SECTION RSU
REAR SUSPENSION

CONTENTS

PRECAUTION 2

PRECAUTIONS 2
Precautions for Removing Battery Terminal 2
Precautions for Suspension 2

PREPARATION 3

PREPARATION 3
Special Service Tools 3
Commercial Service Tools 4

SYMPTOM DIAGNOSIS 5

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING 5
NVH Troubleshooting Chart 5

PERIODIC MAINTENANCE 6

REAR SUSPENSION ASSEMBLY 6
Inspection 6

WHEEL ALIGNMENT 7
Inspection 7
Adjustment 7

REMOVAL AND INSTALLATION 9

REAR COIL SPRING AND SHOCK ABSORBER 9
Exploded View 9
Removal and Installation 9
Inspection 11

REAR LOWER LINK 13
Exploded View 13
Removal and Installation 13
Inspection 14

TRAILING ARM 15
Exploded View 15
Removal and Installation 15
Inspection 16

FRONT LOWER LINK 17
Exploded View 17
Removal and Installation 17
Inspection 18

REAR STABILIZER 19
Exploded View 19
Removal and Installation 19
Inspection 20

UPPER LINK 21
Exploded View 21
Removal and Installation 21
Inspection 22

REAR SUSPENSION MEMBER 23
Exploded View 23
Removal and Installation 23
Disassembly and Assembly 25
Inspection 30

SERVICE DATA AND SPECIFICATIONS (SDS) 31

SERVICE DATA AND SPECIFICATIONS (SDS) 31
Wheel Alignment 31
Wheelarch Height 32

PRECAUTION

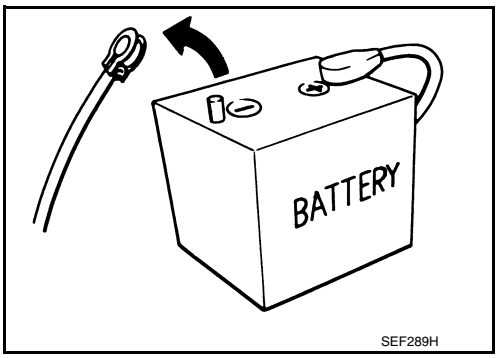
PRECAUTIONS

Precautions for Removing Battery Terminal

INFOID:0000000013550622

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:



BR08DE	: 4 minutes	YD25DDTi	: 2 minutes
D4D engine	: 20 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		
V9X engine	: 4 minutes		

NOTE:
ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:
- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
- Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
- Driving for 30 minutes or more on a steep slope.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:
If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:
The removal of 12V battery may cause a DTC detection error.

Precautions for Suspension

INFOID:0000000013550623

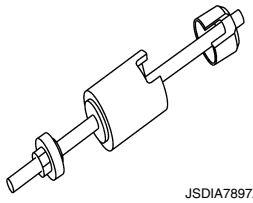
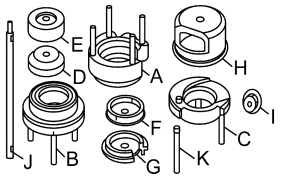
- When installing rubber bushings, the final tightening must be carried out under unladen conditions with tires on ground. Spilled oil might shorten the life of rubber bushings. Be sure to wipe off any spilled oil.
- Unladen conditions mean that fuel, engine coolant and lubricant are full. Spare tire, 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.

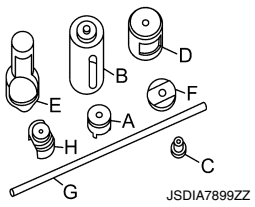
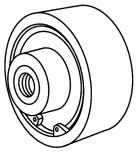
PREPARATION

PREPARATION

Special Service Tools

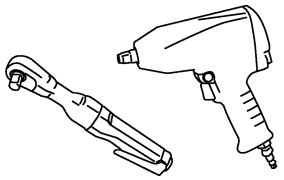
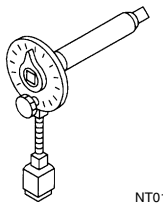
INFOID:0000000013550591

Tool number Tool name		Description
KV405H0340 (DAIMLER tool No.246 589 00 43 00) Extraction and insertion tool	 JSDIA7897ZZ	Removing and installing rear lower link bushing
KV405H0170 (DAIMLER tool No.176 589 00 43 00) Extraction and insertion tool A. — (DAIMLER tool No.176 589 00 43 01) Counter holder B. — (DAIMLER tool No.176 589 00 43 02) Counter holder C. — (DAIMLER tool No.176 589 00 43 03) Counter holder D. — (DAIMLER tool No.176 589 00 43 04) Thrust piece E. — (DAIMLER tool No.176 589 00 43 05) Thrust piece F. — (DAIMLER tool No.176 589 00 43 06) Installation ring G. — (DAIMLER tool No.176 589 00 43 07) Installation ring H. — (DAIMLER tool No.176 589 00 43 08) Counter holder I. — (DAIMLER tool No.176 589 00 43 09) Nut J. — (DAIMLER tool No.176 589 00 43 10) Spindle K. — (DAIMLER tool No.176 589 00 43 11) Support	 JSDIA7892ZZ	Removing and installing bushing

Tool number Tool name	Description
KV405H0370 (DAIMLER tool No.246 589 01 43 00) Extraction and insertion tool A. — (DAIMLER tool No.246 589 01 43 01) Thrust piece B. — (DAIMLER tool No.246 589 01 43 02) Counter holder C. — (DAIMLER tool No.246 589 01 43 03) Spindle head D. — (DAIMLER tool No.246 589 01 43 04) Counter holder E. — (DAIMLER tool No.246 589 01 43 05) Counter holder F. — (DAIMLER tool No.246 589 01 43 06) Thrust piece G. — (DAIMLER tool No.246 589 01 43 07) Spindle H. — (DAIMLER tool No.246 589 01 43 08) Thrust piece  JSDIA7899ZZ	Removing and installing rear suspension member bushing
KV40109200 (DAIMLER tool No.—) Extraction and insertion tool bearing  JSEIA1713ZZ	• Removing and installing rear lower link bushing • Removing and installing bushing • Removing and installing rear suspension member bushing

Commercial Service Tools

INFOID:0000000013550592

Tool name	Description
Power tool  PBIC0190E	Loosening bolts and nuts
Angle wrench  NT014	• Tightening for rear lower link mounting nuts • Tightening for trailing arm mounting bolts • Tightening for front lower link mounting nut • Tightening for stabilizer connecting rod mounting bolt • Tightening for upper link mounting nuts • Tightening for suspension member mounting bolts

SYMPTOM DIAGNOSIS

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

INFOID:0000000013550593

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

			Reference	RSU-9, RSU-13, RSU-15, RSU-17, RSU-19, RSU-21, RSU-23	RSU-11	—	—	RSU-11	RSU-9, RSU-13, RSU-15, RSU-17, RSU-19, RSU-21, RSU-23	RSU-7	RSU-20	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.	NVH in ST 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	TIRE	ROAD WHEEL	DRIVE SHAFT	BRAKE	STEERING
Symptom	REAR SUSPENSION	Noise		×	×	×	×	×	×	—	—	×	×	×	×	×	×	×	×
		Shake		×	×	×	×	—	×	—	—	×	—	×	×	×	×	×	×
		Vibration		×	×	×	×	×	—	—	—	×	—	×	×	—	×	—	×
		Shimmy		×	×	×	×	—	—	×	—	—	—	×	×	×	—	×	×
		Judder		×	×	×	—	—	—	—	—	—	—	×	×	×	—	×	×
		Poor quality ride or handling		×	×	×	×	×	—	×	×	—	—	×	×	×	—	—	—

×: Applicable, —: Not applicable

PERIODIC MAINTENANCE

REAR SUSPENSION ASSEMBLY

Inspection

INFOID:0000000013550594

COMPONENT PART

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

SHOCK ABSORBER

Check for oil leakage and damage. Replace it if necessary.

WHEEL ALIGNMENT

Inspection

INFOID:0000000013550595

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. Refer to WT-76, "Tire Air Pressure".
- Road wheels for runout.
- Wheel bearing axial end play.
  - 2WD: Refer to RAX-6, "Inspection".
  - AWD: Refer to RAX-15, "Inspection".
- 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).

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.

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). **Never use these indicators.**
  - The alignment specifications programmed into your 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 on 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.

Adjustment

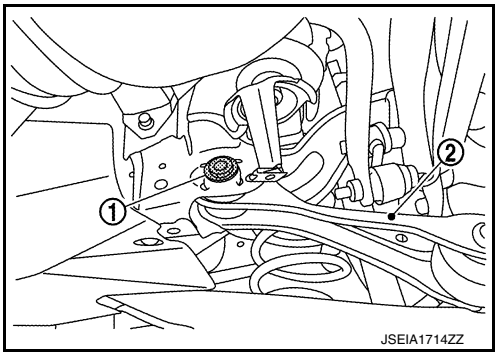
INFOID:0000000013550596

TOE-IN

1. Loosen the front lower link mounting nut, adjust with adjusting bolt ① in front lower link ②.

   Toe-In: Refer to RSU-31, "Wheel Alignment".

   NOTE:
   If toe-in is not still within the specification, the front lower link must be replaced.
2. Tighten front lower link mounting nut.
3. After toe-in adjustment, perform test drive. Refer to STC-26, "Description".

