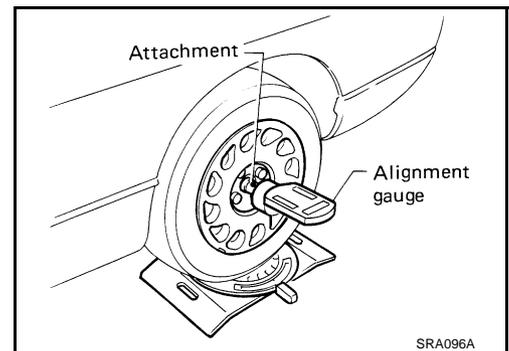
Use only the alignment specifications listed in this Service Manual.

- When displaying the alignment settings, many alignment machines use “indicators”: (Green/red, plus or minus, Go/No Go). **Do NOT use these indicators.**
- The alignment specifications programmed into your machine that operate these indicators may not be correct.
- This may result in an ERROR.
- Some newer alignment machines are equipped with an optional “Rolling Compensation” method to “compensate” the sensors (alignment targets or head units). **DO NOT use this “Rolling Compensation” method.**
- Use the “Jacking Compensation Method”. After installing the alignment targets or head units, raise the vehicle and rotate the wheels 1/2 turn both ways.
- See Instructions in the alignment machine you’re using for more information on this.

CAMBER INSPECTION

- Measure camber of both right and left wheels with a suitable alignment gauge and adjust in accordance with the following procedures.

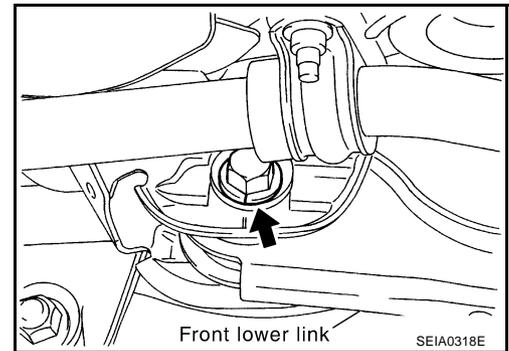
Camber : Refer to [RSU-18. "SERVICE DATA AND SPECIFICATIONS \(SDS\)"](#) .



If outside the standard value, adjust with adjusting bolt on front lower link.

NOTE:

After adjusting camber, be sure to check toe-in.

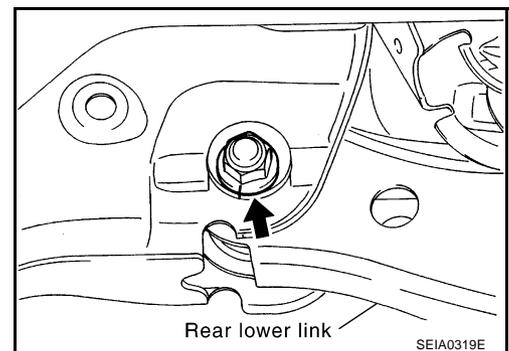


TOE-IN

If toe-in is not within the specification, adjust with adjusting bolt in rear lower link.

CAUTION:

Be sure to adjust equally on RH and LH side with adjusting bolt. If toe-in is not still within the specification, inspect and replace any damaged or worn rear suspension parts.



REAR SUSPENSION ASSEMBLY

- | | | |
|-----------------------------|---|--------------------------------|
| 1. Outer washer | 2. Bushing A | 3. Distance tube |
| 4. Mounting seal bracket | 5. Bushing B | 6. Bound bumper cover |
| 7. Bound bumper | 8. Shock absorber | 9. Upper seat |
| 10. Coil spring | 11. Rubber seat | 12. Rear lower link |
| 13. Rear axle assembly | 14. Front lower link | 15. Radius rod |
| 16. Suspension arm | 17. Stabilizer connecting rod mount bracket | 18. Rebound stopper |
| 19. Shock absorber assembly | 20. Rear suspension member | 21. Member stay |
| 22. Stabilizer bar | 23. Stabilizer connecting rod | 24. Stabilizer bushing |
| 25. Stabilizer clamp | 26. Cotter pin | 27. Front lower link protector |
| 28. Washer | 29. Stopper rubber | |

Refer to [GI-10, "Components"](#) , for the symbols in the figure.

