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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least three minutes before performing any service.

Precautions for Suspension

- INFOID:0000000011154078
- When installing rubber bushings, the final tightening must be carried out under unladen conditions with tires on ground. Spilled oil might 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.
- Self-lock nuts are not reusable. Always use new ones when installing. Since new self-lock nuts are pre-oiled, tighten as they are.
- The tightening surface must be kept free of oil/grease.
- When jacking up the vehicle with a floor jack, never hang the jack on the suspension beam.

PREPARATION

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PREPARATION

PREPARATION

Special Service Tool

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The actual shape	of the tools may	differ from those	illustrated here.

Tool number (TechMate No.) Tool name		Description	_
 (J-44372) Pull gauge		Measuring ball joint swinging force	<u> </u>
	LST024		
— (J-49286) Drift and Pull gauge		Measuring drift and pull	

Commercial Service Tool

INFOID:0000000011154080

Tool name		Description	
Power tool		Loosening nuts, screws and bolts	J
			K
	PIIB1407E		L

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NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

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

Reference page			RSU-8, RSU-10, RSU-12, RSU-13, RSU-15, RSU-17, RSU-19	RSU-10	ı	ı	ı	RSU-8, RSU-10, RSU-12, RSU-13, RSU-15, RSU-17, RSU-19	RSU-6, "Inspection and Adjustment"	RSU-6, "Inspection and Adjustment"	DLN-100, "NVH Troubleshooting Chart"	DLN-113, "NVH Troubleshooting Chart"	RAX-4, "NVH Troubleshooting Chart"	WT-56, "NVH Troubleshooting Chart"	WT-56, "NVH Troubleshooting Chart"	RAX-4, "NVH Troubleshooting Chart"	BR-6, "NVH Troubleshooting Chart"
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 (4WD)	DIFFERENTIAL (4WD)	REAR AXLE	TIRE	ROAD WHEEL	DRIVE SHAFT (4WD)	BRAKE	
		Noise	×	×	×	×	×	×			×	×	×	×	×	×	×
		Shake	×	×	×	×		×			×		×	×	×	×	×
Symp-	REAR SUSPEN-	Vibration	×	×	×	×	×				×		×	×		×	
tom	SION	Shimmy	×	×	×	×			×				×	×	×		×
		Shudder Poor quality ride or handling	×	×	×	×	×		×	×			×	×	×		×

^{×:} Applicable

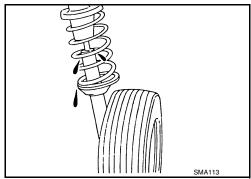
PERIODIC MAINTENANCE

REAR SUSPENSION ASSEMBLY

On-vehicle Service

 Check the suspension parts for excessive play, cracks, wear or damage. Shake each rear wheel to check for excessive play.

- Retighten all nuts and bolts to the specified torque.
- Make sure that each cotter pin is installed (if equipped).
- Check the shock absorber for oil leakage or other damage.
- · Check the wheelarch height. Refer to RSU-23, "Wheelarch Height".
- Check the suspension ball joint for grease leakage and the ball joint dust cover for cracks or other damage.



Inspection INFOID:0000000011154083

SHOCK ABSORBER ASSEMBLY

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

SUSPENSION ARM

- Check the suspension arm for damage, cracks, deformation and replace if necessary.
- Check the rubber bushings for damage, cracks and deformation. Replace suspension arm if necessary.
- Check the ball joint. Replace the suspension arm assembly if any of the following conditions exist:
- Ball stud is worn.
- Joint is hard to swing.
- Check if the swinging force (A), rotating torque (B), or vertical end play (C) is out of specification using Tool.

Tool number : — (J-44372)

NOTE:

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

: Refer to RSU-23, "Ball Joint". Swinging force (A) Rotating torque (B) : Refer to RSU-23, "Ball Joint". Vertical end play (C) : Refer to RSU-23, "Ball Joint".

RADIUS ROD

- Check the radius rod for any deformation, cracks, or damage and replace if necessary.
- After installing the radius rod, check the wheel alignment and adjust if necessary. Refer to RSU-23, "Wheel Alignment (Unladen*)".

FRONT LOWER LINK

Check the front lower link for any deformation, cracks, or damage and replace if necessary.

UPPER AND LOWER RUBBER SEATS

Check the upper and lower rubber seats for deterioration or cracks and replace if necessary.