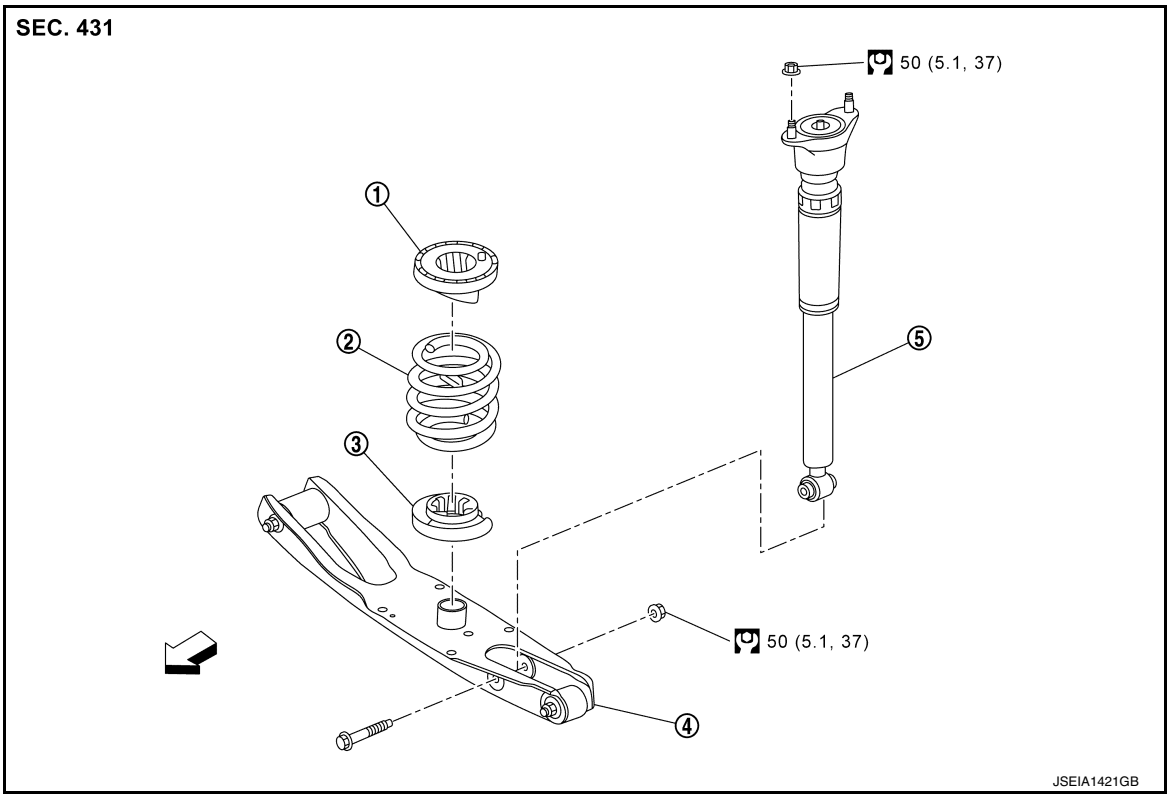


REMOVAL AND INSTALLATION

REAR COIL SPRING AND SHOCK ABSORBER

Exploded View

INFOID:0000000013550597



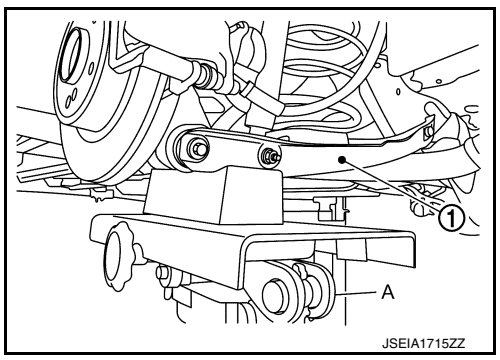
① Upper rubber seat
② Coil spring
③ Lower rubber seat
④ Rear lower link
⑤ Shock absorber
⇦: Vehicle front
: N·m (kg-m, ft-lb)

Removal and Installation

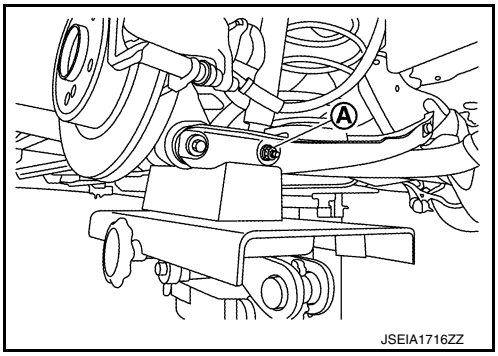
INFOID:0000000013550598

REMOVAL

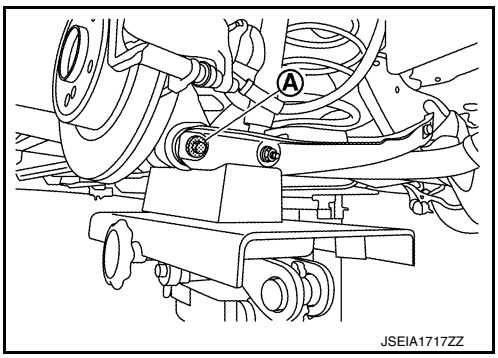
1. Remove tires with power tool (commercial service tool). Refer to WT-70, "Exploded View".
2. Remove rear wheel house protector. Refer to EXT-42, "REAR WHEEL HOUSE PROTECTOR : Removal and Installation".
3. Set suitable jack (A) under the rear lower link ① to relieve coil spring tension.
   CAUTION:
   - **Check that jack supporting status is stable.**
   - **Never damage rear lower link with a jack.**



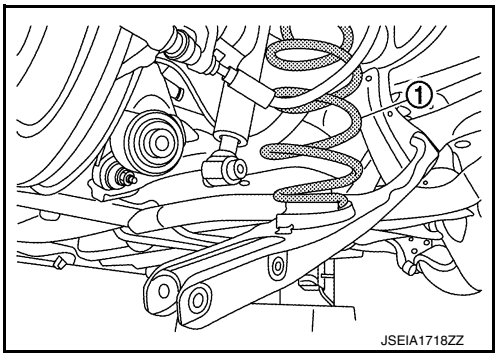
4. Remove shock absorber mounting nut Ⓐ and bolt.



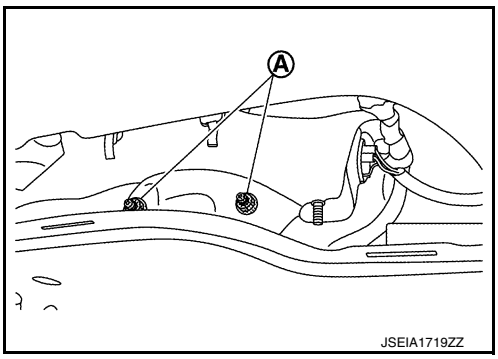
5. Remove rear lower link mounting bolt Ⓐ and nut (axle housing side). Refer to RSU-13, "Removal and Installation".
6. Slowly lower jack, then separate shock absorber from rear lower link.
   CAUTION:
   Operate while checking that jack supporting status is stable.



7. Remove coil spring ①.
8. Remove upper rubber seat and lower rubber seat if necessary.
9. Remove luggage side finisher lid. Refer to INT-36, "Exploded View".



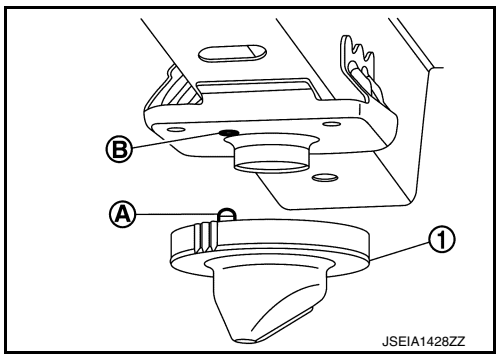
10. Remove shock absorber mounting nuts Ⓐ, and remove shock absorber.
11. Perform inspection after removal. Refer to RSU-11, "Inspection".



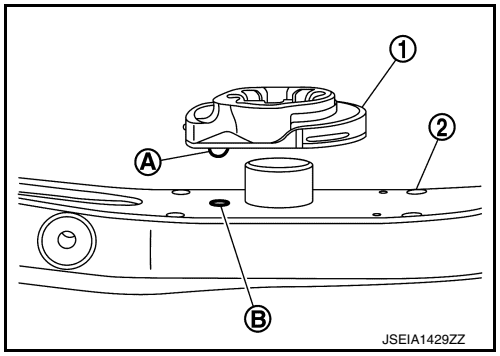
INSTALLATION

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

- The upper rubber seat ① protrusion Ⓐ must be securely inserted into the hole Ⓑ.

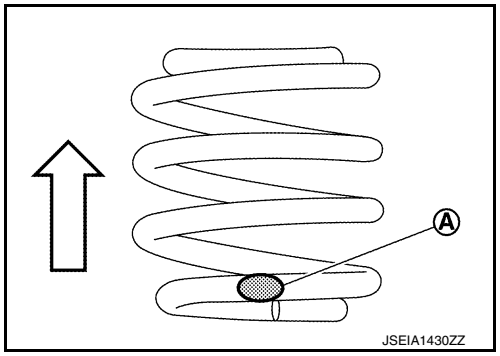


- The lower rubber seat ① protrusion Ⓐ must be securely inserted into the hole Ⓑ of rear lower link ②.



- Set coil spring so that its paint mark Ⓐ is aligned with the position of 1.0 turns from the bottom end of the coil spring.

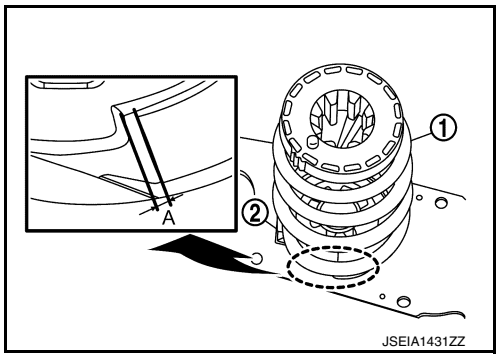
⇦ : Upper side



- Install coil spring ① by aligning lower end of coil spring with lower rubber seat ② as shown in the figure.

Dimension (A) : 5 mm (0.20 in) or less

- Perform final tightening of fixing parts at the vehicle installation position (rubber bushing), under unladen conditions with tires on level ground.
- Perform inspection after installation. Refer to RSU-11, "Inspection".
- After replacing the strut, disposal of shock absorber carried out according to legal requirements of the country.



Inspection

INFOID:0000000013550599

INSPECTION AFTER REMOVAL

Coil Spring

Check for cracks and damage. Replace it if necessary.

Rubber Seat

Check for cracks and damage. Replace it if necessary.

Shock Absorber

Check the following items, and replace the part if necessary.

- Shock absorber for deformation, cracks, and other damage.
- Oil leakage

INSPECTION AFTER ASSEMBLY

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

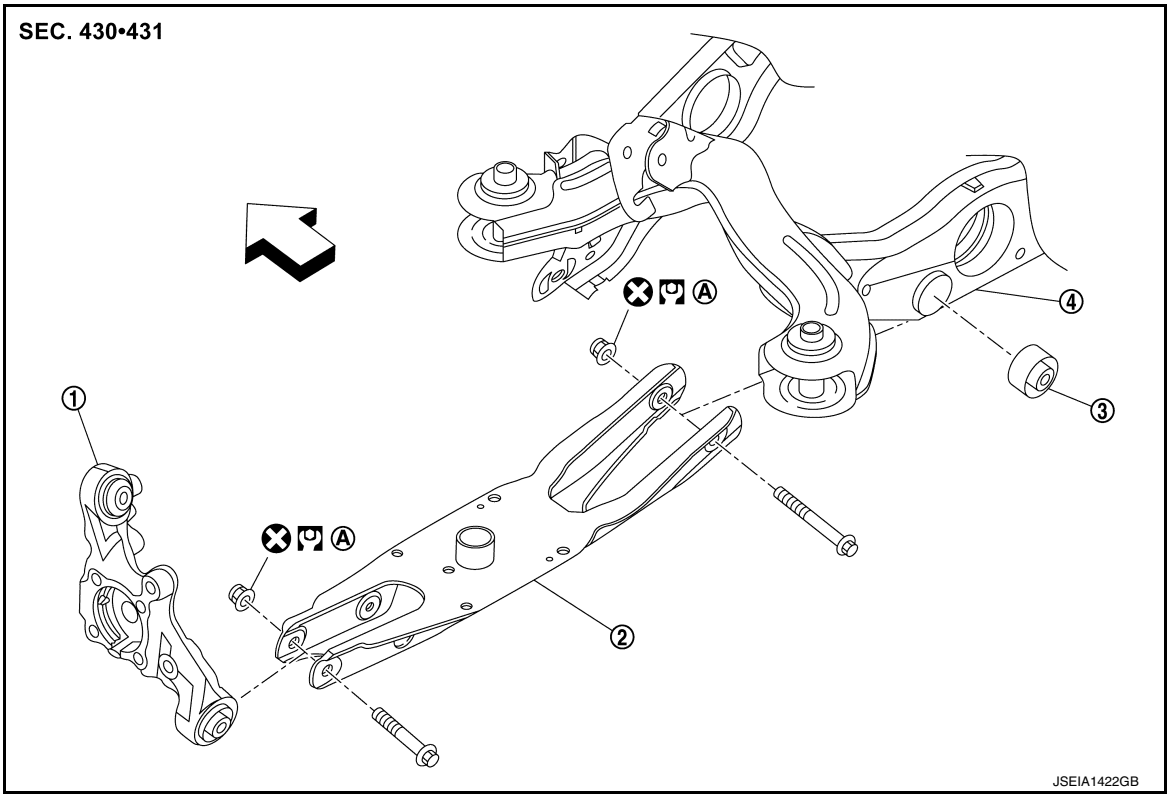
INSPECTION AFTER INSTALLATION

1. Check wheel alignment. Refer to RSU-7, "Inspection".
2. Perform test drive when adjusting wheel alignment. Refer to STC-26, "Description".
3. Check head lamp aiming adjustment and correct if necessary.
   - LED head lamp: Refer to EXL-285, "Description".
   - Halogen head lamp: Refer to EXL-509, "Description".

