

SECTION **RSU**
 REAR SUSPENSION

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RSU

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NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

INFOID:000000001209459

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

Symptom		Possible cause and SUSPECTED PARTS													Reference page			
		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 AND REAR SUSPENSION	TIRE	ROAD WHEEL		DRIVE SHAFT (4WD)	BRAKE	
Symptom	REAR SUSPENSION	Noise	x	x	x	x	x	x			x	x	x	x	x	x	x	RSU-21
		Shake	x	x	x	x		x			x		x	x	x	x	x	RSU-10
		Vibration	x	x	x	x	x				x		x	x		x		—
		Shimmy	x	x	x	x			x				x	x	x			—
		Judder	x	x	x								x	x	x			—
		Poor quality ride or handling	x	x	x	x	x		x	x			x	x	x			
																	RSU-5	
																	RSU-18	
																	NVH in DLN section	
																	NVH in DLN section	
																	NVH in RAX and RSU sections	
																	NVH in WT section	
																	NVH in WT section	
																	NVH in RAX section	
																	NVH in BR section	

x: Applicable

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

Precautions for Suspension

INFOID:000000001209460

CAUTION:

- When installing rubber bushings, the final tightening must be carried out under unladen conditions with tires on ground. 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.

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REAR SUSPENSION ASSEMBLY

< ON-VEHICLE MAINTENANCE >

ON-VEHICLE MAINTENANCE

REAR SUSPENSION ASSEMBLY

Inspection and Adjustment

INFOID:000000001209461

MOUNTING INSPECTION

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

SHOCK ABSORBER

Check for oil leakage and damage, replace if malfunction is detected.

WHEEL ALIGNMENT

< ON-VEHICLE MAINTENANCE >

WHEEL ALIGNMENT

Wheel Alignment Inspection

INFOID:000000001209462

INSPECTION

Description

Measure wheel alignment under unladen conditions.

NOTE:

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

Preliminary Check

Check the following:

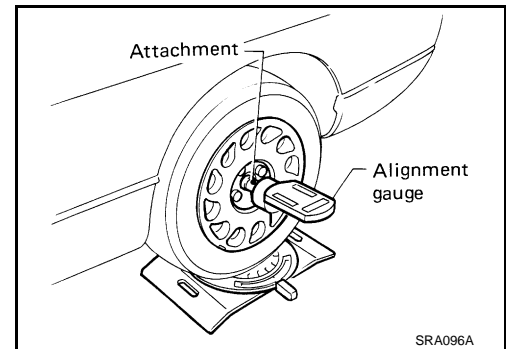
- Tires for improper air pressure and wear
- Road wheels for runout: Refer to [WT-3, "Adjustment"](#).
- Wheel bearing axial end play: Refer to [RAX-3, "Inspection"](#) (2WD), [RAX-9, "Inspection"](#) (4WD).
- Shock absorber operation
- Each mounting point of axle and suspension for looseness and deformation
- Each of lower link, upper link, rear suspension member, suspension arm and shock absorber for cracks, deformation, and other damage
- Vehicle height (posture)

Camber

- Measure camber of both right and left wheels with a suitable alignment gauge.
- If camber exceeds the standard value, adjust with adjusting bolt in lower. Refer to [RSU-6, "Adjustment"](#).

Standard

Camber: Refer to [RSU-23, "Wheel Alignment"](#).

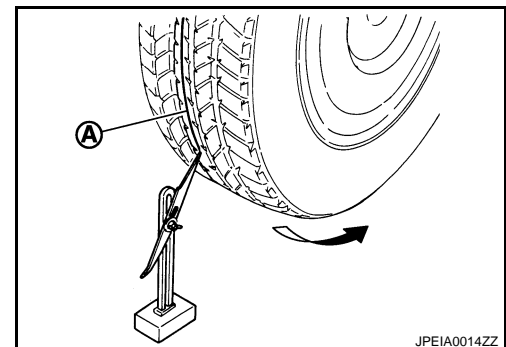


Toe-In

Measure toe-in by 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 the front of vehicle up and down to stabilize the vehicle height (posture).
 2. Push vehicle straight ahead about 5 m (16 ft).
 3. Put matching mark (A) on base line of the tread (rear side) of both tires at the same height of hub center. These are measuring points.



WHEEL ALIGNMENT

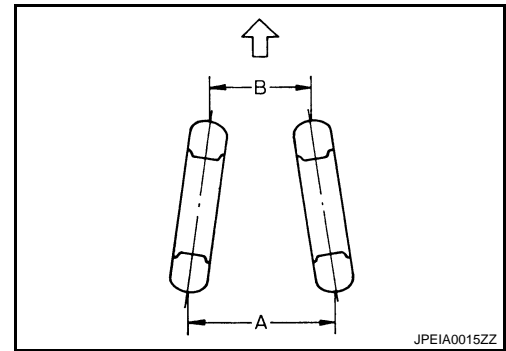
< ON-VEHICLE MAINTENANCE >

4. Measure distance (A) (rear side).
5. Push vehicle slowly ahead to rotate wheels 180 degrees (1/2 turn).
NOTE:
If the wheels rotate more than 180 degrees (1/2 turn), start this procedure again from the beginning. Do not push the vehicle backward.
6. Measure distance (B) (front side).

Standard

Total toe-in: Refer to [RSU-23, "Wheel Alignment"](#).

- If toe-in exceeds the standard value, adjust with adjusting bolt in suspension arm.



Adjustment

INFOID:000000001209463

CAMBER

If camber exceeds the standard value, adjust with adjusting bolt (1) in lower link (2).

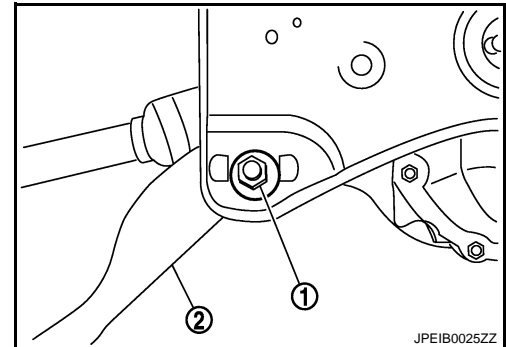
CAUTION:

- When tightening the nut firmly and checking the torque, use a wrench to prevent the turning of bolt.
- After adjusting camber, be sure to check toe-in.

Standard

Camber: Refer to [RSU-23, "Wheel Alignment"](#).

- If camber exceeds the standard value, inspect and replace any damaged or worn suspension parts.



TOE-IN

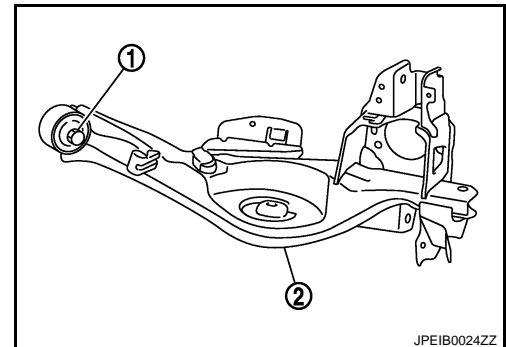
If toe-in exceeds the standard value, adjust with adjusting bolt (1) in suspension arm (2).

Standard

Toe-In: Refer to [RSU-23, "Wheel Alignment"](#).

