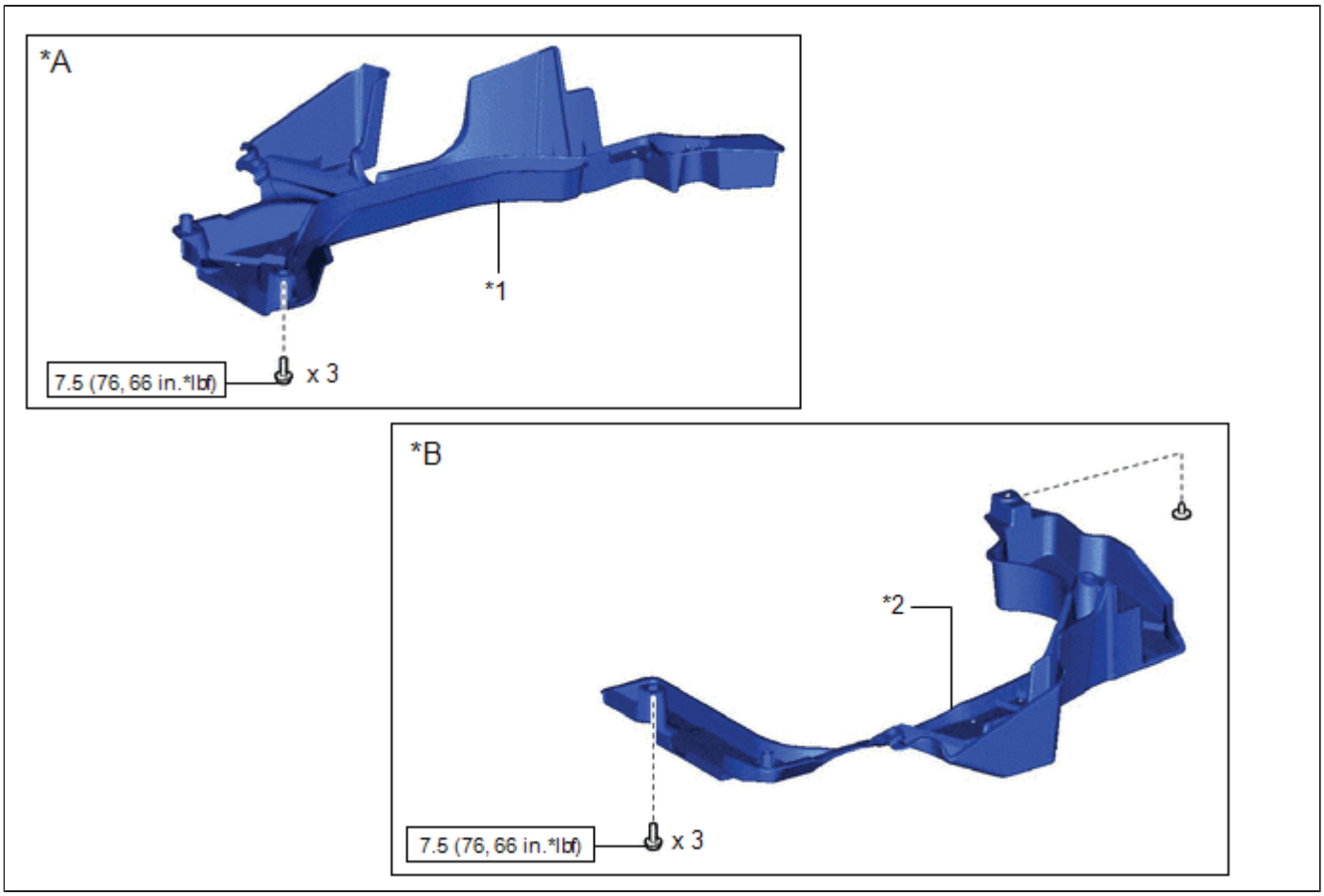
| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RMKY |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR COIL SPRING: COMPONENTS; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