REAR LOWER LINK

Exploded View

INFOID:0000000013550600



① Axle housing ② Rear lower link ③ Rear lower link bushing
④ Rear suspension member

Ⓐ: Tightening must be done following the installation procedure. Refer to RSU-13, "Removal and Installation".

⇦: Vehicle front

: Always replace after every disassembly.

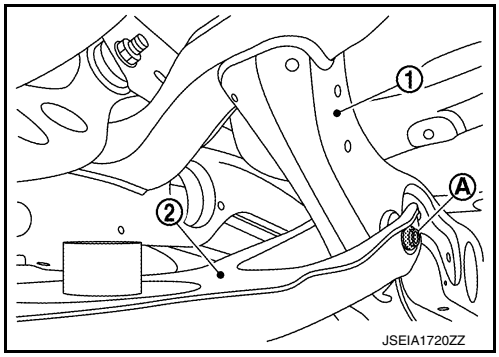
: N·m (kg-m, ft-lb)

Removal and Installation

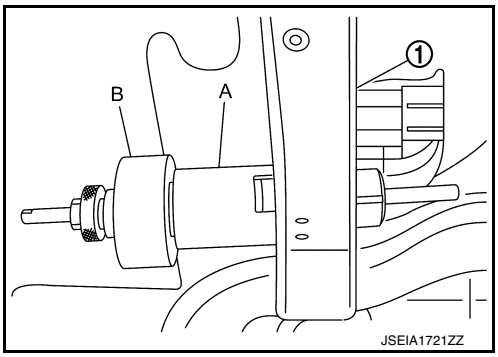
INFOID:0000000013550601

REMOVAL

1. Remove tires with power tool (commercial service tool). Refer to WT-70, "Exploded View".
2. Remove rear muffler assembly in rear area and fix in place. Refer to EX-5, "Exploded View".
3. Remove under cover from rear suspension member.
4. Remove coil spring. Refer to RSU-9, "Removal and Installation".
5. Remove rear lower link mounting bolt Ⓐ and nut from rear suspension member ①, and remove rear lower link ②.
6. Remove lower rubber seat from rear lower link if necessary. Refer to RSU-9, "Removal and Installation".



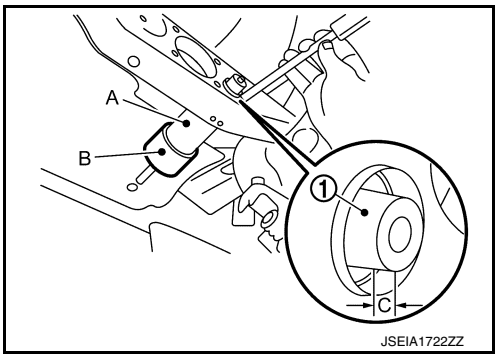
7. Remove rear lower link bushing from rear suspension member ①, using extraction and insertion tool [SST: KV405H0340 (246 589 00 43 00)] (A) and extraction and insertion tool bearing [SST: KV40109200 (—)] (B) if necessary.
   CAUTION:
   Apply with mechanical oil the spindle part of the extraction and insertion tool [SST: KV405H0340 (246 589 00 43 00)] regularly.
8. Perform inspection after removal. Refer to RSU-14, "Inspection".



INSTALLATION

CAUTION:
Never reuse rear lower link mounting nut.
Note the following, and install in the reverse order of removal.

- Install rear lower link bushing ①, using extraction and insertion tool [SST: KV405H0340 (246 589 00 43 00)] (A) and extraction and insertion tool bearing [SST: KV40109200 (—)] (B).
  CAUTION:
  - **Press rear lower link bushing evenly into rear suspension member.**
  - **Apply with mechanical oil the spindle part of the extraction and insertion tool [SST: KV405H0340 (246 589 00 43 00)] regularly.**
  - **When pressing in, the press-in dimension (C) between the rear suspension member and rear lower link bushing has to be checked.**



Dimension (C) : 4.5 mm (0.177 in)

- Install rear lower link mounting bolt and nut with the following procedure.
  CAUTION:
  Never reuse rear lower link mounting nut.

- Tighten rear lower link mounting nuts.

: 50 N·m (5.1 kg-m, 37 ft-lb)

- Turn 90 degrees clockwise (angle tightening).
  CAUTION:
  Check the tightening angle by using an angle wrench (commercial service tool) or protractor. Never judge by visual inspection without an angle wrench.

- Perform final tightening of fixing parts at the vehicle installation position (rubber bushing), under unladen conditions with tires on level ground.
- Perform inspection after installation. Refer to RSU-14, "Inspection".

Inspection

INFOID:0000000013550602

INSPECTION AFTER REMOVAL

Rear Lower Link
Check for cracks and damage. Replace it if necessary.

Rear Lower Link Bushing
Check for cracks and damage. Replace it if necessary.

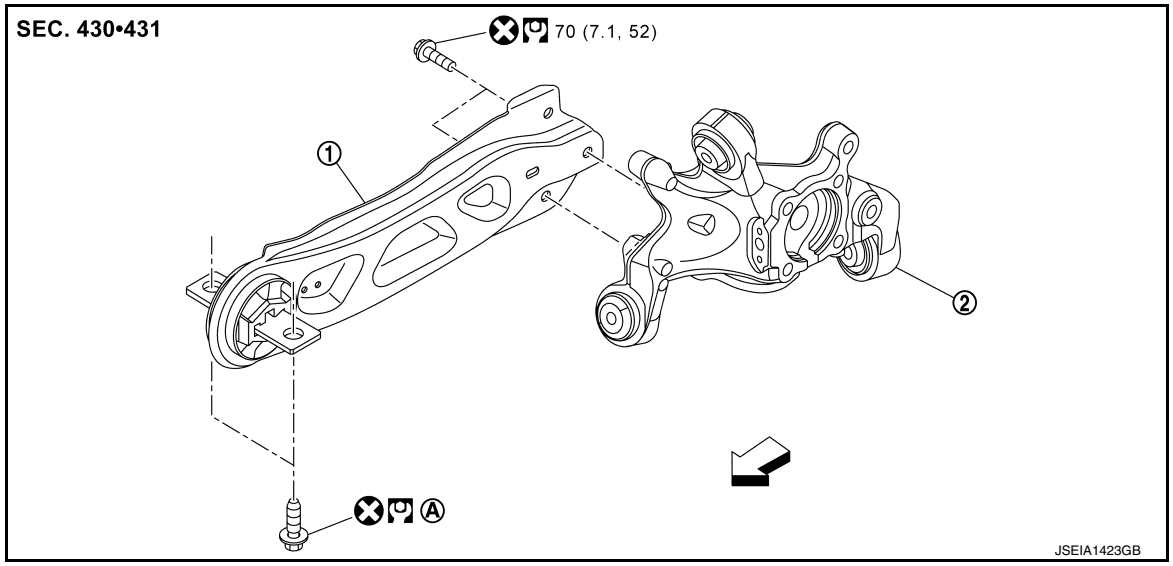
INSPECTION AFTER INSTALLATION

1. Check wheel alignment. Refer to RSU-7, "Inspection".
2. Perform test drive when adjusting wheel alignment. Refer to STC-26, "Description".

TRAILING ARM

Exploded View

INFOID:0000000013550603



① Trailing arm ② Axle housing

Ⓐ: Tightening must be done following the installation procedure. Refer to RSU-15, "Removal and Installation".

⇦: Vehicle front

: Always replace after every disassembly.

: N·m (kg-m, ft-lb)

Removal and Installation

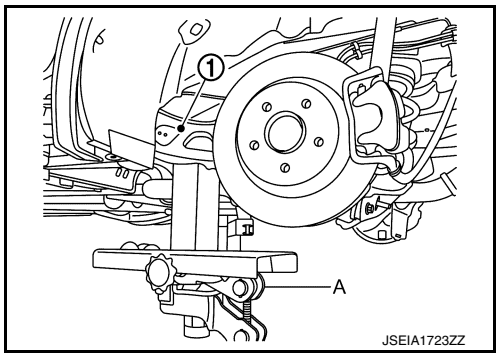
INFOID:0000000013550604

REMOVAL

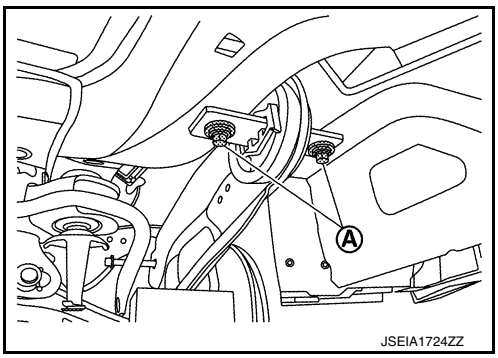
1. Remove tires with power tool (commercial service tool). Refer to WT-70, "Exploded View".
2. Remove floor under cover and rear under cover. Refer to EXT-45, "FLOOR UNDER COVER : Exploded View".
3. Remove rear height sensor. (LED headlamp) Refer to EXL-301, "REAR HEIGHT SENSOR : Removal and Installation".
4. Set suitable jack (A) under trailing arm ①.

CAUTION:

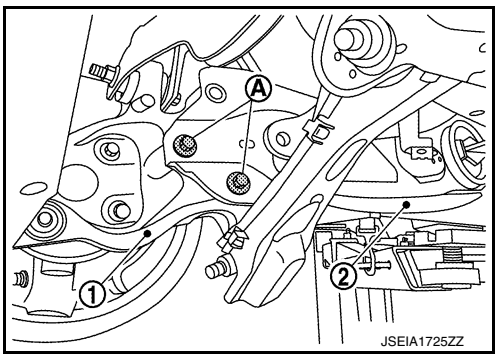
- **Check that jack supporting status is stable.**
- **Never damage trailing arm with the suitable jack.**



5. Remove trailing arm mounting bolts Ⓐ.
6. Remove stabilizer connecting rod. Refer to RSU-19, "Removal and Installation".



