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RSU

REAR SUSPENSION

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# NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

### NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

#### NVH Troubleshooting Chart

INFOID:000000000935936

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

| Reference page                     |                 |                               | RSU-14                           | RSU-8                                            | —                                 | —                  | —              | RSU-14               | RSU-5                     | RSU-12                 | 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 |
|------------------------------------|-----------------|-------------------------------|----------------------------------|--------------------------------------------------|-----------------------------------|--------------------|----------------|----------------------|---------------------------|------------------------|-----------------------|--------------------|-------------------------------|-------------------|-------------------|--------------------|-------------------|
| 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 AND REAR SUSPENSION | TIRES             | ROAD WHEELS       | DRIVE SHAFT (4WD)  | BRAKES            |
| Symptom                            | REAR SUSPENSION | Noise                         | x                                | x                                                | x                                 | x                  | x              | x                    |                           |                        | x                     | x                  | x                             | x                 | x                 | x                  | x                 |
|                                    |                 | Shake                         | x                                | x                                                | x                                 | x                  |                | x                    |                           |                        | x                     |                    | x                             | x                 | x                 | x                  | x                 |
|                                    |                 | Vibration                     | x                                | x                                                | x                                 | x                  | x              |                      |                           |                        | x                     |                    | x                             | x                 |                   | x                  |                   |
|                                    |                 | Shimmy                        | x                                | x                                                | x                                 | x                  |                |                      | x                         |                        |                       |                    | x                             | x                 | x                 |                    | x                 |
|                                    |                 | Judder                        | x                                | x                                                | x                                 |                    |                |                      |                           |                        |                       |                    | x                             | x                 | x                 |                    | x                 |
|                                    |                 | Poor quality ride or handling | x                                | x                                                | x                                 | x                  | x              |                      | x                         | x                      |                       |                    | x                             | x                 | x                 |                    |                   |

x: Applicable

## PRECAUTIONS

< PRECAUTION >

### PRECAUTION

#### PRECAUTIONS

##### Precautions for Suspension

INFOID:000000000935937

##### **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 >

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### ON-VEHICLE MAINTENANCE

#### REAR SUSPENSION ASSEMBLY

##### Inspection and Adjustment

INFOID:000000000935940

##### 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:000000000935941

#### 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:

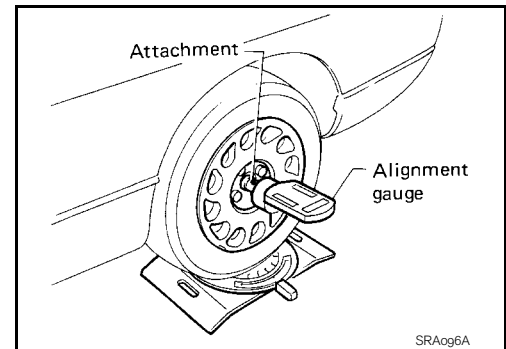
- Tires for improper air pressure and wear
- Road wheels for runout: Refer to [WT-3, "Adjustment"](#).
- Wheel bearing axial end play: Refer to [RAX-3, "Inspection"](#) (2WD), [RAX-9, "Inspection"](#) (4WD).
- Shock absorber operation
- Each mounting point of axle and suspension for looseness and deformation
- 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-16, "Wheel Alignment"](#).

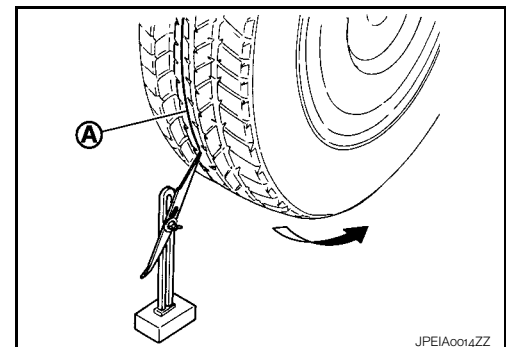


##### Toe-In

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-16, "Wheel Alignment"](#).