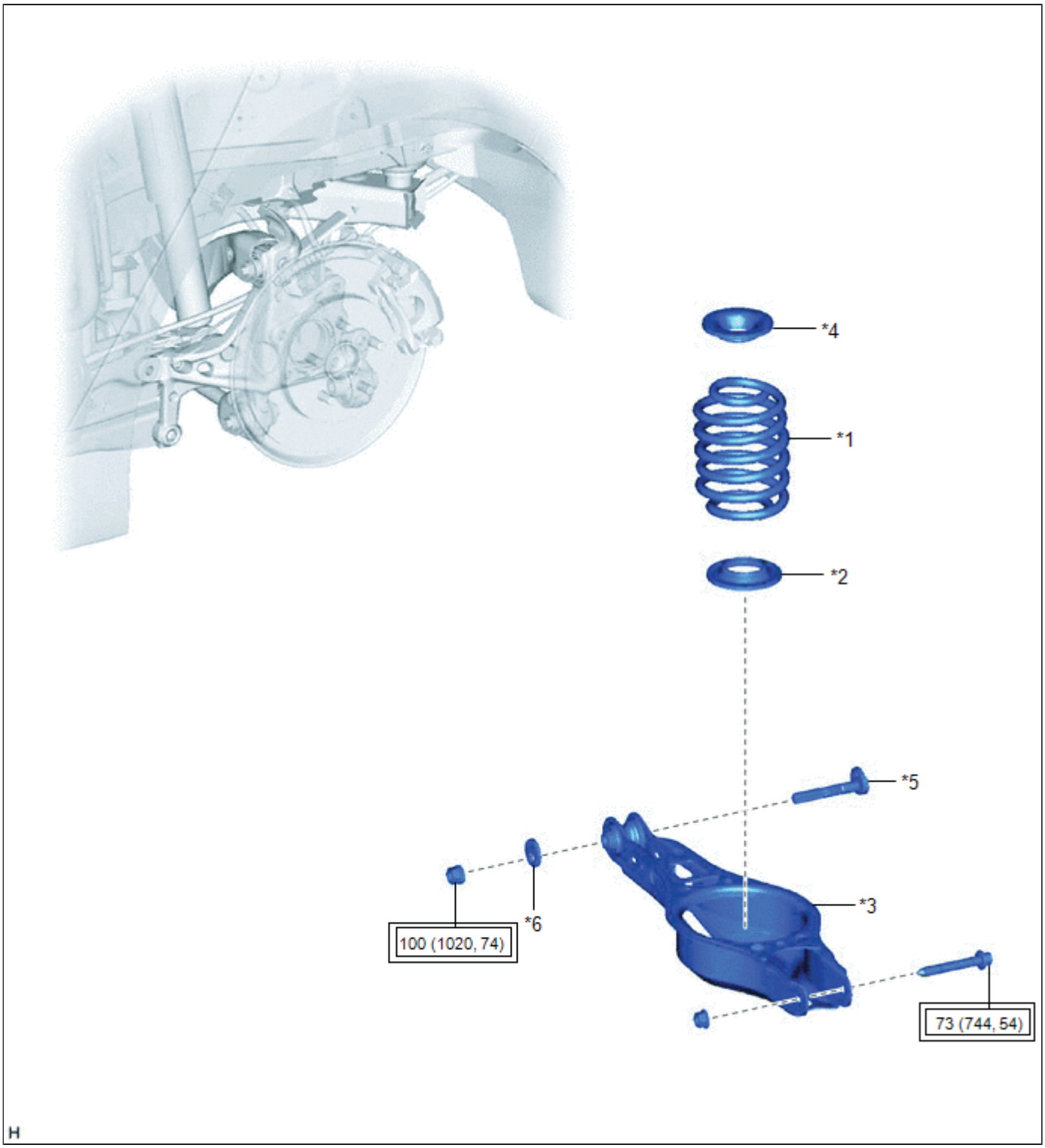
## COMPONENTS

## ILLUSTRATION




| | | | |
|---|---|---|---|
| *A | for RH Side | *B | for LH Side |
| *1 | NO. 1 FLOOR UNDER COVER ASSEMBLY | *2 | REAR FLOOR SIDE MEMBER COVER LH |
| □ | N*m (kgf*cm, ft.*lbf): Specified torque | - | - |

