

SP

## PROBLEM SYMPTOMS TABLE

Use the table below to help determine the cause of the problem. The numbers indicate the priority of the possible cause of the problem. Check each part in order. If necessary, replace these parts.

### SUSPENSION SYSTEM

Symptom	Suspected area	See page
Bottoming	1. Vehicle (Overloaded)	SP-15
	2. Spring (Weak)	SP-15
	3. Shock absorber (Worn)	SP-15
Sways/pitches	1. Tire (Worn or improperly inflated)	TW-2
	2. Stabilizer bar (Bent or broken)	SP-29
	3. Shock absorber (Worn)	SP-15
Front wheel shimmy	1. Tire (Worn or improperly inflated)	TW-2
	2. Wheel (Out of balance)	TW-2
	3. Shock absorber (Worn)	SP-15
	4. Wheel alignment (Incorrect)	SP-4
	5. Ball joint (Worn)	SP-25
	6. Hub bearing (Worn)	AH-5
	7. Steering linkage (Loose or worn)	PS-23
Rear wheel shimmy	1. Tires (Worn or improperly inflated)	TW-2
	2. Wheels (Out of balance)	TW-2
	3. Shock absorbers (Worn)	SP-36
	4. Wheel alignment (Incorrect)	SP-11
	5. Hub bearing (Worn)	AH-15
Abnormal tire wear	1. Tire (Worn or improperly inflated)	TW-2
	2. Wheel alignment (Incorrect) (Front)	SP-4
	3. Wheel alignment (Incorrect) (Rear)	SP-11
	4. Shock absorber (Worn) (Front)	SP-15
	5. Shock absorber (Worn) (Rear)	SP-36
	6. Suspension parts (Worn) (Front)	SP-15
	7. Suspension parts (Worn) (Rear)	SP-35
Vehicle pull	1. Tire	TW-2
	2. Tire pressure (incorrect)	TW-2
	3. Wheel alignment (Incorrect) (Front)	SP-4
	4. Wheel alignment (Incorrect) (Rear)	SP-11
	5. Brake (Dragging) (Front)	BR-27
	6. Brake (Dragging) (Rear)	BR-34
	7. Steering wheel (Off center)	SR-2

# FRONT WHEEL ALIGNMENT

## ADJUSTMENT

1. **INSPECT TIRE**
  - (a) Inspect the tire (See page [TW-2](#)).
2. **MEASURE VEHICLE HEIGHT**
  - (a) Measure the vehicle height.

**Vehicle height:**

**XL**

Front (A - B)	122 mm (4.80 in.)
Rear (D - C)	45 mm (1.77 in.)

**TOURING**

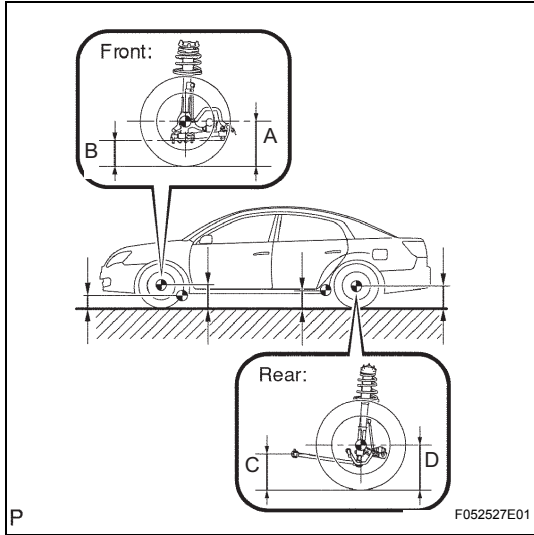
Front (A - B)	127 mm (5.00 in.)
Rear (D - C)	50 mm (1.97 in.)

**XLS**

Front (A - B)	126 mm (4.96 in.)
Rear (D - C)	49 mm (1.93 in.)

**LIMITED**

Front (A - B)	126 mm (4.96 in.)
Rear (D - C)	52 mm (2.05 in.)



**Measuring points:**

**A:**

Ground clearance of front wheel center

**B:**

Ground clearance of front suspension arm sub-assembly lower No. 2 set bolt head center

**C:**

Ground clearance of strut rod set bolt center

**D:**

Ground clearance of rear wheel center

**NOTICE:**

**Before inspecting the wheel alignment, adjust the vehicle height to the specified value.**

**HINT:**

Bounce the vehicle at the corners up and down to stabilize the suspension and inspect the vehicle height.

**SP**

3. **INSPECT TOE-IN**

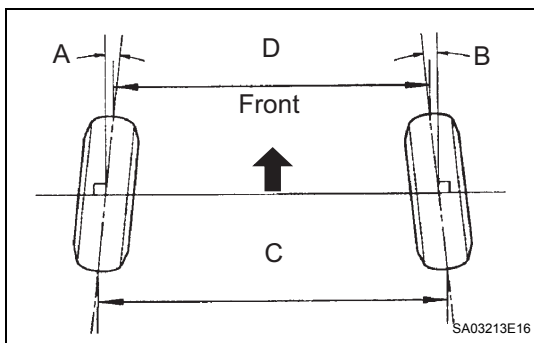
- (a) Inspect the toe-in.

**Toe-in**

Toe-in: (total)	-
A + B:	0° +/- 6' (0° +/- 0.1°)
C - D:	0 +/- 1 mm (0 +/- 0.04 in.)

**HINT:**

- Measure "C - D" only when "A + B" cannot be measured.



- If toe-in is not within the specified range, adjust it at the rack ends.

**4. ADJUST TOE-IN**

- Remove the rack boot set clips.
- Loosen the tie rod end lock nuts.
- Turn the right and left rack ends by an equal amount to adjust toe-in.

HINT:

Try to adjust toe-in to the center of the specified range.

- Make sure that the lengths of the right and left rack ends are the same.
- Torque the tie rod end lock nuts.

**Torque: 74 N\*m (755 kgf\*cm, 55 ft.\*lbf)**

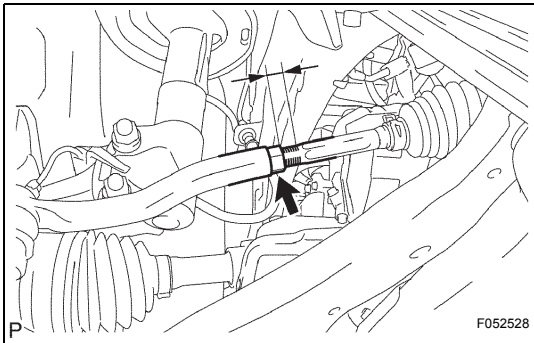
- Place the boots on the seats and install the clips.

HINT:

Make sure that the boots are not twisted.

- with VSC:

Perform VSC system calibration (See page [BC-104](#)).



**5. INSPECT WHEEL ANGLE**

- Turn the steering wheel fully left and right and measure the turning angle.

**Wheel turning angle:**

**XL**

Inside wheel	Outside wheel: Reference
38°37' +- 2° (38.62° +- 2°)	33°47' (33.78°)

**TOURING**

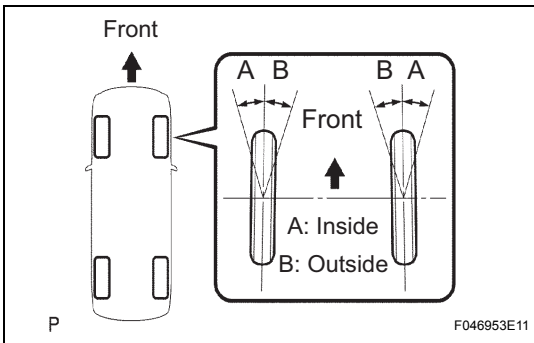
Inside wheel	Outside wheel: Reference
38°27' +- 2° (38.45° +- 2°)	33°41' (33.68°)

**XLS**

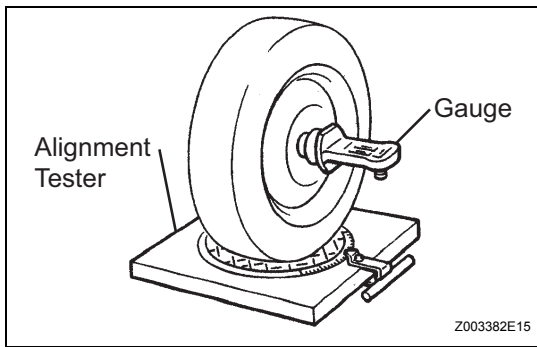
Inside wheel	Outside wheel: Reference
38°29' +- 2° (38.48° +- 2°)	33°43' (33.72°)

**LIMITED**

Inside wheel	Outside wheel: Reference
38°27' +- 2° (38.45° +- 2°)	33°40' (33.67°)



If the right and left inside wheel angles differ from the specified range, check and adjust the right and left rack end lengths.



**6. INSPECT CAMBER, CASTER AND STEERING AXIS INCLINATION**

- (a) Put the front wheel on the center of the alignment tester.
- (b) Install the camber-caster-kingpin gauge at the center of the axle hub or drive shaft.
- (c) Inspect the camber, caster and steering axis inclination.

**Camber, caster and steering axis inclination:  
XL**

Camber Right-left error	Caster Right-left error	Steering axis inclination Right-left error
-0°40' +- 45' (-0.67° +- 0.75°) 45'(0.75°) or less	2°39' +- 45' (2.65° +- 0.75°) 45'(0.75°) or less	12°15' +- 45' (12.25° +- 0.75°) 45'(0.75°) or less

**TOURING**

Camber Right-left error	Caster Right-left error	Steering axis inclination Right-left error
-0°43' +- 45' (-0.72° +- 0.75°) 45' (0.75°) or less	2°43' +- 45' (2.72° +- 0.75°) 45' (0.75°) or less	12°22' +- 45' (12.37° +- 0.75°) 45'(0.75°) or less

**XLS**

Camber Right-left error	Caster Right-left error	Steering axis inclination Right-left error
-0°43' +- 45' (-0.72° +- 0.75°) 45' (0.75°) or less	2°42' +- 45' (2.70° +- 0.75°) 45' (0.75°) or less	12°20' +- 45' (12.33° +- 0.75°) 45' (0.75°) or less

**LIMITED**

Camber Right-left error	Caster Right-left error	Steering axis inclination Right-left error
-0°43' +- 45' (-0.72° +- 0.75°) 45' (0.75°) or less	2°48' +- 45' (2.80° +- 0.75°) 45' (0.75°) or less	12°20' +- 45' (12.33° +- 0.75°) 45' (0.75°) or less

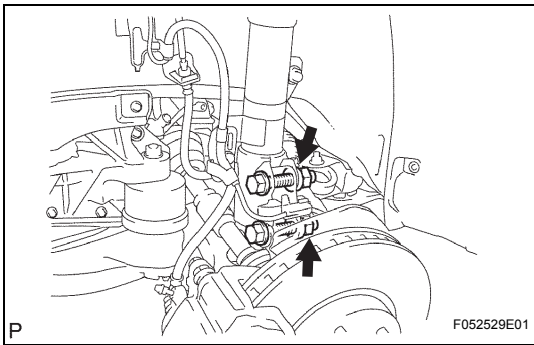
Check the suspension parts for damaged and/or worn out parts if the caster and steering axis inclination are not within the specified range after the camber has been correctly adjusted.

**7. ADJUST CAMBER**

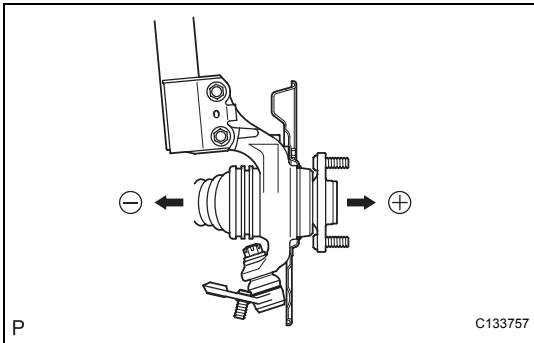
**NOTICE:**

**Inspect toe-in after the camber has been adjusted.**

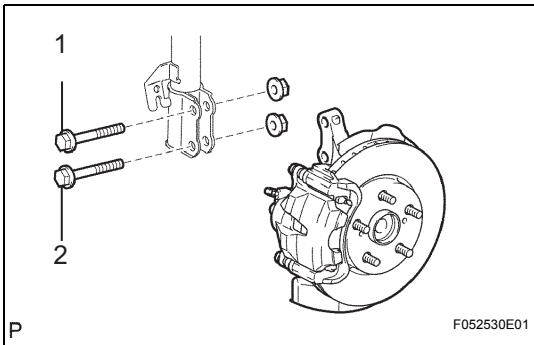
- (a) Remove the front wheel.



- (b) Remove the 2 nuts on the lower side of the shock absorber.  
**NOTICE:**  
**Keep the bolts inserted.**
- (c) Clean the installation surfaces of the shock absorber and the steering knuckle.
- (d) Temporarily install the 2 nuts.



- (e) Fully push or pull the front axle hub in the direction of the required adjustment.
- (f) Tighten the nuts.  
**Torque: 210 N\*m (2,140 kgf\*cm, 155 ft.\*lbf)**  
**NOTICE:**  
**Keep the bolts from rotating and torque the nuts when installing the nuts.**
- (g) Install the front wheel.  
**Torque: 103 N\*m (1,050 kgf\*cm, 76 ft.\*lbf)**



- (h) Check the camber.  
If the measured value is not within the specification, calculate the required adjustment amount using the formula below.  
**HINT:**  
(Camber adjustment amount) = Specified range medium - measured value  
Check installed bolts combination. Select appropriate bolts from the table below to adjust the camber to within the specified range.

Move the axle toward (+) in step (e)	Refer to table (1) (Move the axle toward positive side)
Move the axle toward (-) in step (e)	Refer to table (2) (Move the axle toward negative side)

(1) Table (1) (Move the axle toward positive side)

Installed Bolt	1								
		90105-A0052	90105-A0052	90105-A0052	90105-A0052	90105-A0003	90105-A0004	90105-A0005	
Adjusting Value	2								
		90105-A0052	90105-A0003	90105-A0004	90105-A0005	90105-A0005	90105-A0005	90105-A0005	
-1° 30' to -1° 15'		/						G	
-1° 15' to -1° 00'		/						G	A
-1° 00' to -0° 45'		/						G	A B
-0° 45' to -0° 30'		/						G	A B C
-0° 30' to -0° 15'		/						G	A B C D
-0° 15' to 0°		/						G	A B C D E
0° to 0° 15'		A	B	C	D	E	F		
0° 15' to 0° 30'		B	C	D	E	F	/		
0° 30' to 0° 45'		C	D	E	F	/			
0° 45' to 1° 00'		D	E	F	/				
1° 00' to 1° 15'		E	F	/					
1° 15' to 1° 30'		F	/						

**Selected Bolt Combination**

	A	B	C	D	E	F	G
1							
	90105-A0052	90105-A0052	90105-A0052	90105-A0003	90105-A0004	90105-A0005	90105-A0052
2							
	90105-A0003	90105-A0004	90105-A0005	90105-A0005	90105-A0005	90105-A0005	90105-A0052

SP

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C131582E01

The body and suspension may be damaged if the camber is not correctly adjusted according to the above table.

**NOTICE:**

**Replace the nut with a new one when replacing the bolt.**



- (i) Repeat the steps mentioned above. At step (b), replace 1 or 2 selected bolts.

HINT:

Replace one bolt at a time when replacing 2 bolts.

- (1) Table (2) (Move the axle toward negative side)

Installed Bolt	1							
		90105-A0052	90105-A0052	90105-A0052	90105-A0052	90105-A0003	90105-A0004	90105-A0005
Adjusting Value	2							
		90105-A0052	90105-A0003	90105-A0004	90105-A0005	90105-A0005	90105-A0005	90105-A0005
-1°30' to -1°15'	F							
-1°15' to -1°00'	E	F						
-1°00' to -0°45'	D	E	F					
-0°45' to -0°30'	C	D	E	F				
-0°30' to -0°15'	B	C	D	E	F			
-0°15' to 0°	A	B	C	D	E	F		
0° to 0°15'		G	A	B	C	D	E	
0°15' to 0°30'			G	A	B	C	D	
0°30' to 0°45'				G	A	B	C	
0°45' to 1°00'					G	A	B	
1°00' to 1°15'						G	A	
1°15' to 1°30'							G	

**Selected Bolt Combination**

	A	B	C	D	E	F	G
1							
90105-A0052	90105-A0052	90105-A0052	90105-A0052	90105-A0003	90105-A0004	90105-A0005	90105-A0052
2							
90105-A0003	90105-A0004	90105-A0005	90105-A0005	90105-A0005	90105-A0005	90105-A0005	90105-A0052

P

C131582E02

The body and suspension may be damaged if the camber is not correctly adjusted according to the above table.

SP

**NOTICE:**

**Replace the nut with a new one when replacing the bolt.**

- (j) Repeat the steps mentioned above. At step (b), replace 1 or 2 selected bolts.

**HINT:**

Replace one bolt at a time when replacing 2 bolts.

# REAR WHEEL ALIGNMENT

## ADJUSTMENT

### 1. INSPECT TIRE

(a) Inspect the tire (See page [TW-2](#)).

### 2. MEASURE VEHICLE HEIGHT

(a) Measure the Vehicle height (See page [SP-4](#)).

**NOTICE:**

**Before inspecting wheel alignment, adjust the vehicle height to the specified value.**

### 3. INSPECT TOE-IN

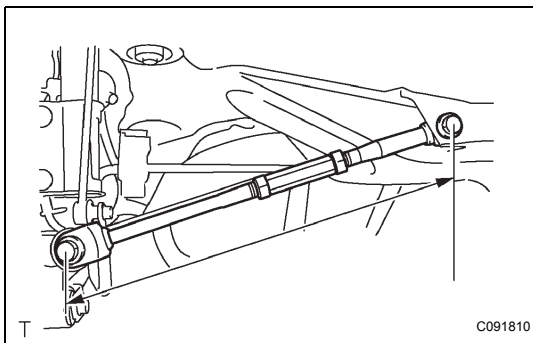
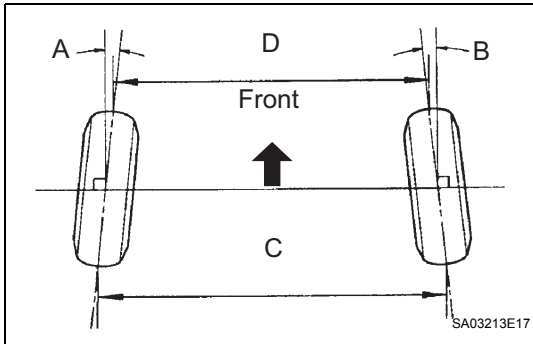
(a) Inspect the toe-in.

**Toe-in**

Toe-in (total)	-
A + B:	0°24' +/- 12' (0.40° + 0.20°)
C - D:	4 +/- 2 mm (0.16 +/- 0.08 in.)

**HINT:**

- Measure "C - D" only when "A + B" cannot be measured.
- If toe-in is not within the specified range, inspect the suspension parts and replace them if necessary.



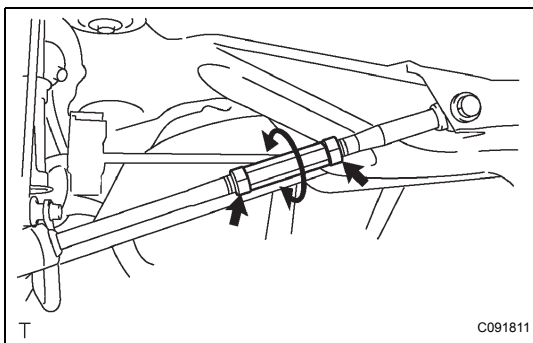
### 4. ADJUST TOE-IN

(a) Measure the lengths of the right and left No. 2 suspension arms.

**No. 2 suspension arm length difference:**

**1.5 mm (0.06 in.) or less**

If the left-right difference is larger than 1.5 mm (0.06 in.), adjust it by following the procedures below.



(b) Loosen the 2 lock nuts.

(c) Turn the right and left adjusting tubes by an equal amount to adjust toe-in.

**HINT:**

- Try to adjust toe-in to the center value.
- One turn of each adjusting tube will adjust toe-in by approximately 1.2°(1°12'), 10.8 mm (0.425 in.).

(d) Torque the 2 lock nuts.