7. Remove trailing arm mounting bolts Ⓐ from axle housing ①, and remove trailing arm ②.
8. Perform inspection after removal. Refer to RSU-16, "Inspection".

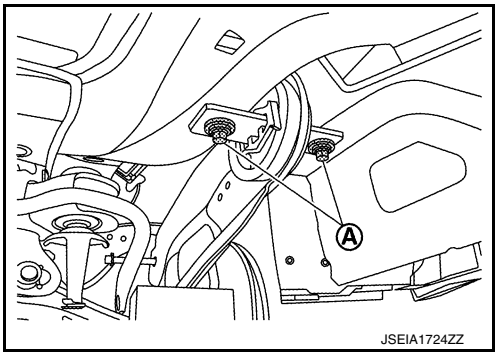


INSTALLATION

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

- Install trailing arm mounting bolts Ⓐ with the following procedure.
  CAUTION:
  Never reuse trailing arm mounting bolt.
- Tighten trailing arm mounting bolts.

  : 80 N·m (8.2 kg-m, 59 ft-lb)
- Turn 45 degrees clockwise (angle tightening).
  CAUTION:
  Check the tightening angle by using an angle wrench (commercial service tool) or protractor. Never judge by visual inspection without an angle wrench.



- Perform final tightening of fixing parts at the vehicle installation position (rubber bushing), under unladen conditions with tires on level ground.
- Perform inspection after installation. Refer to RSU-16, "Inspection".

Inspection

INFOID:0000000013550605

INSPECTION AFTER REMOVAL

Check trailing arm for any deformation, cracks, or damage. Replace it if necessary.

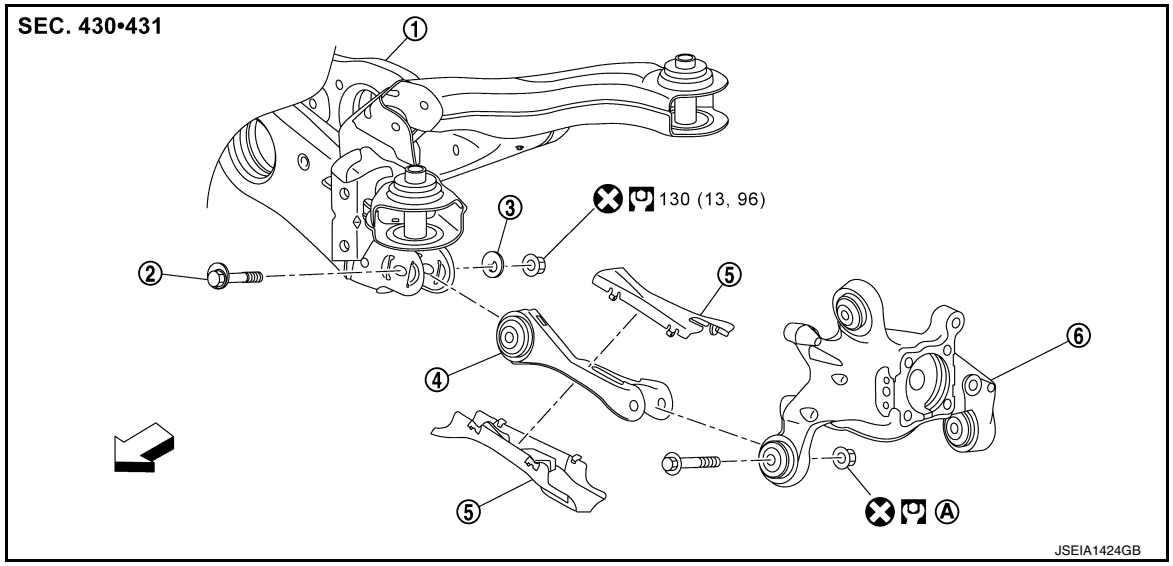
INSPECTION AFTER INSTALLATION

1. Be sure to perform "SENSOR INITIALIZE" when removing the rear height sensor. (LED headlamp) Refer to EXL-117, "Description".

FRONT LOWER LINK

Exploded View

INFOID:0000000013550606



① Rear suspension member	② Adjusting bolt	③ Eccentric disk
④ Front lower link	⑤ Protector	⑥ Axle housing

Ⓐ: Tightening must be done following the installation procedure. Refer to RSU-17, "Removal and Installation".

⇦: Vehicle front

: Always replace after every disassembly.

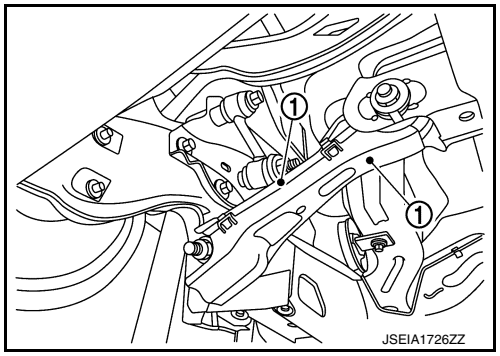
: N·m (kg-m, ft-lb)

Removal and Installation

INFOID:0000000013550607

REMOVAL

1. Remove tires with power tool (commercial service tool). Refer to WT-70, "Exploded View".
2. Remove rear under cover. Refer to EXT-45, "FLOOR UNDER COVER : Exploded View".
3. Remove protectors ① if necessary.
4. Remove front lower link mounting bolt and nut from axle housing.
5. Remove adjusting bolt, eccentric disk, and nut from rear suspension member.
6. Remove front lower link.
7. Perform inspection after removal. Refer to RSU-18, "Inspection".



INSTALLATION

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

- Install front lower link mounting bolt and nut (rear suspension member side).
  CAUTION:
  Never reuse front lower link mounting nut.
- Install front lower link mounting bolt and nut (axle hushing side) with the following procedure.
  CAUTION:
  Never reuse front lower link mounting nut.

- Tighten front lower link mounting nut.

: 50 N·m (5.1 kg-m, 37 ft-lb)

- Turn 90 degrees clockwise (angle tightening).

CAUTION:
Check the tightening angle by using an angle wrench (commercial service tool) or protractor. Never judge by visual inspection without an angle wrench.

- Perform final tightening of fixing parts at the vehicle installation position (rubber bushing), under unladen conditions with tires on level ground.
- Perform inspection after installation. Refer to RSU-18, "Inspection".

Inspection

INFOID:0000000013550608

INSPECTION AFTER REMOVAL

Front Lower Link
Check front lower link for any deformation, cracks, or damage. Replace it if necessary.

Protector
Check protector for any deformation, cracks, or damage. Replace it if necessary.

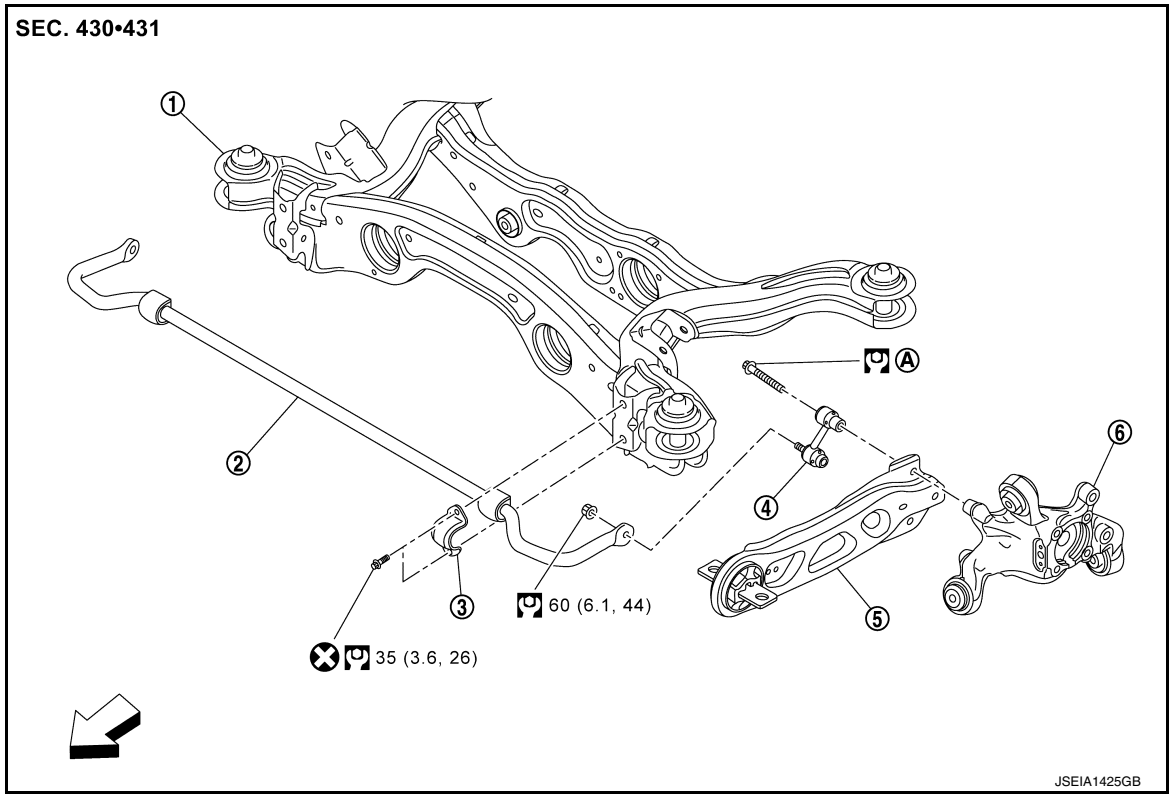
INSPECTION AFTER INSTALLATION

1. Check wheel alignment. Refer to RSU-7, "Inspection".
2. Perform test drive when adjusting wheel alignment. Refer to STC-26, "Description".

REAR STABILIZER

Exploded View

INFOID:0000000013550609



① Rear suspension member ② Stabilizer bar ③ Stabilizer clamp
④ Stabilizer connecting rod ⑤ Trailing arm ⑥ Axle housing

Ⓐ: Tightening must be done following the installation procedure. Refer to RSU-19, "Removal and Installation".

⇦: Vehicle front

⊗: Always replace after every disassembly.

: N·m (kg-m, ft-lb)

Removal and Installation

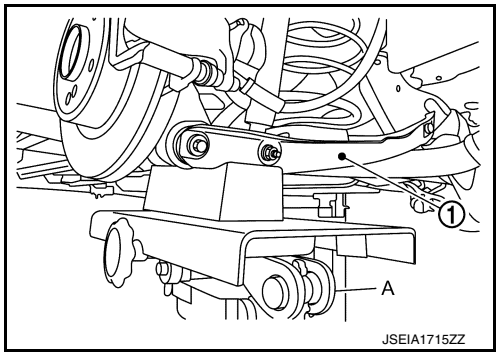
INFOID:0000000013550610

REMOVAL

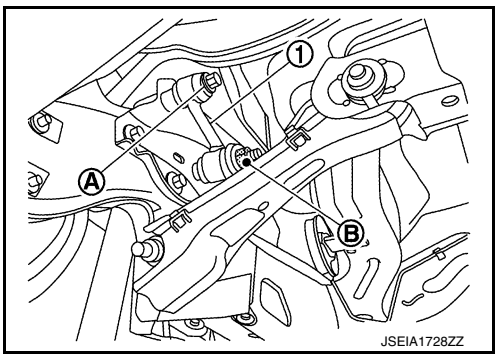
2WD

1. Remove tires with power tool (commercial service tool). Refer to WT-70, "Exploded View".
2. Set suitable jack (A) under the rear lower link ①.