REAR LOWER LINK AND COIL SPRING

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REAR SUSPENSION ASSEMBLY

< PERIODIC MAINTENANCE >

Check the rear lower link and coil spring for any deformation, cracks, or other damage and replace if necessary.

STABILIZER BAR

- Check the stabilizer bar and clamps for any deformation, cracks or damage and replace if necessary.
- Check the rubber bushings for deterioration or cracks and replace if necessary.

Inspection and Adjustment

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Before checking the rear wheel alignment, make a preliminary inspection.

Measure the wheel alignment under unladen conditions.

NOTE:

Unladen conditions mean that fuel, engine coolant, and lubricants are full and that the spare tire, jack, hand tools and mats are in their designated positions.

PRELIMINARY INSPECTION

- Check the tires for wear and for improper inflation.
- Check the wheels for deformation, cracks, and other damage. Remove the wheel and check the wheel runout. Refer to <u>WT-58</u>, "Adjustment".
- · Check the rear wheel bearings for looseness.
- · Check the rear suspension for looseness.
- Check that the rear shock absorbers work properly.
- Check the wheelarch height in the unladen condition. Refer to RSU-23, "Wheelarch Height".

GENERAL INFORMATION AND RECOMMENDATIONS

- 1. 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 machine itself should be capable of accepting any NISSAN/INFINITI vehicle.
 - The alignment machine should be checked to ensure that it is level.
- 2. Make sure the alignment machine is properly calibrated.
 - Your alignment machine should be regularly calibrated in order to give correct information.
 - Check with the manufacturer of your specific alignment machine for their recommended Service/Calibration Schedule.

THE ALIGNMENT PROCESS

IMPORTANT: Use only the alignment specifications listed in this Service Manual. Refer to <u>RSU-23</u>, "Wheel <u>Alignment (Unladen*)"</u>.

- 1. 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 alignment machine that operate these indicators may not be correct.
 - This may result in an ERROR.
- Most camera-type alignment machines are equipped with both "Rolling Compensation" method and optional "Jacking Compensation" method to "compensate" the alignment targets or head units. "Rolling Compensation" is the preferred method.
 - If using the "Rolling Compensation" method, after installing the alignment targets or head units, push or pull on the rear wheel to move the vehicle. Do not push or pull the vehicle body.
 - If using the "Jacking Compensation" method, after installing the alignment targets or head units, raise the vehicle and rotate the wheels 1/2 turn both ways.

NOTE:

Do not use the "Rolling Compensation" method if you are using sensor-type alignment equipment.

• Follow all instructions for the alignment machine you're using for more information.

CAMBER

 Measure the camber of both the right and left wheels using a suitable alignment gauge and adjust using the following procedure.

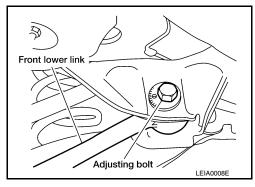
Camber: Refer to RSU-23, "Wheel Alignment (Unladen*)".

REAR SUSPENSION ASSEMBLY

< PERIODIC MAINTENANCE >

- If the camber is not within specification, adjust the camber by turning the adjusting bolts in the same direction.
- Turn the adjusting bolts in the same direction to calibrate.
 NOTE:

Camber changes about 0° 5' (0.08°) with each graduation of the adjusting bolt.



Adjusting bolt

Rear lower link

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2. Tighten the adjusting bolt nuts to the specified torque.

Adjusting bolt nuts : Refer to RSU-19, "Exploded View".

TOE-IN

 Measure the toe-in of the rear wheels. If out of specification, inspect and replace any damaged or worn rear suspension parts before adjusting.

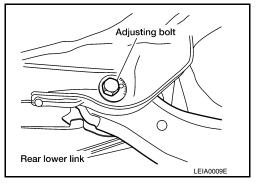
Total toe-in : Refer to RSU-23, "Wheel Alignment (Unladen*)".

Adjust toe-in by turning adjusting bolt on rear lower link.
 NOTE:

Toe changes about 1.5 mm (0.059 in) [one side] with each graduation of the adjusting bolt.

 After adjusting, tighten the adjusting bolt nut to the specified torque.

Adjusting bolt nut : Refer to RSU-19, "Exploded View".



