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SECTION **RSU**

REAR SUSPENSION

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## PRECAUTIONS

< SERVICE INFORMATION >

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## SERVICE INFORMATION

### PRECAUTIONS

#### Cautions

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- When installing rubber bushings, final tightening must be carried out under unladen conditions with tires on ground. Oil will shorten the life of rubber bushings. Be sure to wipe off any spilled oil.
- Unladen conditions mean that fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.
- After servicing suspension parts, be sure to check wheel alignment.
- Caulking nuts are not reusable. Always use new ones when installing. Since new caulking nuts are pre-oiled, tighten as they are.

# PREPARATION

< SERVICE INFORMATION >

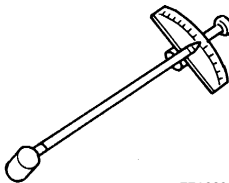
## PREPARATION

### Special Service Tool

INFOID:0000000001646465

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

| Tool number<br>(Kent-Moore No.)<br>Tool name | Description                             |
|----------------------------------------------|-----------------------------------------|
| ST3127S000<br>(J-25765-A)<br>Preload gauge   | Measuring rotating torque of ball joint |

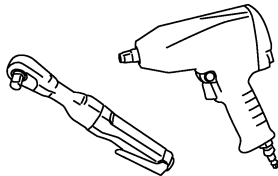


ZZA0806D

### Commercial Service Tool

INFOID:0000000001646466

| Tool name  | Description              |
|------------|--------------------------|
| Power tool | Loosening bolts and nuts |



PBIC0190E

# NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SERVICE INFORMATION >

## NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

### NVH Troubleshooting Chart

INFOID:000000001646467

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

| Reference page                     |                 |                               | RSU-7                            | RSU-9                                            | —                                 | —                  | —              | RSU-7                | RSU-5                     | 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. |
|------------------------------------|-----------------|-------------------------------|----------------------------------|--------------------------------------------------|-----------------------------------|--------------------|----------------|----------------------|---------------------------|------------------------|--------------------|---------------------|-------------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|
| Possible cause and SUSPECTED PARTS |                 |                               | Improper installation, looseness | Shock absorber deformation, damage or deflection | Bushing or mounting deterioration | Parts interference | Spring fatigue | Suspension looseness | Incorrect wheel alignment | Stabilizer bar fatigue | PROPELLER SHAFT    | DIFFERENTIAL        | REAR AXLE AND REAR SUSPENSION | TIRES              | ROAD WHEEL         | DRIVE SHAFT         | BRAKES             | STEERING           |
| Symptom                            | REAR SUSPENSION | Noise                         | x                                | 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                  | 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

< SERVICE INFORMATION >

## REAR SUSPENSION ASSEMBLY

### On-Vehicle Inspection

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

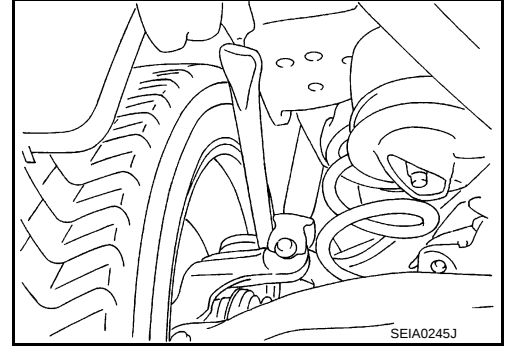
#### INSPECTION OF SUSPENSION ARM BALL JOINT END PLAY

- Measure axial end play by installing and moving up/down with an iron pry bar or something similar between suspension arm and axle.

**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

INFOID:000000001646469

#### DESCRIPTION

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

#### PRELIMINARY INSPECTION

- Check tires for improper air pressure and wear.
- Check road wheels for runout.
- Check wheel bearing axial end play.
- Check ball joint axial end play of suspension arm.
- 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.

#### 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.**

## REAR SUSPENSION ASSEMBLY

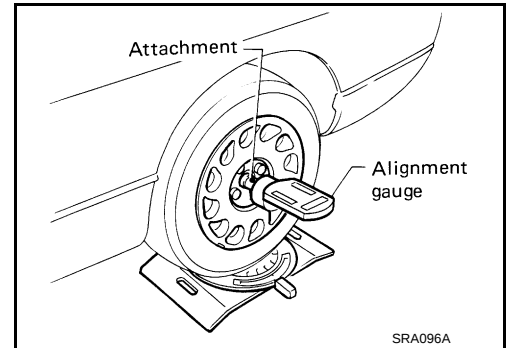
### < SERVICE INFORMATION >

- 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.