**Torque: 56 N\*m (570 kgf\*cm, 41 ft.\*lbf)**

### 5. INSPECT CAMBER

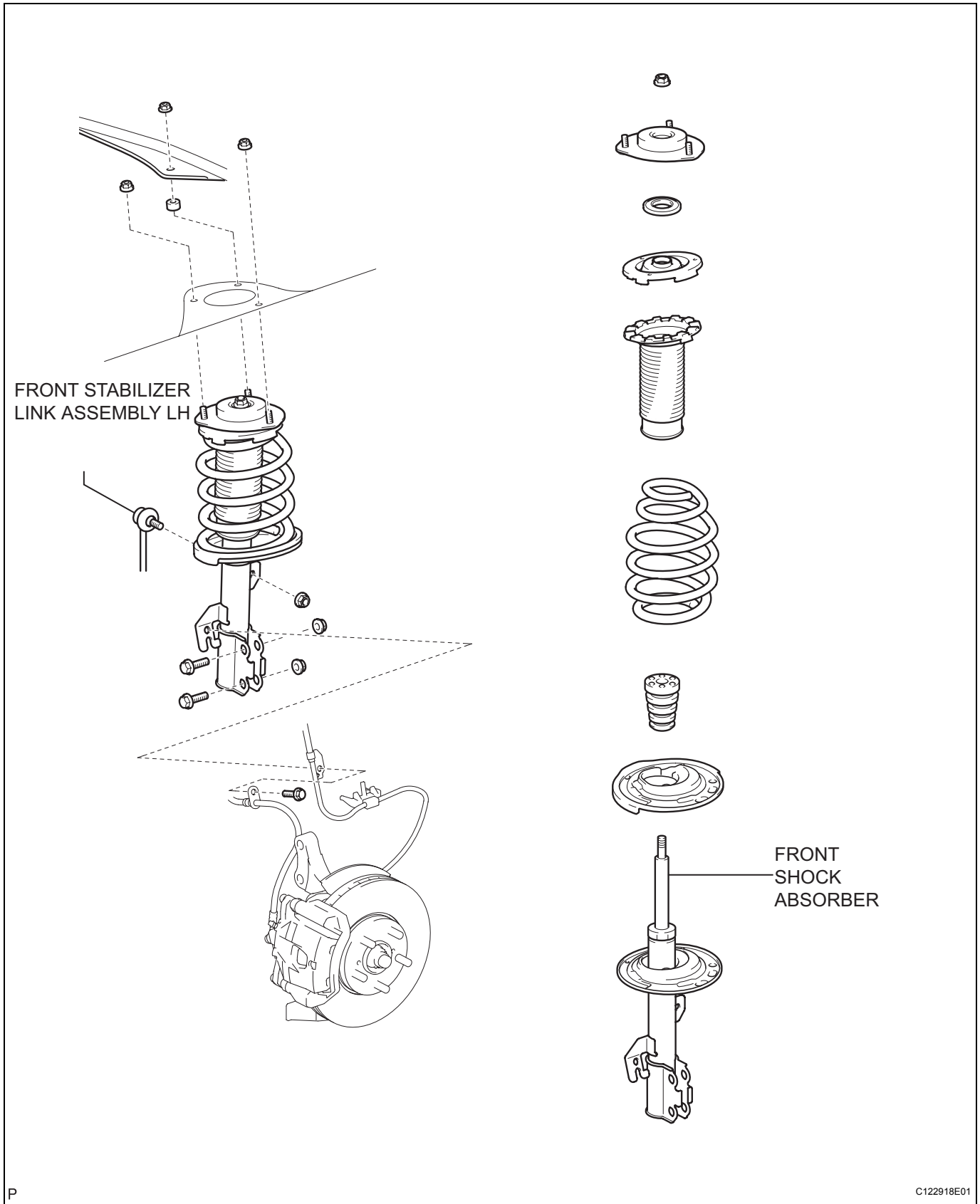
	XL	TOURING
Camber Right-left error	-1°09' +/- 45' (-1.15° +/- 0.75°) 45' (0.75°) or less	-1°13' +/- 45' (-1.22° +/- 0.75°) 45' (0.75°) or less
	XLS	LIMITED
	-1°13' +/- 45' (-1.22° +/- 0.75°) 45' (0.75°) or less	-1°15' +/- 45' (-1.25° +/- 0.75°) 45' (0.75°) or less

**HINT:**

Camber is not adjustable. If the measurement is not within the specification, inspect the suspension parts for damage and/or wear, and replace them if necessary.

# FRONT SHOCK ABSORBER WITH COIL SPRING

## COMPONENTS



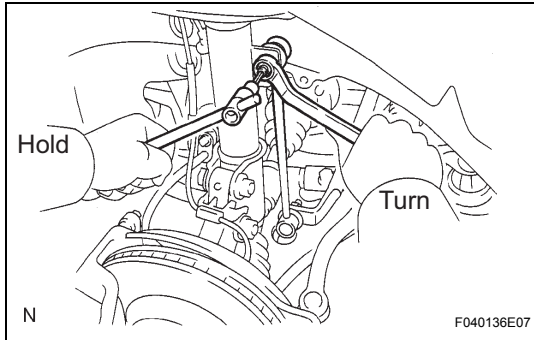
SP

## REMOVAL

### HINT:

- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.

### 1. REMOVE FRONT WHEEL

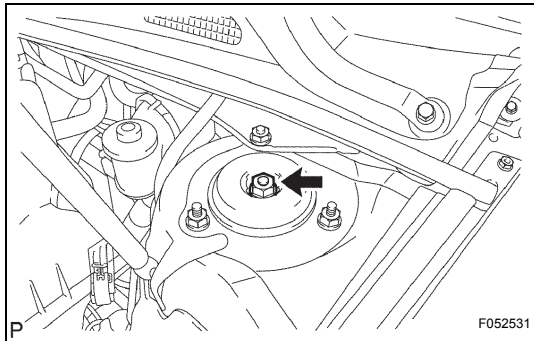


### 2. SEPARATE FRONT STABILIZER LINK ASSEMBLY LH

- (a) Remove the nut and disconnect the front stabilizer link assembly LH from the shock absorber assembly front LH.

#### HINT:

Use a hexagon (6 mm) wrench to hold the stud if the ball joint turns together with the nut.

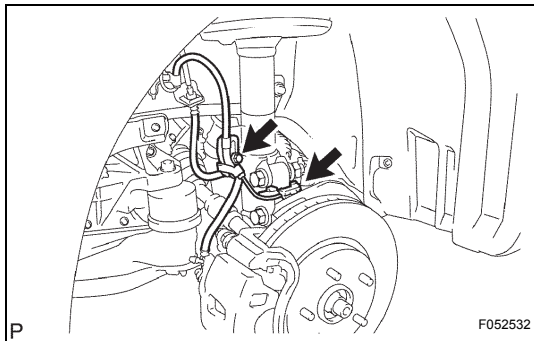


### 3. REMOVE FRONT SHOCK ABSORBER WITH COIL SPRING

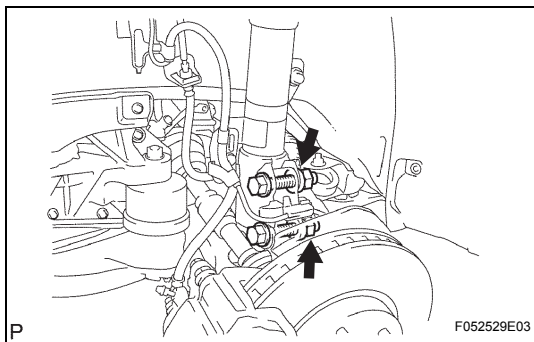
- (a) Loosen the lock nut.

#### HINT:

If not disassembling the shock absorber it is not necessary to loosen the nut.



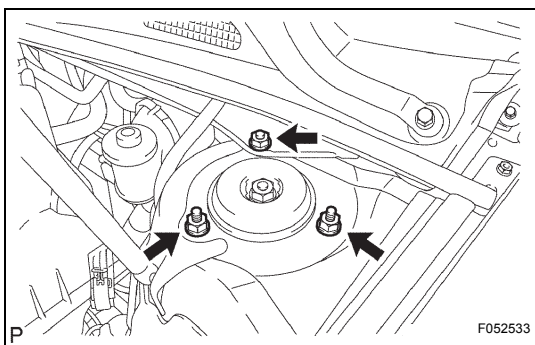
- (b) Remove the bolt and disconnect the front flexible hose No. 1 and speed sensor front LH wire harness.



- (c) Remove the 2 nuts on the lower side of the front shock absorber with coil spring.

#### NOTICE:

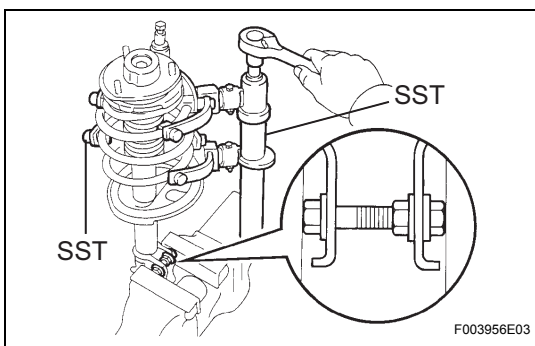
**Keep the bolts inserted.**



- (d) Remove the 3 nuts on the upper side of the front shock absorber with coil spring.
- (e) Remove the 2 bolts on the lower side of the front shock absorber and front shock absorber with coil spring.

**NOTICE:**

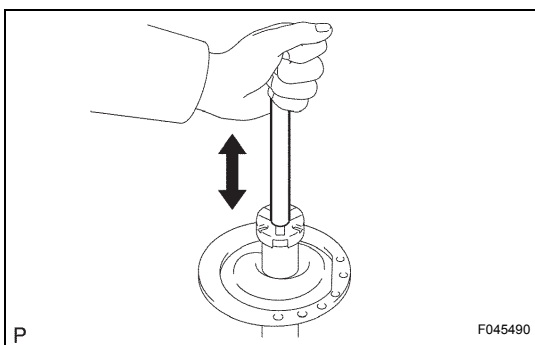
**Be careful not to drop the collar in the case that there is front suspension upper brace center.**

**DISASSEMBLY****1. FIX FRONT SHOCK ABSORBER WITH COIL SPRING**

- (a) As shown in the illustration, secure the front shock absorber with coil spring in a vise by clamping onto a double nutted bolt affixed to the bracket at the bottom of the absorber.

**2. REMOVE FRONT SHOCK ABSORBER**

- (a) Using SST, compress the front coil spring LH.  
**SST 09727-30021 (09727-00010, 09727-00021)**  
**NOTICE:**  
**Do not use an impact wrench. It will damage the SST.**  
**HINT:**  
Use 2 SST of the same type.
- (b) Remove the front suspension support sub-assembly LH, front suspension support bearing LH, front coil spring seat upper LH, front coil spring insulator upper LH, front coil spring LH, front spring bumper LH and front coil spring insulator lower LH from the shock absorber assembly front LH.

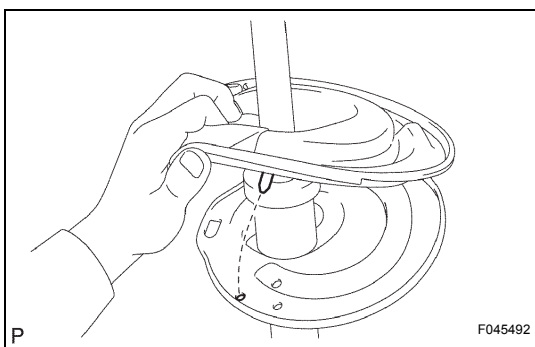
**INSPECTION****1. INSPECT FRONT SHOCK ABSORBER**

- (a) Compress and extend the shock absorber rod 4 or more times. Check that there is no abnormal resistance or sound.

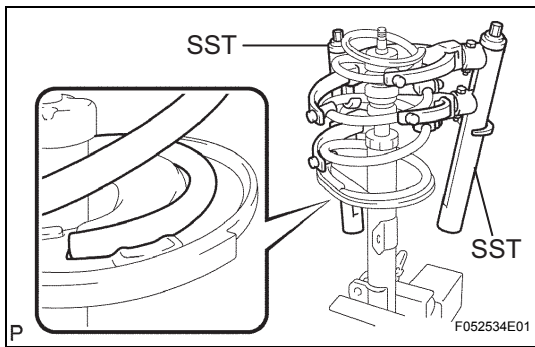
If there is any abnormality, replace the shock absorber assembly front LH with a new one.

**NOTICE:**

**When disposing of the shock absorber assembly front LH, see DISPOSAL (See page SP-18).**

**REASSEMBLY****1. INSTALL FRONT SHOCK ABSORBER**

- (a) Install the front coil spring insulator lower LH onto the shock absorber assembly front LH.
- (b) Install the front spring bumper LH to the piston rod.



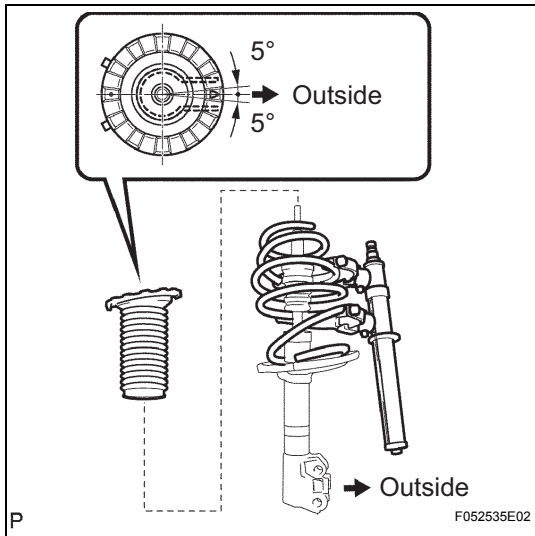
- (c) Compress the front coil spring LH using SST.  
**SST 09727-30021 (09727-00010, 09727-00021)**  
**NOTICE:**  
**Do not use an impact wrench. It will damage the SST.**

HINT:  
 Use 2 SST of the same type.

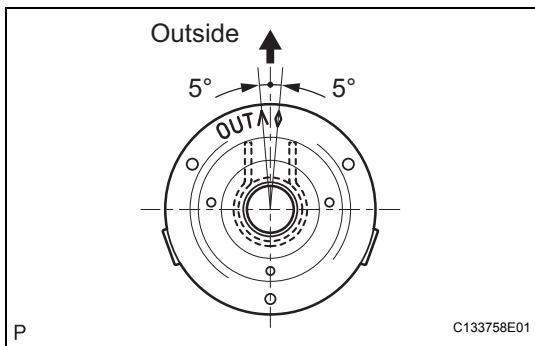
- (d) Install the front coil spring LH to the shock absorber assembly front LH.

HINT:  
 Fit the lower end of the front coil spring LH into the gap of the front coil spring lower LH.

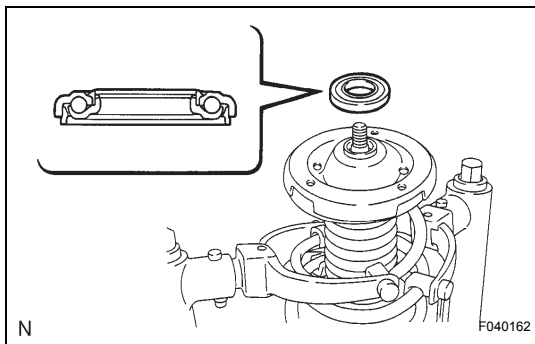
- (e) Install the front coil spring insulator upper LH as shown in the illustration.



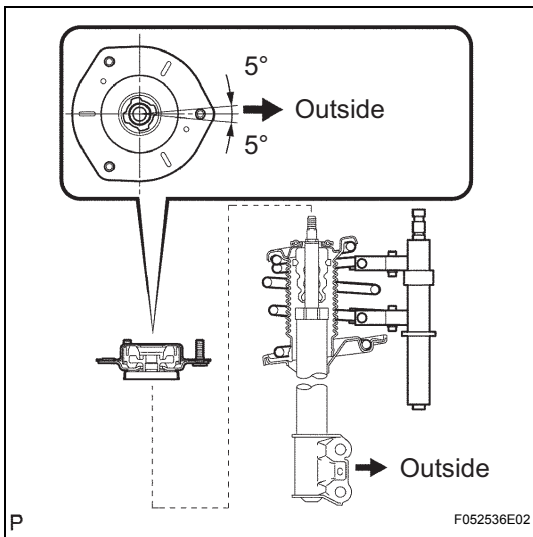
- (f) Install the front coil spring seat upper LH to the shock absorber assembly front LH with the mark facing the outside of the vehicle.



- (g) Install a new front suspension support bearing LH as shown in the illustration.







- (h) Install the front suspension support sub-assembly LH with the mark facing the outside of the vehicle.
- (i) Temporarily tighten a new lock nut.
- (j) Remove the SST slowly in order to release the coil spring.

**SST 09727-30021 (09727-00010, 09727-00021)**

## INSTALLATION

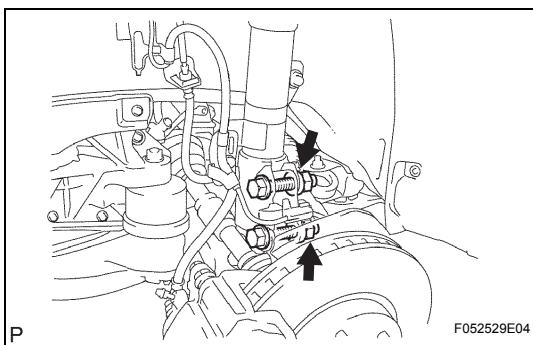
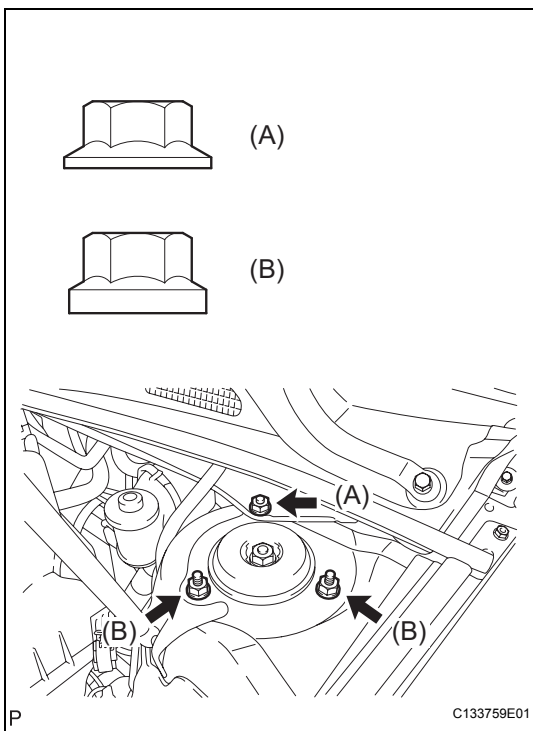
### 1. INSTALL FRONT SHOCK ABSORBER WITH COIL SPRING

- (a) Install the front shock absorber with coil spring.
- (b) Install the 3 nuts to the upper side of the front shock absorber with coil spring.

**Torque: 85 N\*m (867 kgf\*cm, 63 ft.\*lbf)**

**NOTICE:**

**Be careful not to drop the collar in the case that there is front suspension upper brace center.**



- (c) Install the 2 bolts and 2 nuts to the lower side of the front shock absorber with coil spring.

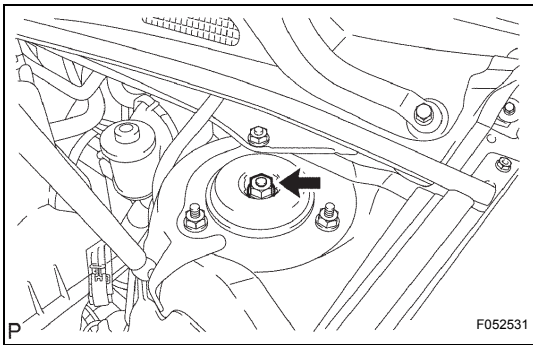
**Torque: 210 N\*m (2,140 kgf\*cm, 155 ft.\*lbf)**

**NOTICE:**

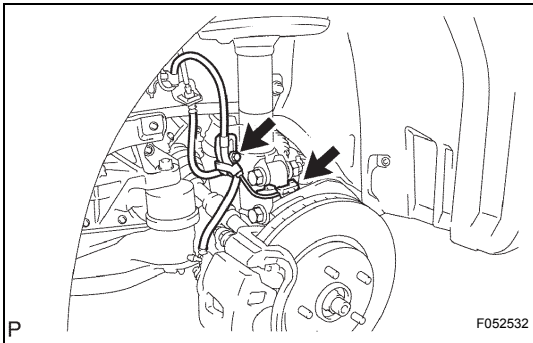
**Keep the bolts from rotating and torque the 2 nuts when installing the 2 nuts.**

**HINT:**

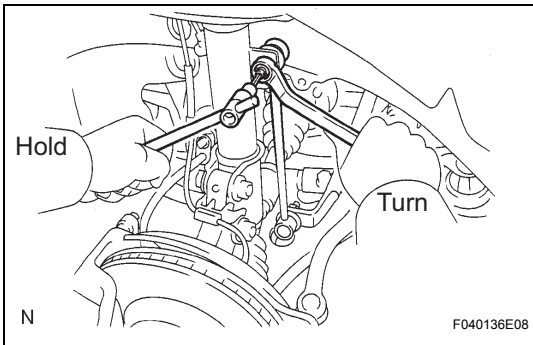
Insert the bolts from the front side of the vehicle.



- (d) Fully tighten the lock nut.  
**Torque: 49 N\*m (500 kgf\*cm, 36 ft.\*lbf)**



- (e) Install the front flexible hose No. 1 and speed sensor front LH with the bolt.  
**Torque: 19 N\*m (192 kgf\*cm, 14 ft.\*lbf)**



2. **INSTALL FRONT STABILIZER LINK ASSEMBLY LH**
  - (a) Install the front stabilizer link assembly LH with the nut.  
**Torque: 74 N\*m (755 kgf\*cm, 55 ft.\*lbf)**  
**HINT:**  
 Use a hexagon (6 mm) wrench to hold the stud if the ball joint turns together with the nut.
3. **INSTALL FRONT WHEEL**  
**Torque: 103 N\*m (1,050 kgf\*cm, 76 ft.\*lbf)**
4. **INSPECT AND ADJUST FRONT WHEEL ALIGNMENT**
  - (a) Inspect and adjust front wheel alignment (See page [SP-4](#)).

## DISPOSAL

### HINT:

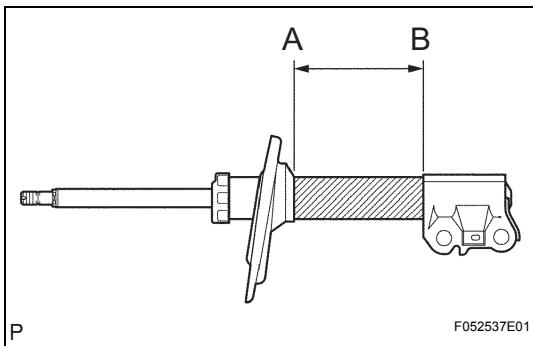
Dispose the RH side following the same procedures as with the LH side.

### 1. DISPOSE OF FRONT SHOCK ABSORBER

- (a) Fully extend the shock absorber rod.
- (b) Using a drill, make a hole in the cylinder between A and B as shown in the illustration to discharge the gas inside.