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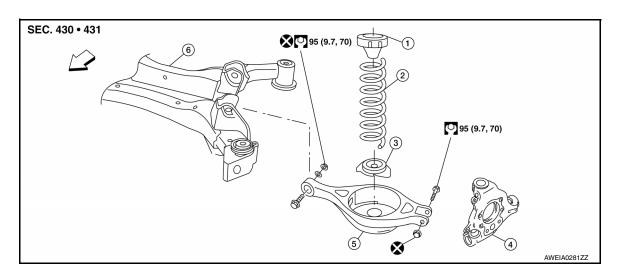
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REMOVAL AND INSTALLATION

REAR LOWER LINK & COIL SPRING

Exploded View



- Upper seat
- 4. Rear knuckle
- ← Front

- 2. Coil spring
- Rear lower link

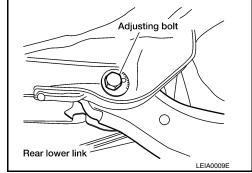
- 3. Lower seat
- 6. Rear suspension member

Removal and Installation

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REMOVAL

- Remove the rear wheels and tires using power tool. Refer to <u>WT-58, "Adjustment"</u>.
- Put alignment marks on the adjusting bolt and on the rear lower link.



- 3. Loosen the rear lower link adjusting bolt on the rear suspension member.
- 4. Support the rear lower link with a suitable jack.

WARNING:

Place a suitable jack under the outer end of the rear lower link. **CAUTION**:

Do not damage the rear lower link with the suitable jack.

5. Support the rear knuckle with a suitable jack.

WARNING:

Place a suitable jack under the center of the rear knuckle.

Do not damage the rear knuckle with the suitable jack.

6. Remove the rear lower link nut and bolt from the rear knuckle using power tool.

REAR LOWER LINK & COIL SPRING

< REMOVAL AND INSTALLATION >

- 7. Slowly lower the suitable jack supporting the rear lower link. Remove the upper seat, the coil spring, and the lower seat from the rear lower link.
- 8. Remove the rear lower link nut and bolt from the rear suspension member using power tool.
- 9. Remove the rear lower link.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

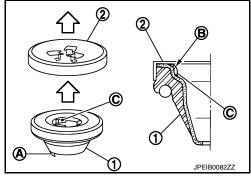
Do not reuse rear lower link nuts.

Make sure that the upper seat is attached as shown.

CAUTION:

- Keep the upper seat (1) in place during coil spring installation. The protrusion (A) on the upper seat faces the outside of the vehicle.
- Align the tabs (C) to the upper seat openings and securely fit the bracket (2) to the tabs (B).

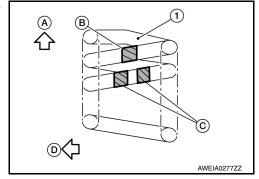




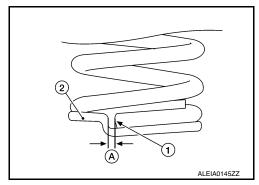
- Match up the lower seat indentions and the rear lower link grooves.
- When installing the coil spring (1), position the coil spring as shown.
 - (A): Vehicle upper side
 - (B): 1 paint mark
 - (C): 2 paint marks
 - (D): Vehicle inside

CÁUTION:

Position the coil spring with the 2 paint marks 3.5 turns from the bottom.



- Install the coil spring by aligning the lower end of the coil spring (1) to the bump on the lower spring seat (2).
 - (A) : Maximum gap 5 mm (0.20 in)



- Perform the final tightening of the parts under unladen conditions with the tires on the ground.
- Check the wheel alignment. Refer to RSU-6, "Inspection and Adjustment".
- Adjust the neutral position of the steering angle sensor. Refer to <u>BRC-190</u>, "Work <u>Procedure"</u>.

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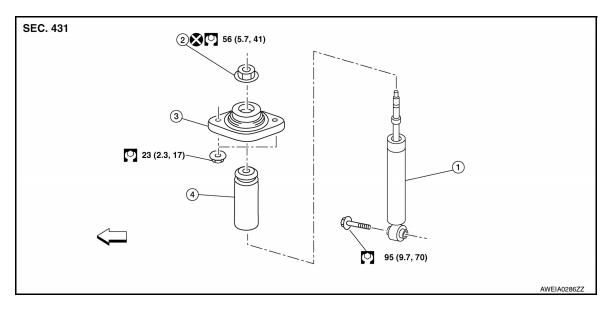
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REAR SHOCK ABSORBER

Exploded View



- Rear shock absorber
 Bound bumper
- 2. Piston rod lock nut
- <> Front

3. Shock absorber insulator

Removal and Installation

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REMOVAL

- 1. Remove the rear wheels and tires using power tool. Refer to WT-58, "Adjustment".
- 2. Set a suitable jack under the rear lower link to relieve the coil spring tension.