CAUTION:

- Make an adjustment so that the toe angle of the right wheel is the same as that of left wheel.
- When tightening the nut firmly and checking the torque, use a wrench to prevent the turning of bolt.
- If toe-in exceeds the standard value, inspect and replace any damaged or worn suspension parts.



COIL SPRING

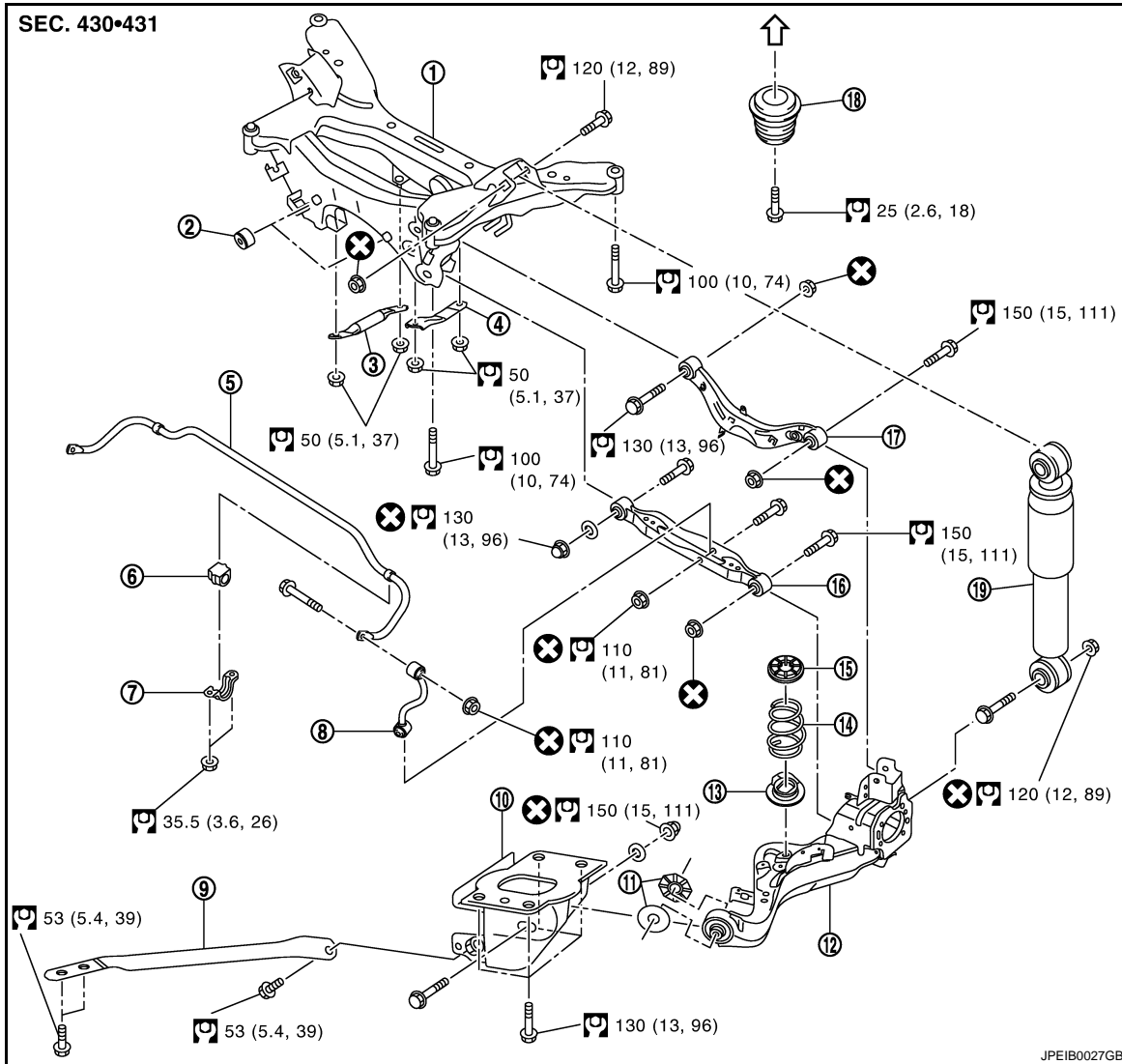
< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

COIL SPRING

Exploded View

INFOID:000000001209490



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|---------------------------------------|--------------------------------------|--|
| 1. Rear suspension member | 2. Suspension member protector (2WD) | 3. Suspension member stay (right side) |
| 4. Suspension member stay (left side) | 5. Stabilizer bar | 6. Stabilizer bushing |
| 7. Stabilizer clamp | 8. Stabilizer link | 9. Suspension bar |
| 10. Suspension arm bracket | 11. Arm stopper | 12. Suspension arm |
| 13. Low rubber seat | 14. Coil spring | 15. Upper rubber seat |
| 16. Lower link | 17. Upper link | 18. Bound bumper |

↖ : Vehicle body

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000001209465

REMOVAL

1. Remove tires from vehicle.

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COIL SPRING

< ON-VEHICLE REPAIR >

2. Remove torque member mounting bolts. Hang torque member where it does not interfere with work. Refer to [BR-48, "BRAKE CALIPER ASSEMBLY : Exploded View"](#) (LHD), [BR-95, "BRAKE CALIPER ASSEMBLY : Exploded View"](#) (RHD).

CAUTION:

Never depress brake pedal while brake caliper is removed.

3. Remove wheel sensor from axle housing. Refer to [BRC-68, "REAR WHEEL SENSOR : Exploded View"](#) (without ESP), [BRC-199, "REAR WHEEL SENSOR : Exploded View"](#) (with ESP).
4. Set suitable jack under suspension arm.
5. Remove shock absorber from suspension arm.
6. Remove lower link from suspension arm.
7. Remove upper link from suspension arm.
8. Remove drive shaft (4WD). Refer to [RAX-13, "Exploded View"](#).
9. Remove coil spring from vehicle.

INSTALLATION

Note the following, and install in the reverse order of removal.

- Match up lower rubber seat indentions and suspension arm grooves and attach.

CAUTION:

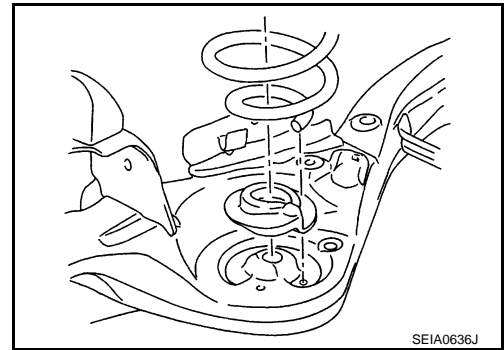
The lower rubber seat protrusion shall be securely insert into the hole of suspension arm.

- Install coil spring by aligning lower end of the large diameter side to step between lower rubber seat and suspension arm.

CAUTION:

Assemble coil spring so that spring lower end is located spring end holding section of lower rubber seat.

- Perform the final tightening of rear suspension member and axle installation position (rubber bushing) under unladen condition with tires on level ground.



Inspection

INFOID:000000001209466

INSPECTION AFTER REMOVAL

Check lower link, bushing and coil spring for deformation, crack, and damage. Replace it if necessary.

INSPECTION AFTER INSTALLATION

1. Check wheel alignment. Refer to [RSU-5, "Wheel Alignment Inspection"](#).
2. Adjust neutral position of steering angle sensor. Refer to [BRC-78, "ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION : Special Repair Requirement"](#) (with ESP).