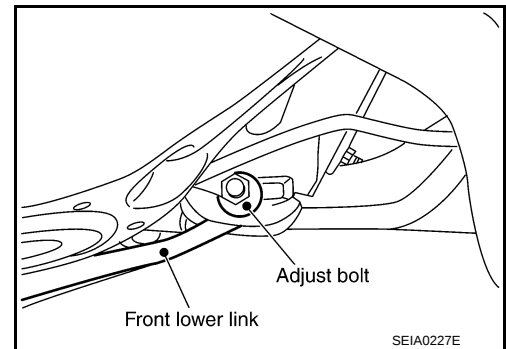
**Camber** : Refer to [RSU-18](#).



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

#### **NOTE:**

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



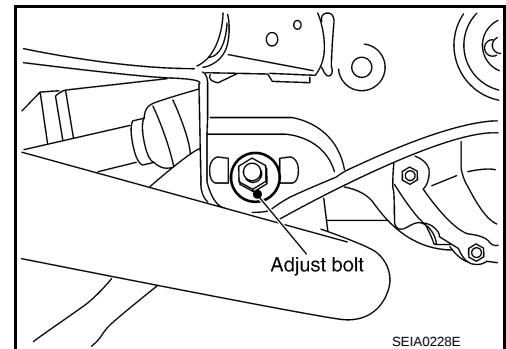
### TOE-IN

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.