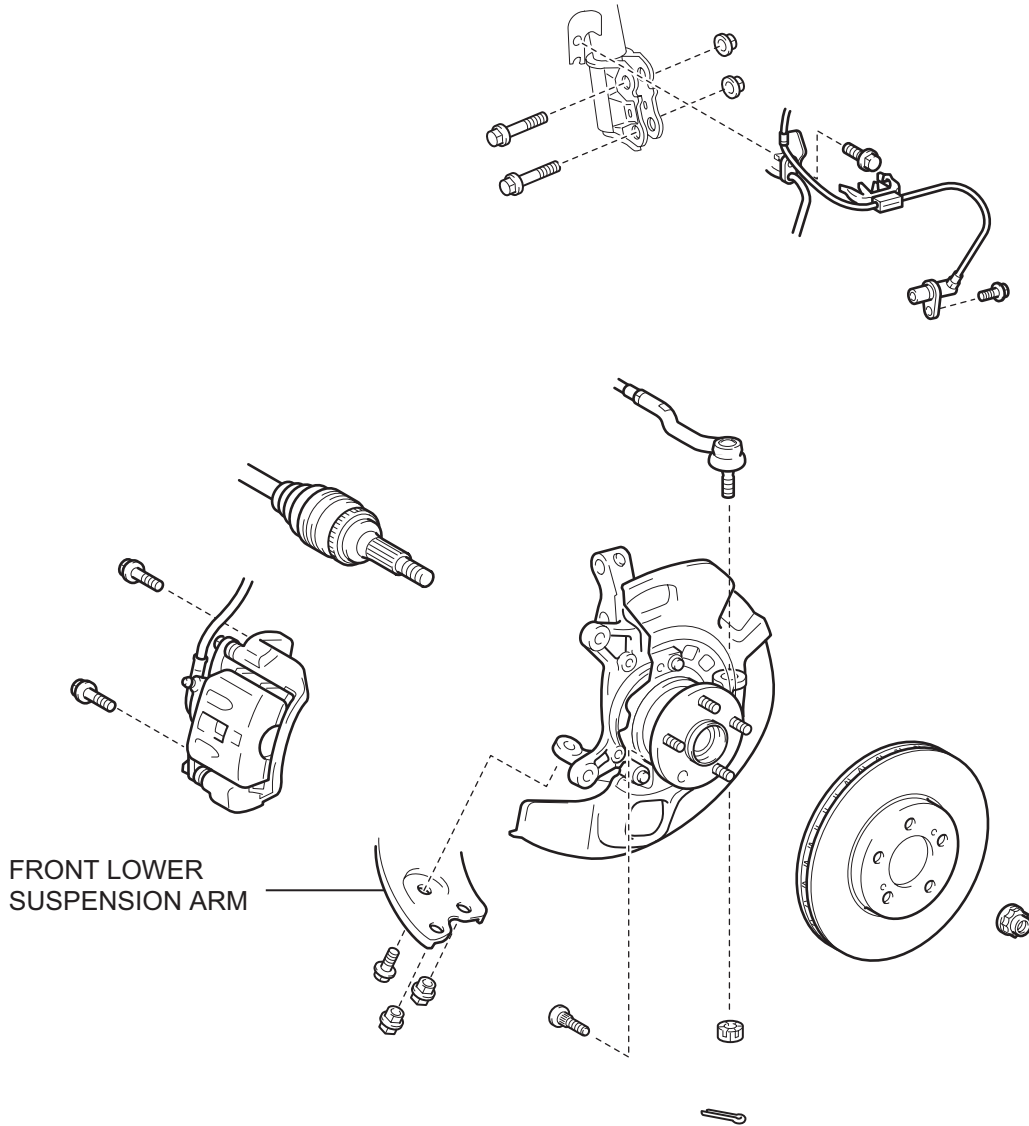
### CAUTION:

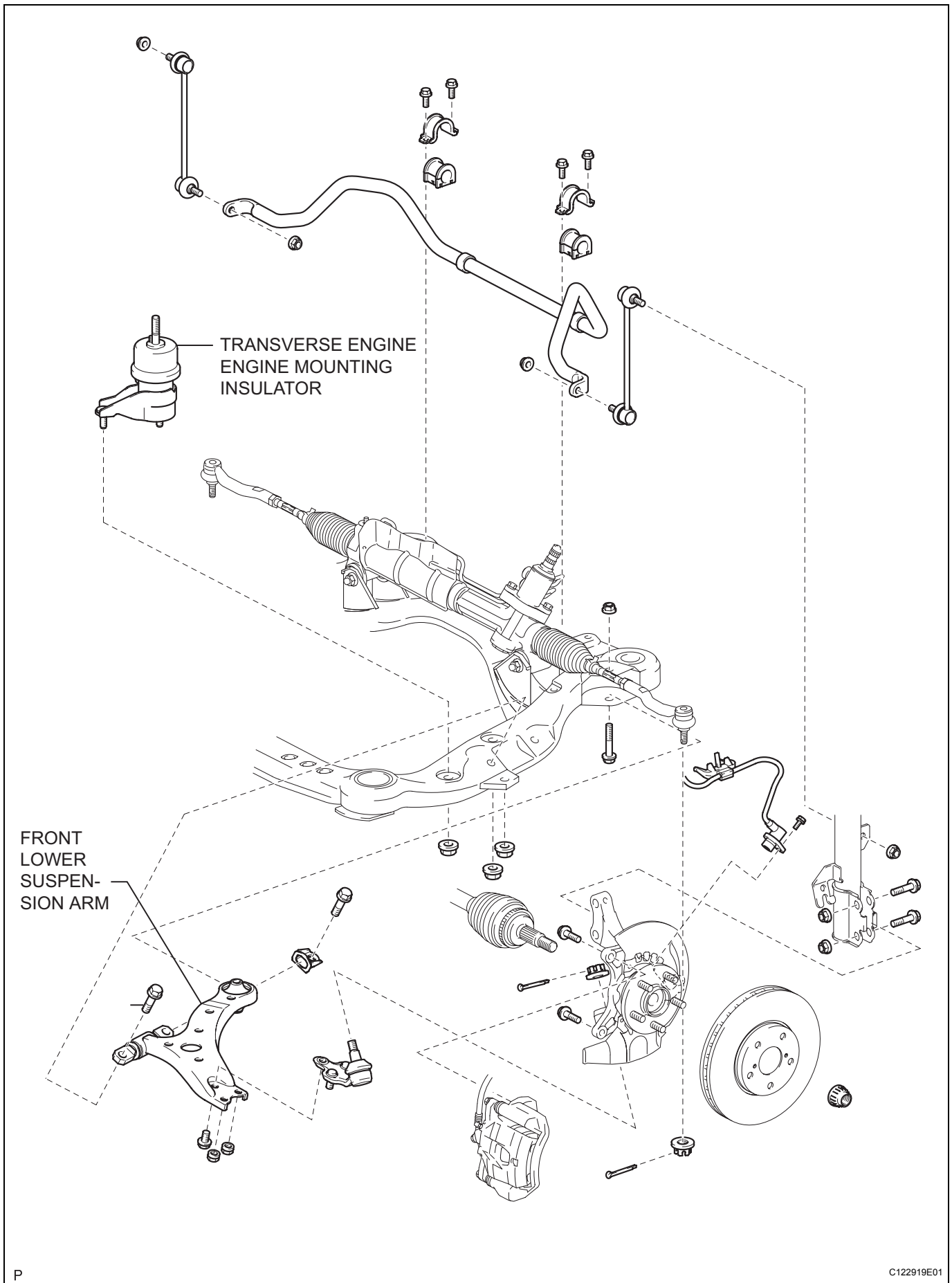
- **Be careful when drilling because shards of metal may fly about, so always use the proper safety equipment.**
- **The gas is colorless, odorless and non-poisonous.**



# FRONT LOWER SUSPENSION ARM

## COMPONENTS





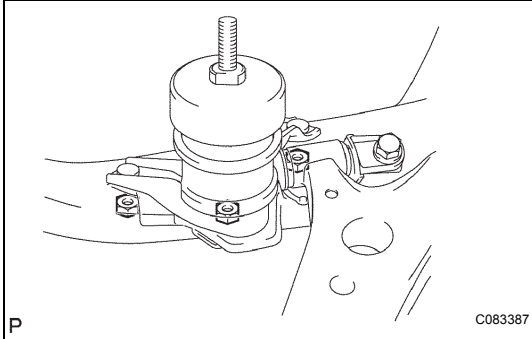
## REMOVAL

### HINT:

- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.

### 1. REMOVE ENGINE ASSEMBLY WITH TRANSAXLE

- Remove the engine assembly with transaxle (See page [EM-27](#)).

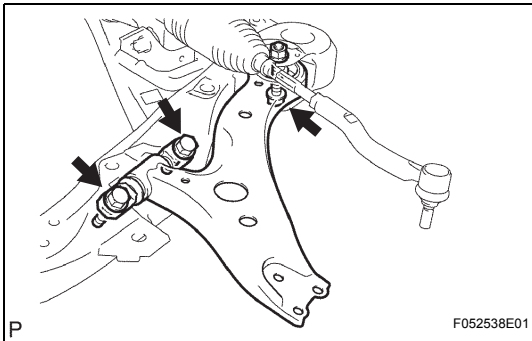


### 2. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

- Remove the 3 nuts and transverse engine mounting insulator.

### 3. REMOVE FRONT LOWER SUSPENSION ARM

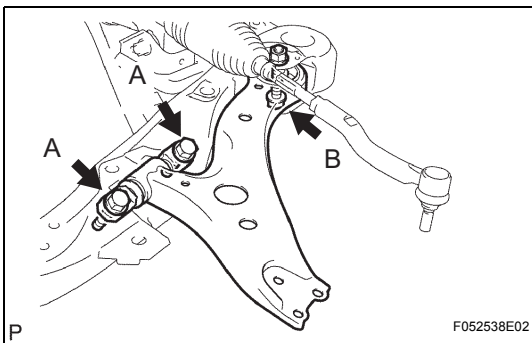
- Remove the 2 bolts on the front side of the front suspension arm sub-assembly lower No. 1 LH.
- Remove the bolt and nut on the rear side of the front suspension arm sub-assembly lower No. 1 LH.
- Remove the front suspension arm sub-assembly lower No. 1 LH.
- Remove the front lower arm bush stopper from the front suspension arm sub-assembly lower No. 1 LH.



## INSTALLATION

### 1. INSTALL FRONT LOWER SUSPENSION ARM

- Install the front lower arm bush stopper to the front suspension arm sub-assembly lower No. 1 LH.
- Install the 2 bolts on the front side of the front suspension arm sub-assembly lower No. 1 LH.  
**Torque: 200 N\*m (2,040 kgf\*cm, 148 ft.\*lbf) bolt (A)**
- Install the bolt and nut on the rear side of the front suspension arm sub-assembly lower No. 1 LH.  
**Torque: 206 N\*m (2,100 kgf\*cm, 152 ft.\*lbf) bolt (B)**

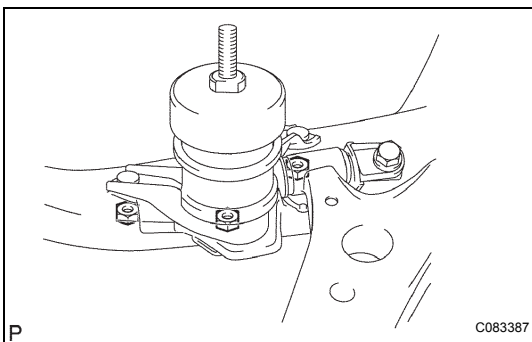


### 2. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

- Install the transverse engine mounting insulator with the 3 nuts.

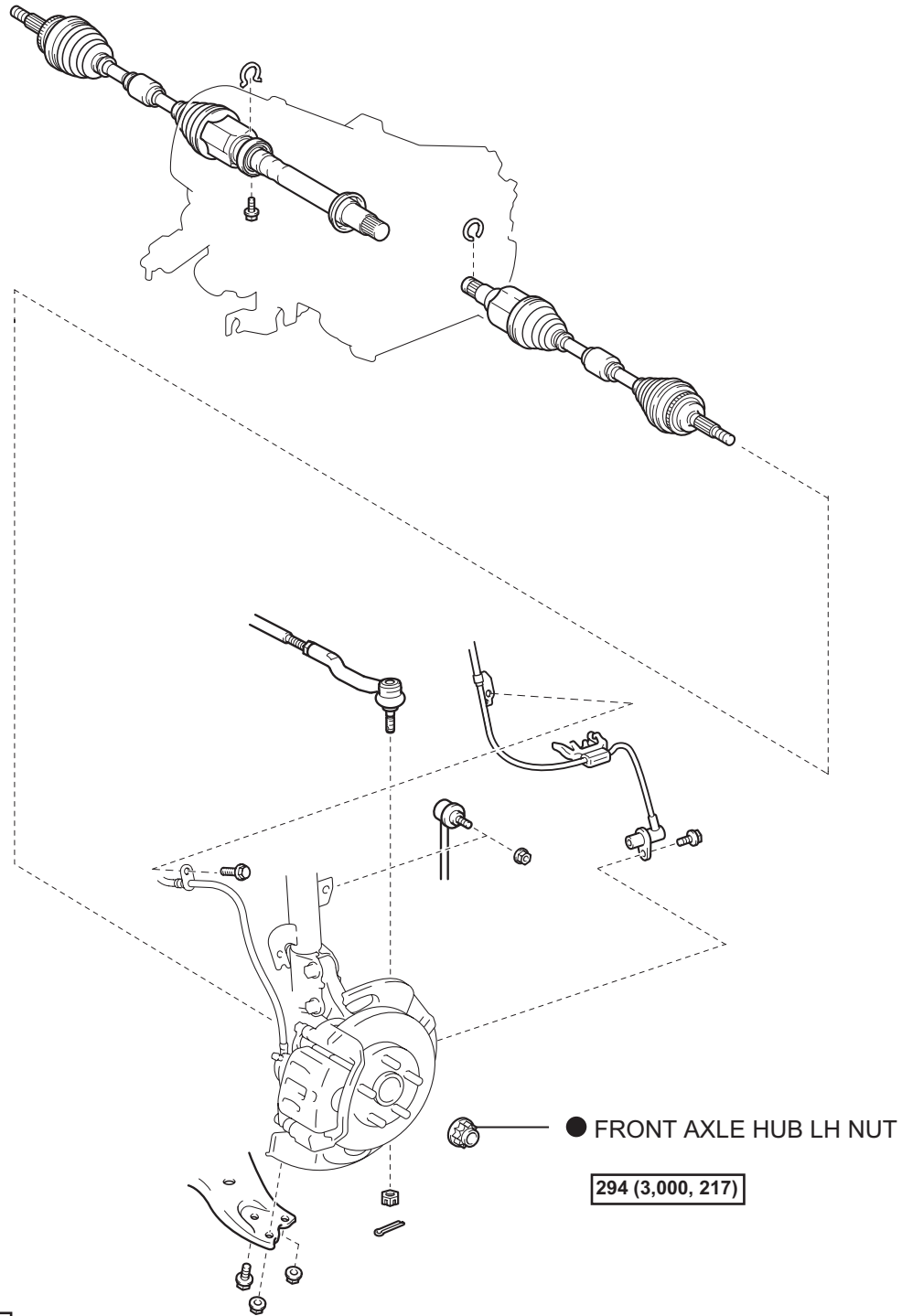
### 3. INSTALL ENGINE ASSEMBLY WITH TRANSAXLE

- Install the engine assembly with transaxle (See page [EM-37](#)).



# FRONT LOWER BALL JOINT

## COMPONENTS

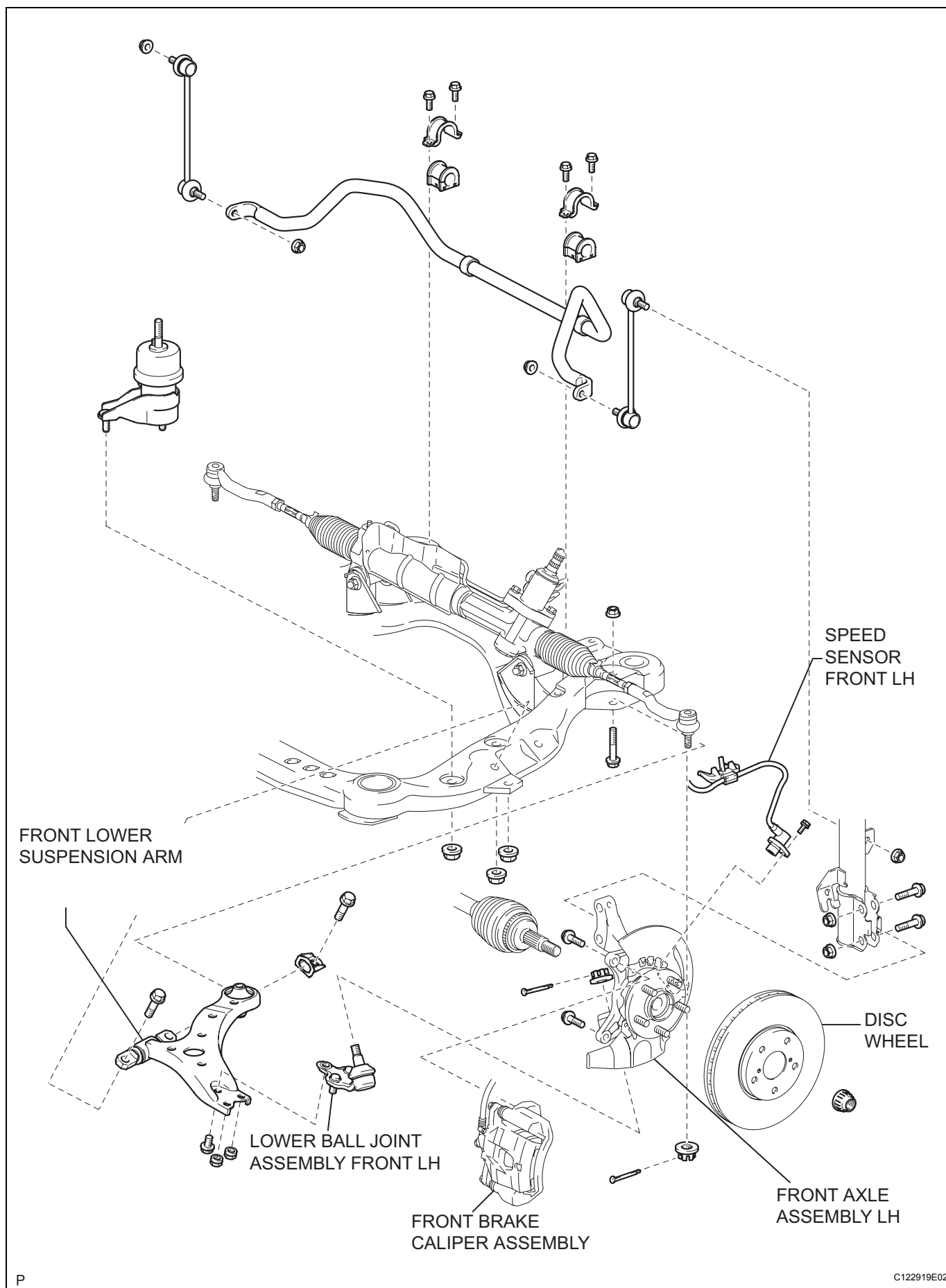


SP

**N\*m (kgf\*cm, ft.\*lbf)** : Specified torque

● Non-reusable part

P



SP

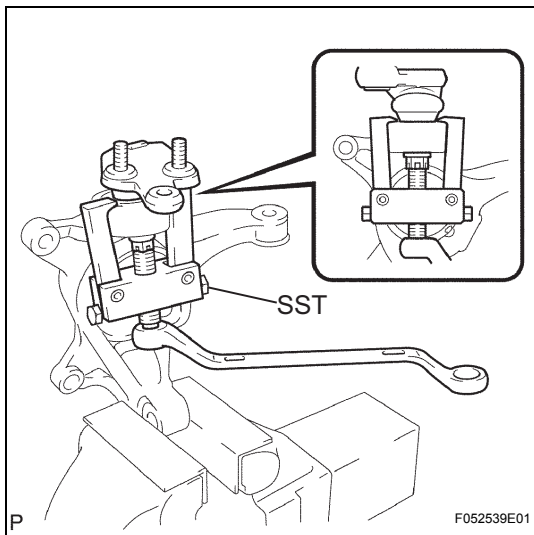


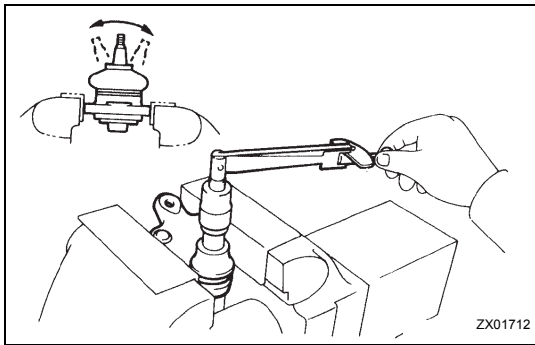
## REMOVAL

### HINT:

- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.

- 1. REMOVE FRONT WHEEL**
- 2. REMOVE FRONT AXLE HUB LH NUT**
  - (a) Remove the front axle hub LH nut (See page [DS-5](#)).  
**SST 09930-00010**
- 3. SEPARATE SPEED SENSOR FRONT LH**
  - (a) Separate the speed sensor front LH (See page [DS-5](#)).
- 4. SEPARATE FRONT DISC BRAKE CALIPER ASSEMBLY LH**
  - (a) Separate the front disc the brake caliper assembly LH (See page [BR-25](#)).
- 5. REMOVE DISC WHEEL**
- 6. SEPARATE TIE ROD ASSEMBLY LH**
  - (a) Separate the tie rod assembly LH (See page [DS-5](#)).  
**SST 09628-62011**
- 7. SEPARATE FRONT LOWER SUSPENSION ARM**
  - (a) Separate the front lower suspension arm (See page [SP-21](#)).
- 8. REMOVE FRONT AXLE ASSEMBLY LH**
  - (a) Remove the front axle assembly LH (See page [AH-6](#)).
- 9. REMOVE LOWER BALL JOINT ASSEMBLY FRONT LH**
  - (a) Remove the cotter pin and castle nut.
  - (b) Using SST, remove the lower ball joint assembly front LH.  
**SST 09628-62011**





## INSPECTION

### 1. INSPECT LOWER BALL JOINT ASSEMBLY FRONT LH

- (a) Secure the lower ball joint assembly front LH in a vise.
- (b) Install the nut to the stud bolt.
- (c) Flip the ball joint back and forth 5 times or more.
- (d) Use a torque wrench to turn the nut continuously at a rate of 3 to 5 seconds per 1 turn. Take the torque reading on the 5th turn.