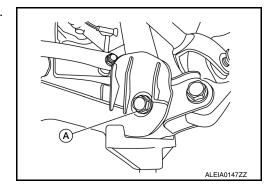
WARNING:

Place a suitable jack under the outer end of the rear lower link.

CAUTION:

Do not damage the rear lower link with the suitable jack.

3. Remove the lower rear shock absorber bolt (A) with power tool.

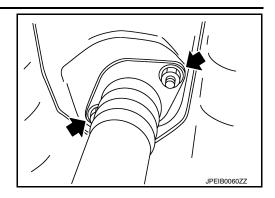


4. Gradually lower the suitable jack to separate the rear shock absorber from the rear lower link.

REAR SHOCK ABSORBER

< REMOVAL AND INSTALLATION >

5. Remove the rear shock absorber nuts ().



6. Remove the rear shock absorber.

INSTALLATION

Installation is in the reverse order of removal.

Perform the final tightening of the parts under unladen conditions with the tires on the ground.

Disposal INFOID:0000000011154089

1. Set the shock absorber horizontally with the piston rod fully extended.

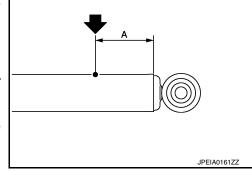
2. Drill a 2-3 mm (0.08 - 0.12 in) hole at the position () as shown to release gas gradually.

CAUTION:

- Wear eye protection (safety glasses).
- Wear gloves.
- · Be careful with metal chips or oil blown out by the compressed gas.

NOTE:

- Drill vertically in this direction (directly into the outer tube avoiding brackets.
- The gas is clear, colorless, odorless, and harmless.



(A) : 20 - 30 mm (0.79 - 1.18 in)

3. Position the drilled hole downward and drain the oil by moving the piston rod several times.

Dispose of drained oil according to the law and local regulations.

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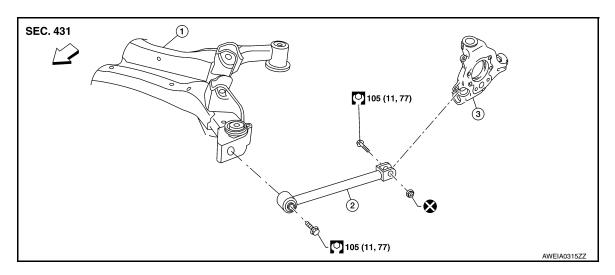
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RADIUS ROD

Exploded View



- 1. Rear suspension member
- < >
 → Front

2. Radius rod

Rear knuckle

Removal and Installation

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REMOVAL

- 1. Remove the rear wheels and tires using power tool. Refer to WT-58, "Adjustment".
- 2. Remove the radius rod bolt and nut from the rear knuckle using power tool.
- 3. Remove the radius rod bolt from the rear suspension member using power tool.
- 4. Remove the radius rod.

INSTALLATION

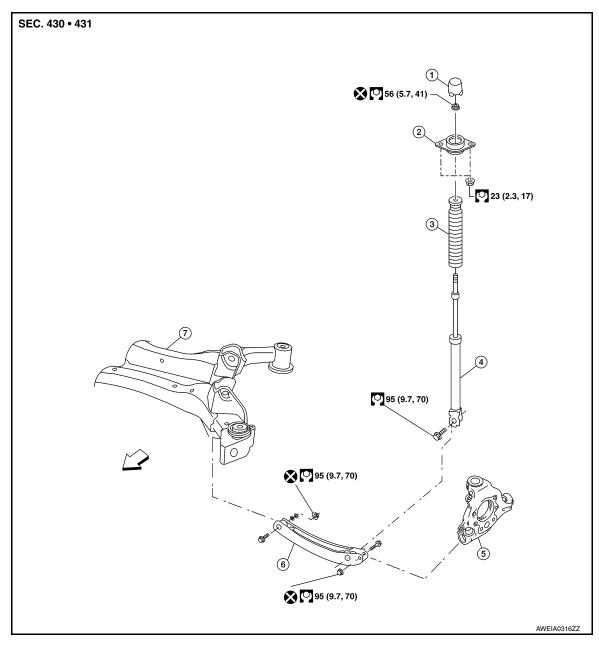
Installation is in the reverse order of removal.

CAUTION:

Do not reuse the radius rod nut.