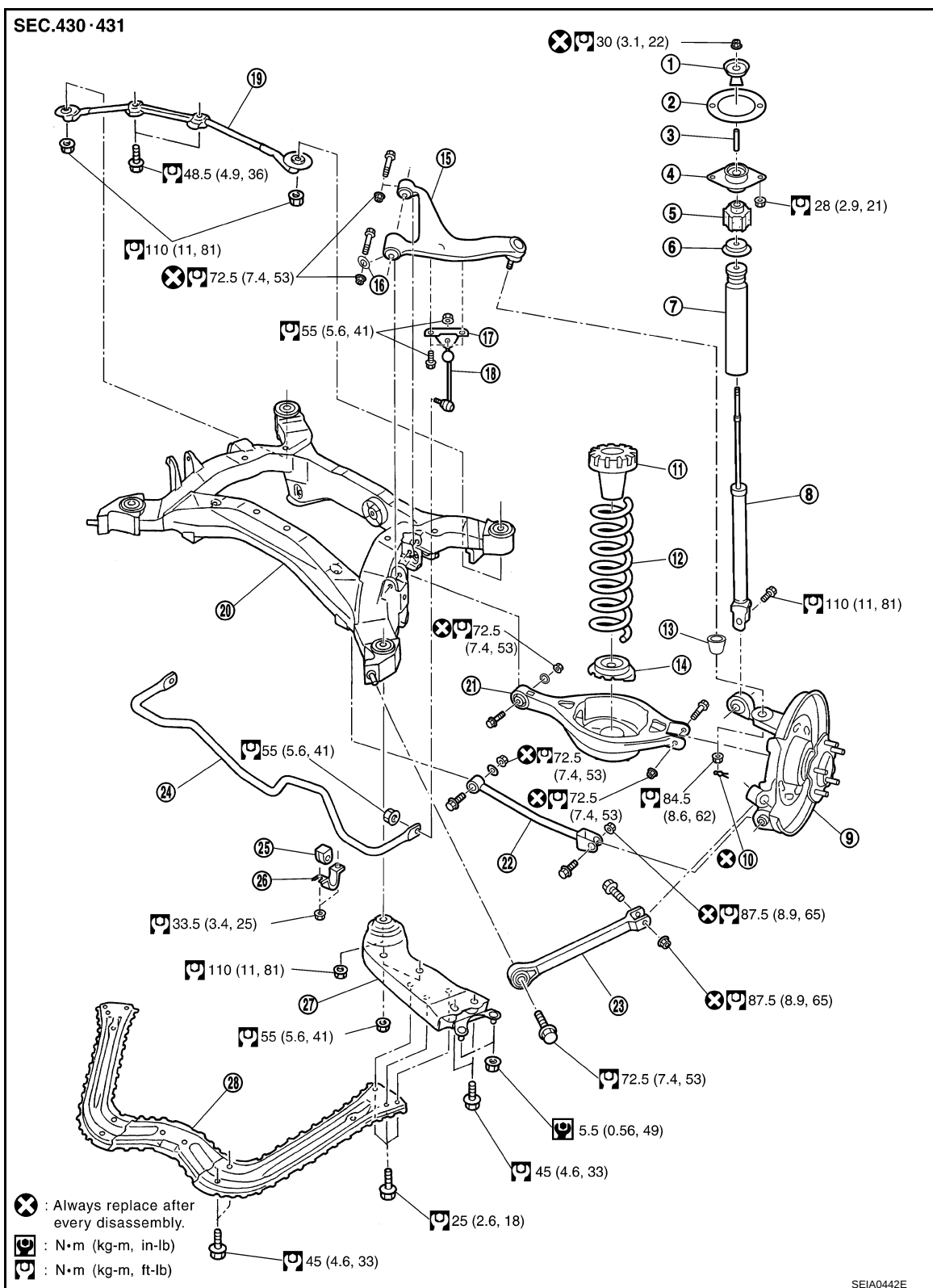


# REAR SUSPENSION ASSEMBLY

< SERVICE INFORMATION >

## Component

INFOID:000000001646470



- |                          |                   |                       |
|--------------------------|-------------------|-----------------------|
| 1. Bushing               | 2. Mounting seal  | 3. Distance tube      |
| 4. Mounting seal bracket | 5. Bushing        | 6. Bound bumper cover |
| 7. Bound bumper          | 8. Shock absorber | 9. Axle               |
| 10. Cotter pin           | 11. Upper seat    | 12. Coil spring       |

# REAR SUSPENSION ASSEMBLY

## < SERVICE INFORMATION >

|                        |                                                |                               |
|------------------------|------------------------------------------------|-------------------------------|
| 13. Ball seat          | 14. Rubber seat                                | 15. Suspension arm            |
| 16. Stopper rubber     | 17. Stabilizer connecting rod mounting bracket | 18. Stabilizer connecting rod |
| 19. Rear pin stay      | 20. Rear suspension member                     | 21. Rear lower link           |
| 22. Front lower link   | 23. Radius rod                                 | 24. Stabilizer bar            |
| 25. Stabilizer bushing | 26. Stabilizer clamp                           | 27. Member stay               |
| 28. Tunnel stay        |                                                |                               |

## Removal and Installation

INFOID:000000001646471

### 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-41](#).  
**NOTE:**  
Avoid depressing brake pedal while brake caliper is removed.
3. Remove stabilizer bar. Refer to [RSU-16](#).
4. Remove rear exhaust tube. Refer to [EX-3](#).
5. Remove rear propeller shaft. Refer to [PR-5](#).
6. Separate attachment bolts between parking brake cable and vehicle and rear suspension member. Refer to [PB-4](#).
7. Remove wheel sensor from rear final drive.
8. Remove rear lower link and coil spring. Refer to [RSU-15](#).
9. Remove fixing bolt in upper side of mounting seal bracket. Refer to [RSU-9](#).
10. Set jack under rear final drive.
11. Remove tunnel stay and member stay from vehicle.
12. Remove fixing bolts and nuts of rear pin stay and then remove rear pin stay from vehicle.
13. Gradually lowering jack, remove rear suspension assembly.

### INSTALLATION

- Refer to [RSU-7, "Component"](#) for tightening torque. Install in the reverse order of removal.  
**NOTE:**  
Refer to component parts location and do not reuse non-reusable parts.
- Perform final tightening of installation position of links (rubber bushing) under unladen condition with tires on level ground. Check wheel alignment. Refer to [RSU-5, "Wheel Alignment Inspection"](#).

# SHOCK ABSORBER

< SERVICE INFORMATION >

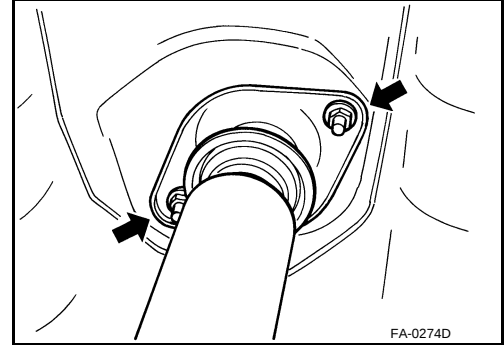
## SHOCK ABSORBER

### Removal and Installation

INFOID:000000001646472

#### REMOVAL

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



#### INSPECTION AFTER REMOVAL

- Check shock absorber assembly for deformation, cracks, 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.