#### **Torque: Turning torque**

**0.98 to 3.43 N\*m (10 to 35 kgf\*cm, 8.7 to 30 in.\*lbf)**

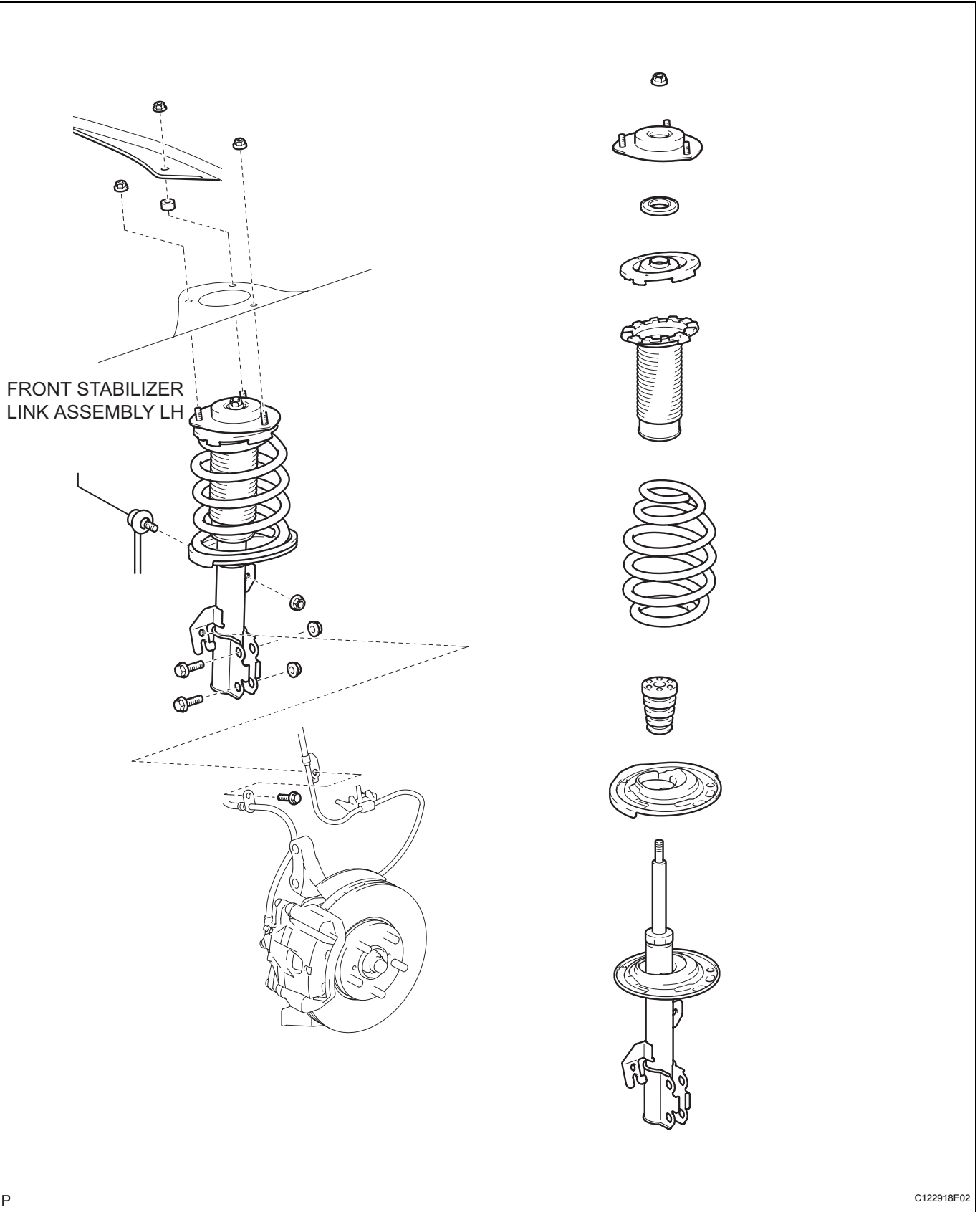
If the value is not within the specification, replace the lower ball joint assembly with a new one.

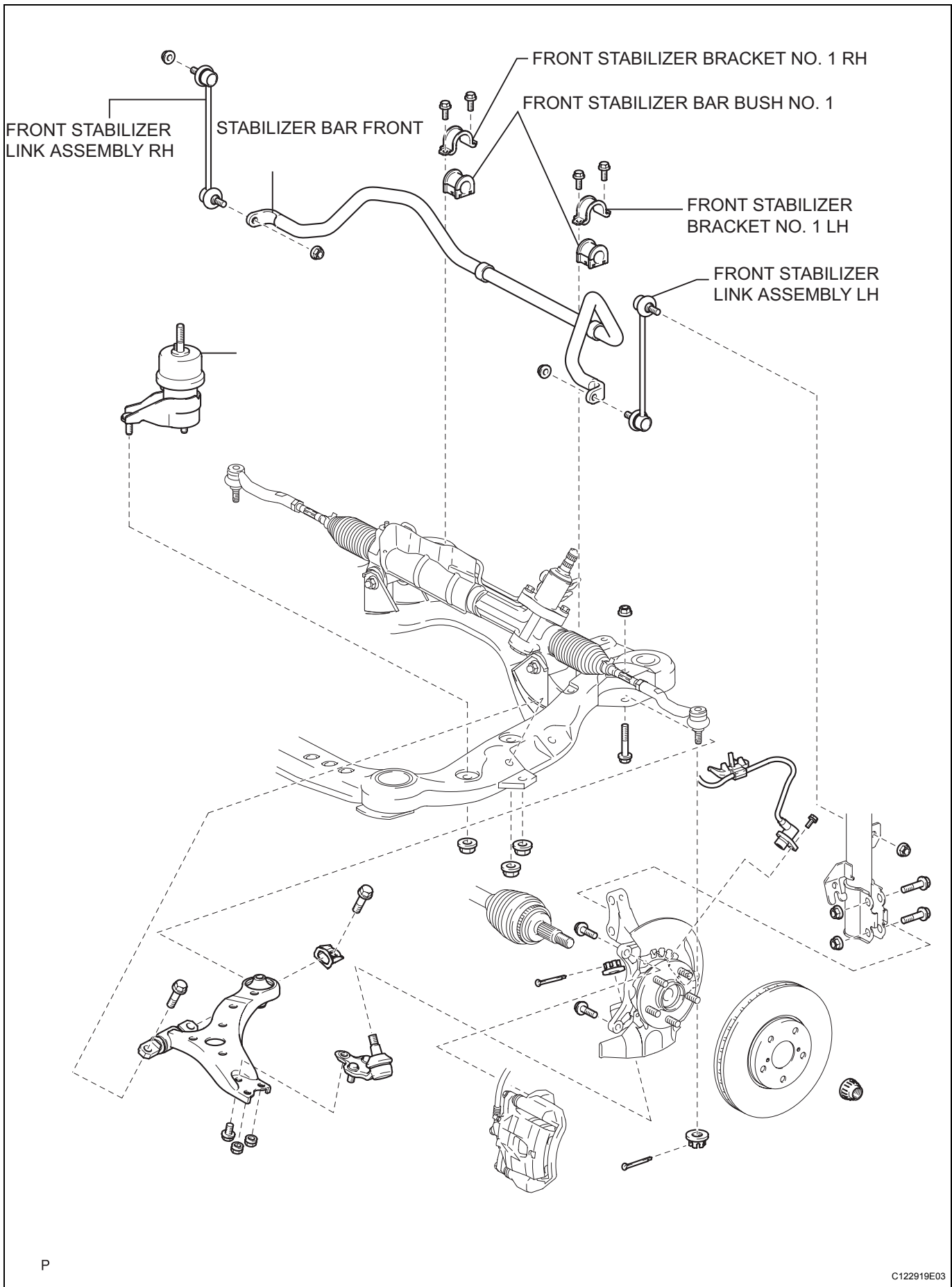
## INSTALLATION

1. **INSTALL LOWER BALL JOINT ASSEMBLY FRONT LH**
  - (a) Install the lower ball joint assembly front LH to the steering knuckle with the castle nut.  
**Torque: 123 N\*m (1,250 kgf\*cm, 91 ft.\*lbf)**
  - (b) Install a new cotter pin to the steering knuckle.  
**NOTICE:**  
**Further tighten the nut up to 60° if the holes for the cotter pin are not aligned.**
2. **INSTALL FRONT AXLE ASSEMBLY LH**
  - (a) Install the front axle assembly LH (See page [AH-10](#)).
3. **INSTALL FRONT LOWER SUSPENSION ARM**
  - (a) Install the front lower suspension arm (See page [SP-21](#)).
4. **INSTALL TIE ROD ASSEMBLY LH**
  - (a) Install the tie rod assembly LH (See page [DS-13](#)).
5. **INSTALL DISC WHEEL**
6. **INSTALL FRONT DISC BRAKE CALIPER ASSEMBLY LH**
  - (a) Install the front disc brake caliper assembly LH (See page [BR-29](#)).
7. **INSTALL SPEED SENSOR FRONT LH**
  - (a) Install the speed sensor front LH (See page [DS-13](#)).
8. **INSTALL FRONT AXLE HUB LH NUT**
  - (a) Install the front axle hub LH nut (See page [DS-13](#)).
9. **INSTALL FRONT WHEEL**  
**Torque: 103 N\*m (1,050 kgf\*cm, 76 ft.\*lbf)**
10. **INSPECT AND ADJUST FRONT WHEEL ALIGNMENT**
  - (a) Inspect and adjust the front wheel alignment (See page [SP-4](#)).
11. **INSPECT ABS SPEED SENSOR SIGNAL**  
with VSC (See page [BC-107](#))  
without VSC (See page [BC-11](#))

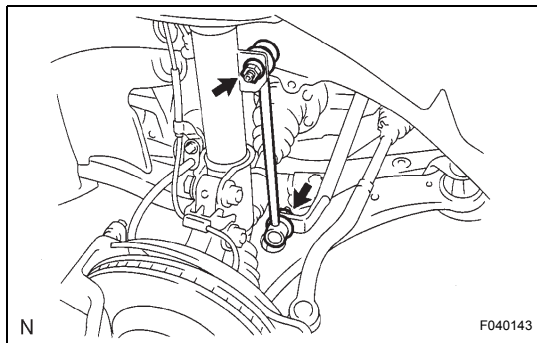
# FRONT STABILIZER BAR

## COMPONENTS





## REMOVAL



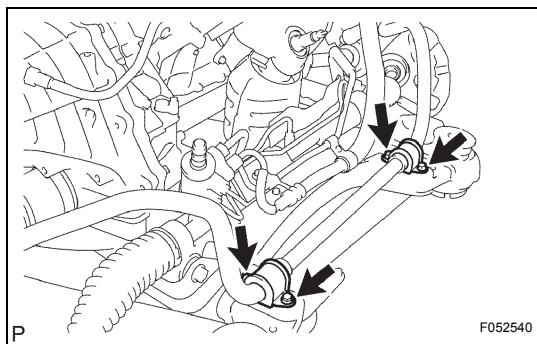
1. **REMOVE FRONT WHEEL**
2. **REMOVE FRONT STABILIZER LINK ASSEMBLY LH**
  - (a) Remove the 2 nuts and front stabilizer link assembly LH.

HINT:  
Use a hexagon (6 mm) wrench to hold the stud if the ball joint turns together with the nut.

3. **REMOVE FRONT STABILIZER LINK ASSEMBLY RH**

HINT:  
Remove the RH side following the same procedures as with the LH side.

4. **REMOVE ENGINE ASSEMBLY WITH TRANSAXLE**
  - (a) Remove the engine assembly with transaxle (See page [EM-27](#)).



5. **REMOVE FRONT STABILIZER BRACKET NO. 1 LH**
  - (a) Remove the 2 bolts and stabilizer bracket No. 1 LH.
6. **REMOVE FRONT STABILIZER BRACKET NO. 1 RH**

HINT:  
Remove the RH side following the same procedures as with the LH side.

7. **REMOVE FRONT STABILIZER BAR BUSH NO. 1**
  - (a) Remove the 2 bushes from the stabilizer.

8. **REMOVE STABILIZER BAR FRONT**
  - (a) Remove the stabilizer bar front from the vehicle.

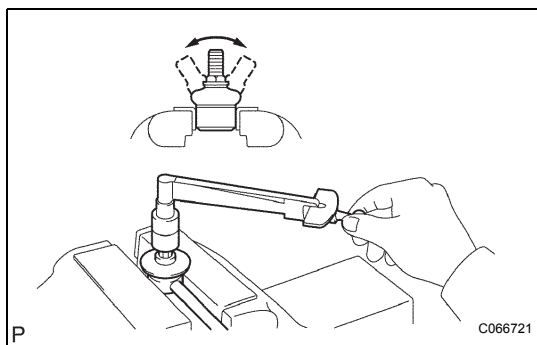
## INSPECTION

1. **INSPECT FRONT STABILIZER LINK ASSEMBLY**
  - (a) Secure the front stabilizer link assembly LH in a vise.
  - (b) Install the nut to the stud bolt.
  - (c) Flip the ball joint back and forth 5 times or more.
  - (d) Use a torque wrench to turn the nut continuously at a rate of 2 to 4 seconds per 1 turn. Take the torque reading on the 5th turn.

**Torque: Turning torque**

**0.05 to 1.96 N\*m (0.5 to 20 kgf\*cm, 0.4 to 17.4 in.\*lbf)**

If the value is not within the specification, replace the front stabilizer link assembly with a new one.



## INSTALLATION

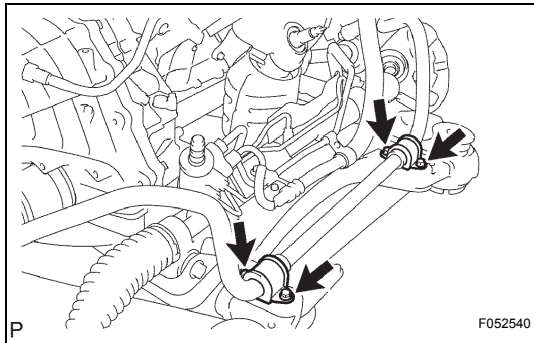
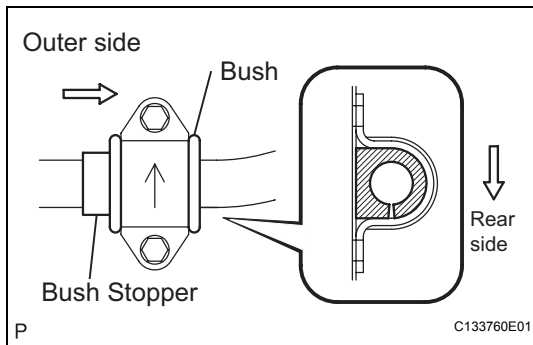
### 1. INSTALL STABILIZER BAR FRONT

- (a) Install the stabilizer bar front to the vehicle.

### 2. INSTALL FRONT STABILIZER BAR BUSH NO. 1

#### HINT:

- Install the bushes as to the outer side of the each bush stopper on the stabilizer bar.
- Place the cutout of the stabilizer bushes as facing the rear side as shown in the illustration.



### 3. INSTALL FRONT STABILIZER BRACKET NO. 1 LH

- (a) Install the front stabilizer bracket No. 1 LH with the 2 bolts.

**Torque: 19 N\*m (194 kgf\*cm, 14 ft.\*lbf)**

### 4. INSTALL FRONT STABILIZER BRACKET NO. 1 RH

#### HINT:

Install the RH side following the same procedures as with the LH side.

### 5. INSTALL ENGINE ASSEMBLY WITH TRANSAXLE

- (a) Install the engine assembly with transaxle (See page [EM-37](#)).

### 6. INSTALL FRONT STABILIZER LINK ASSEMBLY LH

- (a) Install the front stabilizer link assembly LH with the 2 nuts.

**Torque: 74 N\*m (755 kgf\*cm, 55 ft.\*lbf)**

#### HINT:

Use a hexagon (6 mm) wrench to hold the stud if the ball joint turns together with the nut.

### 7. INSTALL FRONT STABILIZER LINK ASSEMBLY RH

#### HINT:

Install the RH side following the same procedures as with the LH side.

### 8. INSTALL FRONT WHEEL

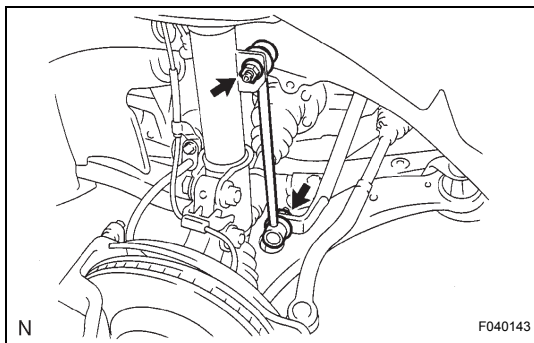
**Torque: 103 N\*m (1,050 kgf\*cm, 76 ft.\*lbf)**

### 9. BLEED POWER STEERING FLUID

- (a) Bleed the power steering fluid (See page [PS-3](#)).

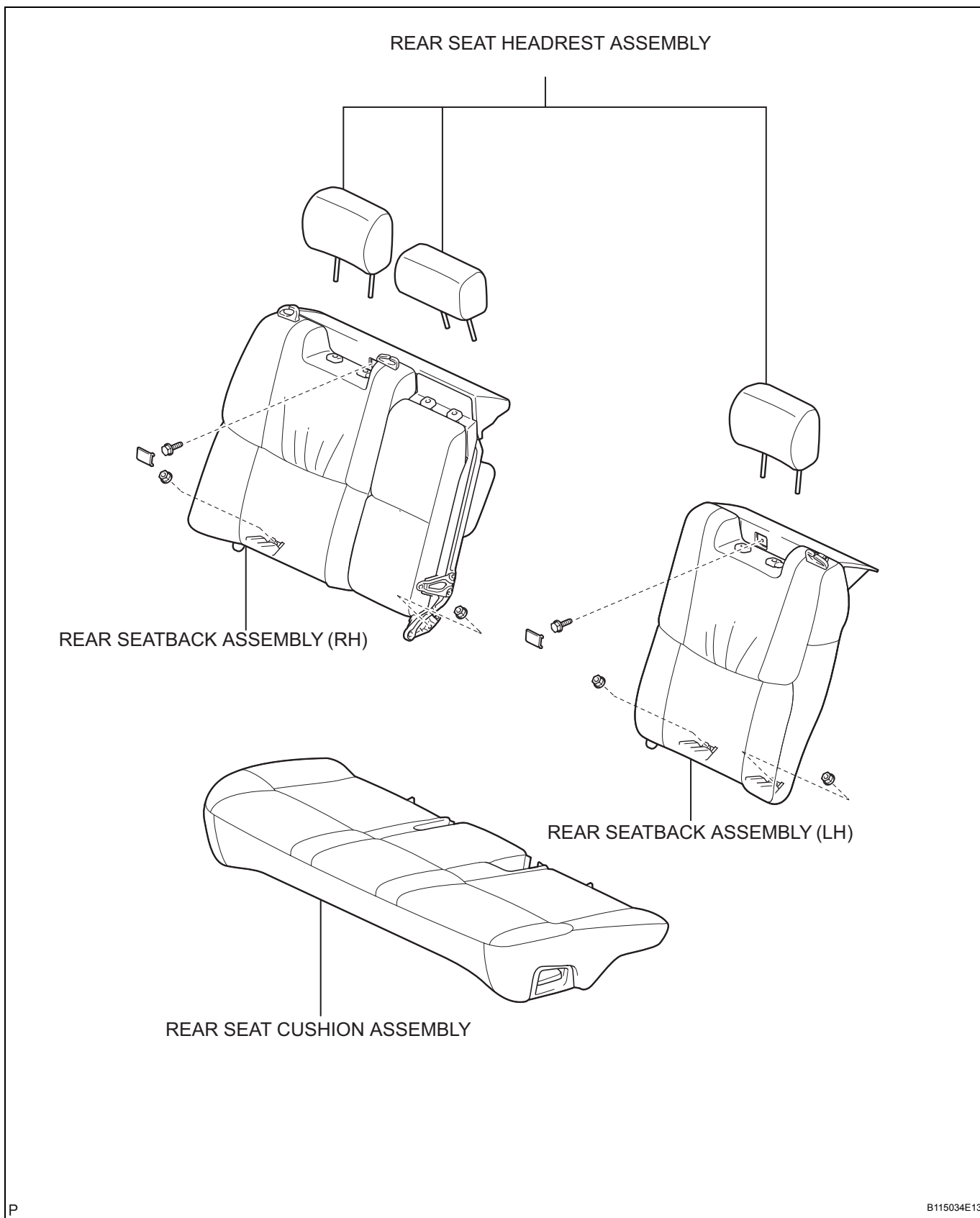
### 10. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT

- (a) Inspect and adjust the front wheel alignment (See page [SP-4](#)).