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

## Adjustment

INFOID:000000001102396

### CAMBER

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

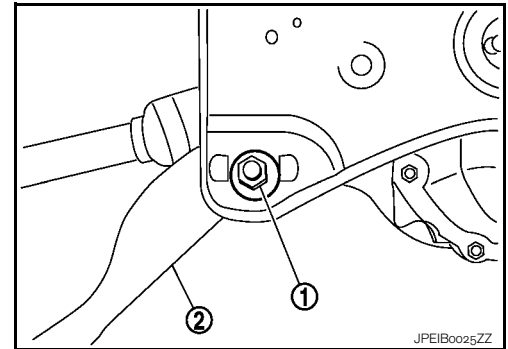
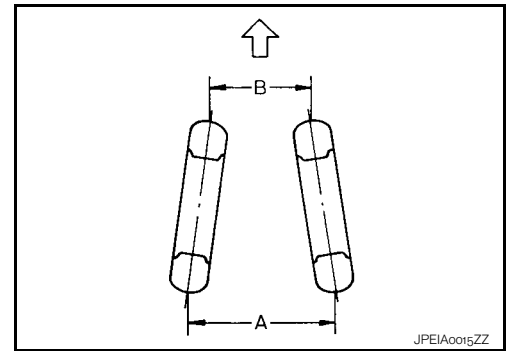
**CAUTION:**

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

**Standard**

**Camber:** Refer to [RSU-16, "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).

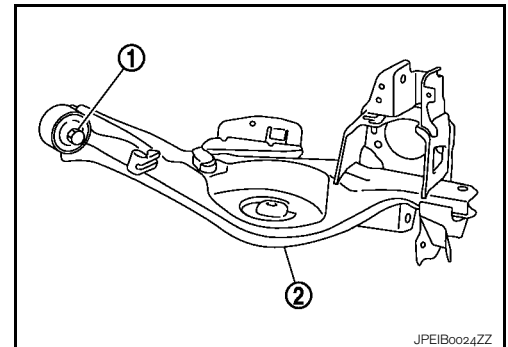
**Standard**

**Toe-In:** Refer to [RSU-16, "Wheel Alignment"](#).

**CAUTION:**

Be sure to adjust equally on RH and LH side with adjusting 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:000000000935942

Refer to [RSU-14, "Exploded View"](#).

#### Removal and Installation

INFOID:000000000935943

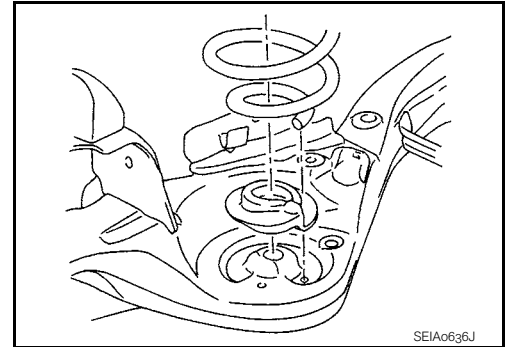
#### REMOVAL

1. Remove tires from vehicle.
  2. Remove torque member mounting bolts. Hang torque member where it does not interfere with work. Refer to [BR-42, "BRAKE CALIPER ASSEMBLY : Exploded View"](#) (LHD), [BR-86, "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-67, "REAR WHEEL SENSOR : Exploded View"](#) (with ABS), [BRC-172, "REAR WHEEL SENSOR : Exploded View"](#) (with ESP).
  4. Set suitable jack under suspension arm.
  5. Remove shock absorber from suspension arm. Refer to [RSU-8, "Exploded View"](#).
  6. Remove lower link from suspension arm. Refer to [RSU-10, "Exploded View"](#).
  7. Remove upper link from suspension arm. Refer to [RSU-11, "Exploded View"](#).
  8. Remove drive shaft. 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.
- Install coil spring by aligning lower end of the large diameter side to step between lower rubber seat and suspension arm.
- Perform the final tightening of rear suspension member and axle installation position (rubber bushing) under unladen condition with tires on level ground.