#### INSTALLATION

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

##### NOTE:

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

- Perform final tightening of shock absorber assembly lower side (rubber bushing) under unladen condition with tires on level ground. Check wheel alignment. Refer to [RSU-5, "Wheel Alignment Inspection"](#).

### Disassembly and Assembly

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#### DISASSEMBLY

##### CAUTION:

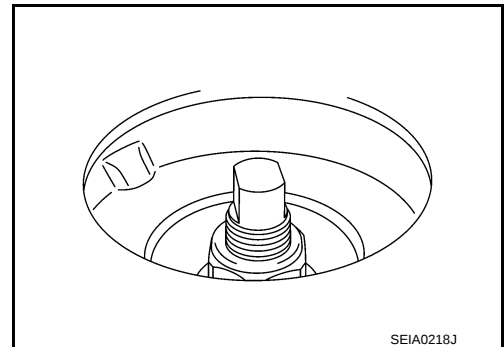
**Make sure piston rod on shock absorber is not damaged when removing components from shock absorber.**

1. Remove mounting seal from mounting seal bracket.
2. 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.**

3. Secure piston rod tip so that piston rod does not turn, and remove piston rod lock nut.
4. Remove bushing (upper side), distance tube, mounting seal bracket, bushing (lower side), bound bumper cover and bound bumper from shock absorber.



#### INSPECTION AFTER DISASSEMBLY

##### Bound Bumper and Bushing

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

#### ASSEMBLY

## SHOCK ABSORBER

### < SERVICE INFORMATION >

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

**NOTE:**

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

**CAUTION:**

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

# SUSPENSION ARM

< SERVICE INFORMATION >

## SUSPENSION ARM

### Removal and Installation

INFOID:000000001646474

#### REMOVAL

1. Remove tire with power tool.
2. Remove drive shaft. Refer to [RAX-10](#).
3. Remove fixing nuts and bolts between suspension arm and rear suspension member.
4. Remove cotter pin of suspension arm ball joint, and loosen nut.
5. Use a ball joint remover (suitable tool) to remove suspension arm from axle. Be careful not to damage ball joint boot.

#### CAUTION:

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

6. Remove suspension arm and stopper rubber from vehicle.

#### INSPECTION AFTER REMOVAL

##### Visual Inspection

- Check suspension arm and bushing for deformation, cracks or damage. If any non-standard condition is found, replace it.
- Check boot of ball joint for cracks or 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.

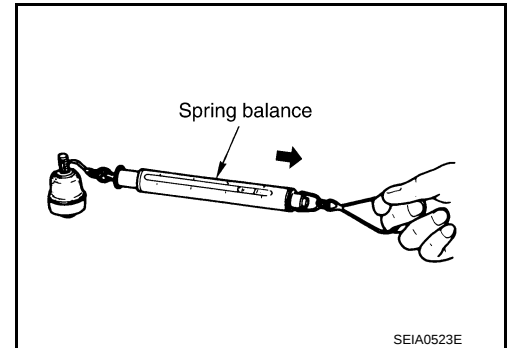
#### Swing torque:

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

#### Measured value of spring balance:

**8.06 - 54.8 N (0.83 - 5.5 kg, 1.81 - 12.32 lb)**

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



##### Rotating Torque Inspection

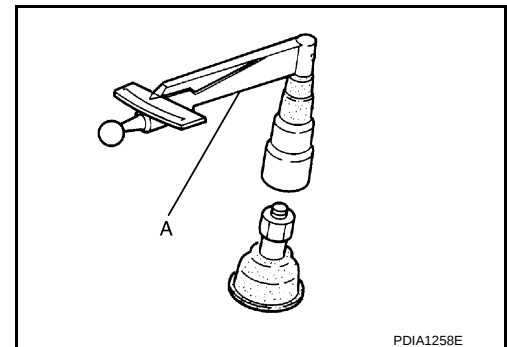
- Attach mounting nut to ball stud. Make sure that sliding torque is within the specifications with a preload gauge.