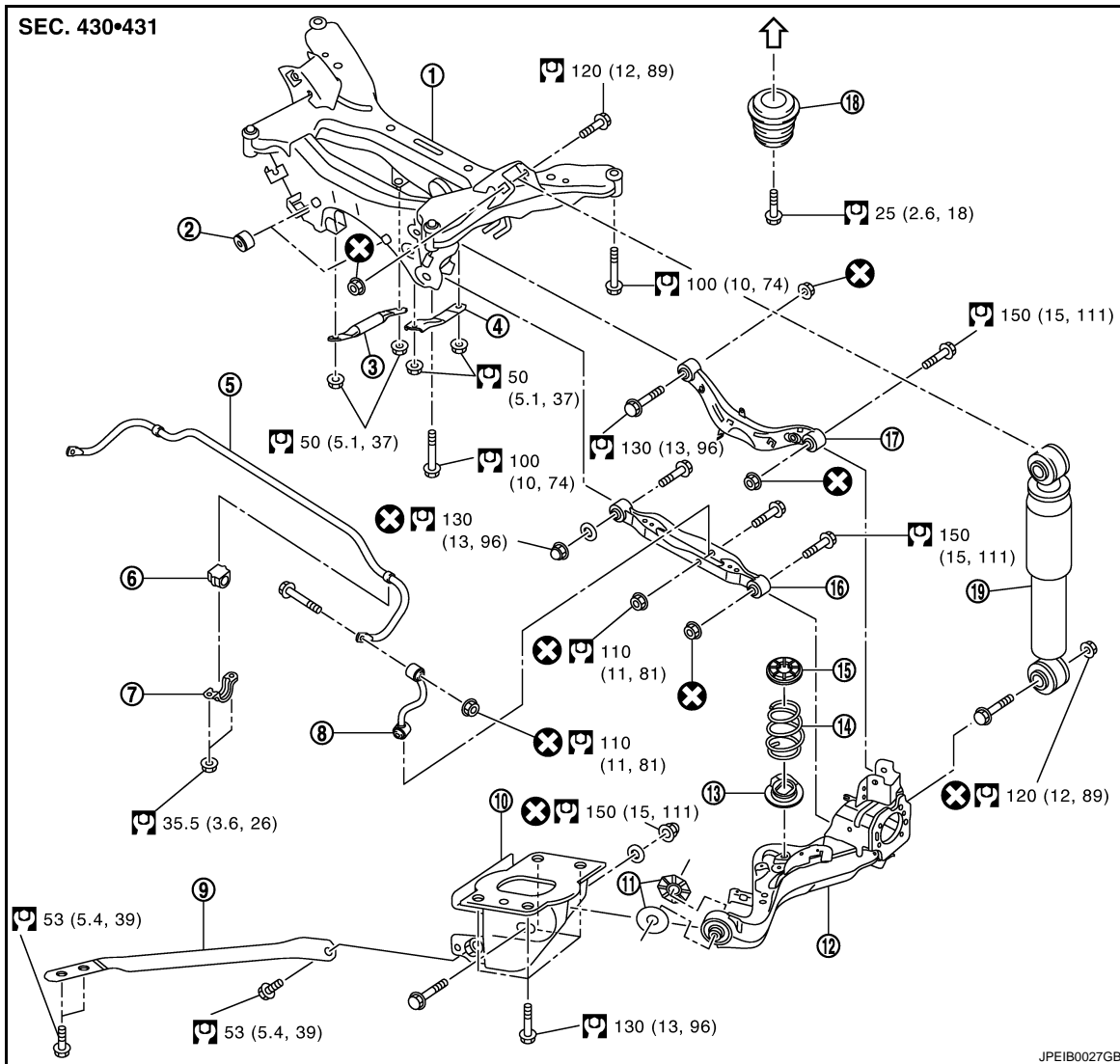
REAR SHOCK ABSORBER

< ON-VEHICLE REPAIR >

REAR SHOCK ABSORBER

Exploded View

INFOID:000000001209491



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|---------------------------------------|--------------------------------------|--|
| 1. Rear suspension member | 2. Suspension member protector (2WD) | 3. Suspension member stay (right side) |
| 4. Suspension member stay (left side) | 5. Stabilizer bar | 6. Stabilizer bushing |
| 7. Stabilizer clamp | 8. Stabilizer link | 9. Suspension bar |
| 10. Suspension arm bracket | 11. Arm stopper | 12. Suspension arm |
| 13. Low rubber seat | 14. Coil spring | 15. Upper rubber seat |
| 16. Lower link | 17. Upper link | 18. Bound bumper |
| 19. Shock absorber | | |

↔ : Vehicle body

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000001209468

REMOVAL

1. Remove tires from vehicle.
2. Set suitable jack under suspension arm to relieve the coil spring tension.

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REAR SHOCK ABSORBER

< ON-VEHICLE REPAIR >

3. Remove shock absorber.

INSTALLATION

Note the following, and install in the reverse order of removal.

- Perform final tightening of bolts and nuts at the shock absorber lower side (rubber bushing), under unladen conditions with tires on level ground.

Inspection

INFOID:000000001209469

INSPECTION AFTER REMOVAL

- Check shock absorber for deformation, cracks, damage. Replace it if necessary.
- Check welded and sealed areas for oil leakage. Replace it if necessary.

INSPECTION AFTER INSTALLION

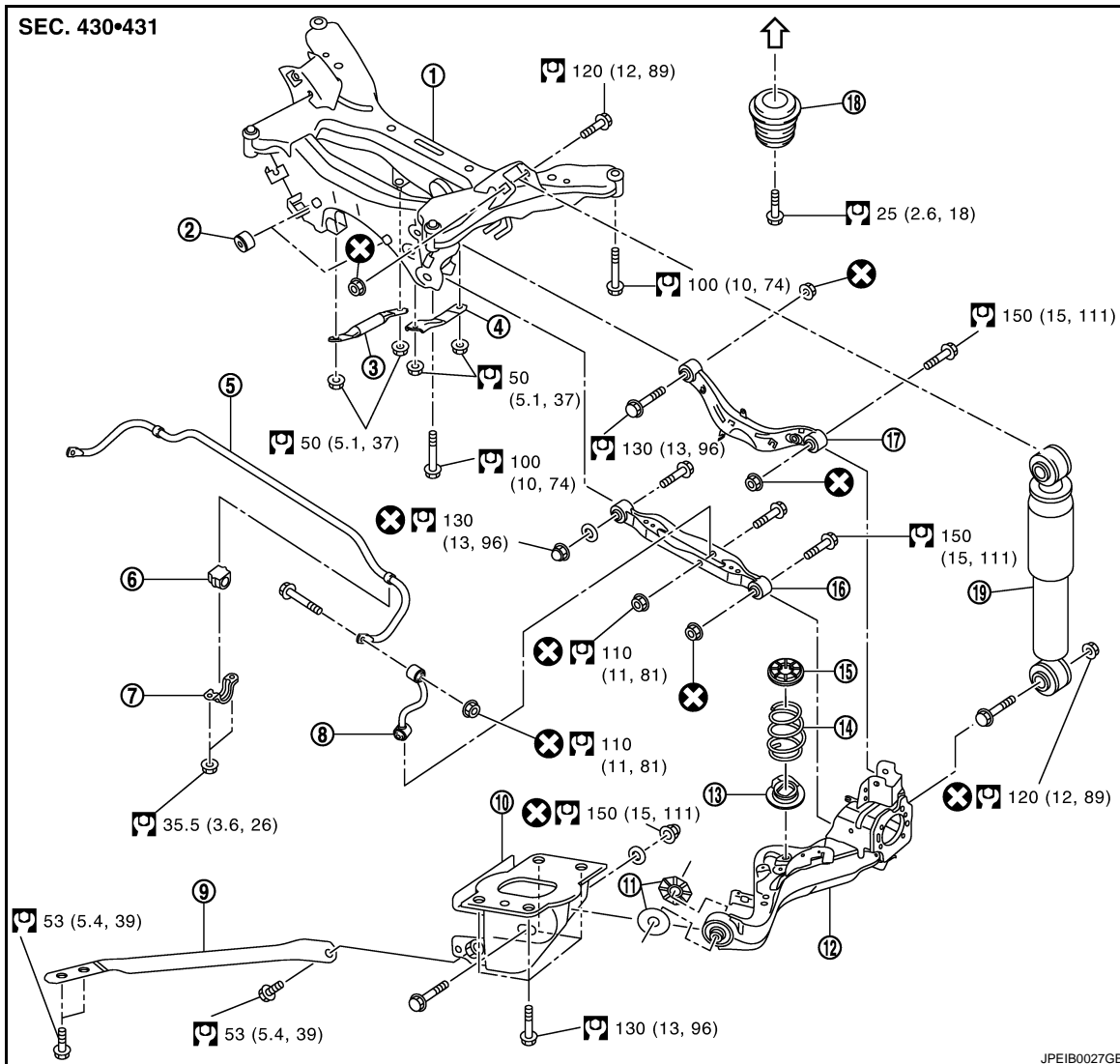
1. Check wheel alignment. Refer to [RSU-5, "Wheel Alignment Inspection"](#).
2. Adjust neutral position of steering angle sensor. Refer to [BRC-78, "ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION : Special Repair Requirement"](#) (with ESP).