INFOID:000000000935944

#### Inspection

#### INSPECTION AFTER REMOVAL

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

#### INSPECTION AFTER INSTALLATION

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

## REAR SHOCK ABSORBER

< ON-VEHICLE REPAIR >

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### REAR SHOCK ABSORBER

#### Exploded View

INFOID:000000000935945

Refer to [RSU-14, "Exploded View"](#).

#### Removal and Installation

INFOID:000000000935946

##### REMOVAL

1. Remove tires from vehicle.
2. Set suitable jack under suspension arm to relieve the coil spring tension.
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:000000000935948

##### 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

Check wheel alignment. Refer to [RSU-5, "Wheel Alignment Inspection"](#).

# SUSPENSION ARM

< ON-VEHICLE REPAIR >

## SUSPENSION ARM

### Exploded View

INFOID:000000000935949

Refer to [RSU-14, "Exploded View"](#).

### Removal and Installation

INFOID:000000000935950

#### REMOVAL

1. Remove tires from vehicle.
2. Remove torque member mounting bolts. Hang torque member where it does not interfere with work. Refer to [BR-42, "BRAKE CALIPER ASSEMBLY : Exploded View"](#) (LHD), [BR-86, "BRAKE CALIPER ASSEMBLY : Exploded View"](#) (RHD).

#### CAUTION:

**Never depress 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-67, "REAR WHEEL SENSOR : Exploded View"](#) (with ABS), [BRC-172, "REAR WHEEL SENSOR : Exploded View"](#) (with ESP).
5. Remove parking brake cable mounting bolt. Refer to [PB-7, "Exploded View"](#).
6. Remove stabilizer link. Refer to [RSU-12, "Exploded View"](#).
7. Remove height sensor (with xenon head lamp). Refer to [EXL-180, "Exploded View"](#).
8. Set suitable jack under suspension arm to relieve the coil spring tension.
9. Remove coil spring from suspension arm. Refer to [FSU-9, "Removal and Installation"](#).
10. Remove suspension arm from vehicle.

#### INSTALLATION

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

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

### Inspection

INFOID:000000000935951

#### INSPECTION AFTER REMOVAL

##### Visual Inspection

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

#### INSPECTION AFTER INSTALLATION

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

## LOWER LINK

< ON-VEHICLE REPAIR >

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### LOWER LINK

#### Exploded View

INFOID:000000001094001

Refer to [RSU-14, "Exploded View"](#).

#### Removal and Installation

INFOID:000000001094002

#### REMOVAL

1. Remove tires from vehicle.
2. Set suitable jack under suspension arm to relieve the coil spring tension.
3. Remove height sensor (with xenon headlamp). Refer to [EXL-180, "Exploded View"](#).
4. Remove stabilizer link. Refer to [RSU-12, "Exploded View"](#).
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:000000001094003

#### INSPECTION AFTER REMOVAL

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

#### INSPECTION AFTER INSTALLATION

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

## UPPER LINK

< ON-VEHICLE REPAIR >

### UPPER LINK

#### Exploded View

INFOID:0000000000935955

Refer to [RSU-14, "Exploded View"](#).

#### Removal and Installation

INFOID:0000000000935956

##### REMOVAL

1. Remove tires from vehicle.
2. Set suitable jack under suspension arm to relieve the coil spring tension.
3. Remove wheel sensor harness from suspension arm.
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:0000000000935957

##### INSPECTION AFTER REMOVAL

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

##### INSPECTION AFTER INSTALLATION

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

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## REAR STABILIZER

< ON-VEHICLE REPAIR >

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### REAR STABILIZER

#### Exploded View

INFOID:000000000935958

Refer to [RSU-14, "Exploded View"](#).

#### Removal and Installation

INFOID:000000000935959

#### REMOVAL

1. Remove stabilizer link. Refer to [RSU-12, "Exploded View"](#).
2. Remove main muffler. Refer to [EX-5, "Exploded View"](#) (HR16DE), [EX-10, "Exploded View"](#) (MR20DE), [EX-15, "Exploded View"](#) (K9K).
3. Remove mounting nuts on stabilizer clamp and stabilizer bar from suspension member.