FRONT LOWER LINK

Exploded View INFOID:0000000011154092



- 1. Cap
- Rear shock absorber
- Rear suspension member
- 2. Shock absorber insulator
- Rear knuckle

- Bound bumper
- Front lower link

Removal and Installation

REMOVAL

- 1. Remove the rear wheels and tires using power tool. Refer to WT-66, "Road Wheel".
- 2. Support the rear lower link with a suitable jack.

WARNING:

Place a suitable jack under the outer end of the rear lower link. **CAUTION:**

Do not damage the rear lower link with the suitable jack.

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FRONT LOWER LINK

< REMOVAL AND INSTALLATION >

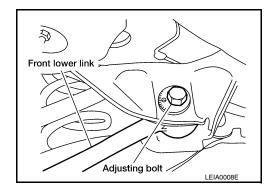
Support the rear knuckle with a suitable jack.

WARNING:

Place a suitable jack under the center of the rear knuckle. **CAUTION**:

Do not damage the rear knuckle with the suitable jack.

4. Index mark the adjusting bolt to the rear suspension member.



- 5. Remove the lower shock absorber bolt using power tool. Refer to RSU-19, "Exploded View".
- 6. Remove the coil spring. Refer to RSU-8, "Removal and Installation".
- 7. Remove the front lower link bolt and nut from the rear suspension member using power tool.
- 8. Remove the front lower link bolt and nut from the rear knuckle using power tool.
- 9. Remove the front lower link cover.
- 10. Remove the front lower link.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Do not reuse the front lower link nuts.

- Perform the final tightening of the parts under unladen conditions with the tires on the ground.
- · Check the wheel alignment. Refer to RSU-6, "Inspection and Adjustment".
- Adjust the neutral position of the steering angle sensor. Refer to BRC-190, "Work Procedure".

REAR STABILIZER

Exploded View

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103 (11, 76)

59 (6.0, 44)

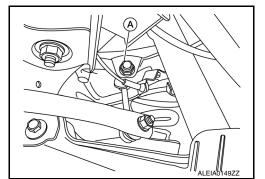
- Rear suspension arm
- 4. Stabilizer bar bushing
- 2. Connecting rod (LH)
- 5. Stabilizer bar clamp
- 3. Stabilizer bar

Removal and Installation

REMOVAL

1. Apply matching marks to the rear suspension arms, the connecting rods, and the stabilizer shaft to identify the installation position.

2. Remove both upper connecting rod nuts (A). Disconnect both connecting rods from the rear suspension arms.



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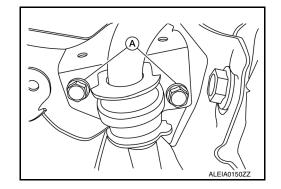
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3. Remove the 4 stabilizer clamp bolts (A) using power tool.



- 4. Remove the stabilizer clamps.
- 5. Remove the stabilizer bar bushings.

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REAR STABILIZER

< REMOVAL AND INSTALLATION >

- 6. Remove the stabilizer bar.
- 7. Remove both lower connecting rod nuts. Disconnect both connecting rods from the stabilizer bar.

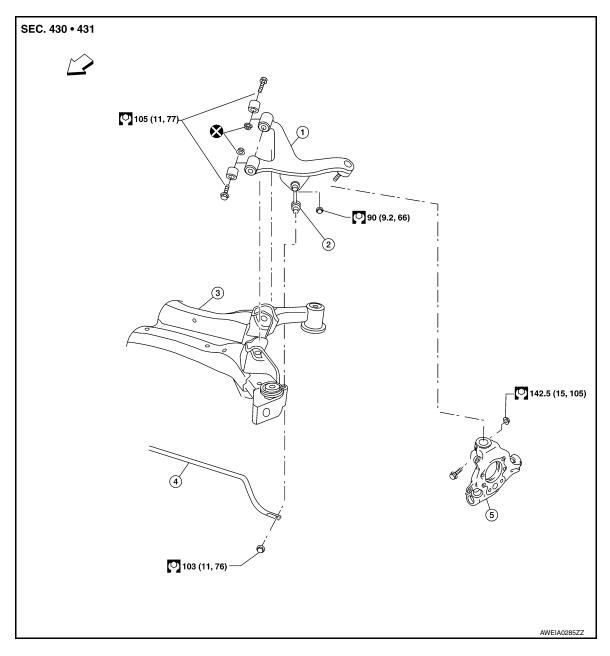
INSTALLATION

Installation is in the reverse order of removal.

- Position the stabilizer bar bushings with the slit facing the front of the vehicle.
- · Align the matching marks when installing.
- Tighten the connecting rod nut to the specified torque while holding the hexagonal part of the connecting rod stud.