SUSPENSION ARM

< ON-VEHICLE REPAIR > SUSPENSION ARM

Exploded View

INFOID:000000001209492



- | | | |
|---------------------------------------|--------------------------------------|--|
| 1. Rear suspension member | 2. Suspension member protector (2WD) | 3. Suspension member stay (right side) |
| 4. Suspension member stay (left side) | 5. Stabilizer bar | 6. Stabilizer bushing |
| 7. Stabilizer clamp | 8. Stabilizer link | 9. Suspension bar |
| 10. Suspension arm bracket | 11. Arm stopper | 12. Suspension arm |
| 13. Low rubber seat | 14. Coil spring | 15. Upper rubber seat |
| 16. Lower link | 17. Upper link | 18. Bound bumper |
| 19. Shock absorber | | |

↔ : Vehicle body

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000001209471

REMOVAL

1. Remove tires from vehicle.
2. Drain brake fluid. Refer to [BR-11, "Draining"](#) (LHD), [BR-61, "Draining"](#) (RHD).

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SUSPENSION ARM

< ON-VEHICLE REPAIR >

3. Remove torque member mounting bolts. Hang torque member where it does not interfere with work. Refer to [BR-48, "BRAKE CALIPER ASSEMBLY : Exploded View"](#) (LHD), [BR-95, "BRAKE CALIPER ASSEMBLY : Exploded View"](#) (RHD).
4. Remove disc rotor. Refer to [PB-7, "Removal and Installation"](#).
5. Remove wheel sensor and sensor harness from axle housing and lower link. Refer to [BRC-68, "REAR WHEEL SENSOR : Exploded View"](#) (without ESP), [BRC-199, "REAR WHEEL SENSOR : Exploded View"](#) (with ESP).
6. Remove parking brake cable mounting bolt. Refer to [PB-5, "Exploded View"](#).
7. Separate the brake tube from the brake hose, and remove lock plate. Refer to [BR-26, "REAR : Exploded View"](#) (LHD), [BR-74, "REAR : Exploded View"](#) (RHD).
8. Remove stabilizer link.
9. Remove auto levelizer control unit (with xenon head lamp). Refer to [EXL-225, "Exploded View"](#).
10. Set suitable jack under suspension arm to relieve the coil spring tension.
11. Remove coil spring from suspension arm.
12. Remove suspension arm and arm stopper from vehicle.

INSTALLATION

Note the following and, install in the reverse order of removal.

- After installation, perform the air bleeding. Refer to [BR-12, "Bleeding Brake System"](#) (LHD), [BR-62, "Bleeding Brake System"](#) (RHD).
- Perform final tightening of rear suspension member installation position (rubber bussing), under unladen conditions with tires on level ground.

Inspection

INFOID:000000001209472

INSPECTION AFTER REMOVAL

Visual Inspection

Check suspension arm and bushing for deformation, cracks or damage. Replace it if necessary.

INSPECTION AFTER INSTALLATION

1. Adjust parking brake operation (stroke). Refer to [PB-2, "Inspection and Adjustment"](#).
2. Check wheel alignment. Refer to [RSU-5, "Wheel Alignment Inspection"](#).
3. Adjust neutral position of steering angle sensor. Refer to [BRC-78, "ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION : Special Repair Requirement"](#) (with ESP).