#### Tool number A: ST3127S000 (J-25765-A)

#### 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.



##### 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.

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## SUSPENSION ARM

### < SERVICE INFORMATION >

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#### INSTALLATION

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

**NOTE:**

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

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

# RADIUS ROD

< SERVICE INFORMATION >

## RADIUS ROD

### Removal and Installation

INFOID:000000001646475

#### 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-41](#).  
**NOTE:**  
Avoid depressing brake pedal while brake caliper is removed.
3. Remove fixing bolt and nut in axle side of radius rod with power tool.
4. Remove rear lower link and coil spring. Refer to [RSU-15](#).
5. Remove fixing bolt in lower side of shock absorber with power tool.
6. Remove fixing bolt and nut in axle side of front lower link with power tool.
7. 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, cracks, or damage. Replace if necessary.

#### INSTALLATION

- Refer to [RSU-7, "Component"](#) for tightening torque. Install in the reverse order of removal.  
**NOTE:**  
Refer to component parts location and do not reuse non-reusable parts.
- Perform final tightening of rear suspension member and axle installation position (rubber bushing) under unladen condition with tires on level ground. Check wheel alignment. Refer to [RSU-5, "Wheel Alignment Inspection"](#).

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## FRONT LOWER LINK

< SERVICE INFORMATION >

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### FRONT LOWER LINK

#### Removal and Installation

INFOID:000000001646476

#### REMOVAL

1. Remove tire with power tool.
2. Set jack under rear lower link.
3. Remove fixing nut and bolt between front lower link and rear suspension member with power tool.
4. Remove fixing nut and bolt between front lower link and axle with power tool.
5. Remove front lower link from vehicle.

#### INSPECTION AFTER REMOVAL

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

#### INSTALLATION

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

**NOTE:**

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

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

# REAR LOWER LINK & COIL SPRING

< SERVICE INFORMATION >

## REAR LOWER LINK & COIL SPRING

### Removal and Installation

INFOID:000000001646477

#### REMOVAL

1. Remove tire with power tool.
2. Set jack under rear lower link.
3. Loosen fixing bolt and nut of rear lower link in side of suspension member, and then remove fixing bolt and nut in side of axle with power tool.
4. Slowly lower jack, then remove upper seat, coil spring and rubber sheet from rear lower link.
5. Remove fixing bolt and nut in side of rear suspension member to remove 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, "Component"](#) for tightening torque. Install in the reverse order of removal.

##### NOTE:

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

- Check that upper seat is attached as shown in the figure.

##### NOTE:

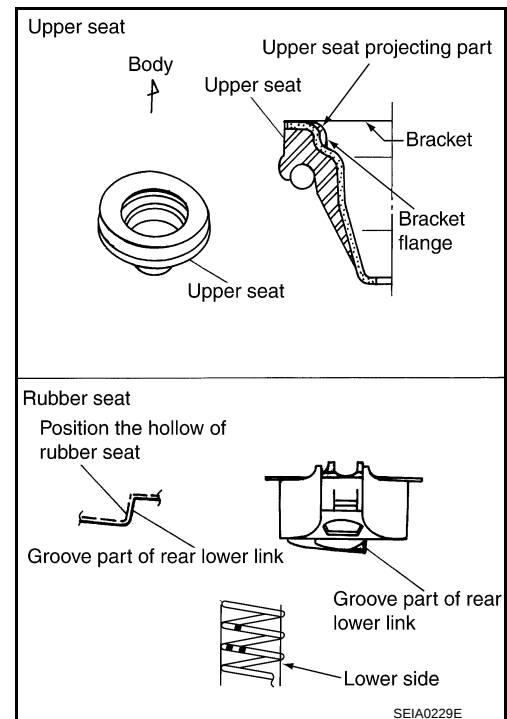
Insert bracket tabs (3) and the inside protrusion on upper seat into each other beforehand as shown in the figure.

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

##### NOTE:

Make sure spring is not up side 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 condition with tires on level ground. Check wheel alignment. Refer to [RSU-5, "Wheel Alignment Inspection"](#).



# STABILIZER BAR

< SERVICE INFORMATION >

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## STABILIZER BAR

### Removal and Installation

INFOID:000000001646478

#### REMOVAL

1. Remove fixing bolts and remove stabilizer connecting rod mount bracket from suspension arm.
2. Remove lower side fixing nut on stabilizer connecting rod and remove stabilizer connecting rod from stabilizer bar with power tool.
3. Remove fixing nut on stabilizer clamp and remove stabilizer from vehicle with power tool.