REAR SUSPENSION ARM

Exploded View INFOID:0000000011154096



- Rear suspension arm
- Stabilizer bar

- 2. Connecting rod (LH)
- Rear knuckle

- Rear suspension member
- ← Front

Removal and Installation

REMOVAL

- Remove the rear wheels and tires using power tool. Refer to <u>WT-58. "Adjustment"</u>.
- Remove the brake caliper torque member bolts, leaving the brake hose attached. Position the caliper aside with wire. Refer to BR-36, "BRAKE CALIPER ASSEMBLY: Removal and Installation". CAUTION:

Do not depress the brake pedal while the brake caliper is removed.

3. Put alignment marks on the disc brake rotor and on the wheel hub and bearing. Remove the disc brake rotor.

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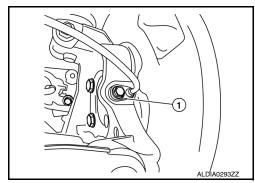
REAR SUSPENSION ARM

< REMOVAL AND INSTALLATION >

CAUTION:

Do not drop the disc brake rotor.

- 4. Remove the coil spring. Refer to RSU-8, "Removal and Installation".
- 5. Remove the upper connecting rod nut. Disconnect the connecting rod from the rear suspension arm. Refer to RSU-15, "Exploded View".
- 6. Remove the wheel sensor (1) and the wheel speed sensor harness from the rear knuckle. Refer to BRC-259, "Exploded View Rear Wheel Sensor".



- 7. Remove the wheel speed sensor harness from rear suspension arm.
- 8. Remove the stabilizer bar. Refer to RSU-15, "Exploded View".
- Remove the suspension arm bolt and nut from the rear knuckle using power tool. Disconnect the suspension arm from the rear knuckle.
- 10. Remove the suspension arm bolts and nuts from the rear suspension member using power tool.
- 11. Remove the suspension arm.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

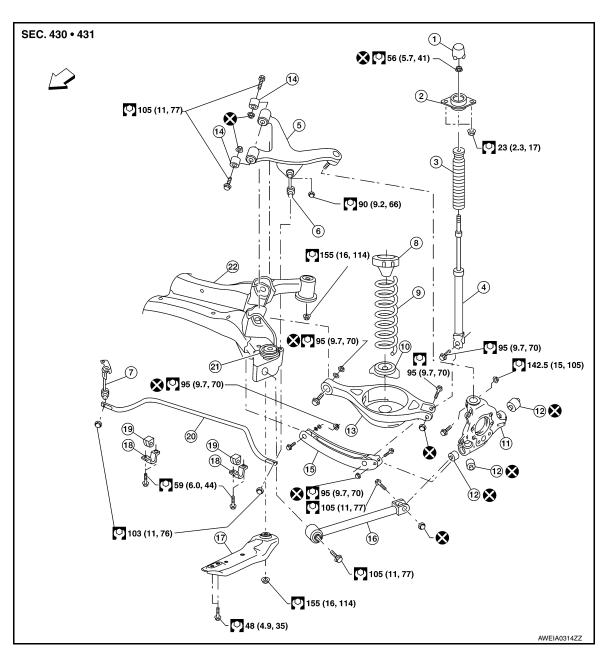
Do not reuse the rear suspension arm nuts at the rear suspension member.

- Perform the final tightening of the parts under unladen conditions with tires on the ground.
- Check the wheel sensor harness for proper connection. Refer to <u>BRC-259</u>, "<u>Exploded View Rear Wheel Sensor</u>".
- Check the wheel alignment. Refer to <u>RSU-6</u>, "Inspection and Adjustment".
- Adjust the neutral position of the steering angle sensor. Refer to <u>BRC-190</u>, "Work <u>Procedure"</u>.

UNIT REMOVAL AND INSTALLATION

REAR SUSPENSION MEMBER

Exploded View



- 1. Cap
- 4. Rear shock absorber
- 7. Connecting rod (RH)
- 10. Lower seat
- 13. Rear lower link
- 16. Radius rod
- 19. Stabilizer bar bushing
- 22. Rear suspension member

- 2. Shock absorber insulator
- 5. Rear suspension arm
- 8. Upper seat
- 11. Rear knuckle
- 14. Suspension arm bushings
- 17. Front member stay (LH)
- 20. Stabilizer bar
- ← Front

- 3. Bound bumper
- 6. Connecting rod (LH)
- 9. Coil spring
- 12. Bushing
- 15. Front lower link
- 18. Stabilizer bar clamp
- 21. Member stopper

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REAR SUSPENSION MEMBER

< UNIT REMOVAL AND INSTALLATION >

Removal and Installation

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REMOVAL

- Remove the rear wheels and tires using power tool. Refer to <u>WT-58, "Adjustment"</u>.
- Remove the brake calipers, leaving the brake hoses attached. Position the brake calipers aside with wire. Refer to BR-40, "BRAKE CALIPER ASSEMBLY: Removal and Installation".