Removal and Installation

REMOVAL

NES000BS

1. Remove tire with power tool.
2. Remove brake caliper with power tool. Hang it in a place where it will not interfere with work. Refer to [BR-32, "Removal and Installation of Brake Caliper Assembly"](#) . Then remove disc rotor.

CAUTION:

Avoid depressing brake pedal while brake caliper is removed.

3. Remove wheel sensor from axle. Refer to [BRC-103, "WHEEL SENSORS"](#) .
4. Remove center muffler and main muffler. Refer to [EX-3, "Removal and Installation"](#) .
5. Remove propeller shaft (AWD models).
6. Remove harness from rear final drive, suspension member and suspension arm.
7. Separate the attachment between parking brake cable and vehicle. Refer to [PB-3, "PARKING BRAKE CONTROL"](#) .
8. Remove rear lower link and coil spring. Refer to [RSU-15, "Removal and Installation"](#) .
9. Remove fixing nuts in upper side of mounting seal bracket.
10. Set jack under rear final drive (AWD models) or suspension member (2WD models).
11. Remove fixing bolts and nuts of member stay, then remove member stay from vehicle and suspension member.
12. Remove fixing nuts in rear side of suspension member, then remove rebound stopper.
13. Slowly lower jack, remove rear suspension assembly.

INSTALLATION

Refer to [RSU-7, "Components"](#) for tightening torque. Install in the reverse order of removal.

CAUTION:

Refer to components and do not reuse non-reusable parts.

- Perform final tightening of installation position of links (rubber bushing) under unladen conditions with tires on level ground. Check wheel alignment. Refer to [RSU-18, "Wheel Alignment \(Unladen*\)"](#) .
- After installation, check parking brake operation. Refer to [PB-2, "PARKING BRAKE SYSTEM"](#) .
- After installation, check condition of wheel sensor harness. Refer to [BRC-43, "WHEEL SENSORS"](#) .

SHOCK ABSORBER

SHOCK ABSORBER

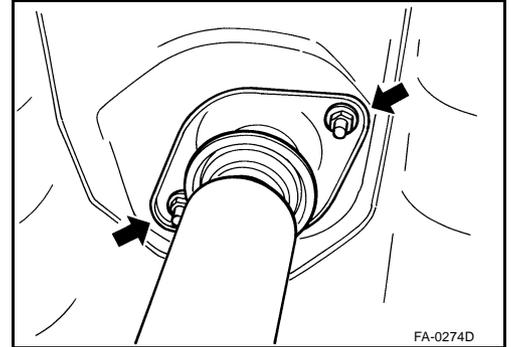
PPF:56210

Removal and Installation

NES0008T

REMOVAL

1. Remove tire with power tool.
2. Remove fixing bolt in lower side of shock absorber assembly with power tool.
3. Remove mounting seal bracket fixing nuts of shock absorber upper side with power tool and remove shock absorber assembly from vehicle.



INSPECTION AFTER REMOVAL

- Check shock absorber for deformation, cracks or damage, and replace if necessary.
- Check piston rod for damage, uneven wear or distortion, and replace if necessary.
- Check welded and sealed areas for oil leakage, and replace if necessary.
- Check seal of mount seal bracket. If any crack, deformation or deterioration is found, replace the mount seal bracket as assembly.

INSTALLATION

- Refer to [RSU-7, "Components"](#) for tightening torque. Install in the reverse order of removal.

CAUTION:

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

- Perform final tightening of shock absorber lower side (rubber bushing) under unladen conditions with tires on level ground. Check wheel alignment. Refer to [RSU-18, "Wheel Alignment \(Unladen*\)"](#).