#### INSPECTION AFTER REMOVAL

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

#### INSTALLATION

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

**NOTE:**

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

# REAR SUSPENSION MEMBER

< SERVICE INFORMATION >

## REAR SUSPENSION MEMBER

### Removal and Installation

INFOID:000000001646479

#### 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-41](#).  
**NOTE:**  
Avoid depressing brake pedal while brake caliper is removed.
3. Remove rear exhaust tube. Refer to [EX-3](#).
4. Remove stabilizer bar. Refer to [RSU-16](#).
5. Remove drive shaft. Refer to [RAX-10](#).
6. Remove final drive. Refer to [RFD-17](#).
7. Separate the attachment between parking brake cable and vehicle and rear suspension member. Refer to [PB-4](#).
8. Remove rear lower link and coil spring. Refer to [RSU-15](#).
9. Remove fixing bolt in lower side of shock absorber.
10. Set jack under rear suspension member.
11. Remove fixing bolts and nuts tunnel stay and member stay from vehicle.
12. Remove fixing bolts and nuts of rear pin stay and then remove rear pin stay from vehicle.
13. Slowly lowering jack, then remove rear suspension member, suspension arm, radius rod, front lower link and axle from vehicle as a unit.
14. Remove fixing bolts and nuts, then remove suspension arm, front lower link, radius rod from rear suspension member.

#### INSPECTION AFTER REMOVAL

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

#### INSTALLATION

- Refer to [RSU-7, "Component"](#), for tightening torque. Install in the reverse order of removal.  
**NOTE:**  
Refer to component parts location and do not reuse non-reusable parts.
- Perform final tightening of installation position of links (rubber bushing) under unladen condition with tires on level ground. Check wheel alignment. Refer to [RSU-5, "Wheel Alignment Inspection"](#).

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## SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE INFORMATION >

### SERVICE DATA AND SPECIFICATIONS (SDS)

#### Wheel Alignment (Unladen\*)

INFOID:0000000001646480

|                                          |                                                                     |         |                    |
|------------------------------------------|---------------------------------------------------------------------|---------|--------------------|
| Camber<br>Degree minute (Decimal degree) |                                                                     | Minimum | -2° 05' (-2.08°)   |
|                                          |                                                                     | Nominal | -1° 35' (-1.58°)   |
|                                          |                                                                     | Maximum | -1° 05' (-1.08°)   |
| Total toe-in                             | Distance                                                            | Minimum | 1.1 mm (0.043 in)  |
|                                          |                                                                     | Nominal | 1.9 mm (0.075 in)  |
|                                          |                                                                     | Maximum | 2.7 mm (0.106 in)  |
|                                          | Angle (left wheel or right wheel)<br>Degree minute (Decimal degree) | Minimum | 0° 02' 54" (0.05°) |
|                                          |                                                                     | Nominal | 0° 04' 54" (0.08°) |
|                                          |                                                                     | Maximum | 0° 06' 54" (0.12°) |

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

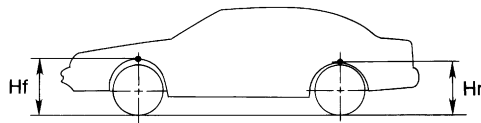
#### Ball Joint

INFOID:0000000001646481

|                                                         |                                                |
|---------------------------------------------------------|------------------------------------------------|
| 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) | 8.06 - 54.8 N (0.83 - 5.5 kg, 1.81 - 12.32 lb) |
| Rotating torque                                         | 0.5 - 3.4 N·m (0.06 - 0.34 kg-m, 5 - 30 in-lb) |

#### Wheelarch Height (Unladen\*)

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SFA818A

| Applied model | 225/45R18 (Front)<br>245/45R18 (Rear) |                   | 245/40R18 (Front)<br>265/35R19 (Rear) |
|---------------|---------------------------------------|-------------------|---------------------------------------|
|               | Coupe                                 | Roadster          | Coupe                                 |
| Front (Hf)    | 683 mm (26.89 in)                     |                   | 683 mm (26.89 in)                     |
| Rear (Hr)     | 706 mm (27.80 in)                     | 705 mm (27.76 in) | 703 mm (27.68 in)                     |

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