CAUTION:

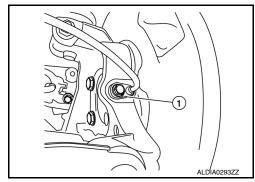
Do not depress the brake pedal while the caliper assembly is removed.

Put alignment marks on the disc brake rotors and on the wheel hubs and bearings. Remove the disc brake rotors.

CAUTION:

Do not drop the disc brake rotors.

4. Remove the wheel sensors (1) and the wheel sensor harness. Refer to <u>BRC-259</u>, "Exploded View - Rear Wheel Sensor".



- 5. Remove the tail pipe. Refer to EX-5, "Exploded View".
- 6. Remove the stabilizer bar. Refer to RSU-15, "Exploded View".
- 7. Remove the drive shafts (4WD models). Refer to DLN-102, "Removal and Installation".
- 8. Remove the propeller shaft (4WD models). Refer to <u>DLN-102</u>, "Removal and Installation".
- 9. Remove the spare tire (4WD models).
- 10. Remove the harness from the rear final drive and from the rear suspension member (4WD models).
- 11. Remove the rear final drive (4WD models). Refer to DLN-127, "Exploded View".
- 12. Disconnect the parking brake cables from the rear knuckles, from the vehicle chassis, and from the rear suspension member. Refer to PB-7, "Exploded View".
- 13. Remove the rear lower links and the coil springs. Refer to RSU-8, "Removal and Installation".
- 14. Remove the shock absorber lower bolts. Refer to RSU-10, "Exploded View".
- 15. Set a suitable jack under the rear suspension member.

WARNING:

Place a suitable jack under the center of the rear suspension member.

CAUTION:

Do not damage the rear suspension member with the suitable jack.

- 16. Remove the front member stay (LH) and the front member stay (RH) from the vehicle chassis.
- 17. Slowly lower the jack. Remove the rear suspension member, the rear suspension arms, the radius rods, the front lower links, and the rear knuckles from the vehicle as a unit.
- Remove each rear knuckle with the park brake components and the wheel hub and bearing as an assembly.
- 19. Remove the rear suspension arms. Refer to RSU-17, "Exploded View".
- 20. Remove the radius rods. Refer to RSU-12, "Exploded View".
- Remove the front lower links. Refer to RSU-13, "Exploded View".

INSTALLATION

Installation is in the reverse order of the removal.

CAUTION:

- · Do not reuse the rear suspension arm nuts at the rear suspension member.
- · Do not reuse the rear lower link nuts.
- Do not reuse the front lower link nuts.

REAR SUSPENSION MEMBER

< UNIT REMOVAL AND INSTALLATION >

- Perform the final tightening of the parts under unladen conditions with the tires on the ground.
- Check the wheel sensor harness for proper connection. Refer to <u>BRC-259</u>, "Exploded View Rear Wheel Sensor"
- Adjust the parking brake operation (stroke). Refer to PB-4, "Inspection and Adjustment".
- Check the wheel alignment. Refer to RSU-6, "Inspection and Adjustment".
- Adjust the neutral position of the steering angle sensor. Refer to <u>BRC-190</u>. "Work <u>Procedure"</u>.

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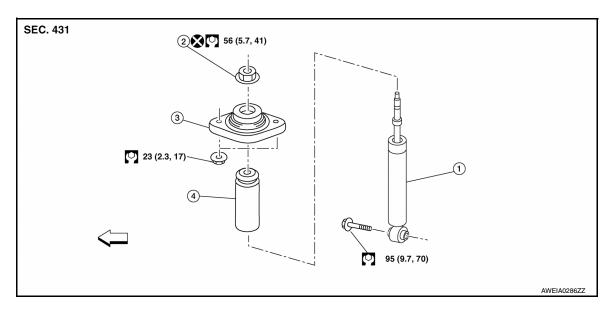
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UNIT DISASSEMBLY AND ASSEMBLY

REAR SHOCK ABSORBER

Exploded View



- 1. Rear shock absorber
- 4. Bound bumper

- 2. Piston rod lock nut
- ← Front

3. Shock absorber insulator

Disassembly and Assembly

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DISASSEMBLY

CAUTION:

Do not damage the shock absorber piston rod when removing components from the shock absorber.