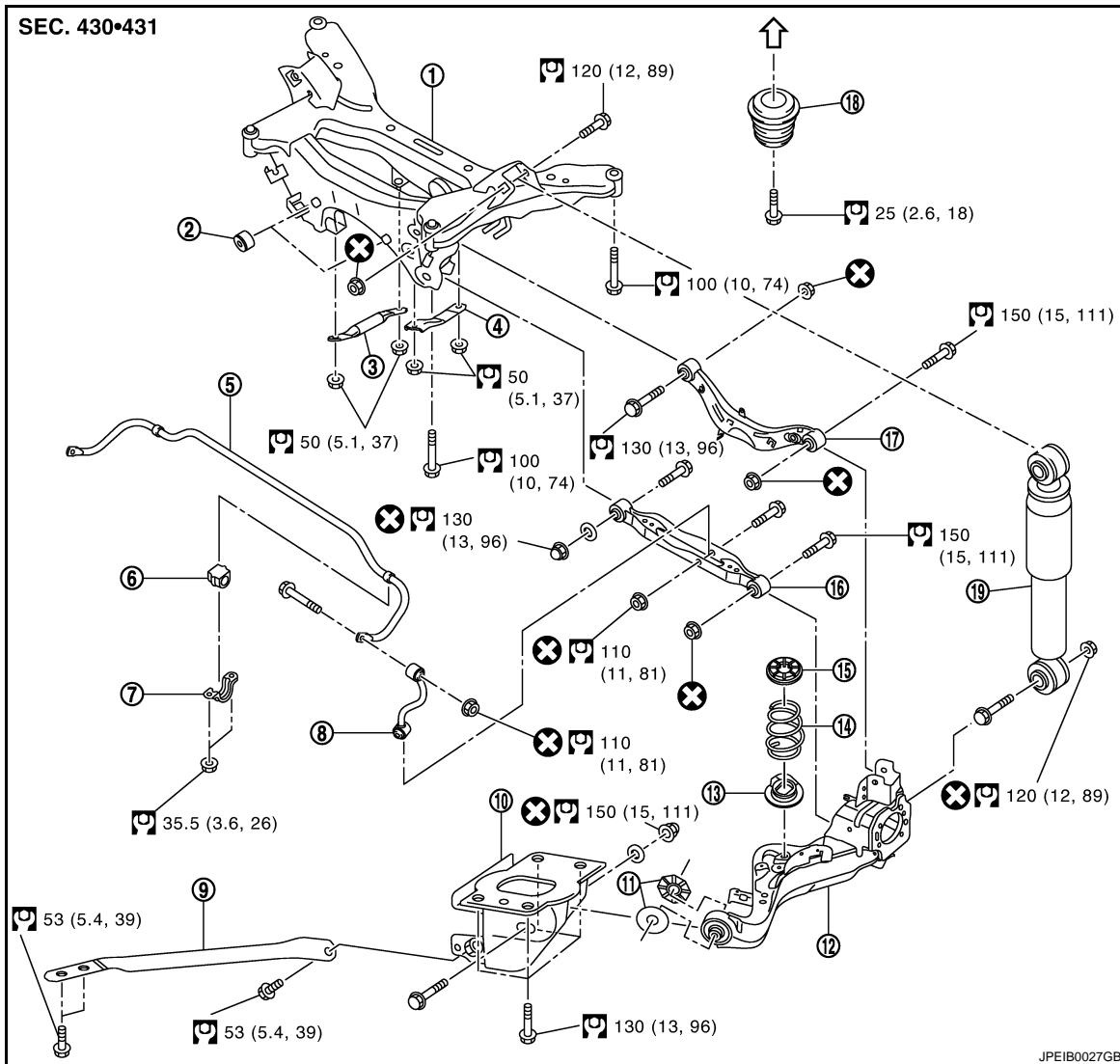
LOWER LINK

< ON-VEHICLE REPAIR >

LOWER LINK

Exploded View

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|---------------------------------------|--------------------------------------|--|
| 1. Rear suspension member | 2. Suspension member protector (2WD) | 3. Suspension member stay (right side) |
| 4. Suspension member stay (left side) | 5. Stabilizer bar | 6. Stabilizer bushing |
| 7. Stabilizer clamp | 8. Stabilizer link | 9. Suspension bar |
| 10. Suspension arm bracket | 11. Arm stopper | 12. Suspension arm |
| 13. Low rubber seat | 14. Coil spring | 15. Upper rubber seat |
| 16. Lower link | 17. Upper link | 18. Bound bumper |
| 19. Shock absorber | | |

↔ : Vehicle body

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000001209474

REMOVAL

1. Remove tires from vehicle.
2. Set suitable jack under suspension arm to relieve the coil spring tension.

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LOWER LINK

< ON-VEHICLE REPAIR >

3. Remove auto levelizer control unit (with xenon head lamp). Refer to [EXL-225, "Exploded View"](#).
4. Remove stabilizer link.
5. Remove lower link from suspension arm.
6. Remove lower link from suspension member.

INSTALLATION

Note the following, and install in the reverse order of removal.

- Perform final tightening of rear suspension member and axle installation position (rubber bushing), under unladen conditions with tires on level ground.

Inspection

INFOID:000000001209475

INSPECTION AFTER REMOVAL

Check lower link and bushing for any deformation, cracks, or damage. Replace it if necessary.

INSPECTION AFTER INSTALLATION

1. Check wheel alignment. Refer to [RSU-5, "Wheel Alignment Inspection"](#).
2. Adjust neutral position of steering angle sensor. Refer to [BRC-78, "ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION : Special Repair Requirement"](#) (with ESP).

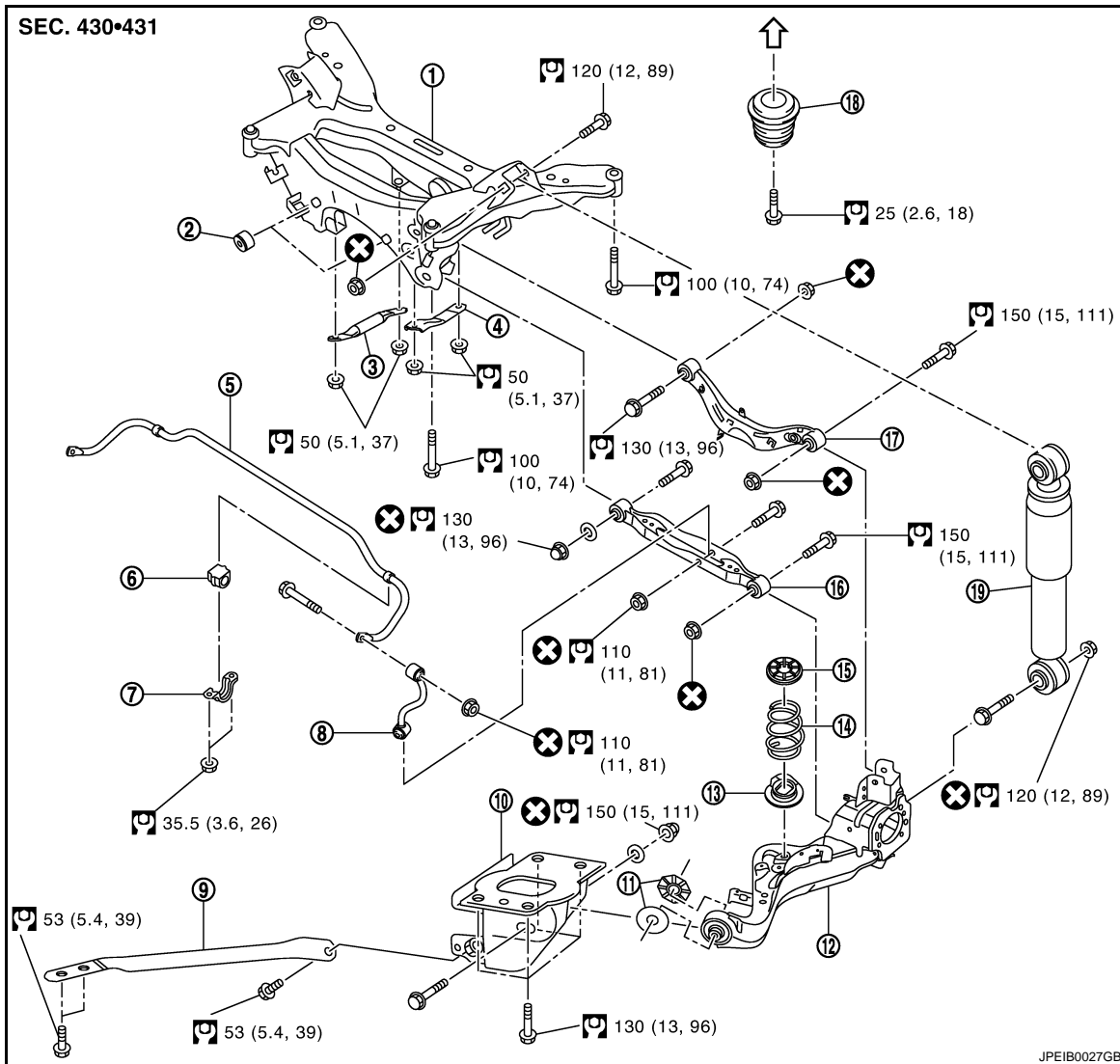
UPPER LINK

< ON-VEHICLE REPAIR >

UPPER LINK

Exploded View

INFOID:000000001209494



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|---------------------------------------|--------------------------------------|--|
| 1. Rear suspension member | 2. Suspension member protector (2WD) | 3. Suspension member stay (right side) |
| 4. Suspension member stay (left side) | 5. Stabilizer bar | 6. Stabilizer bushing |
| 7. Stabilizer clamp | 8. Stabilizer link | 9. Suspension bar |
| 10. Suspension arm bracket | 11. Arm stopper | 12. Suspension arm |
| 13. Low rubber seat | 14. Coil spring | 15. Upper rubber seat |
| 16. Lower link | 17. Upper link | 18. Bound bumper |
| 19. Shock absorber | | |

↶ : Vehicle body

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

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REMOVAL

1. Remove tires from vehicle.
2. Remove wheel sensor harness from suspension arm.

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UPPER LINK

< ON-VEHICLE REPAIR >

3. Set suitable jack under suspension arm to relieve the coil spring tension.
4. Remove upper link from suspension arm.
5. Remove upper link from suspension member.