#### INSTALLATION

Install in the reverse order of removal.

#### Inspection

INFOID:000000000935960

#### 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:000000000935961

Refer to [RSU-14, "Exploded View"](#).

### Removal and Installation

INFOID:000000000935962

#### REMOVAL

1. Remove tires from vehicle.
2. Remove torque member mounting bolts. Hang torque member where it dose not interfere with work. Refer to [BR-42, "BRAKE CALIPER ASSEMBLY : Exploded View"](#) (LHD), [BR-86, "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-67, "REAR WHEEL SENSOR : Exploded View"](#) (with ABS), [BRC-172, "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-7, "Exploded View"](#).
6. Remove height sensor harness from lower link (with xenon head lamp). Refer to [EXL-180, "Exploded View"](#).
7. Remove main muffler. Refer to [EX-5, "Exploded View"](#) (HR16DE), [EX-10, "Exploded View"](#) (MR20DE), [EX-15, "Exploded View"](#) (K9K).
8. Remove stabilizer bar. Refer to [RSU-12, "Exploded View"](#).
9. Remove drive shaft. Refer to [RAX-13, "Exploded View"](#).
10. Remove propeller shaft (4WD). Refer to [DLN-110, "Exploded View"](#).
11. Remove rear final drive (4WD). Refer to [DLN-128, "Exploded View"](#).
12. Remove shock absorber. Refer to [RSU-8, "Exploded View"](#).
13. Remove coil spring. Refer to [RSU-7, "Exploded View"](#).
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, and upper link from rear suspension member.

#### 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-67, "REAR WHEEL SENSOR : Exploded View"](#) (with ABS), [BRC-172, "REAR WHEEL SENSOR : Exploded View"](#) (with ESP).