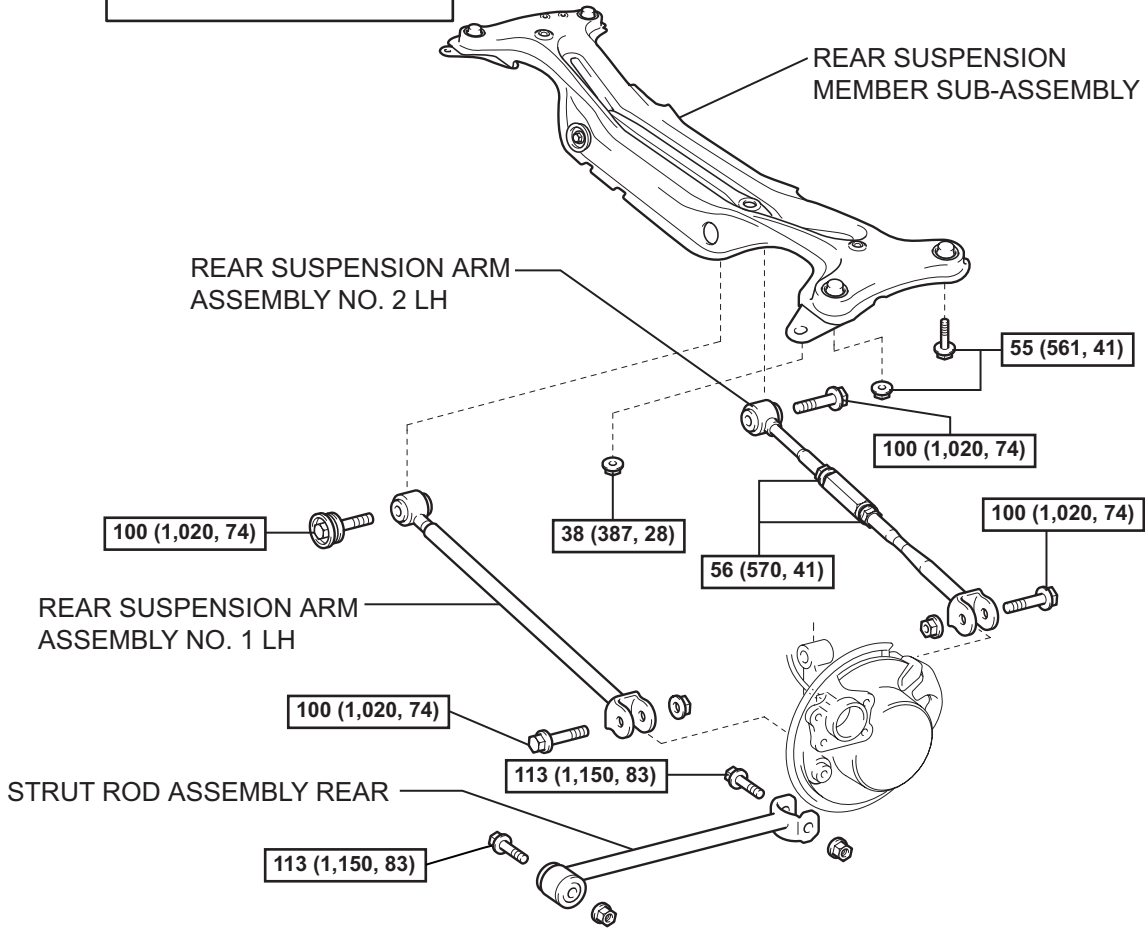
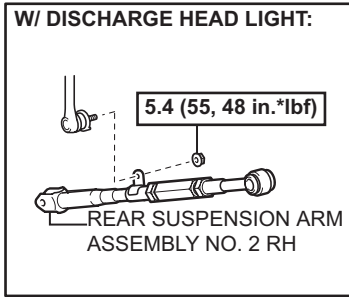


# REAR SHOCK ABSORBER WITH COIL SPRING

## COMPONENTS







N\*m (kgf\*cm, ft.\*lbf) : Specified torque

● Non-reusable part

P

SP



## REMOVAL

### HINT:

- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.

#### 1. REMOVE REAR SEAT CUSHION ASSEMBLY

- (a) Remove the rear seat cushion assembly (See page [SE-68](#)).

#### 2. REMOVE REAR SEAT HEADREST PLATE COVER LH

#### 3. REMOVE REAR SEAT HEADREST ASSEMBLY

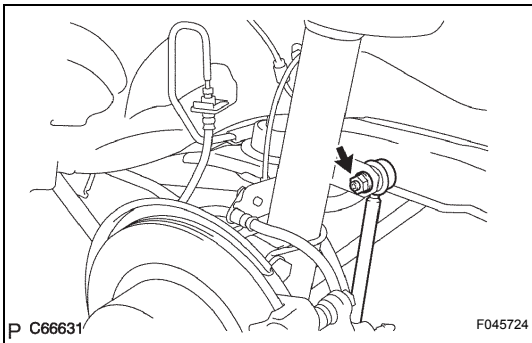
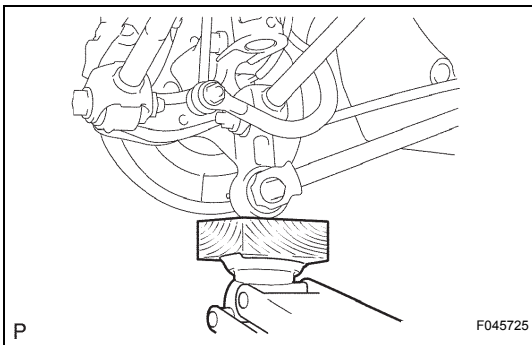
#### 4. REMOVE REAR SEATBACK ASSEMBLY

- (a) Remove the rear seatback assembly (See page [SE-68](#)).

#### 5. REMOVE REAR WHEEL

#### 6. SEPARATE REAR STABILIZER LINK ASSEMBLY LH

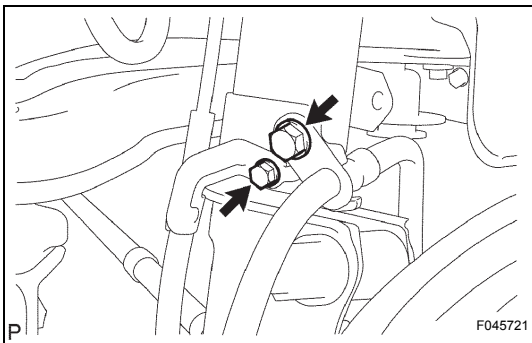
- (a) Support the rear axle carrier with a jack.



- (b) Remove the nut, and disconnect the stabilizer link from the shock absorber.

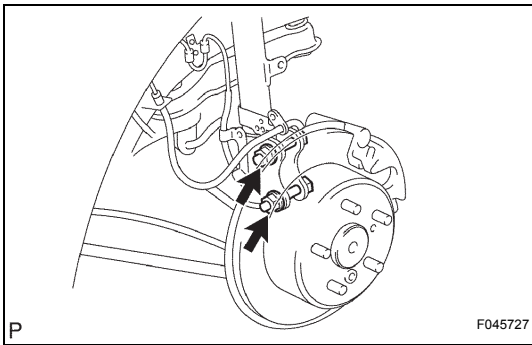
### HINT:

If the ball joint turns together with the nut, use a hexagon wrench (5 mm) to hold the stud.



#### 7. DISCONNECT FLEXIBLE HOSE

- (a) Remove the 2 bolts, and disconnect the flexible hose and skid control sensor wire from the shock absorber.



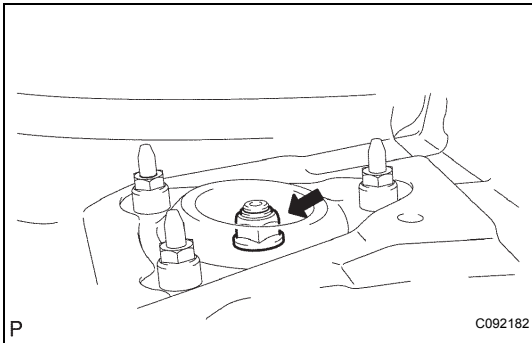
## 8. REMOVE REAR SHOCK ABSORBER WITH COIL SPRING

- (a) Loosen the 2 nuts on the lower side of the shock absorber.

HINT:

Do not remove the 2 bolts and 2 nuts.

- (b) Remove the rear suspension support No. 1 cover LH.



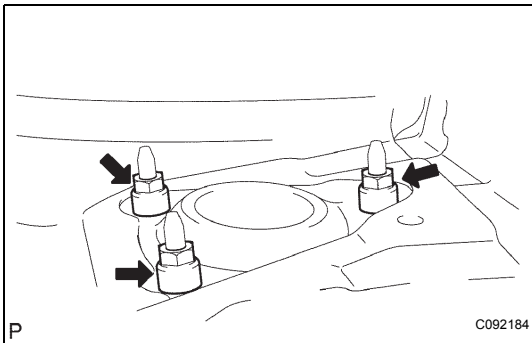
- (c) Loosen the LH support suspension center nut.

**NOTICE:**

**Do not remove the nut.**

HINT:

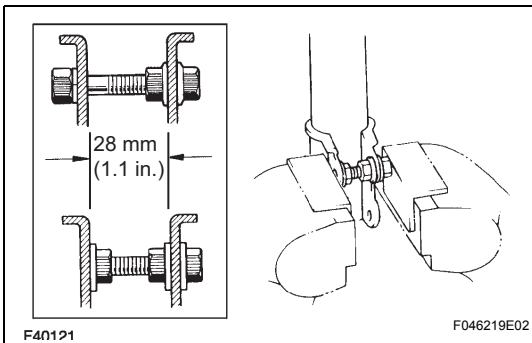
It is not necessary to loosen the nut if the shock absorber is not being disassembled.



- (d) Remove the 3 nuts.

- (e) Lower the rear axle carrier, and remove the 2 nuts and 2 bolts on the lower side of the shock absorber.

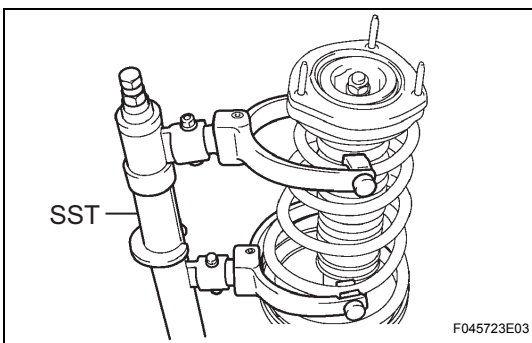
- (f) Remove the shock absorber with coil spring.



## DISASSEMBLY

### 1. FIX REAR SHOCK ABSORBER WITH COIL SPRING

- (a) Install the 2 nuts and bolt to the bracket at the lower part of the shock absorber, and secure it in a vise as shown in the illustration to the left.



### 2. REMOVE REAR SHOCK ABSORBER

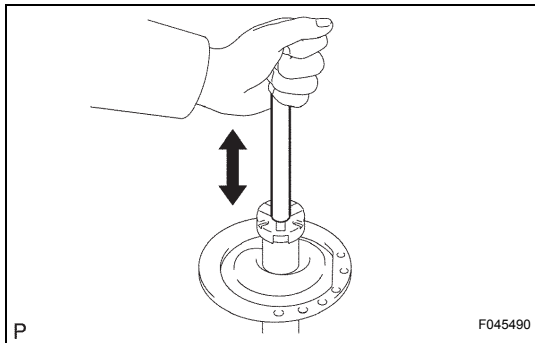
- (a) Using SST, compress the coil spring.

**SST 09727-30021**

**NOTICE:**

**Do not use an impact wrench. It will damage the SST.**

- (b) Remove the nut, collar and LH support suspension.
- (c) Remove the coil spring, spring bumper and insulator lower.



## INSPECTION

### 1. INSPECT REAR SHOCK ABSORBER

- (a) Compress and extend the shock absorber rod, and check that there is no abnormal resistance or unusual sound.

If there is any abnormality, replace the shock absorber with a new one.

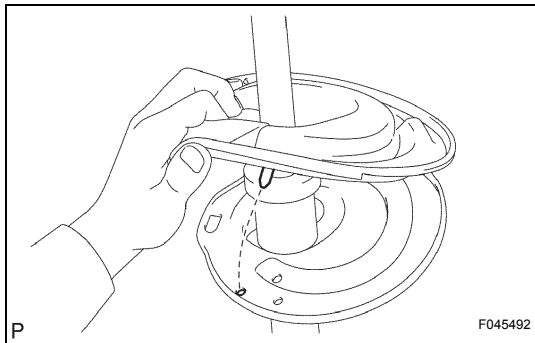
**NOTICE:**

**When disposing of the shock absorber, see DISPOSAL (See page SP-38).**

## REASSEMBLY

### 1. INSTALL REAR SHOCK ABSORBER

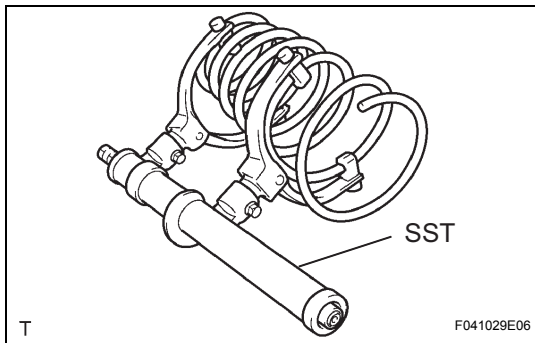
- (a) Install the insulator lower, as shown in the illustration.  
 (b) Install the spring bumper.



- (c) Using SST, compress the coil spring.

**NOTICE:**

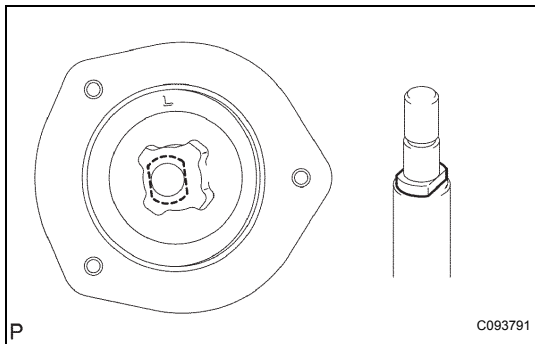
**Do not use an impact wrench. It will damage the SST.**



- (d) Install the coil spring to the shock absorber.

**HINT:**

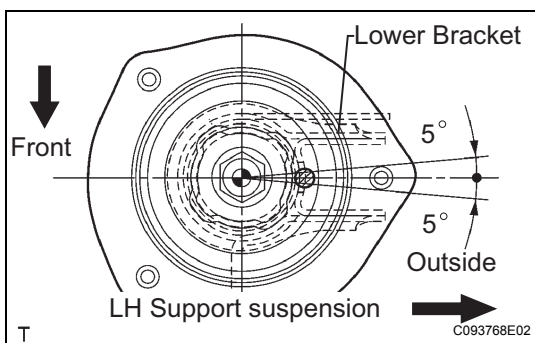
- Fit the lower end of the coil spring into the gap of the lower seat.
- Check that the 2 flat faces of the piston rod are positioned in parallel with the 2 flat faces of the LH support suspension.

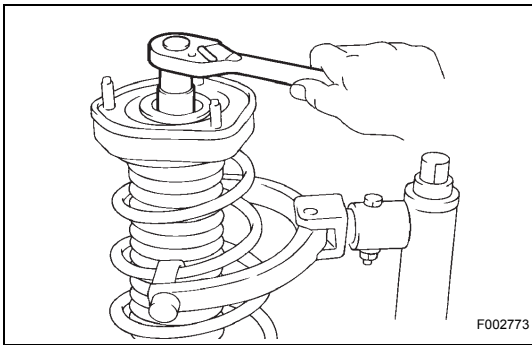


- (e) Align the LH support suspension with the shock absorber lower bracket, as shown in the illustration.

**HINT:**

Set the LH support suspension so that the protruding part of the LH support suspension faces outside.





- (f) Install the collar to the piston rod.
- (g) Temporarily install a new nut.
- (h) Remove the SST.

**SST 09727-30021**

**HINT:**

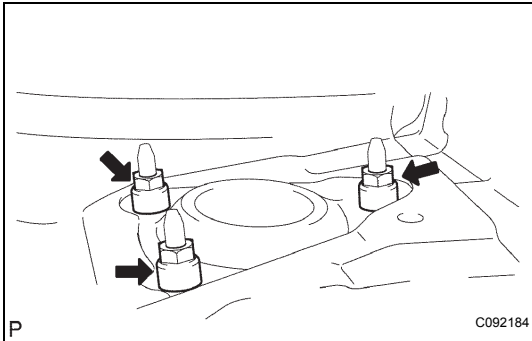
After removing the SST, recheck the direction of the LH support suspension.

## INSTALLATION

### 1. INSTALL REAR SHOCK ABSORBER WITH COIL SPRING

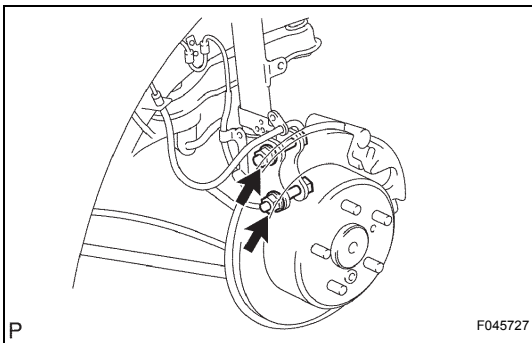
- (a) Install the shock absorber with coil spring and tighten the 3 nuts.

**Torque: 39 N\*m (400 kgf\*cm, 29 ft.\*lbf)**



- (b) Install the 2 bolts and 2 nuts to the shock absorber with coil spring.

**Torque: 255 N\*m (2,600 kgf\*cm, 188 ft.\*lbf)**



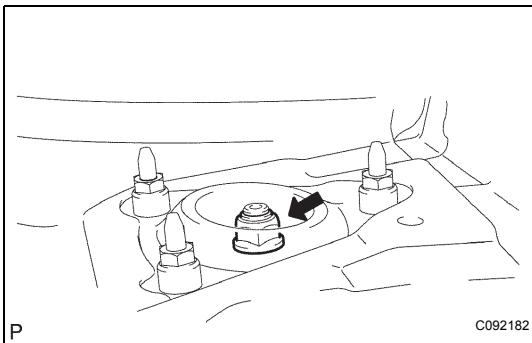
- (c) Fully tighten the nut installed on the top of the shock absorber with coil spring.

**Torque: 49 N\*m (500 kgf\*cm, 36 ft.\*lbf)**

**HINT:**

If the shock absorber has not been disassembled, it is not necessary to torque the nut.

- (d) Install the rear suspension support No. 1 cover LH.



### 2. INSTALL FLEXIBLE HOSE

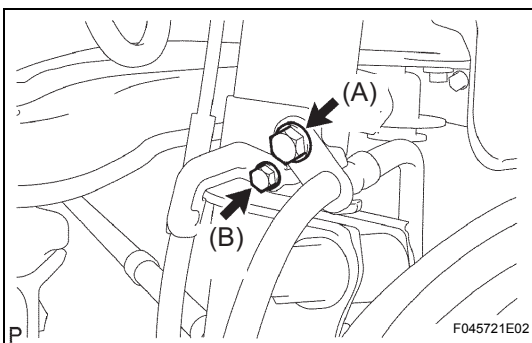
- (a) Install the flexible hose and skid control sensor wire with the 2 bolts.

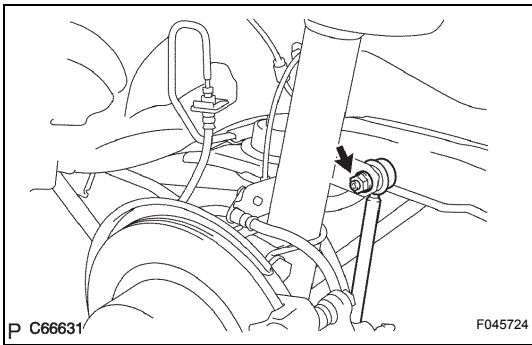
**Torque: Bolt A**

**19 N\*m (195 kgf\*cm, 14 ft.\*lbf)**

**Bolt B**

**5.5 N\*m (56 kgf\*cm, 49 in.\*lbf)**





### 3. INSTALL REAR STABILIZER LINK ASSEMBLY LH

- (a) Install the stabilizer link to the shock absorber with the nut.

**Torque: 39 N\*m (400 kgf\*cm, 29 ft.\*lbf)**

**HINT:**

If the ball joint turns together with the nut, use a hexagon wrench (5 mm) to hold the stud.

### 4. INSTALL REAR WHEEL

**Torque: 103 N\*m (1,050 kgf\*cm, 76 ft.\*lbf)**

### 5. INSPECT AND ADJUST REAR WHEEL ALIGNMENT

- (a) Inspect and adjust the rear wheel alignment (See page [SP-11](#)).

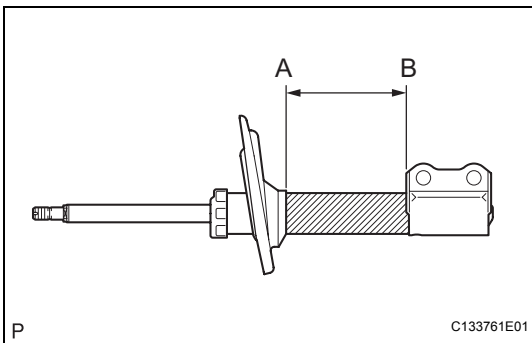
## DISPOSAL

### 1. DISPOSE OF REAR SHOCK ABSORBER

- (a) Fully extend the shock absorber rod.  
 (b) Using a drill, make a hole in the cylinder somewhere between A and B as shown in the illustration to discharge the gas inside.