CAUTION:
- **Check that jack supporting status is stable.**
- **Never damage rear lower link with a jack.**

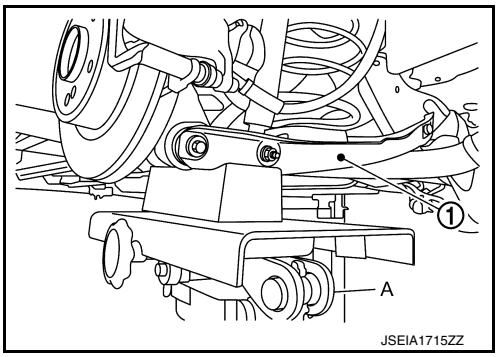


3. Remove stabilizer connecting rod mounting bolt Ⓐ and nut Ⓑ, and remove stabilizer connecting rod ①.
4. Remove under cover from rear suspension member.
5. Remove floor under cover and rear under cover. Refer to EXT-45, "FLOOR UNDER COVER : Exploded View".
6. Remove rear muffler assembly. Refer to EX-5, "Exploded View".
7. Remove stabilizer clamp mounting bolts, and remove stabilizer clamp and stabilizer bar.
8. Perform inspection after removal. Refer to RSU-20, "Inspection".

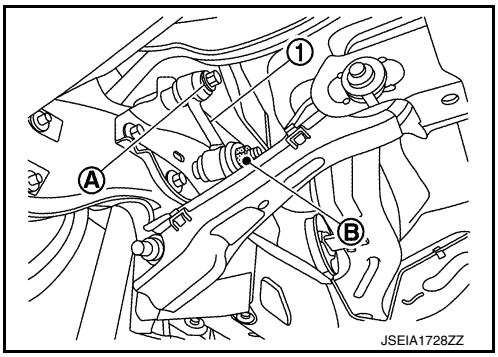


AWD

1. Remove tires with power tool. Refer to WT-70, "Exploded View".
2. Set suitable jack (A) under the rear lower link ①.
   CAUTION:
   - **Check that jack supporting status is stable.**
   - **Never damage rear lower link with a jack.**



3. Remove stabilizer connecting rod mounting bolt Ⓐ and nut Ⓑ, and remove stabilizer connecting rod ①.
4. Remove fuel tank. Refer to FL-9, "Removal and Installation".
5. Disconnect AWD solenoid connector. Refer to DLN-109, "Removal and Installation".
6. Remove stabilizer clamp mounting bolts, and remove stabilizer clamp and stabilizer bar.
7. Perform inspection after removal. Refer to RSU-20, "Inspection".



INSTALLATION

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

- Install stabilizer clamp and stabilizer bar to rear suspension member.
  CAUTION:
  Never reuse stabilizer clamp mounting bolt.
- Install stabilizer connecting rod mounting bolt to axle housing with the following procedure.

- Tighten stabilizer connecting rod mounting bolt.

  : 45 N·m (4.6 kg-m, 33 ft-lb)

- Turn 45 degrees clockwise (angle tightening).
  CAUTION:
  Check the tightening angle by using an angle wrench (commercial service tool) or protractor. Never judge by visual inspection without an angle wrench.

Inspection

INFOID:0000000013550611

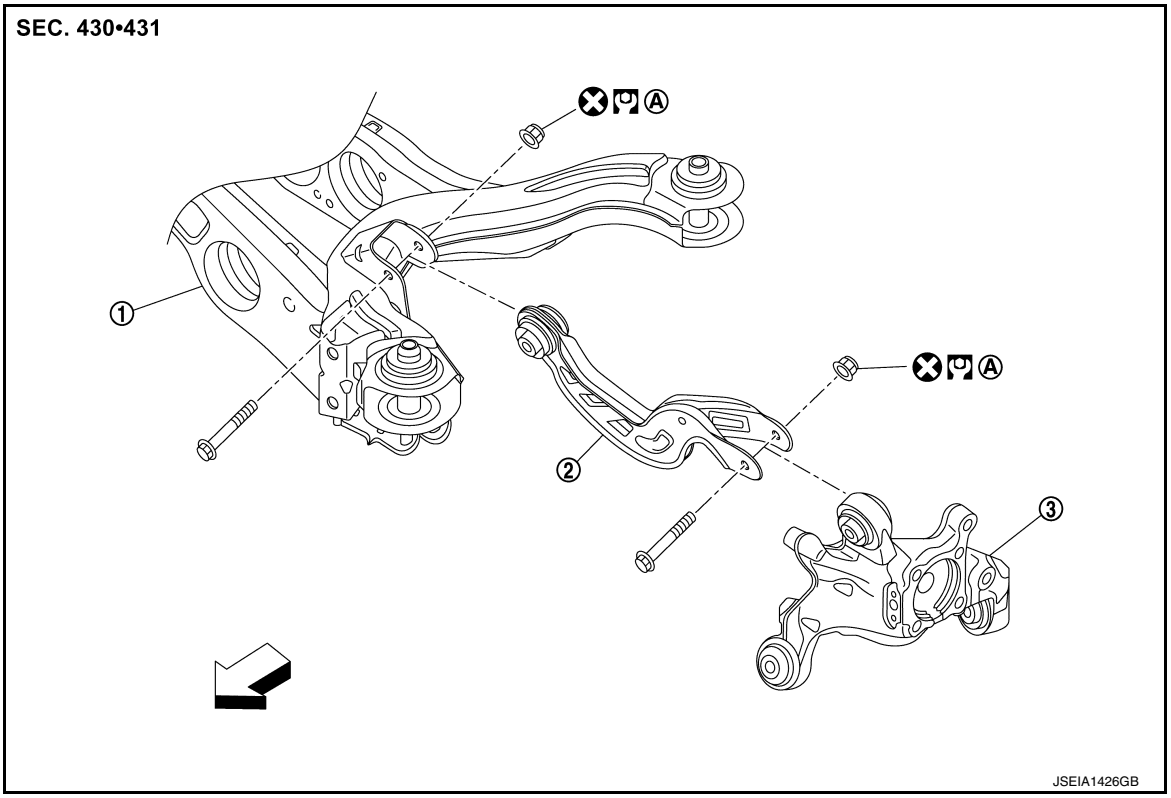
INSPECTION AFTER REMOVAL

Check stabilizer bar, stabilizer clamp, and stabilizer connecting rod for any deformation, crack or damage. Replace if necessary.

UPPER LINK

Exploded View

INFOID:0000000013550612



① Rear suspension member ② Upper link ③ Axle housing

Ⓐ: Tightening must be done following the installation procedure. Refer to RSU-21, "Removal and Installation".

⇦: Vehicle front

: Always replace after every disassembly.

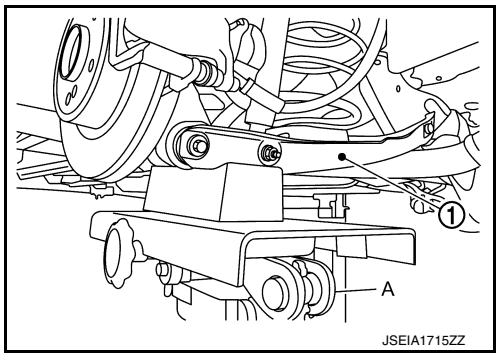
: N·m (kg-m, ft-lb)

Removal and Installation

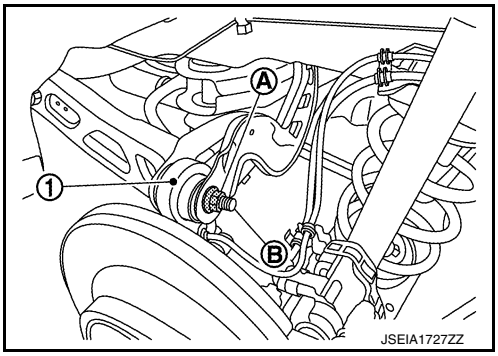
INFOID:0000000013550613

REMOVAL

1. Remove tires with power tool (commercial service tool). WT-70, "Exploded View".
2. Set suitable jack (A) under the rear lower link ①.
   CAUTION:
   - **Check that jack supporting status is stable.**
   - **Never damage rear lower link with a jack.**
3. Remove rear muffler assembly in rear area and fix in place. Refer to EX-5, "Exploded View".
4. Remove under cover from rear suspension member.



5. Remove upper link mounting nut Ⓐ and bolt Ⓑ from axle housing ①.
6. Remove upper link mounting nut and bolt from rear suspension member.
7. Remove upper link.
8. Perform inspection after removal. Refer to RSU-22, "Inspection".



INSTALLATION

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

- Install upper link mounting bolt and nut with the following procedure.

CAUTION:

Never reuse upper link mounting nut.

- Tighten upper link mounting nuts.

: 50 N·m (5.1 kg-m, 37 ft-lb)

- Turn 90 degrees clockwise (angle tightening).

CAUTION:

Check the tightening angle by using an angle wrench (commercial service tool) or protractor. Never judge by visual inspection without an angle wrench.

- Perform final tightening of fixing parts at the vehicle installation position (rubber bushing), under unladen conditions with tires on level ground.

Inspection

INFOID:0000000013550614

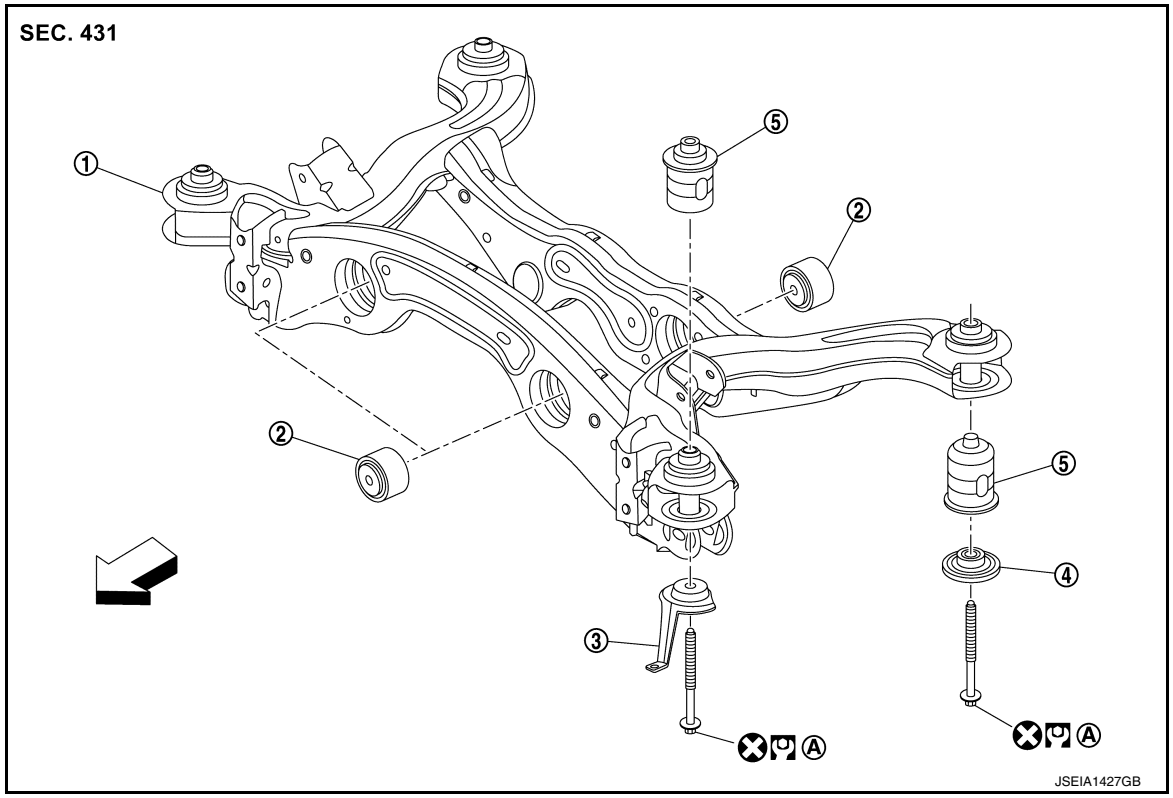
INSPECTION AFTER REMOVAL

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

REAR SUSPENSION MEMBER

Exploded View

INFOID:0000000013550615



① Rear suspension member
② Bushing (AWD)
③ Mount stopper
④ Mount stopper (AWD)
⑤ Rear suspension member bushing (AWD)