## ILLUSTRATION




| | | | |
|---|---|---|---|
| *1 | REAR COIL SPRING | *2 | REAR LOWER COIL SPRING INSULATOR |
| *3 | REAR NO. 2 SUSPENSION ARM ASSEMBLY | *4 | REAR UPPER COIL SPRING INSULATOR |
| *5 | REAR SUSPENSION TOE ADJUST CAM SUB-ASSEMBLY | *6 | NO. 2 CAMBER ADJUST CAM |
| | Tightening torque for "Major areas involving basic vehicle performance | | |

| | | | |
|---|---|---|---|
|  | such as moving/turning/stopping" : N*m (kgf*cm, ft.*lbf) | - | - |

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RMKX |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR COIL SPRING: INSTALLATION; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

# INSTALLATION

# CAUTION / NOTICE / HINT

**HINT:**

- Use the same procedure for the RH side and LH side.
- The following procedure is for the LH side.

# PROCEDURE

### 1. INSTALL REAR UPPER COIL SPRING INSULATOR

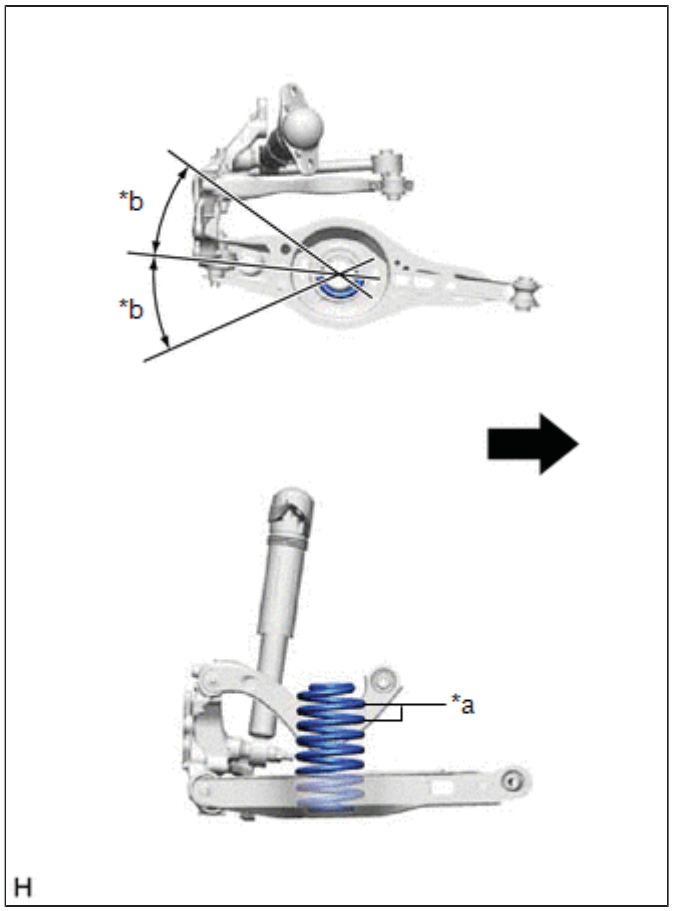
(a) Install the rear upper coil spring insulator to the vehicle.

### 2. INSTALL REAR LOWER COIL SPRING INSULATOR

(a) Install the rear lower coil spring insulator to the rear No. 2 suspension arm assembly.

### 3. INSTALL REAR COIL SPRING

(a) Set the rear coil spring to the rear No. 2 suspension arm assembly.




| | |
|---|---|
| *a | Identification Mark |
| *b | 30° or less |
| | |

| | |
|---|---|
| ➡ | Inner Side of the Vehicle |

**NOTICE:**

- Set the rear coil spring so that its lower end is within the range shown in the illustration.
- Set the rear coil spring so that the identification mark is positioned as shown in the illustration.

(b) Using a jack and wooden block, slowly jack up the rear No. 2 suspension arm assembly and then install the rear No. 2 suspension arm assembly to the rear axle carrier sub-assembly with the bolt and nut.

**CAUTION:**

Do not jack up the rear No. 2 suspension arm assembly too high as the vehicle may fall.