Disassembly and Assembly

NES0008U

DISASSEMBLY

CAUTION:

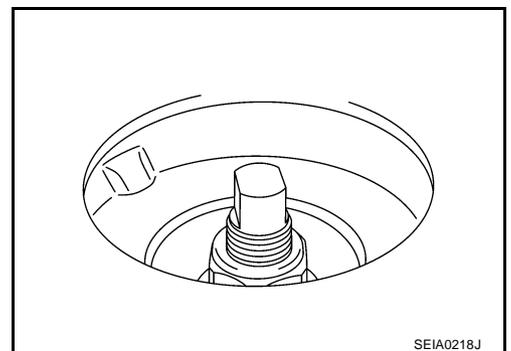
Make sure piston rod on shock absorber is not damaged when removing components from shock absorber.

1. Wrap a shop cloth around lower side of shock absorber and fix it in a vise.

CAUTION:

Do not set the cylindrical part of shock absorber in vise.

2. Secure piston rod tip so that piston rod does not turn, and remove piston rod lock nut.
3. Remove outer washer, bushing A, distance tube, mounting seal bracket, bushing B and bound bumper cover from shock absorber.
4. Remove bound bumper from bound bumper cover.



SHOCK ABSORBER

INSPECTION AFTER DISASSEMBLY

Bound Bumper and Bushing

- Check bound bumper and bushing for cracks, deformation or other damage. Replace if necessary.

ASSEMBLY

- Refer to [RSU-7, "Components"](#) for tightening torque. Install in the reverse order of removal.

CAUTION:

- Refer to component parts location and do not reuse non-reusable parts.
- Make sure piston rod on shock absorber is not damaged when assembling components to shock absorber.

SUSPENSION ARM

PFP:55501

Removal and Installation

NES0008V

REMOVAL

1. Remove tire with power tool.
2. Remove coil spring. Refer to [RSU-15, "REAR LOWER LINK & COIL SPRING"](#).
3. Remove wheel sensor and sensor harness from axle and suspension arm. Refer to [BRC-43, "WHEEL SENSORS"](#).
4. Remove stabilizer connecting rod mounting bracket from suspension arm.
5. Set jack under front lower link.
6. Remove fuel filler tube fixing bolt (left side only). Refer to [FL-4, "FUEL LEVEL SENSOR UNIT, FUEL FILLER AND FUEL PUMP ASSEMBLY"](#).
7. Remove fixing nuts and bolts between suspension arm and rear suspension member.
8. Remove cotter pin of suspension arm ball joint, and loosen nut.
9. Use a ball joint remover (suitable tool) to remove suspension arm from axle. Be careful not to damage ball joint boot.

CAUTION:

To prevent damage to ball joint threads and to prevent ball joint remover (suitable tool) from coming off, temporarily tighten lock nuts.

10. Remove suspension arm from vehicle.

INSPECTION AFTER REMOVAL

Visual Inspection

- Check suspension arm and bushing for deformation, cracks, or other 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.

Ball Joint Inspection

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

Swing Torque Inspection

NOTE:

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

- Hook spring balance at cotter pin mounting hole. Confirm spring balance measurement value is within specifications when ball stud begins moving.

Swing torque:

0.5 – 3.4 N·m (0.06 – 0.34 kg·m, 5 – 30 in·lb)

Measured value of spring balance:

7.94 – 54.0 N (0.81 – 5.5 kg, 1.79 – 12.1 lb)

- If it is outside the specified range, replace suspension arm assembly.

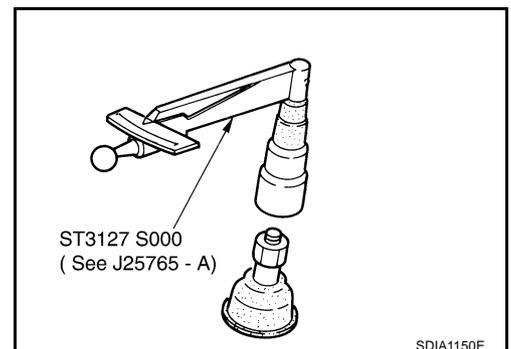
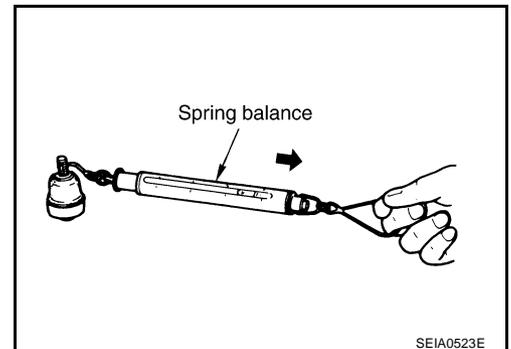
Rotating Torque Inspection

- Attach mounting nut to ball stud. Make sure sliding torque is within specifications with a preload gauge (SST).