- 1. Remove the cap from the shock absorber insulator.
- Wrap a shop cloth around the lower shock absorber bolt flange. Secure the lower shock absorber bolt flange in a vise.

CAUTION:

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

- 3. Secure the piston rod tip so that the piston rod does not turn. Remove the piston rod lock nut.
- 4. Remove the shock absorber insulator and the bound bumper from the rear shock absorber.

ASSEMBLY

Assembly is in the reverse order of disassembly.

CAUTION:

Do not reuse the piston rod lock nut.

SERVICE DATA AND SPECIFICATIONS (SDS)

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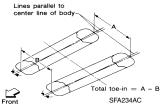
SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Wheel Alignment (Unladen*)

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Item	Standard	
	Minimum	-1° 05′ (-1.08°)
Camber Degree minute (Decimal degree)	Nominal	-0° 35′ (-0.58°)
Dog.co miliato (Docimai dog.co)	Maximum	-0° 05′ (-0.08°)



Total toe-in		Minimum	Out 0.8 mm (Out 0.031 in)		
	Distance (A - B)	Nominal	In 2.2 mm (In 0.087 in)		
		Maximum	In 5.2 mm (In 0.205 in)		
	Angle (LH and RH)	Minimum	Out 0° 2' 24" (Out 0.04°)		
	Degree minute	Nominal	In 0° 9′ 36″ (In 0.16°)		
	(Decimal degree)	Maximum	In 0° 21′ 36″ (In 0.36°)		

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

Ball Joint

Item	Standard
Swing torque	0.5 − 3.4 N·m (0.05 − 0.35 kg-m, 4 − 30 in-lb)
Measurement on spring balance (cotter pinhole position)	8.1 – 54.8 N (0.83 – 5.59 kg, 1.82 – 12.32 lb)
Axial end play	0 mm (0 in)

Wheelarch Height

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Revision: September 2014 RSU-23 2015 Pathfinder

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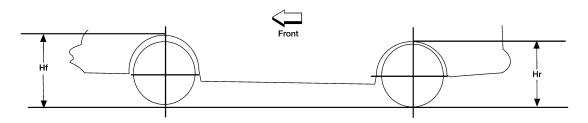
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SERVICE DATA AND SPECIFICATIONS (SDS)

Unit: mm (in)



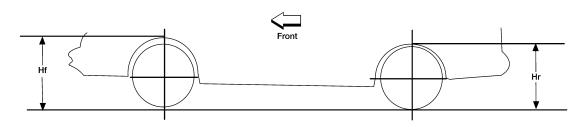
LEIA0085E

Axle type		2WD		4WD					
Wheel size	235/6	35R18	235/55R20	235/6	235/55R20				
Grade	S, SV	SL	Platinum	S, SV	SL, Platinum				
Front (Hf)	823 (32.40)	823 (32.40)	821 (32.32)	822 (32.36)	822 (32.36)				
Rear (Hr)	828 (32.60)	827 (32.56)	825 (32.48)	827 (32.56)	826 (32.52)				

Measure value under unladen conditions. (Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions).

CANADA

Unit: mm (in)



LEIA0085E

Axle type	2WD		4WD			
Wheel size		235/6	235/55R20			
Grade	S	SL	S	SV	SL	Platinum
Front (Hf)	823 (32.40)					822 (32.36)
Rear (Hr)	829 (32.64) 828 (32.60)			827 (32.56)		

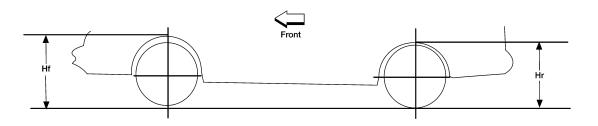
Measure value under unladen* conditions. (Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions).

MEXICO

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

Unit: mm (in)



LEIA0085E

Axle type		4WD			
Wheel size	235/65R18		235/55R20		
Grade	Sense	Advance	Exclusive	Exclusive 4WD	
Front (Hf)	823 (32.40)		821 (32.32)		
Rear (Hf)	828 (32.60)		826 (32.52)	825 (32.48)	

Measure value under unladen* conditions. (Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions).

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