INSTALLATION

Note the following, and install in the reverse order of removal.

- Perform final tightening of rear suspension member and axle installation position (rubber bushing), under unladen conditions with tires on level ground.

Inspection

INFOID:000000001209478

INSPECTION AFTER REMOVAL

Check upper link and bushing for any deformation, cracks, or damage. Replace it if necessary.

INSPECTION AFTER INSTALLATION

1. Check wheel alignment. Refer to [RSU-5, "Wheel Alignment Inspection"](#).
2. Adjust neutral position of steering angle sensor. Refer to [BRC-78, "ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION : Special Repair Requirement"](#) (with ESP).

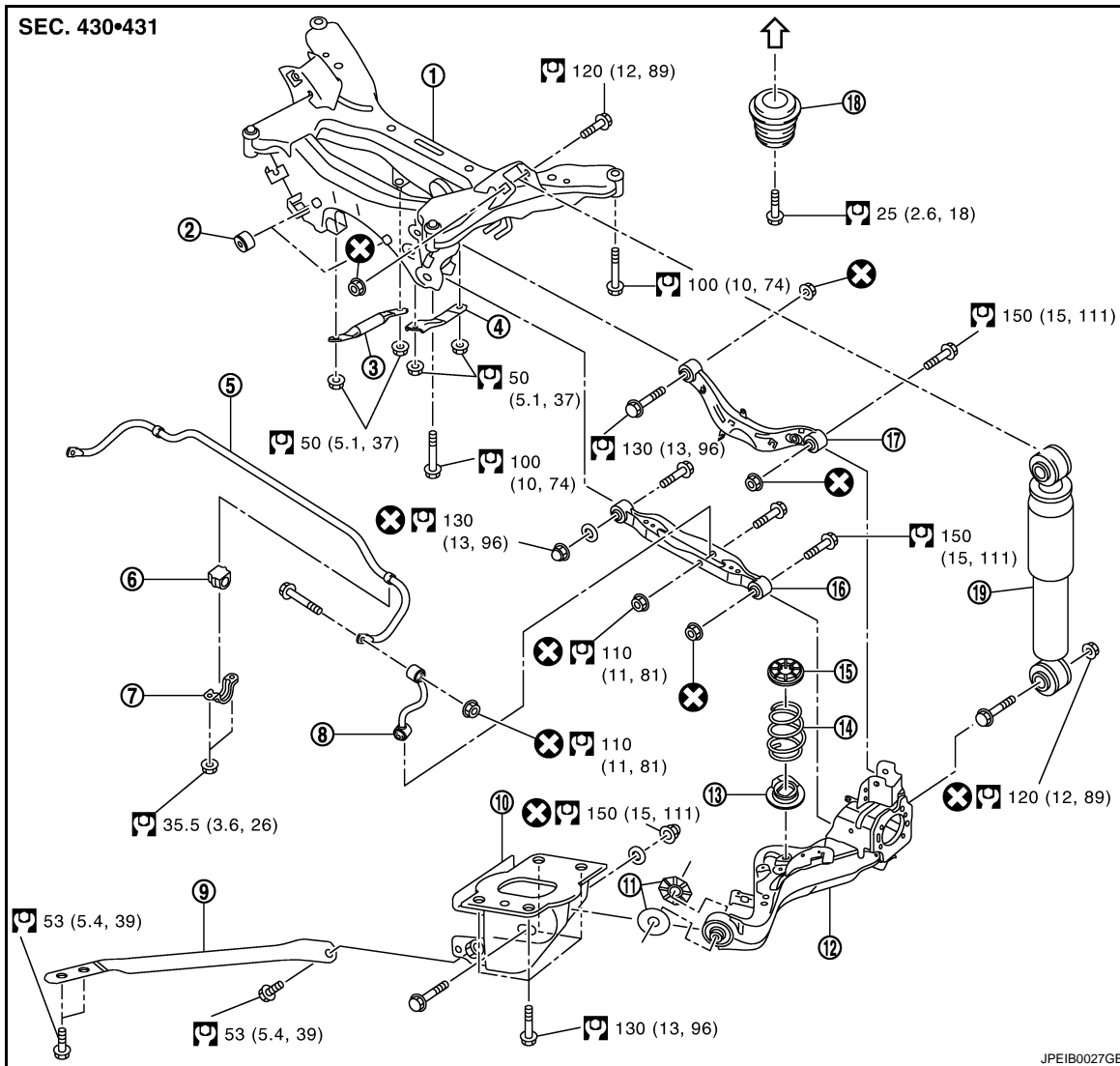
REAR STABILIZER

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REAR STABILIZER

Exploded View

INFOID:000000001209495



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|---------------------------------------|--------------------------------------|--|
| 1. Rear suspension member | 2. Suspension member protector (2WD) | 3. Suspension member stay (right side) |
| 4. Suspension member stay (left side) | 5. Stabilizer bar | 6. Stabilizer bushing |
| 7. Stabilizer clamp | 8. Stabilizer link | 9. Suspension bar |
| 10. Suspension arm bracket | 11. Arm stopper | 12. Suspension arm |
| 13. Low rubber seat | 14. Coil spring | 15. Upper rubber seat |
| 16. Lower link | 17. Upper link | 18. Bound bumper |
| 19. Shock absorber | | |

↔ : Vehicle body

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000001209480

REMOVAL

1. Remove stabilizer link.
2. Remove main muffler. Refer to [EX-5, "Exploded View"](#) (MR20DE), [EX-10, "Exploded View"](#) (QR25DE), [EX-14, "Exploded View"](#) (M9R).

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REAR STABILIZER

< ON-VEHICLE REPAIR >

3. Remove mounting nuts on stabilizer clamp and stabilizer bar from suspension member.

INSTALLATION

Install in the reverse order of removal.

Inspection

INFOID:000000001209481

INSPECTION AFTER REMOVAL

Check stabilizer bar, stabilizer link, stabilizer bushing and stabilizer clamp for deformation, cracks or damage. Replace it if necessary.