Rotating torque:

0.5 – 3.4 N·m (0.06 – 0.34 kg·m, 5 – 30 in·lb)

- If it is outside the specified range, replace suspension arm assembly.



SUSPENSION ARM

Axial End Play Inspection

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

Axial end play : 0 mm (0 in)

- If it is outside the specified range, replace suspension arm assembly.

INSTALLATION

- Refer to [RSU-7, "Components"](#) for tightening torque. Install in the reverse order of removal.

CAUTION:

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

- Perform final tightening of rear suspension member installation position (rubber bushing) under unladen conditions with tires on level ground. Check wheel alignment. Refer to [RSU-18, "Wheel Alignment \(Unladen*\)"](#).

RADIUS ROD

RADIUS ROD

PPF:55110

NES0008W

Removal and Installation

REMOVAL

1. Remove tire with power tool.
2. Remove coil spring. Refer to [RSU-15, "REAR LOWER LINK & COIL SPRING"](#).
3. Remove wheel sensor and sensor harness from axle and suspension arm. Refer to [BRC-43, "WHEEL SENSORS"](#).
4. Remove fixing bolt in lower side of shock absorber with power tool.
5. Remove fixing bolt and nut in axle side of front lower link with power tool.
6. Loosen fixing bolt and nut of front lower link in side of suspension member.
7. Remove fixing bolt and nut in axle side of radius rod.
8. Remove fixing bolt in rear suspension member side of radius rod with power tool, then remove radius rod from vehicle.

INSPECTION AFTER REMOVAL

- Check radius rod and bushing for any deformation, crack, or damage. Replace if necessary.

INSTALLATION

- Refer to [RSU-7, "Components"](#) for tightening torque. Tighten in the reverse order of removal.

CAUTION:

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

- Perform final tightening of rear suspension member and axle installation position (rubber bushing) under unladen conditions with tires on level ground. Check wheel alignment. Refer to [RSU-5, "Wheel Alignment Inspection"](#).

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FRONT LOWER LINK

FRONT LOWER LINK

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Removal and Installation

NES0008X

REMOVAL

1. Remove tire with power tool.
2. Remove coil spring. Refer to [RSU-15, "Removal and Installation"](#) .
3. Remove wheel sensor and sensor harness from axle and suspension arm. Refer to [BRC-43, "WHEEL SENSORS"](#) .
4. Remove fixing bolt between front lower link and shock absorber.
5. Remove stabilizer bushing and clamp from suspension member.
6. Remove fixing nut and bolt between front lower link and rear suspension member with power tool.
7. Remove fixing nut and bolt between front lower link and axle.
8. Remove front lower link from vehicle.
9. Remove front lower link protector.

INSPECTION AFTER REMOVAL

- Check front lower link and bushing for any deformation, crack, or damage. Replace if necessary.

INSTALLATION

- Refer to [RSU-7, "Components"](#) for tightening torque. Install in the reverse order of removal.

CAUTION:

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

- Perform final tightening of rear suspension member and axle installation position (rubber bushing) under unladen conditions with tires on level ground. Check wheel alignment. Refer to [RSU-18, "Wheel Alignment \(Unladen*\)"](#) .

REAR LOWER LINK & COIL SPRING

REAR LOWER LINK & COIL SPRING

PF5:551B0

Removal and Installation

NES008Y

REMOVAL

1. Remove tire with power tool.
2. Set jack under rear lower link.
3. Loosen fixing bolt and nut between rear lower link and suspension member, and then remove fixing bolt and nut between rear axle and rear lower link with power tool.
4. Slowly lower jack, then remove upper seat, coil spring and rubber seat from rear lower link.
5. Remove fixing bolt and nut between rear suspension member and rear lower link with power tool.