Ⓐ: Tightening must be done following the installation procedure. Refer to RSU-23, "Removal and Installation".

⇦: Vehicle front

⊗: Always replace after every disassembly.

: N·m (kg-m, ft-lb)

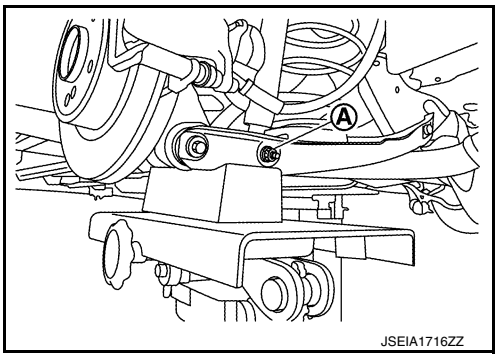
Removal and Installation

INFOID:0000000013550616

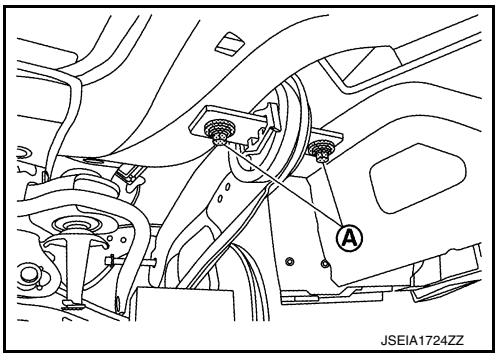
REMOVAL

1. Remove tires with power tool (commercial service tool). Refer to WT-70, "Exploded View".
2. Remove rear muffler assembly. Refer to EX-5, "Exploded View".
3. Remove heat insulator.
4. Remove under cover from rear suspension member.
5. Remove floor under cover and rear under cover. Refer to EXT-45, "FLOOR UNDER COVER : Exploded View".
6. Remove rear axle rpm sensor. Refer to BRC-969, "REAR AXLE RPM SENSOR : Removal and Installation".
7. Remove brake caliper, and suspend the brake caliper with suitable wire so that the brake hose and electric parking brake actuator motor harness will not stretch. Refer to BR-41, "BRAKE PAD : Removal and Installation".
8. Remove electric parking brake actuator motor harness. Refer to PB-131, "Removal and Installation".
9. Remove rear height sensor. (LED headlamp) Refer to EXL-301, "REAR HEIGHT SENSOR : Removal and Installation".

10. Disconnect AWD solenoid connector and remove AWD solenoid harness. (AWD) Refer to DLN-109, "Removal and Installation".
11. Remove shock absorber mounting nut Ⓐ and bolt from rear suspension member. Refer to RSU-9, "Removal and Installation".
12. Remove coil spring. Refer to RSU-9, "Removal and Installation".



13. Remove trailing arm mounting bolts Ⓐ. Refer to RSU-15, "Removal and Installation".
14. Remove propeller shaft assembly. (AWD) Refer to DLN-87, "Removal and Installation".
15. Set suitable jack under rear suspension member.
    CAUTION:
    - **Check that jack supporting status is stable.**
    - **Never damage the rear suspension member with the suitable jack.**
16. Remove rear suspension member mounting bolts and mount stoppers.



17. Slowly lower the jack supporting rear suspension member. Remove rear suspension member assembly.
18. If necessary, remove the following parts.
    - Rear lower link: Refer to RSU-13, "Removal and Installation".
    - Upper link: Refer to RSU-21, "Removal and Installation".
    - Stabilizer connecting rod and stabilizer bar: Refer to RSU-19, "Removal and Installation".
    - Front lower link: Refer to RSU-17, "Removal and Installation".
    - Axle housing and wheel hub assembly:
    - 2WD: Refer to RAX-7, "Removal and Installation".
    - AWD: Refer to RAX-17, "Removal and Installation".
    - Rear drive shaft: (AWD) Refer to RAX-21, "Removal and Installation".
    - Rear final drive assembly: (AWD) Refer to DLN-111, "Removal and Installation".
19. Perform inspection after removal. Refer to RSU-30, "Inspection".

INSTALLATION

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

- Install rear suspension member mounting bolts with the following procedure.

CAUTION:
Never reuse rear suspension member mounting bolt.

- Tighten rear suspension member mounting bolts.

: 80 N·m (8.2 kg-m, 59 ft-lb)

- Turn 180 degrees counterclockwise.

CAUTION:
Check the tightening angle by using an angle wrench (commercial service tool) or protractor. Never judge by visual inspection without an angle wrench.

- Tighten rear suspension member mounting bolts.

: 80 N·m (8.2 kg-m, 59 ft-lb)

- Turn 90 degrees clockwise (angle tightening).

CAUTION:
Check the tightening angle by using an angle wrench (commercial service tool) or protractor. Never judge by visual inspection without an angle wrench.

- Perform the final tightening of each of parts under unladen conditions, which were removed when removing rear suspension assembly.
- Perform inspection after installation. Refer to RSU-30, "Inspection".

Disassembly and Assembly

INFOID:0000000013550617

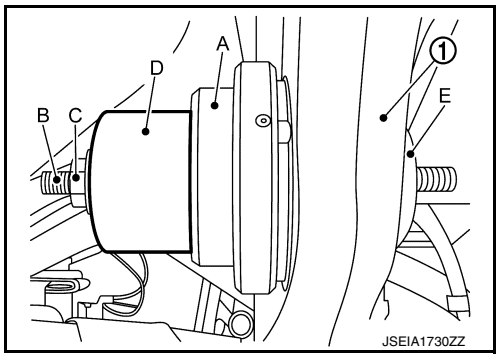
DISASSEMBLY

Bushing of Front Left Side (AWD)

1. Remove rear final drive assembly. Refer to DLN-111, "Removal and Installation".
2. Remove stabilizer bar from rear suspension member. Refer to RSU-19, "Removal and Installation".
3. Remove bushing, using extraction and insertion tool [SST: KV405H0170 (176 589 00 43 00)] with the following procedure.

a. Insert counter holder (176 589 00 43 02) (A) from rear into rear suspension member ①.
NOTE:
The arrow on counter holder (176 589 00 43 02) must face downward.

b. Attach spindle (176 589 00 43 10) (B), nut (176 589 00 43 09) (C), extraction and insertion tool bearing [SST: KV40109200 (—)] (D), and thrust piece (176 589 00 43 04) (E) to bushing and counter holder (176 589 00 43 02) as shown.



c. Press bushing rearward out of the rear suspension member.
CAUTION:
Apply mechanical oil to spindle (176 589 00 43 10) regularly.

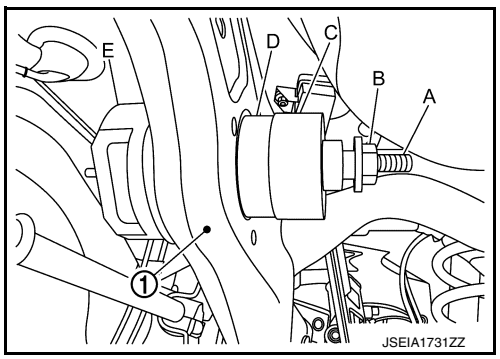
d. Remove spindle (176 589 00 43 10), nut (176 589 00 43 09), extraction and insertion tool bearing [SST: KV40109200 (—)], thrust piece (176 589 00 43 04), and bushing.

e. Remove counter holder (176 589 00 43 02) out of rear suspension member.

Bushing of Front Right Side (AWD)

1. Remove rear final drive assembly. Refer to DLN-111, "Removal and Installation".
2. Remove stabilizer bar from rear suspension member. Refer to RSU-19, "Removal and Installation".
3. Remove bushing, using extraction and insertion tool [SST: KV405H0170 (176 589 00 43 00)] with the following procedure.

a. Attach spindle (176 589 00 43 10) (A), nut (176 589 00 43 09) (B), extraction and insertion tool bearing [SST: KV40109200 (—)] (C), thrust piece (176 589 00 43 05) (D), and counter holder (176 589 00 43 08) (E) to bushing and rear into rear suspension member ① as shown.
NOTE:
The chamfer on thrust piece (176 589 00 43 05) must point to the tool set to bushing.



b. Press bushing forward out of the rear suspension member.
CAUTION:
Apply mechanical oil to spindle (176 589 00 43 10) regularly.

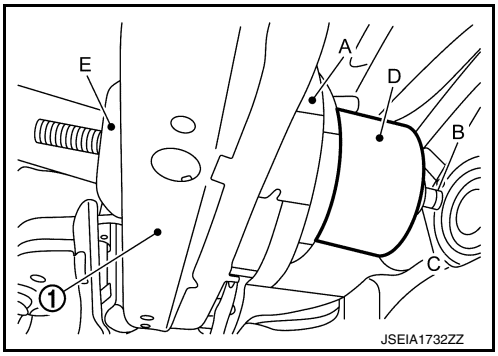
c. Remove spindle (176 589 00 43 10), nut (176 589 00 43 09), extraction and insertion tool bearing [SST: KV40109200 (—)], thrust piece (176 589 00 43 05), counter holder (176 589 00 43 08), and bushing.