**NOTICE:**

- Because the nut has its own stopper, do not turn the nut. Tighten the bolt with the nut secured.
- When jacking up the rear No. 2 suspension arm assembly, be sure to jack it up slowly.
- Make sure to perform this operation with the vehicle kept as low as possible.
- Insert the bolt with the threaded end facing the front of the vehicle.

### 4. STABILIZE SUSPENSION

Click here INFO

### 5. INSTALL REAR NO. 2 SUSPENSION ARM ASSEMBLY

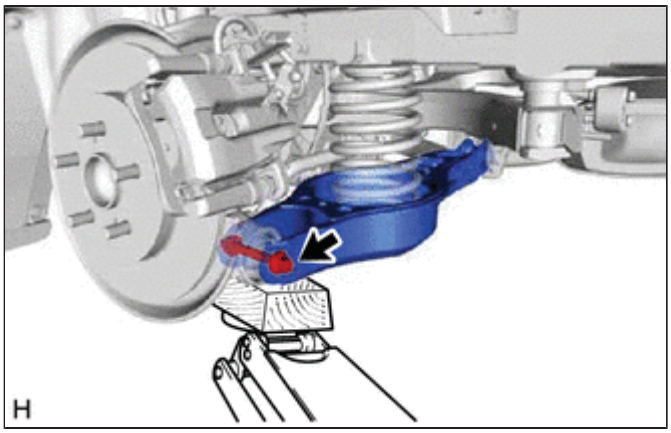
(a) Install the rear No. 2 suspension arm assembly (rear axle carrier sub-assembly side) with the bolt.

**Torque:**

**73 N·m {744 kgf·cm, 54 ft·lbf}**

**NOTICE:**

Because the nut has its own stopper, do not turn the nut. Tighten the bolt with the nut secured.




### 6. INSTALL REAR FLOOR SIDE MEMBER COVER LH (for LH Side)

Click here INFO

### 7. INSTALL NO. 1 FLOOR UNDER COVER ASSEMBLY (for RH Side)

Click here INFO

### 8. INSTALL REAR WHEEL

Click here INFO

### 9. INSTALL REAR NO. 2 SUSPENSION ARM ASSEMBLY

(a) Install the rear No. 2 suspension arm assembly (rear suspension member sub-assembly side) with the nut.

Click here INFO

### 10. INSPECT AND ADJUST REAR WHEEL ALIGNMENT

Click here INFO

### 11. PERFORM INITIALIZATION

| | |
|---|---|
| Intelligent clearance sonar system | INFO |
| Simple advanced parking guidance system | |

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RMKZ |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR COIL SPRING: REMOVAL; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

# REMOVAL

## CAUTION / NOTICE / HINT

The necessary procedures (adjustment, calibration, initialization, or registration) that must be performed after parts are removed and installed, or replaced during rear coil spring removal/installation are shown below.

**Necessary Procedures After Parts Removed / Installed / Replaced**

| REPLACED PART OR PERFORMED PROCEDURE | NECESSARY PROCEDURE | EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED | LINK |
|---|---|---|---|
| Rear wheel alignment adjustment | 1. Clear zero point calibration data.<br>2. Perform yaw rate and acceleration sensor zero point calibration. | • DTCs are stored<br>• ABS warning light illuminates<br>• Brake warning light/yellow (minor malfunction) illuminates<br>• Slip indicator light illuminates<br>• VSC disabled or malfunctions | INFO |
| Suspension, tires, etc.<br>(The vehicle height changes because of suspension or tire replacement) | • Ultrasonic sensor detection angle<br>• Ultrasonic sensor detection angle registration | • Intelligent clearance sonar system<br>• Simple advanced parking guidance system | INFO |

**HINT:**

- Use the same procedure for the RH side and LH side.
- The following procedure is for the LH side.