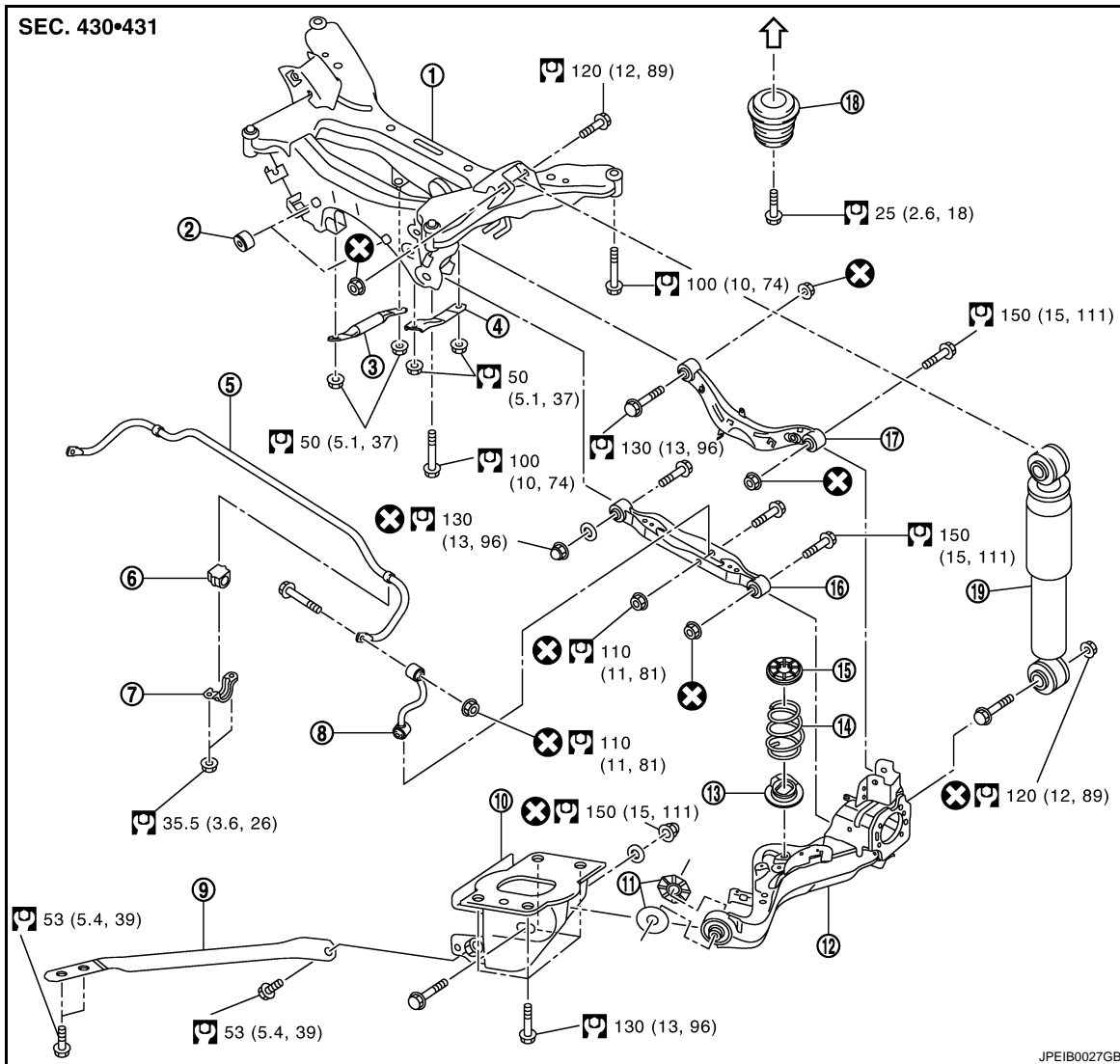
REAR SUSPENSION MEMBER

< ON-VEHICLE REPAIR >

REAR SUSPENSION MEMBER

Exploded View

INFOID:000000001209496



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| 1. Rear suspension member | 2. Suspension member protector (2WD) | 3. Suspension member stay (right side) |
| 4. Suspension member stay (left side) | 5. Stabilizer bar | 6. Stabilizer bushing |
| 7. Stabilizer clamp | 8. Stabilizer link | 9. Suspension bar |
| 10. Suspension arm bracket | 11. Arm stopper | 12. Suspension arm |
| 13. Low rubber seat | 14. Coil spring | 15. Upper rubber seat |
| 16. Lower link | 17. Upper link | 18. Bound bumper |
| 19. Shock absorber | | |

↔ : Vehicle body

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000001209483

REMOVAL

1. Remove tires from vehicle.

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REAR SUSPENSION MEMBER

< ON-VEHICLE REPAIR >

2. Remove torque member mounting bolts. Hang torque member where it does not interfere with work. Refer to [BR-48, "BRAKE CALIPER ASSEMBLY : Exploded View"](#) (LHD), [BR-95, "BRAKE CALIPER ASSEMBLY : Exploded View"](#) (RHD).
CAUTION:
Never depressing brake pedal while brake caliper is removed.
3. Remove disc rotor. Refer to [PB-7, "Removal and Installation"](#).
4. Remove wheel sensor and sensor harness from axle housing and lower link. Refer to [BRC-68, "REAR WHEEL SENSOR : Exploded View"](#) (without ESP), [BRC-199, "REAR WHEEL SENSOR : Exploded View"](#) (with ESP).
5. Remove parking brake cable mounting bolts and separate parking brake cable from suspension arm. Refer to [PB-5, "Exploded View"](#).
6. Remove auto levelizer control unit harness from lower link (with xenon head lamp). Refer to [EXL-225, "Exploded View"](#).
7. Remove main muffler. Refer to [EX-5, "Exploded View"](#) (MR20DE), [EX-10, "Exploded View"](#) (QR25DE), [EX-14, "Exploded View"](#) (M9R).
8. Remove stabilizer bar.
9. Remove drive shaft (4WD). Refer to [RAX-13, "Exploded View"](#).
10. Remove propeller shaft (4WD). Refer to [DLN-121, "Exploded View"](#).
11. Remove rear final drive (4WD). Refer to [DLN-140, "Exploded View"](#).
12. Remove shock absorber.
13. Remove coil spring.
14. Set suitable jack under rear suspension member.
15. Remove mounting nuts and bolts rear suspension member.
16. Slowly lower jack, then remove rear suspension member, lower link and upper link from vehicle as a unit.
CAUTION:
Secure suspension assembly to a suitable jack while removing it.
17. Remove mounting bolts and nuts, then remove lower link, upper link and suspension member protector (2WD) from rear suspension member.

INSTALLATION

Note the following, and install in the reverse order of the removal.

- Perform the final tightening of each part removed when removing rear suspension assembly under unladen conditions.
- Check wheel sensor harness for proper connection. Refer to [BRC-68, "REAR WHEEL SENSOR : Exploded View"](#) (without ESP), [BRC-199, "REAR WHEEL SENSOR : Exploded View"](#) (with ESP).

Inspection

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INSPECTION AFTER REMOVAL

Check rear suspension member for deformation, cracks, or any other damage. Replace it if necessary.

INSPECTION AFTER INSTALLATION

1. Adjust parking brake operation. Refer to [PB-2, "Inspection and Adjustment"](#).
2. Check wheel alignment. Refer to [RSU-5, "Wheel Alignment Inspection"](#).
3. Adjust neutral position of steering angle sensor. Refer to [BRC-78, "ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION : Special Repair Requirement"](#) (with ESP).