Bushing of Rear Side (AWD)

1. Remove rear final drive assembly. Refer to DLN-111, "Removal and Installation".
2. Remove bushing, using extraction and insertion tool [SST: KV405H0170 (176 589 00 43 00)] with the following procedure.

a. Insert counter holder (176 589 00 43 01) (A) from front into rear suspension member ①.
NOTE:
The arrow on counter holder (176 589 00 43 01) must face downward.

b. Attach spindle (176 589 00 43 10) (B), nut (176 589 00 43 09) (C), extraction and insertion tool bearing [SST: KV40109200 (—)] (D), and thrust piece (176 589 00 43 04) (E) to bushing and counter holder (176 589 00 43 01) as shown.



c. Press bushing forward out of the rear suspension member.
CAUTION:
Apply mechanical oil to spindle (176 589 00 43 10) regularly.

d. Remove spindle (176 589 00 43 10), nut (176 589 00 43 09), extraction and insertion tool bearing [SST: KV40109200 (—)], thrust piece (176 589 00 43 04), and bushing.

e. Remove counter holder (176 589 00 43 01) out of rear suspension member.

Rear Suspension Member Bushing of Front Side (AWD)

1. Remove rear suspension member assembly. Refer to RSU-23, "Removal and Installation".
2. Remove bushing, using extraction and insertion tool [SST: KV405H0370 (246 589 01 43 00)] with the following procedure.

a. Attach extraction and insertion tool bearing [SST: KV40109200 (—)] with counter holder (246 589 01 43 02) on rear suspension member.

b. Attach thrust piece (246 589 01 43 01) on rear suspension member bushing.

c. Insert spindle (246 589 01 43 07) with spindle head (246 589 01 43 03) through extraction and insertion tool bearing [SST: KV40109200 (—)] and counter holder (246 589 01 43 02) and screw into thrust piece (246 589 01 43 01).

d. Pre-tension and align extraction and insertion tool [SST: KV405H0370 (246 589 01 43 00)].
NOTE:
Mount spindle head (246 589 01 43 03) by hand.

e. Press out rear suspension member bushing from rear suspension member.
CAUTION:
- **Make sure that the thrust piece (246 589 01 43 01) makes proper contact with the rear suspension member bushing. Otherwise the rear suspension member may be damaged.**
- **Apply mechanical oil to spindle (246 589 01 43 07) regularly.**

f. Remove extraction and insertion tool [SST: KV405H0370 (246 589 01 43 00)] and extraction and insertion tool bearing [SST: KV40109200 (—)].

Rear Suspension Member Bushing of Rear Side (AWD)

1. Remove rear suspension member assembly. Refer to RSU-23, "Removal and Installation".
2. Remove bushing, using extraction and insertion tool [SST: KV405H0370 (246 589 01 43 00)] with the following procedure.

a. Attach counter holder (246 589 01 43 02) on extraction and insertion tool bearing [SST: KV40109200 (—)].

b. Insert spindle (246 589 01 43 07) with spindle head (246 589 01 43 03) through extraction and insertion tool bearing [SST: KV40109200 (—)] and counter holder (246 589 01 43 02) and place onto rear suspension member.

c. Screw thrust piece (246 589 01 43 01) onto spindle (246 589 01 43 07) and place on rear suspension member bushing.

d. Pre-tension and align extraction and insertion tool [SST: KV405H0370 (246 589 01 43 00)].
NOTE:
Mount spindle head (246 589 01 43 03) by hand.

e. Press out rear suspension member bushing from rear suspension member.
CAUTION:
Apply mechanical oil to spindle (246 589 01 43 07) regularly.

f. Remove extraction and insertion tool [SST: KV405H0370 (246 589 01 43 00)] and extraction and insertion tool bearing [SST: KV40109200 (—)].

ASSEMBLY

Bushing of Front Left Side (AWD)

1. Install bushing, using extraction and insertion tool [SST: KV405H0170 (176 589 00 43 00)] with the following procedure.

a. Insert installation ring (176 589 00 43 06) (A) into counter holder (176 589 00 43 02) (B) and engage.
NOTE:
Installation ring (176 589 00 43 06) determines the end position of the bushing ① in the rear suspension member ②.

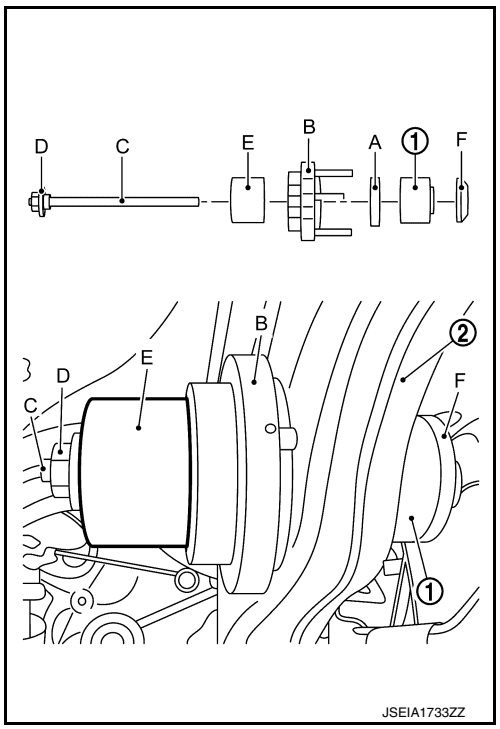
b. Insert counter holder (176 589 00 43 02) with installation ring (176 589 00 43 06) from into rear suspension member.
NOTE:
The arrow on counter holder (176 589 00 43 02) must face downward.

c. Apply insertion agent to bushing.

d. Attach spindle (176 589 00 43 10) (C), nut (176 589 00 43 09) (D), extraction and insertion tool bearing [SST: KV40109200 (—)] (E), bushing, and thrust piece (176 589 00 43 04) (F) to rear suspension member and counter holder (176 589 00 43 02) as shown.
NOTE:
The protrusion of bushing must face forward.

e. Press bushing backward into rear suspension member.
CAUTION:
Apply mechanical oil to spindle (176 589 00 43 10) regularly.

f. Remove spindle (176 589 00 43 10), nut (176 589 00 43 09), extraction and insertion tool bearing [SST: KV40109200 (—)], and thrust piece (176 589 00 43 04).



g. Remove counter holder (176 589 00 43 02) with installation ring (176 589 00 43 06) out of rear suspension member.

h. Wipe off excess insertion agent.

2. Install stabilizer bar to rear suspension member. Refer to RSU-19, "Removal and Installation".

3. Install rear final drive assembly. Refer to DLN-111, "Removal and Installation".

Bushing of Front Right Side (AWD)

1. Install bushing, using extraction and insertion tool [SST: KV405H0170 (176 589 00 43 00)] with the following procedure.

a. Insert counter holder (176 589 00 43 03) (A) into rear suspension member ①.
NOTE:
- The support (176 589 00 43 11) (B) must be fitted in the counter holder (176 589 00 43 03) when installing.
- The arrow on counter holder (176 589 00 43 03) must face downward.

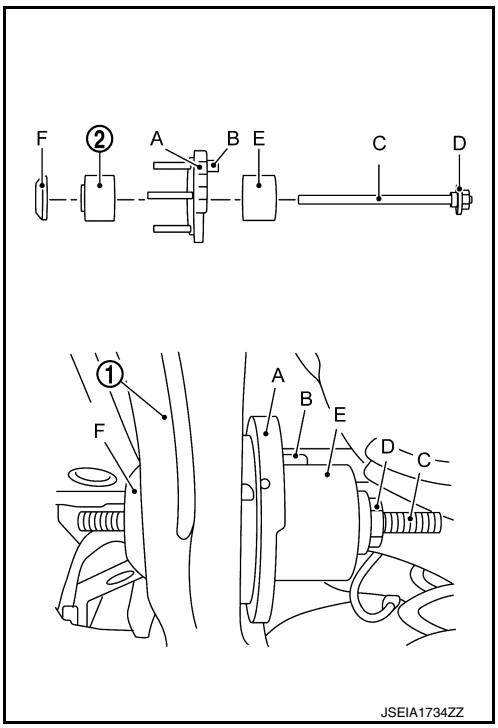
b. Screw support (176 589 00 43 11) hand-tight into counter holder (176 589 00 43 03).

c. Apply insertion agent to bushing ②.

d. Attach spindle (176 589 00 43 10) (C), nut (176 589 00 43 09) (D), extraction and insertion tool bearing [SST: KV40109200 (—)] (E), thrust piece (176 589 00 43 04) (F), and bushing to rear suspension member and counter holder (176 589 00 43 03) as shown.
NOTE:
The protrusion of bushing must face forward.

e. Press bushing backward into rear suspension member.
CAUTION:
Apply mechanical oil to spindle (176 589 00 43 10) regularly.

f. Remove spindle (176 589 00 43 10), nut (176 589 00 43 09), extraction and insertion tool bearing [SST: KV40109200 (—)], and thrust piece (176 589 00 43 04).



g. Remove support (176 589 00 43 11) out of counter holder (176 589 00 43 03), and counter holder (176 589 00 43 03) out of rear suspension member.

h. Wipe off excess insertion agent.

2. Install stabilizer bar to rear suspension member. Refer to RSU-19, "Removal and Installation".

3. Install rear final drive assembly. Refer to DLN-111, "Removal and Installation".

Bushing of Rear Side (AWD)

1. Install bushing, using extraction and insertion tool [SST: KV405H0170 (176 589 00 43 00)] with the following procedure.

a. Insert installation ring (176 589 00 43 07) (A) into counter holder (176 589 00 43 01) (B) and engage.
NOTE:
- Align the bores in the installation ring (176 589 00 43 07) and counter holder (176 589 00 43 01) with each other.
- The installation ring (176 589 00 43 07) determines the end position of the bushing ① in the rear suspension member ②.

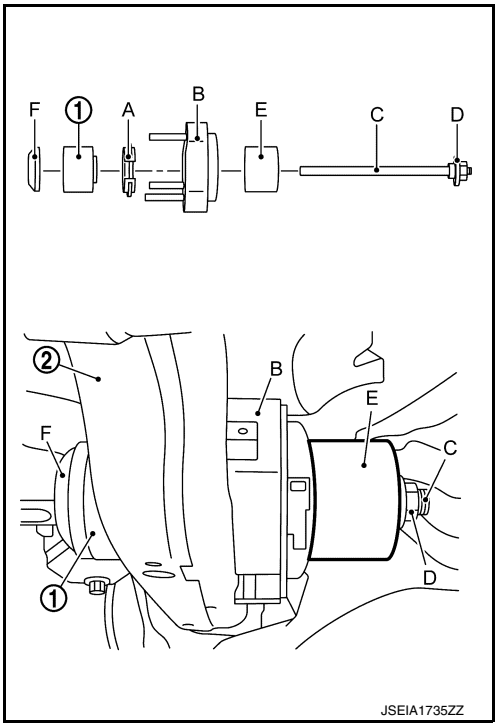
b. Insert counter holder (176 589 00 43 01) with installation ring (176 589 00 43 07) from into rear suspension member.
NOTE:
The arrow on counter holder (176 589 00 43 01) must face downward.

c. Apply insertion agent to bushing.

d. Attach spindle (176 589 00 43 10) (C), nut (176 589 00 43 09) (D), extraction and insertion tool bearing [SST: KV40109200 (—)] (E), bushing, and thrust piece (176 589 00 43 04) (F) to rear suspension member and counter holder (176 589 00 43 01) as shown.
NOTE:
The protrusion of bushing must face forward.

e. Press bushing forward into rear suspension member.
CAUTION:
Apply mechanical oil to spindle (176 589 00 43 10) regularly.

f. Remove spindle (176 589 00 43 10), nut (176 589 00 43 09), extraction and insertion tool bearing [SST: KV40109200 (—)], and thrust piece (176 589 00 43 04).



g. Remove counter holder (176 589 00 43 01) with installation ring (176 589 00 43 07) out of rear suspension member.
h. Wipe off excess insertion agent.
2. Install rear final drive assembly. Refer to DLN-111, "Removal and Installation".