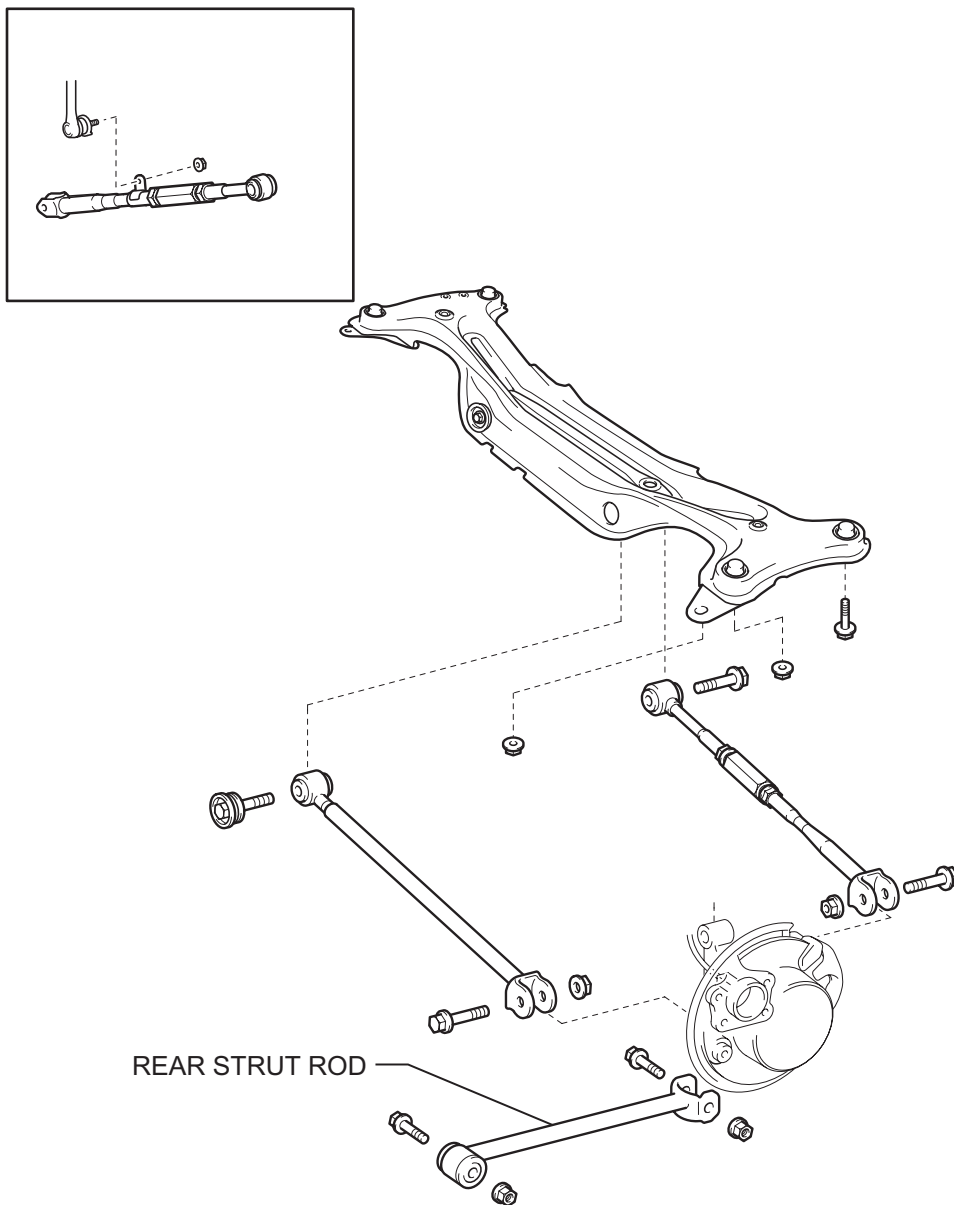
**CAUTION:**

- **Be careful when drilling because shards of metal may fly about, so always use the proper safety equipment.**
- **The gas is colorless, odorless and non-poisonous.**



# REAR STRUT ROD

## COMPONENTS



REAR STRUT ROD

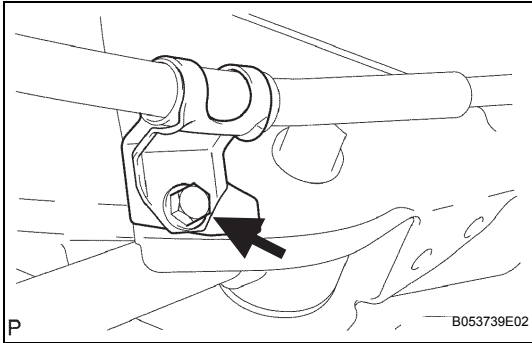
SP



## REMOVAL

1. REMOVE REAR WHEEL
2. REMOVE REAR STRUT ROD

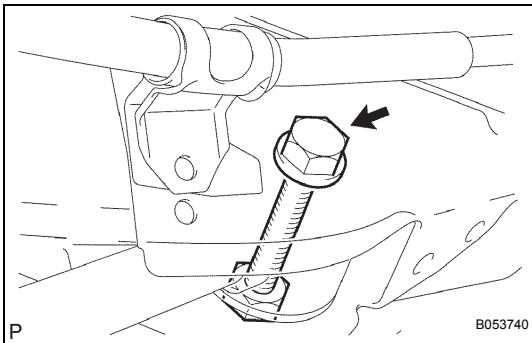
(a) Remove the bolt and separate the parking brake cable.



(b) Remove the bolt and nut and disconnect the strut rod (front side).

**NOTICE:**

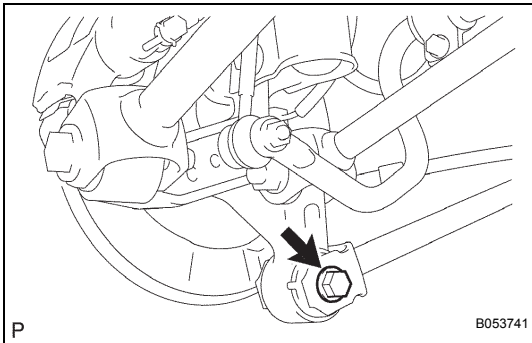
**When removing the bolt, keep the nut from rotating.**



(c) Remove the bolt, nut and strut rod from the rear axle carrier.

**NOTICE:**

**When removing the bolt, keep the nut from rotating.**



## INSTALLATION

1. TEMPORARILY TIGHTEN REAR STRUT ROD

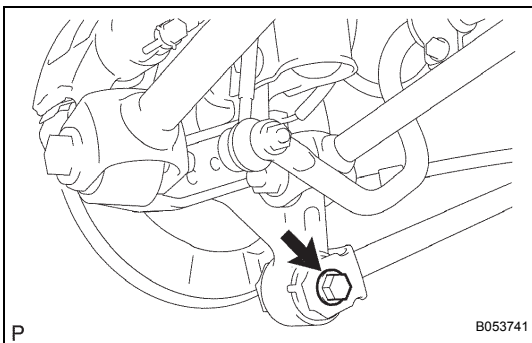
(a) Install the strut rod (rear side), bolt and nut, and temporarily tighten the bolt.

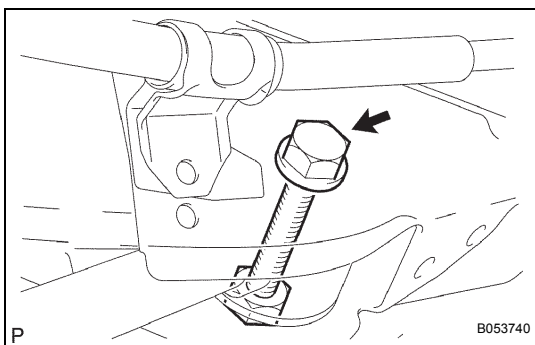
**NOTICE:**

**When installing the bolt, fix the nut and temporarily tighten the bolt.**

**HINT:**

Insert the bolt from the inner side of the vehicle and temporarily install the bolt.

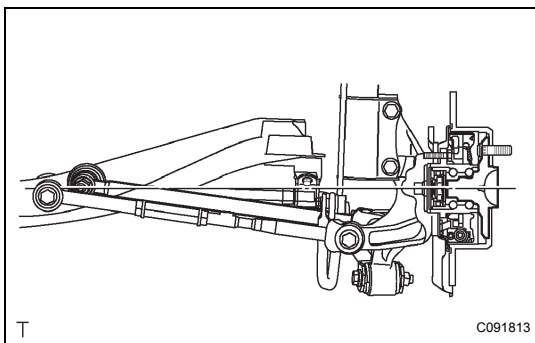




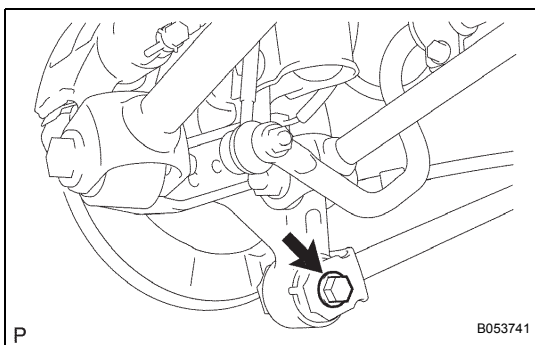
- (b) Connect the strut rod (front side) with the bolt and nut.

**NOTICE:**

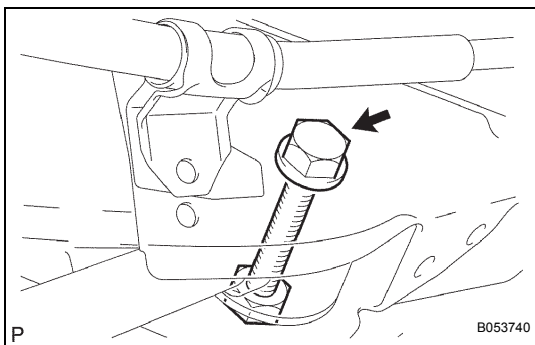
**When installing the bolt, fix the nut and temporarily tighten the bolt.**

**2. STABILIZE SUSPENSION**

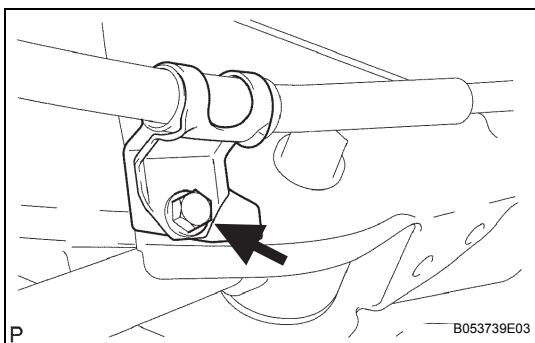
- (a) Jack up the rear axle carrier, placing a wooden block to avoid damage. Apply a load to the suspension so that the installed bolt of the suspension arm assembly No. 1 (inner side of the vehicle) is horizontally aligned with the center of the rear axle hub.

**3. FULLY TIGHTEN REAR STRUT ROD**

- (a) Fully tighten the bolt.  
**Torque: 113 N\*m (1,150 kgf\*cm, 83 ft.\*lbf)**  
**NOTICE:**  
**When installing the bolt, fix the nut and tighten the bolt.**



- (b) Fully tighten the bolt.  
**Torque: 113 N\*m (1,150 kgf\*cm, 83 ft.\*lbf)**  
**NOTICE:**  
**When installing the bolt, fix the nut and tighten the bolt.**



- (c) Install the parking brake cable with the bolt.  
**Torque: 6.0 N\*m (61 kgf\*cm, 53 in.\*lbf)**

**4. INSTALL REAR WHEEL**

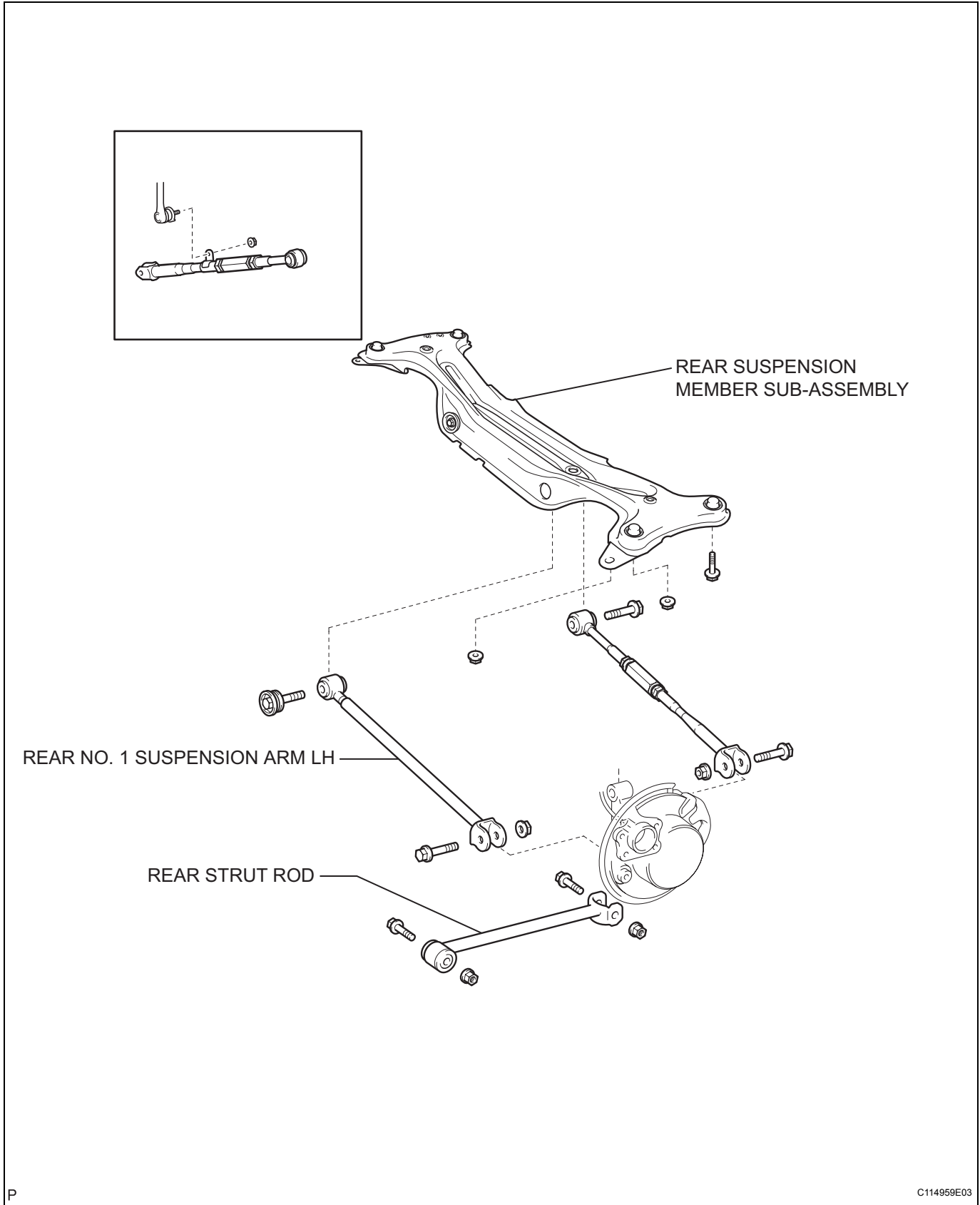
**Torque: 103 N\*m (1,050 kgf\*cm, 6 ft.\*lbf)**

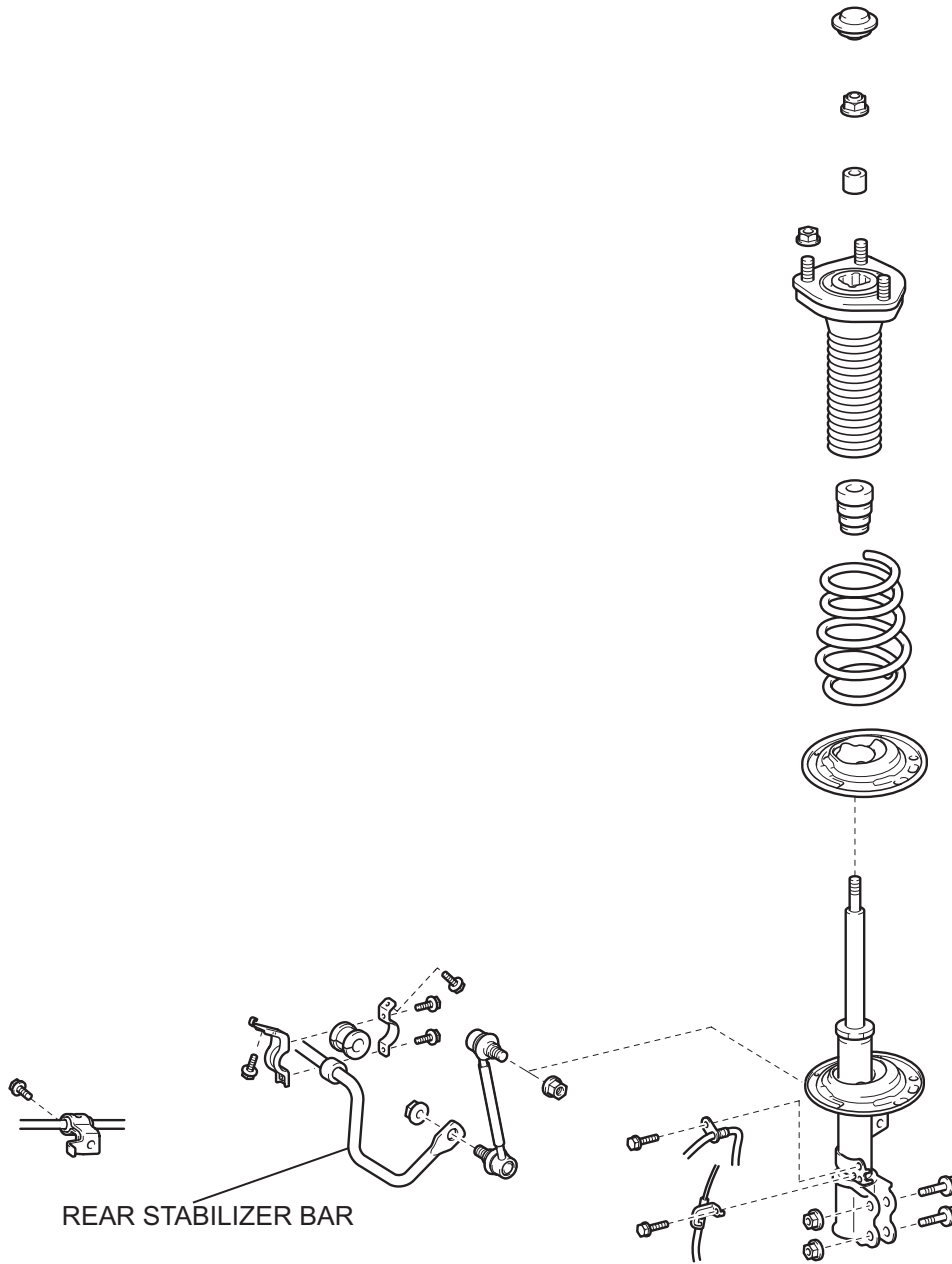
**5. INSPECT AND ADJUST REAR WHEEL ALIGNMENT**

- (a) Inspect and adjust the rear wheel alignment (See page [SP-11](#)).

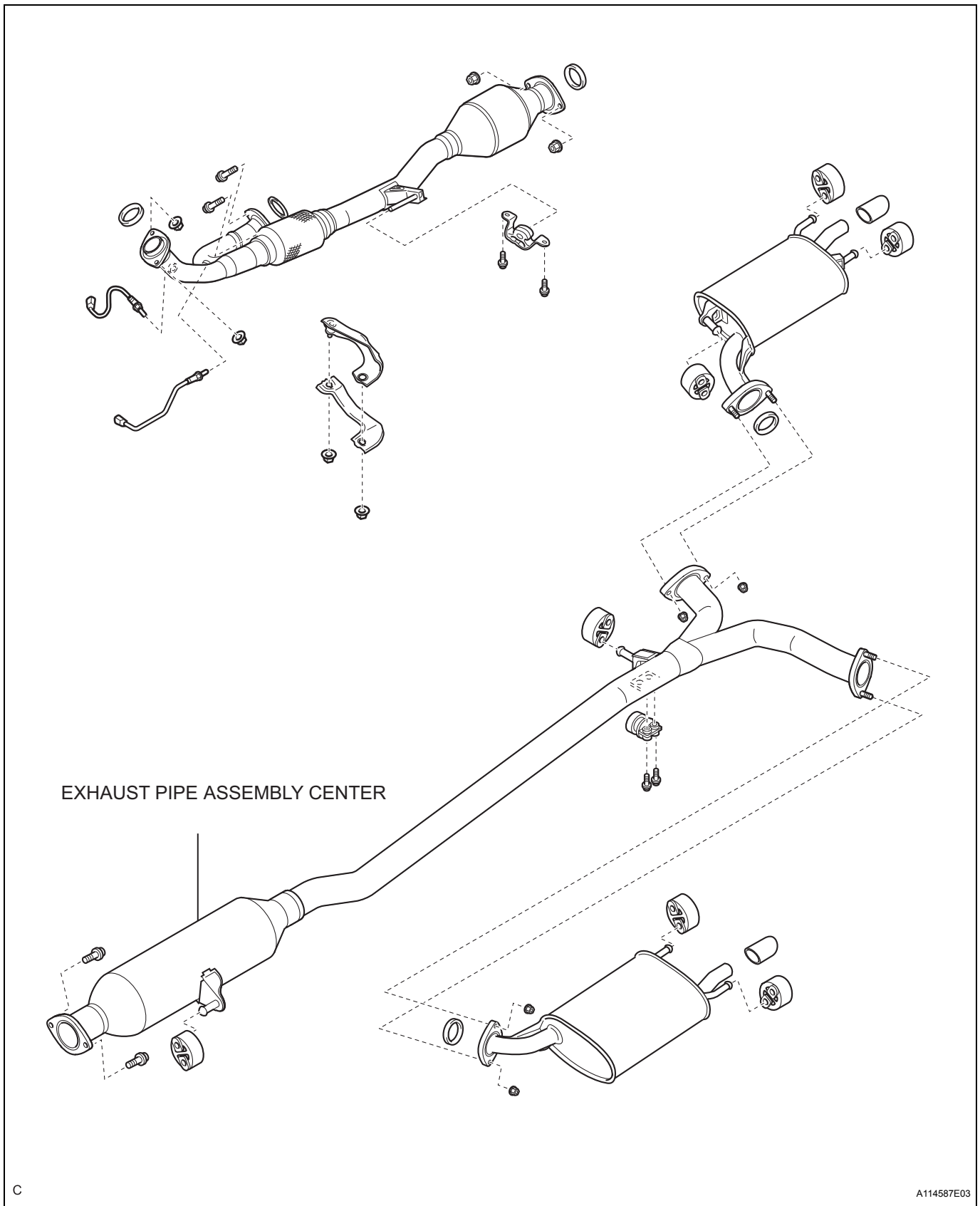
# REAR NO. 1 SUSPENSION ARM

## COMPONENTS





SP



## REMOVAL

### HINT:

- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.