REAR SUSPENSION ASSEMBLY

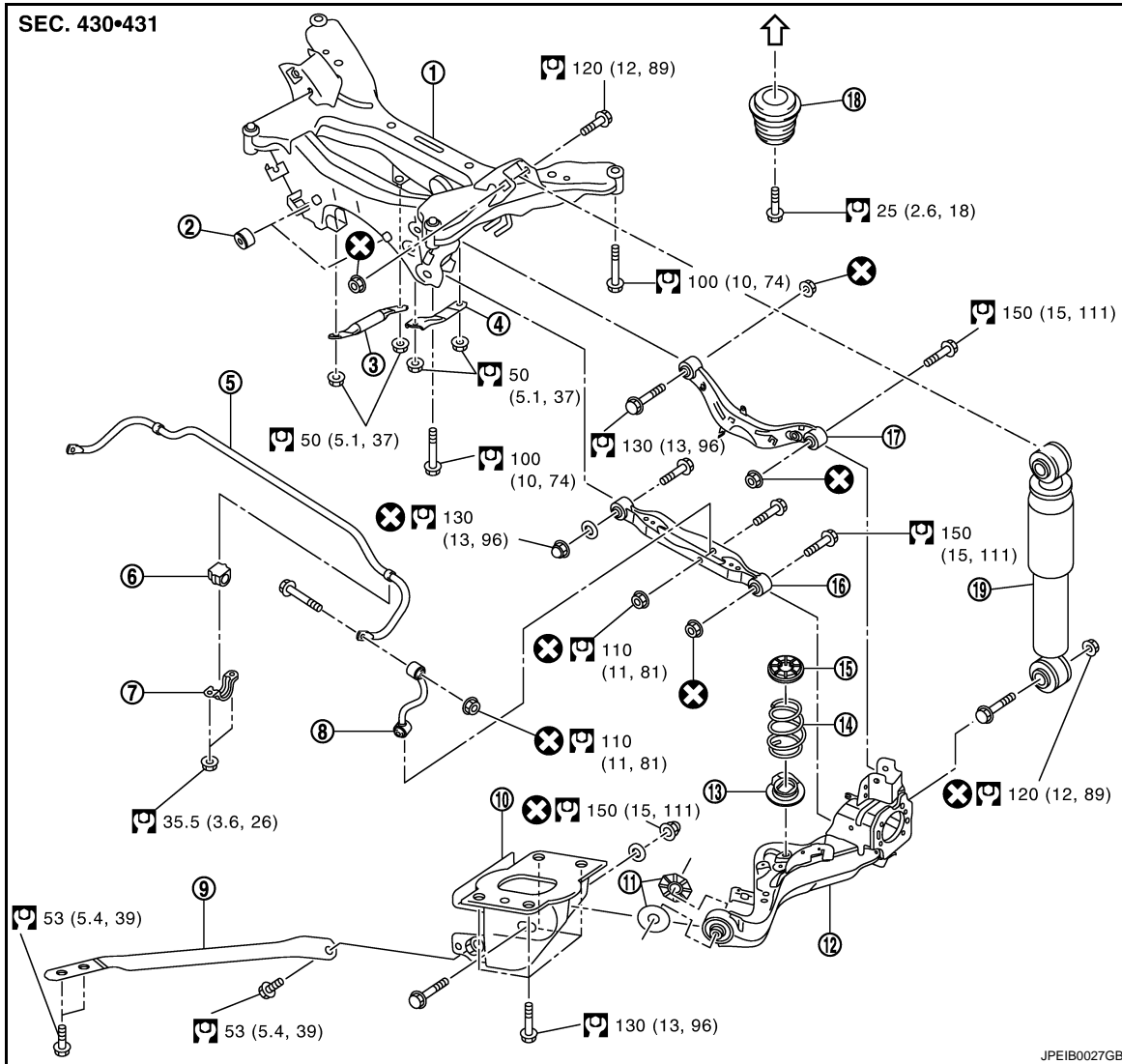
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

REAR SUSPENSION ASSEMBLY

Exploded View

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- | | | |
|---------------------------------------|--------------------------------------|--|
| 1. Rear suspension member | 2. Suspension member protector (2WD) | 3. Suspension member stay (right side) |
| 4. Suspension member stay (left side) | 5. Stabilizer bar | 6. Stabilizer bushing |
| 7. Stabilizer clamp | 8. Stabilizer link | 9. Suspension bar |
| 10. Suspension arm bracket | 11. Arm stopper | 12. Suspension arm |
| 13. Low rubber seat | 14. Coil spring | 15. Upper rubber seat |
| 16. Lower link | 17. Upper link | 18. Bound bumper |
| 19. Shock absorber | | |

↖ : Vehicle body

Refer to [DLN-140. "Exploded View"](#) for symbols in the figure.

Removal and Installation

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REMOVAL

Refer to procedure from 1 to 17 in [RSU-19. "Removal and Installation"](#).

REAR SUSPENSION ASSEMBLY

< REMOVAL AND INSTALLATION >

INSTALLATION

Note the following, and install in the reverse order of the removal.

- Perform the final tightening of each parts removed when removing rear suspension assembly under unladen conditions.
- Check wheel sensor harness for proper connection. Refer to [BRC-68, "REAR WHEEL SENSOR : Exploded View"](#) (without ESP), [BRC-199, "REAR WHEEL SENSOR : Exploded View"](#) (with ESP).

Inspection

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INSPECTION AFTER REMOVAL

Check rear suspension member for deformation, cracks, or any other damage. Replace it if necessary.

INSPECTION AFTER INSTALLATION

1. Adjust parking brake operation. Refer to [PB-2, "Inspection and Adjustment"](#).
2. Check wheel alignment. Refer to [RSU-5, "Wheel Alignment Inspection"](#).
3. Adjust neutral position of steering angle sensor. Refer to [BRC-78, "ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION : Special Repair Requirement"](#) (with ESP).

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Wheel Alignment

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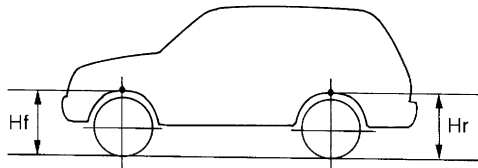
Camber Degree minute (Decimal degree)	Minimum	-1° 20' (-1.33°)	
	Nominal	-0° 50' (-0.83°)	
	Maximum	-0° 20' (-0.33°)	
Total toe-in	Distance	Minimum	0 mm (0 in)
		Nominal	In 2 mm (0.08 in)
		Maximum	In 4 mm (0.16 in)
	Angle (left wheel or right wheel) Degree minute (Decimal degree)	Minimum	0° 00' (0.00°)
		Nominal	In 0° 05' (0.08°)
		Maximum	In 0° 10' (0.16°)

Measure value under unladen* conditions.

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

Wheel Height

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SFA746B

Applied model	Tire size	Front (Hf)	Rear (Hr)
MR20DE (2WD)	215/65R16	767 mm (30.20 in)	766 mm (30.16 in)
	215/60R17	766 mm (30.16 in)	766 mm (30.16 in)
MR20DE (4WD)	215/65R16	767 mm (30.20 in)	765 mm (30.12 in)
	215/60R17	766 mm (30.16 in)	765 mm (30.12 in)
QR25DE (M/T)	215/60R17	765 mm (30.12 in)	765 mm (30.12 in)
QR25DE (CVT)	215/60R17	763 mm (30.04 in)	765 mm (30.12 in)
M9R (2WD)	215/65R16	762 mm (30.00 in)	766 mm (30.16 in)
	215/60R17	761 mm (29.96 in)	766 mm (30.16 in)
M9R (4WD)	215/65R16	762 mm (30.00 in)	765 mm (30.12 in)
	215/60R17	761 mm (29.96 in)	765 mm (30.12 in)

Measure value under unladen* conditions.

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