INSPECTION AFTER REMOVAL

- Check rear lower link, bushing and coil spring for deformation, cracks, and damage. Replace rear lower link and coil spring if necessary.

INSTALLATION

- Refer to [RSU-7, "Components"](#) for tightening torque. Install in the reverse order of removal.

CAUTION:

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

- Make sure upper seat is attached as shown in the figure.

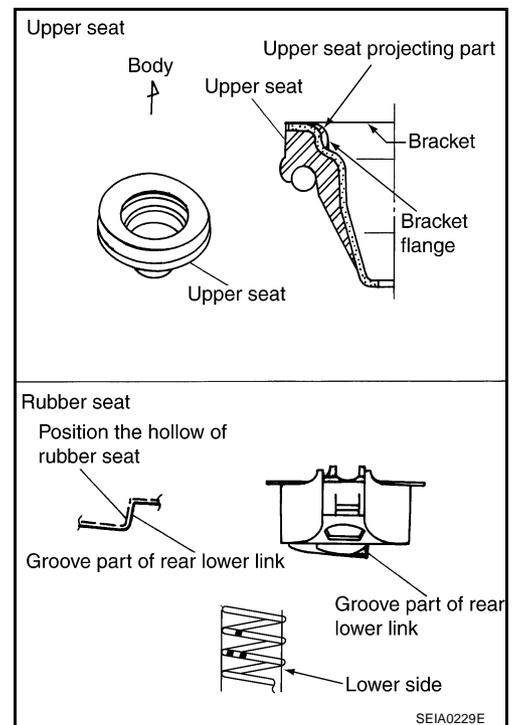
NOTE:

Insert bracket tabs (3) and the inside protrusion on upper seat into each other beforehand as shown in the figure.

- Match up rubber seat indentions and rear lower link grooves and attach.

NOTE:

Make sure spring is not upside down. The top and bottom are indicated by paint color.



- Perform final tightening of rear suspension member and axle installation position (rubber bushing) under unladen conditions with tires on level ground. Check wheel alignment. Refer to [RSU-18, "Wheel Alignment \(Unladen*\)"](#).

STABILIZER BAR

STABILIZER BAR

PFP:56230

Removal and Installation

NES0008Z

REMOVAL

1. Remove tire with power tool.
2. Remove lower side fixing nut on stabilizer connecting rod and remove stabilizer connecting rod from stabilizer bar.
3. Remove fixing nut on stabilizer clamp and remove stabilizer from vehicle with power tool.

INSPECTION AFTER REMOVAL

- Check stabilizer bar, stabilizer bushing, stabilizer clamp, stabilizer connecting rod, stabilizer connecting rod mounting bracket for any deformation, crack or damage. Replace if necessary.

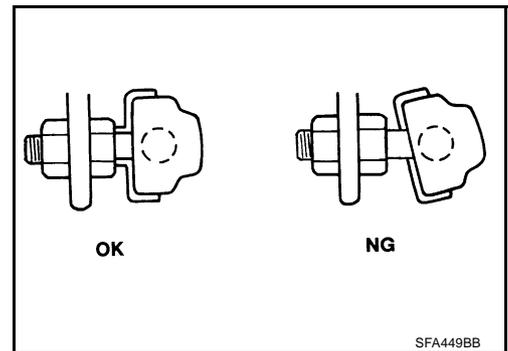
INSTALLATION

- Refer to [RSU-7, "Components"](#) for tightening torque. Install in the reverse order of removal.

CAUTION:

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

- Stabilizer bar uses pillow ball type connecting rod. Position ball joint with case on pillow ball head parallel to stabilizer bar.
- When the bushing and clamp are installed to stabilizer bar, position the bushing and clamp inside of the side slip prevention clamp.