Rear Suspension Member Bushing of Front Side (AWD)

1. Install rear suspension member bushing, using extraction and insertion tool [SST: KV405H0370 (246 589 01 43 00)] with the following procedure.
a. Apply insertion agent to rear suspension member bushing, and attach on rear suspension member and align.
NOTE:
Align direction of arrow on rear suspension member bushing with direction of travel. Marking on rear suspension member bushing must line up with notch on rear suspension member.
b. Screw counter holder (246 589 01 43 05) all the way into extraction and insertion tool bearing [SST: KV40109200 (—)].
c. Place thrust piece (246 589 01 43 08) on rear suspension member bushing.
d. Attach extraction and insertion tool bearing [SST: KV40109200 (—)] with counter holder (246 589 01 43 05) on rear suspension member.
e. Insert spindle (246 589 01 43 07) with spindle head (246 589 01 43 03) through extraction and insertion tool bearing [SST: KV40109200 (—)], counter holder (246 589 01 43 05) and rear suspension member bushing and screw into thrust piece (246 589 01 43 08).
f. Pre-tension and align extraction and insertion tool [SST: KV405H0370 (246 589 01 43 00)].
NOTE:
Mount spindle head (246 589 01 43 03) by hand.
g. Carefully press rear suspension member bushing all the way into rear suspension member.
CAUTION:
Apply mechanical oil to spindle (246 589 01 43 07) regularly.
h. Remove extraction and insertion tool [SST: KV405H0370 (246 589 01 43 00)] and extraction and insertion tool bearing [SST: KV40109200 (—)].
2. Install rear suspension member assembly. Refer to RSU-23, "Removal and Installation".

Rear Suspension Member Bushing of Rear Side (AWD)

1. Install rear suspension member bushing, using extraction and insertion tool [SST: KV405H0370 (246 589 01 43 00)] with the following procedure.
a. Attach thrust piece (246 589 01 43 06) on extraction and insertion tool bearing [SST: KV40109200 (—)].
b. Apply insertion agent to rear suspension member bushing, and attach on rear suspension member and align.
NOTE:
Align direction of arrow on rear suspension member bushing with direction of travel. Marking on rear suspension member bushing must line up with notch on rear suspension member.
c. Insert spindle (246 589 01 43 07) with spindle head (246 589 01 43 03) through extraction and insertion tool bearing [SST: KV40109200 (—)], thrust piece (246 589 01 43 06) and rear suspension member bushing and place on rear suspension member.
d. Screw counter holder (246 589 01 43 04) onto spindle (246 589 01 43 07) and place on rear suspension member.
e. Pre-tension and align extraction and insertion tool [SST: KV405H0370 (246 589 01 43 00)].
NOTE:
Mount spindle head (246 589 01 43 03) by hand.
f. Press rear suspension member bushing all the way into rear suspension member.
CAUTION:
Apply mechanical oil to spindle (246 589 01 43 07) regularly.
g. Remove extraction and insertion tool [SST: KV405H0370 (246 589 01 43 00)] and extraction and insertion tool bearing [SST: KV40109200 (—)].
2. Install rear suspension member assembly. Refer to RSU-23, "Removal and Installation".

Inspection

INFOID:0000000013550618

INSPECTION AFTER REMOVAL

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

Bushing
Check bushing for deformation, cracks, or any other damage. Replace it if necessary.

INSPECTION AFTER INSTALLATION

1. Check rear axle rpm sensor harness for proper connection. Refer to BRC-969, "REAR AXLE RPM SENSOR : Exploded View".
2. Check wheel alignment. Refer to RSU-7, "Inspection".
3. Perform test drive when adjusting wheel alignment. Refer to STC-26, "Description".
4. Be sure to perform ″SENSOR INITIALIZE″ when removing the rear height sensor. (LED headlamp) Refer to EXL-117, "Description".

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Wheel Alignment

INFOID:0000000013550619

2WD

1.6L TURBO ENGINE

Item			Standard
Camber Degree minute (Decimal degree)		Minimum	–1° 15′ (–1.25°)
		Nominal	–0° 45′ (–0.75°)
		Maximum	–0° 15′ (–0.25°)
Toe-in	Total toe-in Distance	Minimum	Out 1.1 mm (Out 0.043 in)
		Nominal	In 0.4 mm (In 0.016 in)
		Maximum	In 1.9 mm (In 0.075 in)
	Total toe-angle Degree minute (Decimal degree)	Minimum	Out 0° 02′ 24″ (Out 0.04°)
		Nominal	In 0° 01′ 48″ (In 0.03°)
		Maximum	In 0° 06′ 00″ (In 0.10°)

Measure value under unladen* conditions.

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

2.0L TURBO ENGINE

Except Canada

Item			Standard	
Grade			Except Sport	Sport
Camber Degree minute (Decimal degree)		Minimum	–1° 15′ (–1.25°)	–1° 45′ (–1.75°)
		Nominal	–0° 45′ (–0.75°)	–1° 15′ (–1.25°)
		Maximum	–0° 15′ (–0.25°)	–0° 45′ (–0.75°)
Toe-in	Total toe-in Distance	Minimum	Out 1.1 mm (Out 0.043 in)	Out 0.3 mm (Out 0.012 in)
		Nominal	In 0.4 mm (In 0.016 in)	In 1.2 mm (In 0.047 in)
		Maximum	In 1.9 mm (In 0.075 in)	In 2.7 mm (In 0.106 in)
	Total toe-angle Degree minute (Decimal degree)	Minimum	Out 0° 02′ 24″ (Out 0.04°)	In 0° 01′ 48″ (In 0.03°)
		Nominal	In 0° 01′ 48″ (In 0.03°)	In 0° 06′ 00″ (In 0.10°)
		Maximum	In 0° 06′ 00″ (In 0.10°)	In 0° 10′ 12″ (In 0.17°)

Measure value under unladen* conditions.

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

Canada

Item			Standard	
Grade			Except Sport	Sport
Camber Degree minute (Decimal degree)		Minimum	–1° 15′ (–1.25°)	–1° 45′ (–1.75°)
		Nominal	–0° 45′ (–0.75°)	–1° 15′ (–1.25°)
		Maximum	–0° 15′ (–0.25°)	–0° 45′ (–0.75°)

Item			Standard	
Grade			Except Sport	Sport
Toe-in	Total toe-in Distance	Minimum	Out 1.2 mm (Out 0.047 in)	Out 0.3 mm (Out 0.012 in)
		Nominal	In 0.3 mm (In 0.012 in)	In 1.2 mm (In 0.047 in)
		Maximum	In 1.8 mm (In 0.071 in)	In 2.7 mm (In 0.106 in)
	Total toe-angle Degree minute (Decimal degree)	Minimum	Out 0° 02′ 24″ (Out 0.04°)	In 0° 01′ 48″ (In 0.03°)
		Nominal	In 0° 01′ 48″ (In 0.03°)	In 0° 06′ 00″ (In 0.10°)
		Maximum	In 0° 06′ 00″ (In 0.10°)	In 0° 10′ 12″ (In 0.17°)

Measure value under unladen* conditions.

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

AWD

2.0L TURBO ENGINE

Except Canada

Item			Standard
Camber Degree minute (Decimal degree)		Minimum	–1° 20′ (–1.33°)
		Nominal	–0° 50′ (–0.83°)
		Maximum	–0° 20′ (–0.34°)
Toe-in	Total toe-in Distance	Minimum	Out 1.0 mm (Out 0.039 in)
		Nominal	In 0.5 mm (In 0.020 in)
		Maximum	In 2.0 mm (In 0.079 in)
	Total toe-angle Degree minute (Decimal degree)	Minimum	Out 0° 01′ 48″ (Out 0.03°)
		Nominal	In 0° 02′ 24″ (In 0.04°)
		Maximum	In 0° 06′ 36″ (In 0.11°)

Measure value under unladen* conditions.

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

Canada

Item			Standard	
Grade			Base	Premium
Camber Degree minute (Decimal degree)		Minimum	–1° 15′ (–1.25°)	–1° 20′ (–1.33°)
		Nominal	–0° 45′ (–0.75°)	–0° 50′ (–0.83°)
		Maximum	–0° 15′ (–0.25°)	–0° 20′ (–0.34°)
Toe-in	Total toe-in Distance	Minimum	Out 1.1 mm (Out 0.043 in)	Out 1.0 mm (Out 0.039 in)
		Nominal	In 0.4 mm (In 0.016 in)	In 0.5 mm (In 0.020 in)
		Maximum	In 1.9 mm (In 0.075 in)	In 2.0 mm (In 0.079 in)
	Total toe-angle Degree minute (Decimal degree)	Minimum	Out 0° 01′ 48″ (Out 0.03°)	
		Nominal	In 0° 02′ 24″ (In 0.04°)	
		Maximum	In 0° 06′ 36″ (In 0.11°)	

Measure value under unladen* conditions.

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

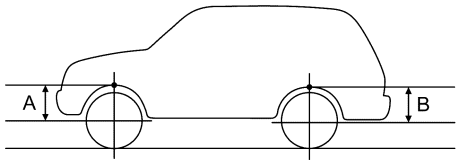
Wheelarch Height

INFOID:0000000013550928

2WD

1.6L TURBO ENGINE

Item	Standard
Front (A)	404 mm (15.91 in)
Rear (B)	405 mm (15.94 in)



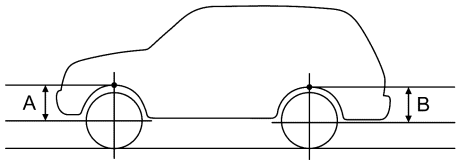
JSEIA1711ZZ

Measure value under unladen* conditions.

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

2.0L TURBO ENGINE

Item		Standard	
Grade		Except Sport	Sport
Front (A)	Except canada	404 mm (15.91 in)	388 mm (15.28 in)
Rear (B)	Except canada	405 mm (15.94 in)	388 mm (15.28 in)
	Canada	406 mm (15.98 in)	



JSEIA1711ZZ

Measure value under unladen* conditions.

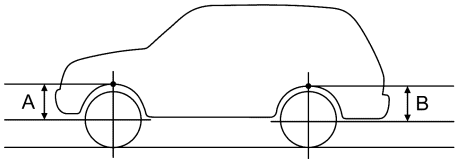
*: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

AWD

2.0L TURBO ENGINE

Item		Standard	
Grade		Except Premium	Premium
Front (A)	Except canada	433 mm (17.05 in)	433 mm (17.05 in)

Item		Standard	
Grade		Except Premium	Premium
Rear (B)	Except canada	423 mm (16.65 in)	422 mm (16.61 in)
	Canada	424 mm (16.69 in)	



JSEIA1711ZZ

Measure value under unladen* conditions.

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