#### 1. REMOVE REAR WHEEL

#### 2. REMOVE EXHAUST PIPE ASSEMBLY CENTER

- (a) Remove the exhaust pipe assembly center (See page [EX-2](#)).

#### 3. REMOVE REAR STABILIZER BAR

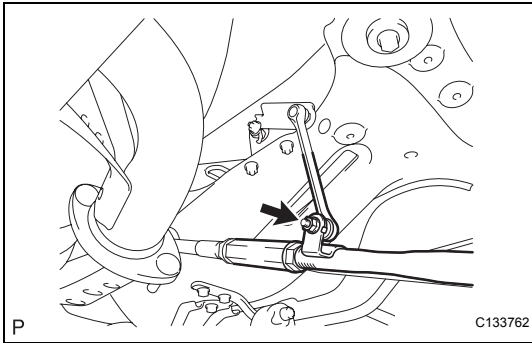
- (a) Remove the rear stabilizer bar (See page [SP-56](#)).

#### 4. REMOVE REAR STRUT ROD

- (a) Remove the rear strut rod (See page [SP-40](#)).

#### 5. SEPARATE HEIGHT CONTROL SENSOR SUB-ASSEMBLY REAR RH (WITH DISCHARGE HEAD LIGHT)

- (a) The height control sensor sub-assembly rear (with discharge head light) is on the RH side only. Remove the nut, and separate the height control sensor sub-assembly rear RH.

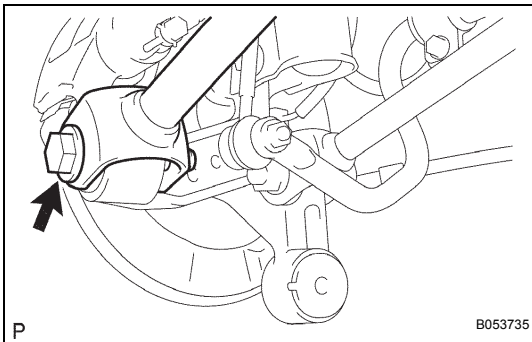


#### 6. SEPARATE REAR NO. 2 SUSPENSION ARM LH

- (a) Remove the bolt, nut and the rear suspension arm No. 2 (outer side) from the rear axle carrier.

### NOTICE:

**When removing the bolt, keep the nut from rotating.**



#### 7. SEPARATE REAR NO. 2 SUSPENSION ARM RH

### HINT:

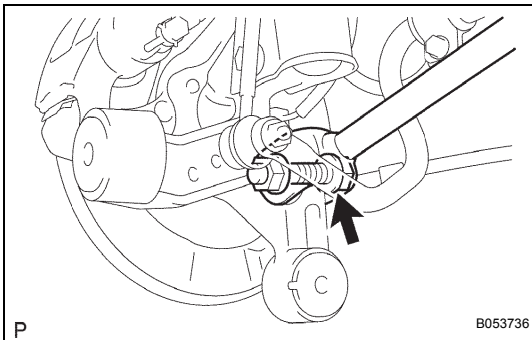
Separate the RH side using the same procedures as for the LH side.

#### 8. SEPARATE REAR NO. 1 SUSPENSION ARM LH

- (a) Remove the bolt, nut and the rear suspension arm No. 1 (outer side) from the rear axle carrier.

### NOTICE:

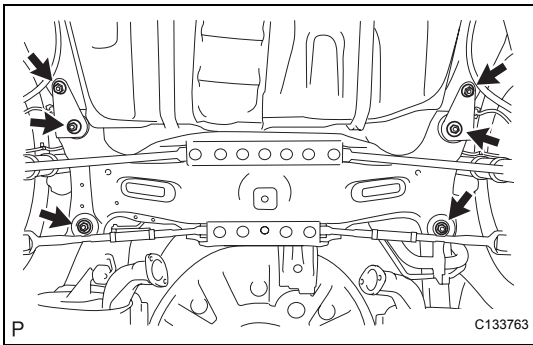
**When removing the bolt, keep the nut from rotating.**



#### 9. SEPARATE REAR NO. 1 SUSPENSION ARM RH

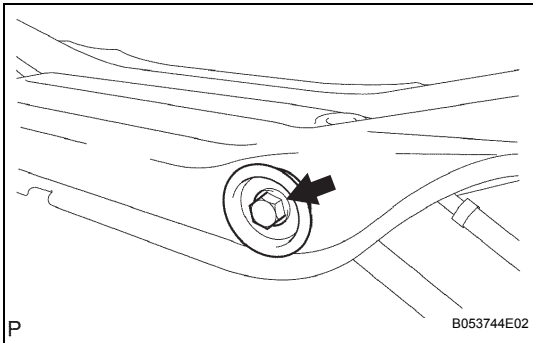
### HINT:

Separate the RH side using the same procedures as for the LH side.



**10. REMOVE REAR SUSPENSION MEMBER SUB-ASSEMBLY**

- (a) Support the rear suspension member with a jack.
- (b) Remove the 4 nuts, 2 bolts and 4 retainers from the rear suspension member.
- (c) Lower the rear suspension member.



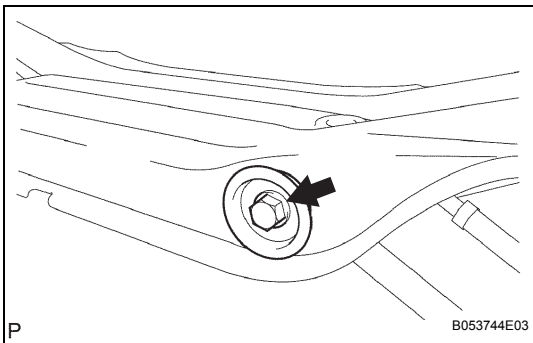
**11. REMOVE REAR NO. 1 SUSPENSION ARM**

- (a) Remove the bolt and rear suspension arm No. 1.

**INSTALLATION**

**1. INSTALL REAR NO. 1 SUSPENSION ARM**

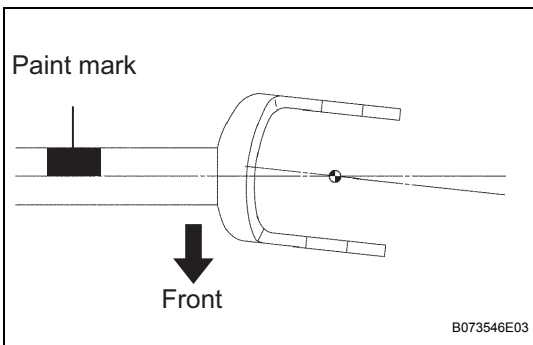
- (a) Install the rear suspension arm No.1 with the bolt, and temporarily tighten the bolt.



- (b) Install the rear suspension arm No.1 with the bolt, and temporarily tighten the bolt.

**HINT:**

- Install the rear suspension arm No. 1 so that the bracket leans toward the front side of the vehicle, as shown in the illustration.
- Ensure that the paint mark faces the rear side of the vehicle.

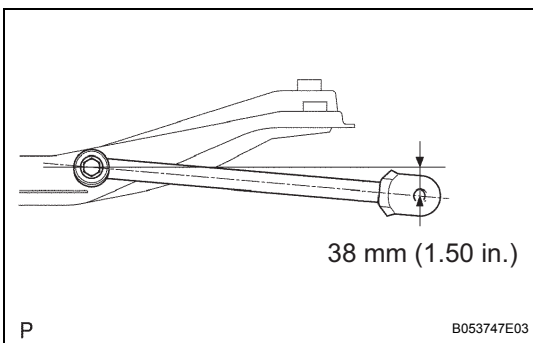


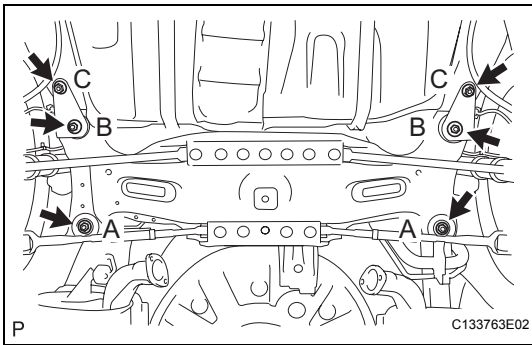
- (c) Set the rear suspension arm No. 1 in the position shown in the illustration, and fully tighten the bolt.

**Torque: 100 N\*m (1,020 kgf\*cm, 74 ft.\*lbf)**

**2. INSTALL REAR SUSPENSION MEMBER SUB-ASSEMBLY**

- (a) Raise the rear suspension member with a jack.





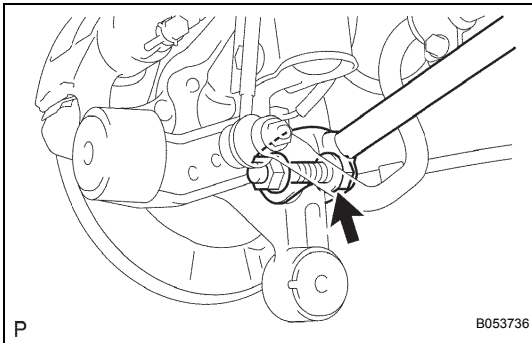
- (b) Install the rear suspension member with the 4 nuts, 2 bolts and 4 retainers.

**Torque: A, B**

**55 N\*m (561 kgf\*cm, 41 ft.\*lbf)**

**C**

**38 N\*m (387 kgf\*cm, 28 ft.\*lbf)**



### 3. TEMPORARILY TIGHTEN REAR NO. 1 SUSPENSION ARM LH

- (a) Connect the rear suspension arm No. 1 (outer side) to the rear axle carrier with the bolt and nut and temporarily tighten the bolt and nut.

**HINT:**

Insert the bolt from the front side of the vehicle and temporarily install it.

### 4. TEMPORARILY TIGHTEN REAR NO. 1 SUSPENSION ARM RH

**HINT:**

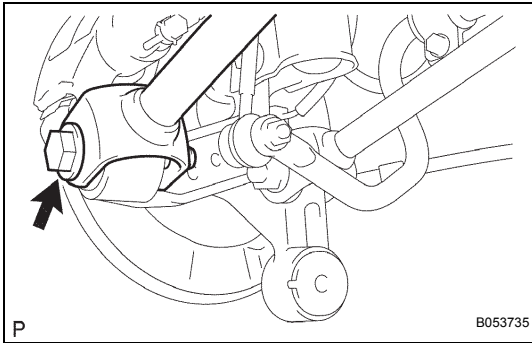
Temporarily tighten the RH side using the same procedures as for the LH side.

### 5. TEMPORARILY TIGHTEN REAR NO. 2 SUSPENSION ARM LH

- (a) Connect the rear suspension arm No. 2 (outer side) to the rear axle carrier with the bolt and nut and temporarily tighten the bolt.

**HINT:**

Insert the bolt from the rear side of the vehicle and temporarily install it.



### 6. TEMPORARILY TIGHTEN REAR NO. 2 SUSPENSION ARM RH

**HINT:**

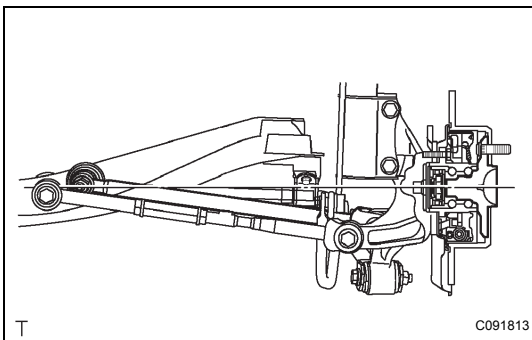
Temporarily tighten the RH side using the same procedures as for the LH side.

### 7. TEMPORARILY TIGHTEN REAR STRUT ROD

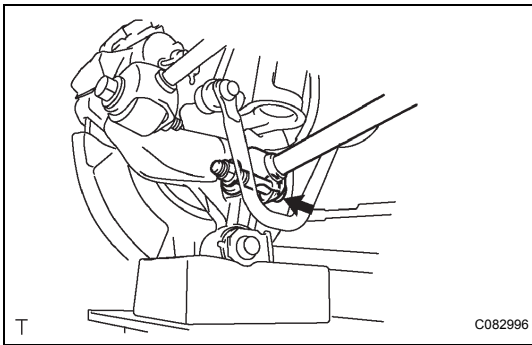
- (a) Temporarily tighten the rear strut rod (See page [SP-40](#)).

### 8. STABILIZE SUSPENSION

- (a) Jack up the rear axle carrier, placing a wooden block to avoid damage. Apply a load to the suspension so that the installed bolt of the suspension arm assembly No. 1 (inner side of the vehicle) is horizontally aligned with the center of the rear axle hub.







**9. FULLY TIGHTEN REAR NO. 1 SUSPENSION ARM LH**

- (a) Fully tighten the bolt.

**Torque: 100 N\*m (1,020 kgf\*cm, 74 ft.\*lbf)**

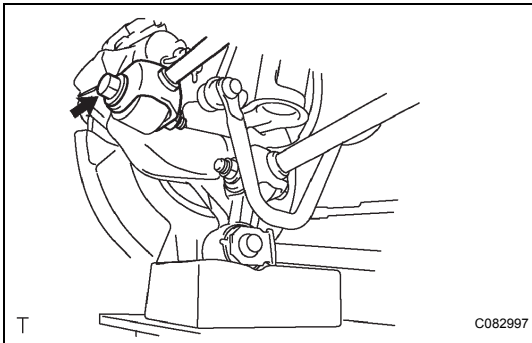
**NOTICE:**

**When installing the bolt, fix the nut and tighten the bolt.**

**10. FULLY TIGHTEN REAR NO. 1 SUSPENSION ARM RH**

- HINT:**

Fully tighten the RH side using the same procedures as for the LH side.



**11. FULLY TIGHTEN REAR NO. 2 SUSPENSION ARM LH**

- (a) Fully tighten the bolt.

**Torque: 100 N\*m (1,020 kgf\*cm, 74 ft.\*lbf)**

**NOTICE:**

**When installing the bolt, fix the nut and tighten the bolt.**

**12. FULLY TIGHTEN REAR NO. 2 SUSPENSION ARM RH**

- HINT:**

Fully tighten the RH side using the same procedures as for the LH side.

**13. FULLY TIGHTEN REAR STRUT ROD**

- (a) Fully tighten the rear strut rod (See page [SP-40](#)).

**14. INSTALL REAR STABILIZER BAR**

- (a) Install the rear stabilizer bar (See page [SP-56](#)).

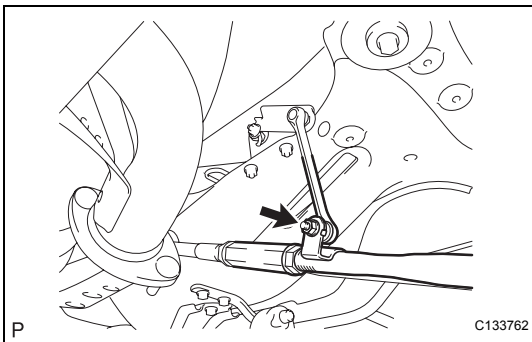
**15. INSTALL HEIGHT CONTROL SENSOR SUB-ASSEMBLY REAR RH (WITH DISCHARGE HEAD LIGHT)**

- (a) Install the height control sensor sub-assembly rear RH with the nut.

**Torque: 5.4 N\*m (55 kgf\*cm, 48 in.\*lbf)**

**16. INSTALL EXHAUST PIPE ASSEMBLY CENTER**

- (a) Install the exhaust pipe assembly center (See page [EX-3](#)).



**17. INSTALL REAR WHEEL**

- Torque: 103 N\*m (1,050 kgf\*cm, 76 ft.\*lbf)**

**18. INSPECT AND ADJUST REAR WHEEL ALIGNMENT**

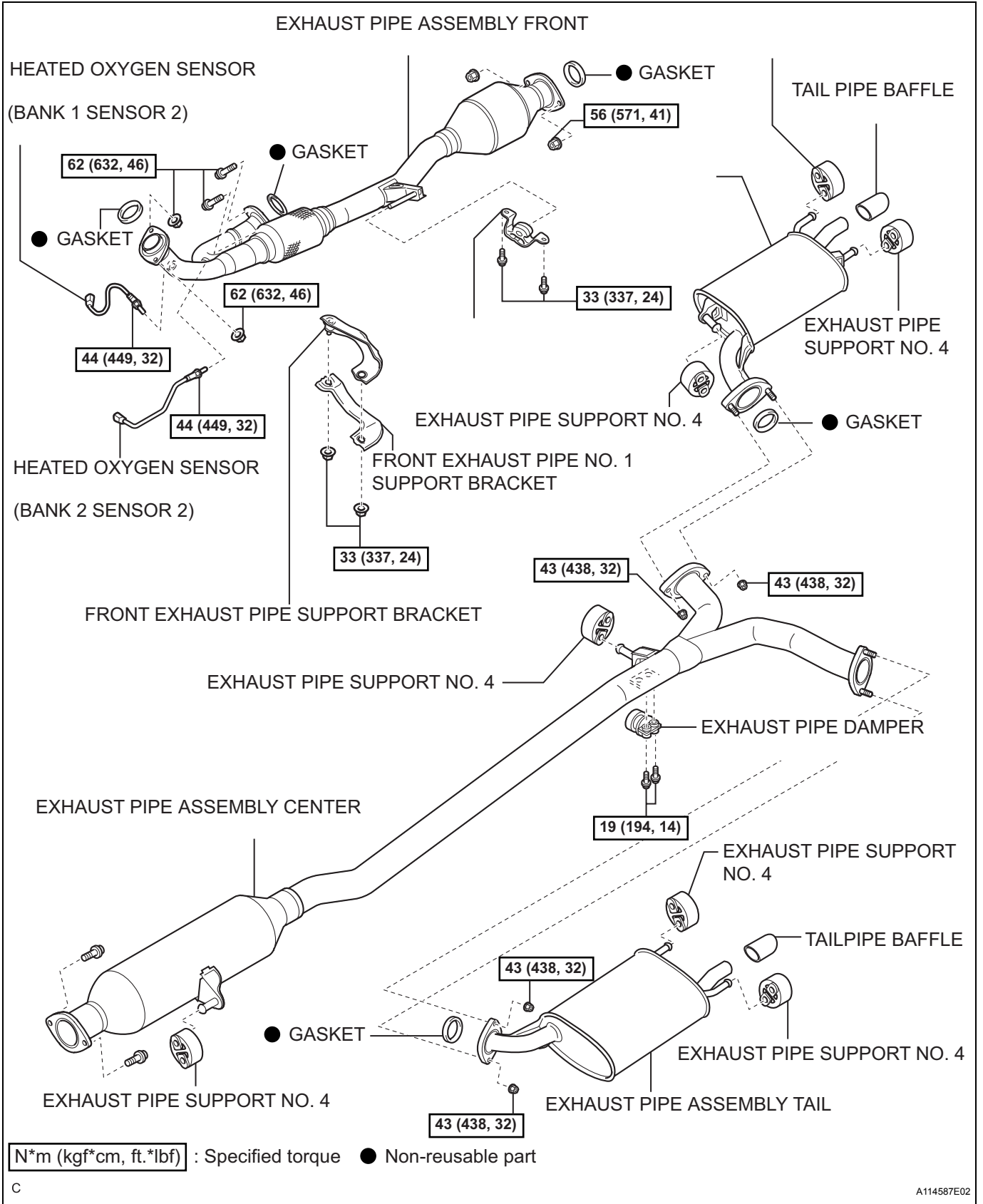
- (a) Inspect and adjust the rear wheel alignment (See page [SP-11](#)).

**19. HEAD LIGHT AIMING ADJUST (WITH DISCHARGE HEAD LIGHT)**

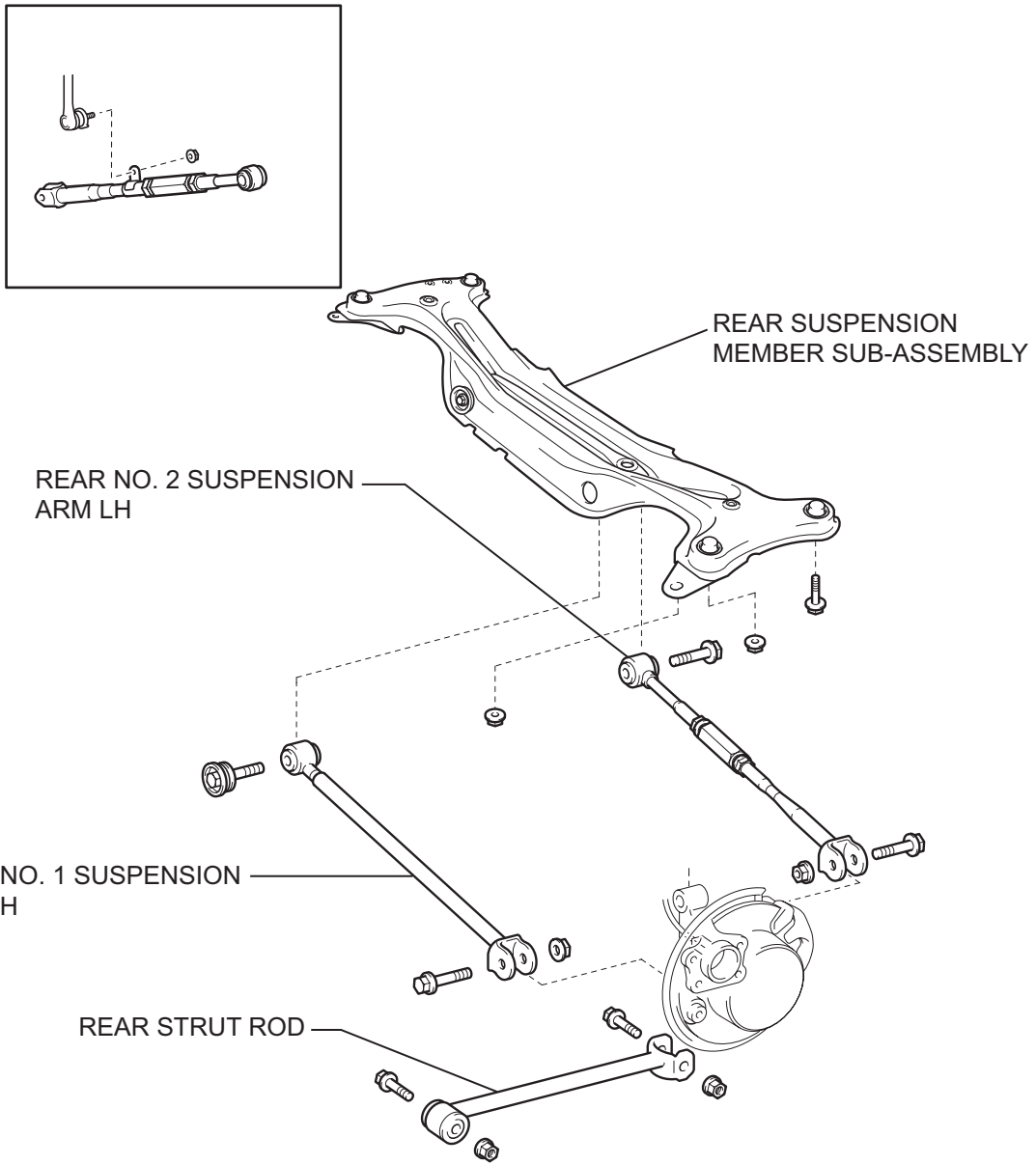
- (a) Adjust the head light aiming (See page [LI-114](#)).