REAR SUSPENSION MEMBER

REAR SUSPENSION MEMBER

PPF:55501

Removal and Installation

NES00090

REMOVAL

1. Remove tire with power tool.
2. Remove brake caliper with power tool. Hang it in a place where it will not interfere with work. Refer to [BR-32, "Removal and Installation of Brake Caliper Assembly"](#) . Then remove disc rotor.
CAUTION:
Avoid depressing brake pedal while brake caliper is removed.
3. Remove wheel sensor and sensor harness from axle and suspension arm. Refer to [BRC-43, "WHEEL SENSORS"](#) .
4. Remove center muffler and main muffler. Refer to [EX-3, "Removal and Installation"](#) .
5. Remove stabilizer bar. Refer to [RSU-16, "Removal and Installation"](#) .
6. Remove drive shaft (AWD models). Refer to [RAX-7, "Removal and Installation"](#) .
7. Remove propeller shaft (AWD models). Refer to [PR-4, "Removal and Installation"](#) .
8. Remove harness from rear final drive (AWD models) and rear suspension member.
9. Remove final drive. Refer to [RFD-14, "REAR FINAL DRIVE ASSEMBLY"](#) .
10. Separate the attachment between parking brake cable and vehicle and rear suspension member.
11. Remove rear lower link and coil spring. Refer to [RSU-15, "Removal and Installation"](#) .
12. Remove fixing bolt in lower side of shock absorber.
13. Set jack under rear suspension member.
14. Remove fixing bolts and nuts of member stay, then remove member stay from vehicle and rear suspension member.
15. Remove fixing nuts in rear side of rear suspension member, then remove rebound stopper.
16. Slowly lower jack, then remove rear suspension member, suspension arm, radius rod, front lower link and axle from vehicle as a unit.
17. Remove fixing bolts and nuts, then remove suspension arm, front lower link, and radius rod from rear suspension member.
18. Remove electric controlled coupling breather hose from rear suspension member. Refer to [RFD-12, "Removal and Installation"](#) .

INSPECTION AFTER REMOVAL

- Check rear suspension member for deformation, cracks, and other damage and replace if necessary.

INSTALLATION

Refer to [RSU-7, "Components"](#) , for tightening torque. Install in the reverse order of removal.

CAUTION:

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

- Perform final tightening of installation position of links (rubber bushing) under unladen conditions with tires on level ground. Check wheel alignment. Refer to [RSU-5, "Wheel Alignment Inspection"](#) .
- After installation, check parking brake operation. Refer to [PB-2, "PARKING BRAKE SYSTEM"](#) .
- After installation, check condition of wheel sensor harness. Refer to [BRC-43, "WHEEL SENSORS"](#) .

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

PFP:00030

Wheel Alignment (Unladen*)

NES00091

Camber Degree minute (Decimal degree)		Minimum	-1° 16' (-1.27°)
		Nominal	-0° 46' (-0.77°)
		Maximum	-0° 16' (-0.27°)
Total toe-in	Distance	Minimum	1.4 mm (0.055 in)
		Nominal	3.2 mm (0.126 in)
		Maximum	5.0 mm (0.197 in)
	Angle (left wheel or right wheel) Degree minute (Decimal degree)	Minimum	3' (0.05°)
		Nominal	7' (0.12°)
		Maximum	11' (0.18°)

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

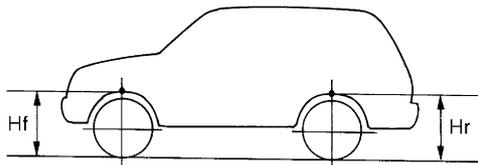
Ball Joint

NES00092

Axial end play	0 mm (0 in)
Swing torque	0.5 – 3.4 N·m (0.06 – 0.34 kg-m, 5 – 30 in-lb)
Measurement on spring balance (cotter pinhole position)	7.94 – 54.0 N (0.81 – 5.5 kg, 1.79 – 12.1 lb)
Rotating torque	0.5 – 3.4 N·m (0.06 – 0.34 kg-m, 5 – 30 in-lb)

Wheelarch Height (Unladen*)

NES00093



SFA746B

Axle type	2WD	AWD
Tire size	235/65R18	
Front (Hf)	840 mm (33.07 in)	
Rear (Hr)	860 mm (33.86 in)	859 mm (33.82 in)

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