### Inspection

INFOID:000000000935963

#### INSPECTION AFTER REMOVAL

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

#### INSPECTION AFTER INSTALLATION

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

# REAR SUSPENSION ASSEMBLY

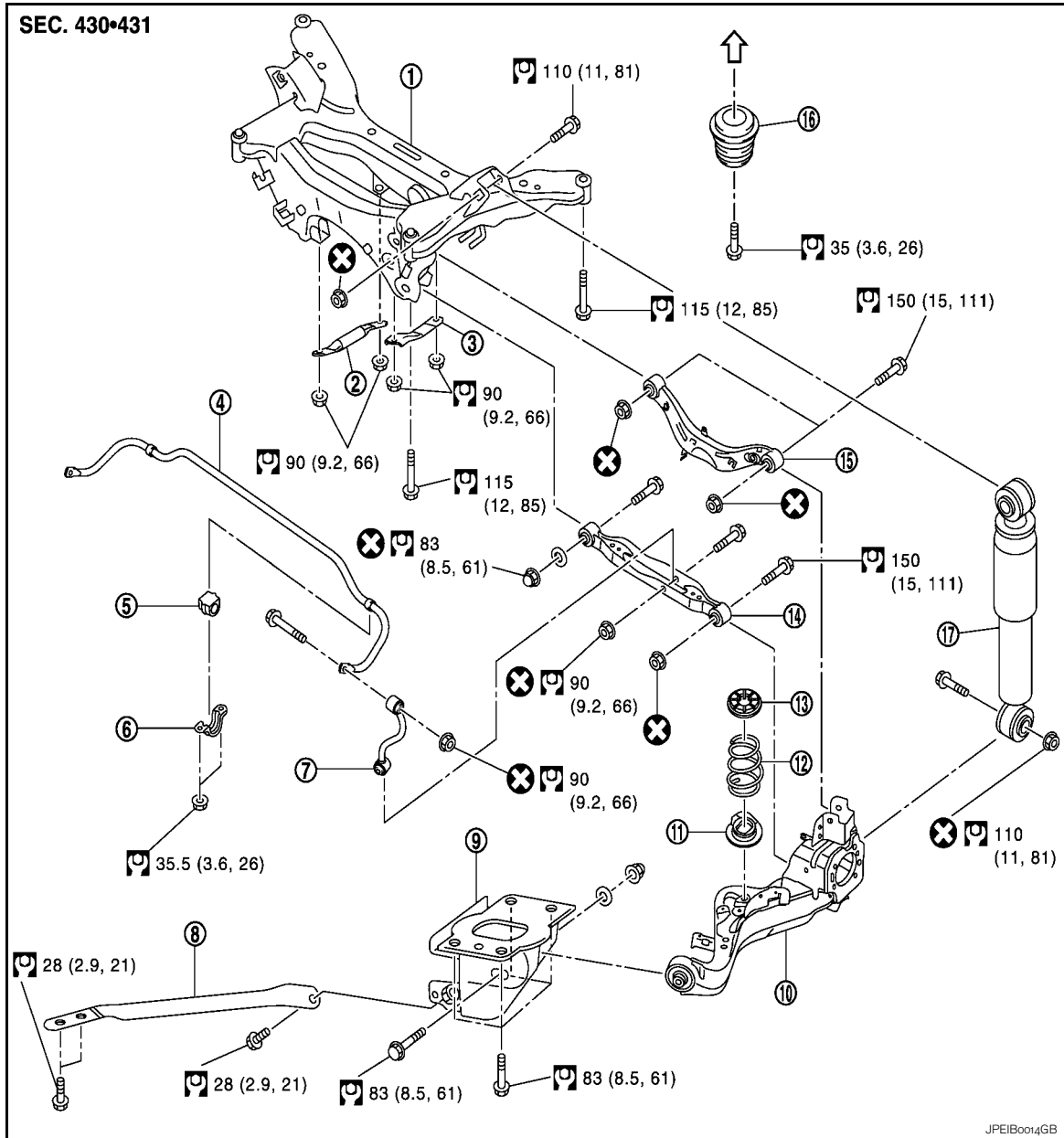
< REMOVAL AND INSTALLATION >

## REMOVAL AND INSTALLATION

### REAR SUSPENSION ASSEMBLY

Exploded View

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

↩ : Vehicle body

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

Removal and Installation

INFOID:0000000001098343

# REAR SUSPENSION ASSEMBLY

## < REMOVAL AND INSTALLATION >

### REMOVAL

Refer to procedure from 1 to 17 in [RSU-13. "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-67. "REAR WHEEL SENSOR : Exploded View"](#) (with ABS), [BRC-172. "REAR WHEEL SENSOR : Exploded View"](#) (with ESP).

### Inspection

INFOID:000000001098344

### INSPECTION AFTER REMOVAL

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

### INSPECTION AFTER INSTALLATION

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

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## SERVICE DATA AND SPECIFICATIONS (SDS)

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## SERVICE DATA AND SPECIFICATIONS (SDS)

### SERVICE DATA AND SPECIFICATIONS (SDS)

#### Wheel Alignment

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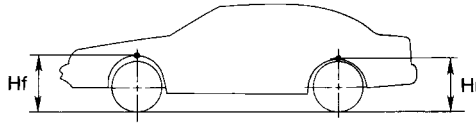
|                                          |                                                                     |         |                  |
|------------------------------------------|---------------------------------------------------------------------|---------|------------------|
| Camber<br>Degree 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 | 2 mm (0.08 in)   |
|                                          |                                                                     | Maximum | 4 mm (0.16 in)   |
|                                          | Angle (left wheel or right wheel)<br>Degree minute (Decimal degree) | Minimum | 0° 00' (0.00°)   |
|                                          |                                                                     | Nominal | 0° 05' (0.08°)   |
|                                          |                                                                     | Maximum | 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

INFOID:000000000935969



SFA818A

|           |                   |                   |
|-----------|-------------------|-------------------|
| Tire      | 215/65R16         | 215/60R17         |
| Rear (Hr) | 776 mm (30.55 in) | 778 mm (30.63 in) |

Measure value under unladen\* conditions.

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