# REAR NO. 2 SUSPENSION ARM

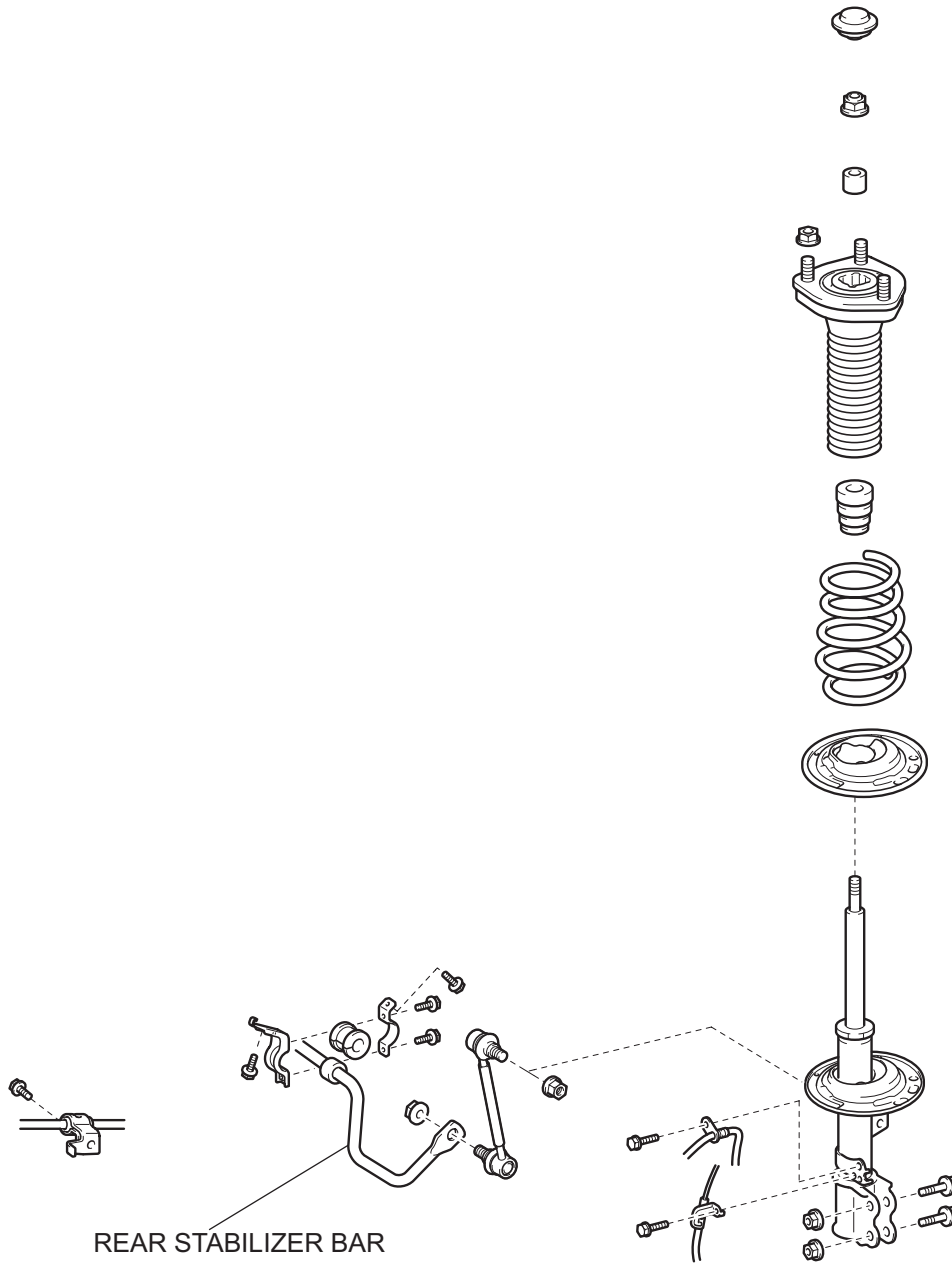
## COMPONENTS



SP



SP



SP

## REMOVAL

### HINT:

- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.

#### 1. REMOVE REAR WHEEL

#### 2. REMOVE EXHAUST PIPE ASSEMBLY CENTER

- (a) Remove the exhaust pipe assembly center (See page [EX-2](#)).

#### 3. REMOVE REAR STABILIZER BAR

- (a) Remove the rear stabilizer bar (See page [SP-56](#)).

#### 4. REMOVE REAR STRUT ROD

- (a) Remove the rear strut rod (See page [SP-40](#)).

#### 5. SEPARATE HEIGHT CONTROL SENSOR SUB-ASSEMBLY REAR RH (WITH DISCHARGE HEAD LIGHT)

- (a) Separate height control sensor sub-assembly rear RH (See page [SP-44](#)).

#### 6. SEPARATE REAR NO. 1 SUSPENSION ARM LH

- (a) Separate rear No. 1 suspension arm LH (See page [SP-44](#)).

#### 7. SEPARATE REAR NO. 1 SUSPENSION ARM RH

### HINT:

Separate the RH side using the same procedures as for the LH side.

#### 8. SEPARATE REAR NO. 2 SUSPENSION ARM LH

- (a) Separate rear No. 2 suspension arm LH (See page [SP-44](#)).

#### 9. SEPARATE REAR NO. 2 SUSPENSION ARM RH

### HINT:

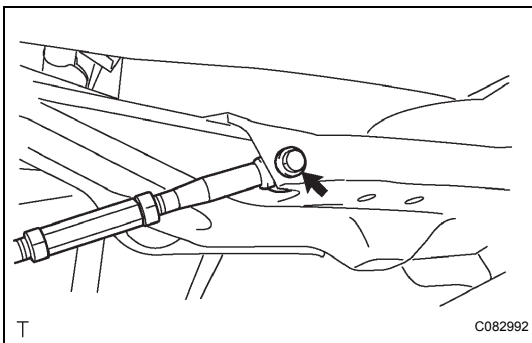
Separate the RH side using the same procedures as for the LH side.

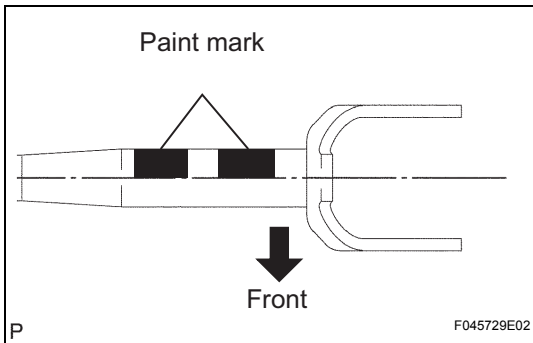
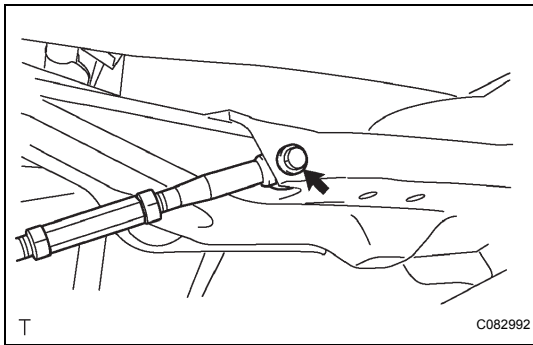
#### 10. REMOVE REAR SUSPENSION MEMBER SUB-ASSEMBLY

- (a) Remove the rear suspension member sub-assembly (See page [SP-44](#)).

#### 11. REMOVE REAR NO. 2 SUSPENSION ARM

- (a) Remove the bolt, and disconnect the rear suspension arm No. 2 (inner side).





## INSTALLATION

### 1. INSTALL REAR NO. 2 SUSPENSION ARM

- (a) Install the rear suspension arm No. 2 (inner side) with the bolt.

**Torque: 100 N\*m (1,020 kgf\*cm, 74 ft.\*lbf)**

- (b) Install the rear suspension arm No. 2 (inner side) with the bolt.

**HINT:**

Ensure that the paint marks face the rear side of the vehicle.

### 2. INSTALL REAR SUSPENSION MEMBER SUB-ASSEMBLY

- (a) Install the rear suspension member sub-assembly (See page [SP-46](#)).

### 3. TEMPORARILY TIGHTEN REAR NO. 1 SUSPENSION ARM LH

### 4. TEMPORARILY TIGHTEN REAR NO. 1 SUSPENSION ARM RH

**HINT:**

Temporarily tighten the RH side using the same procedures as for the LH side.

### 5. TEMPORARILY TIGHTEN REAR NO. 2 SUSPENSION ARM LH

- (a) Temporarily tighten the rear no. 2 suspension arm LH (See page [SP-46](#)).

### 6. TEMPORARILY TIGHTEN REAR NO. 2 SUSPENSION ARM RH

**HINT:**

Temporarily tighten the RH side using the same procedures as for the LH side.

### 7. TEMPORARILY TIGHTEN REAR STRUT ROD

- (a) Temporarily tighten the rear strut rod (See page [SP-40](#)).

### 8. STABILIZE SUSPENSION

- (a) Stabilize the suspension (See page [SP-46](#)).

### 9. FULLY TIGHTEN REAR NO. 1 SUSPENSION ARM LH

- (a) Fully tighten the rear No. 1 suspension arm LH (See page [SP-46](#)).

### 10. FULLY TIGHTEN REAR NO. 1 SUSPENSION ARM RH

**HINT:**

Fully tighten the RH side using the same procedures as for the LH side.

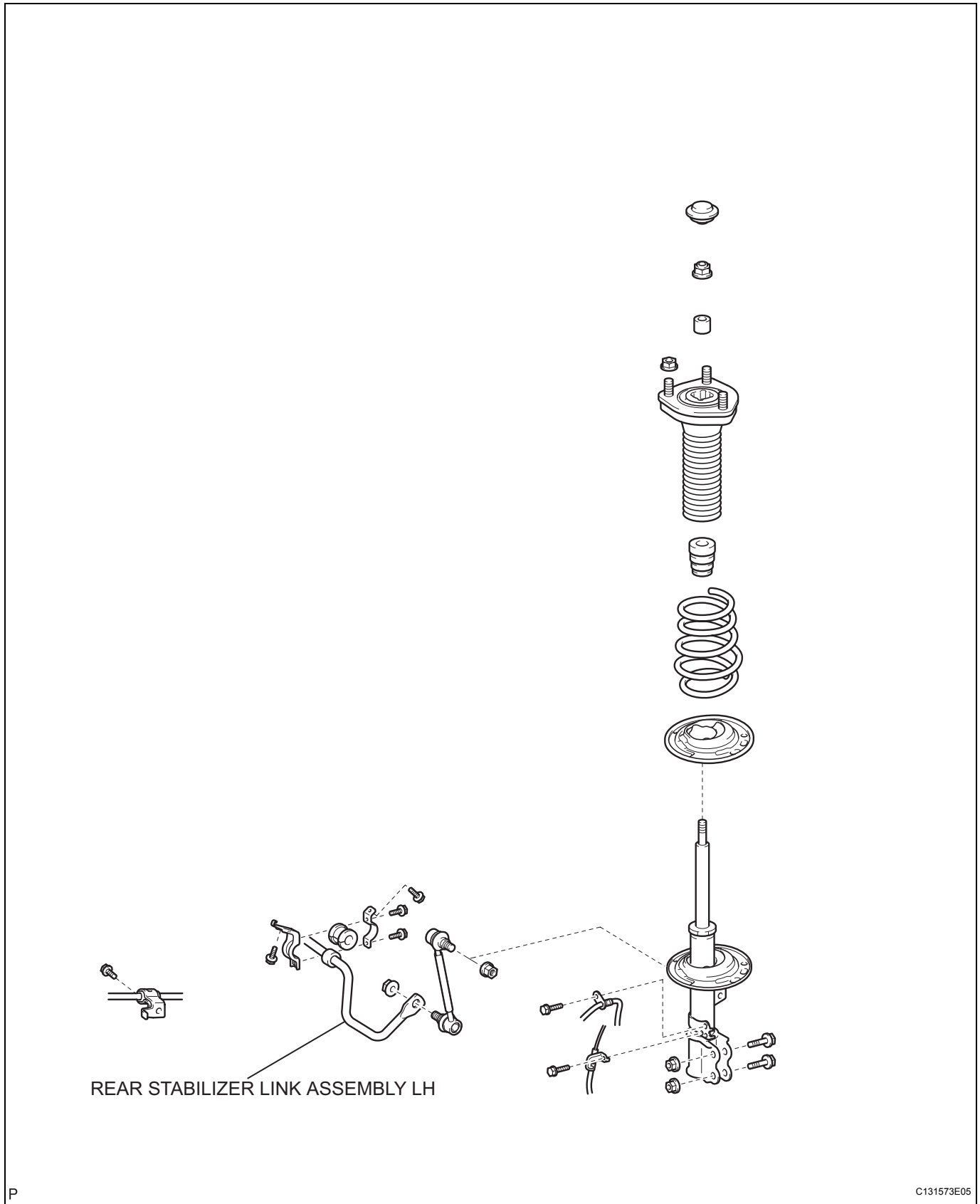
- 11. FULLY TIGHTEN REAR NO. 2 SUSPENSION ARM LH**
  - (a) Fully tighten the rear No. 2 suspension arm LH (See page [SP-46](#)).
- 12. FULLY TIGHTEN REAR NO. 2 SUSPENSION ARM RH**

HINT:  
Fully tighten the RH side using the same procedures as for the LH side.
- 13. FULLY TIGHTEN REAR STRUT ROD**
  - (a) Fully tighten the rear strut rod (See page [SP-40](#)).
- 14. INSTALL REAR STABILIZER BAR**
  - (a) Install the rear stabilizer bar (See page [SP-56](#)).
- 15. INSTALL HEIGHT CONTROL SENSOR SUB-ASSEMBLY REAR RH (WITH DISCHARGE HEAD LIGHT)**
  - (a) Install the height control sensor sub-assembly rear RH (See page [SP-46](#)).
- 16. INSTALL EXHAUST PIPE ASSEMBLY CENTER**
  - (a) Install the exhaust pipe assembly center (See page [EX-3](#)).
- 17. INSTALL REAR WHEEL**

Torque: 103 N\*m (1,050 kgf\*cm, 76 ft.\*lbf)
- 18. INSPECT AND ADJUST REAR WHEEL ALIGNMENT**
  - (a) Inspect and adjust the rear wheel alignment (See page [SP-11](#)).
- 19. HEAD LIGHT AIMING ADJUSTMENT (WITH DISCHARGE HEAD LIGHT)**
  - (a) Adjust the head light aiming (See page [LI-114](#)).

# REAR STABILIZER BAR

## COMPONENTS



REAR STABILIZER LINK ASSEMBLY LH

SP



## REMOVAL

### 1. REMOVE REAR WHEEL

### 2. REMOVE REAR STABILIZER LINK ASSEMBLY LH

- (a) Remove the 2 nuts and stabilizer link.

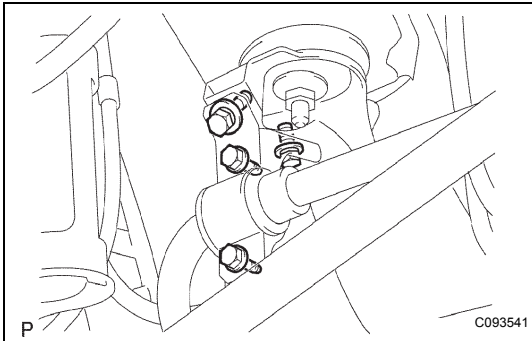
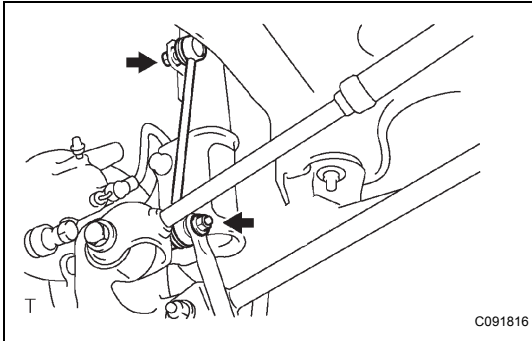
HINT:

If the ball joint turns together with the nut, use a hexagon wrench (5 mm) to hold the stud.

### 3. REMOVE REAR STABILIZER LINK ASSEMBLY RH

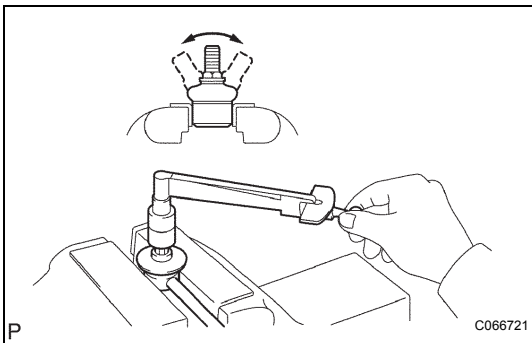
HINT:

Remove the RH side using the same procedures as for the LH side.



### 4. REMOVE REAR STABILIZER BAR

- (a) Remove the 8 bolts, 4 stabilizer brackets, 2 stabilizer bushes and stabilizer bar.



## INSPECTION

### 1. INSPECT REAR STABILIZER LINK ASSEMBLY

- (a) Before installing the nut, flip the ball joint stud back and forth 5 times as shown in the illustration.
- (b) Using a torque wrench, continuously turn the nut 3 to 5 seconds per turn, and take the torque reading on the 5th turn.

**Torque: Turning torque**

**1.0 N\*m (10 kgf\*cm, 9 in.\*lbf) or less**

If the value is not within the specification, replace the rear stabilizer link assembly with a new one.

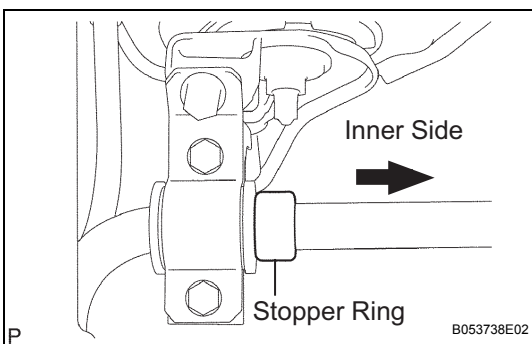
**NOTICE:**

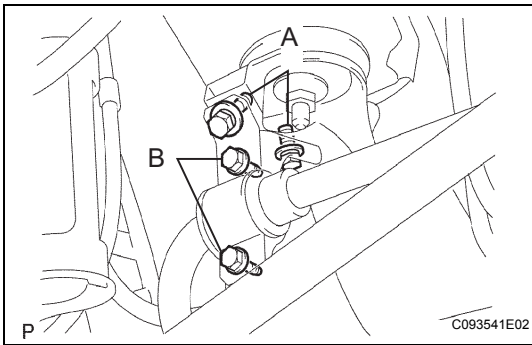
- Check that neither unusual drag nor rattle occurs during the rotation.
- Check that neither cracks nor grease leakage exists on the dust cover.

## INSTALLATION

### 1. INSTALL REAR STABILIZER BAR

- (a) Install the stabilizer bush to the outer side of the stopper ring on the stabilizer bar.



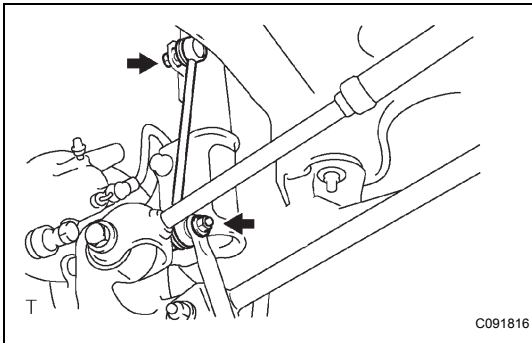


- (b) Install the 2 stabilizer bushes and 4 stabilizer brackets with the 8 bolts.

**Torque: 19 N\*m (195 kgf\*cm, 14 ft.\*lbf)**

HINT:

2 types of bolts (A, B) are used, so make sure the correct bolts are installed.



## 2. INSTALL REAR STABILIZER LINK ASSEMBLY LH

- (a) Install the stabilizer link with the 2 nuts.

**Torque: 39 N\*m (400 kgf\*cm, 29 ft.\*lbf)**

HINT:

If the ball joint turns together with the nut, use a hexagon wrench (5 mm) to hold the stud.

## 3. INSTALL REAR STABILIZER LINK ASSEMBLY RH

HINT:

Install the RH side using the same procedure as for the LH side.

## 4. INSTALL REAR WHEEL

**Torque: 103 N\*m (1,050 kgf\*cm, 76 ft.\*lbf)**

## 5. INSPECT AND ADJUST REAR WHEEL ALIGNMENT

- (a) Inspect and adjust the rear wheel alignment (See page [SP-11](#)).