# PROCEDURE

**1. REMOVE REAR WHEEL**

Click here INFO

**2. REMOVE REAR FLOOR SIDE MEMBER COVER LH (for LH Side)**

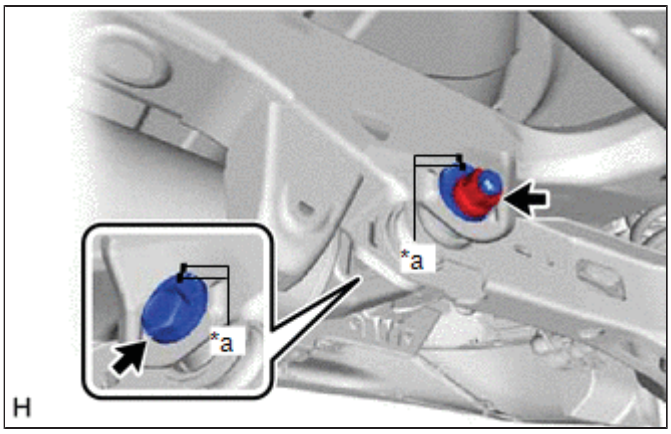
Click here INFO

**3. REMOVE NO. 1 FLOOR UNDER COVER ASSEMBLY (for RH Side)**

Click here INFO

**4. REMOVE REAR COIL SPRING**

(a) Place matchmarks on the No. 2 camber adjust cam, rear suspension toe adjust cam sub-assembly and rear suspension member sub-assembly.




| | |
|---|---|
| *a | Matchmark |

(b) Loosen the nut (rear suspension member sub-assembly side) of the rear No. 2 suspension arm assembly.

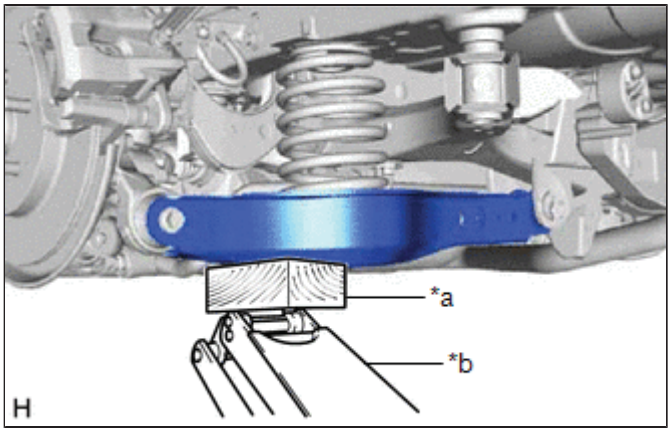
**NOTICE:**

Hold the rear suspension toe adjust cam sub-assembly while rotating the nut.

(c) Using a jack and a wooden block, support the rear No. 2 suspension arm assembly.

**NOTICE:**

- When jacking up the rear No. 2 suspension arm assembly, be sure to jack it up slowly.
- Make sure to perform this operation with the vehicle kept as low as possible.

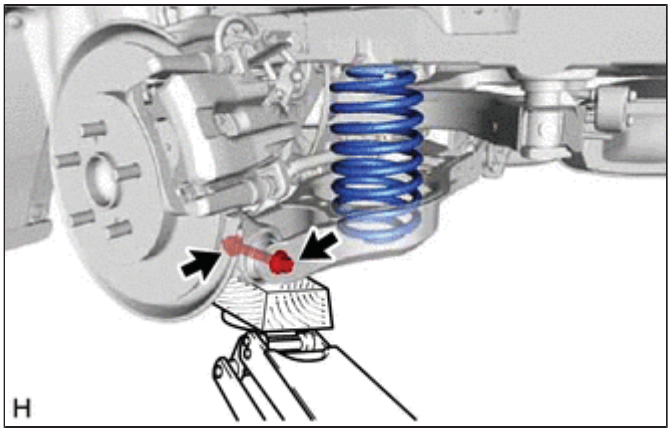



| | |
|---|---|
| *a | Wooden Block |
| *b | Jack |

(d) Remove the bolt and nut, and separate the rear No. 2 suspension arm assembly from the rear axle carrier sub-assembly.

**NOTICE:**

Because the nut has its own stopper, do not turn the nut. Loosen the bolt with the nut secured.



(e) Slowly lower the rear No. 2 suspension arm assembly, and then remove the rear coil spring.

### 5. REMOVE REAR UPPER COIL SPRING INSULATOR

(a) Remove the rear upper coil spring insulator from the vehicle.

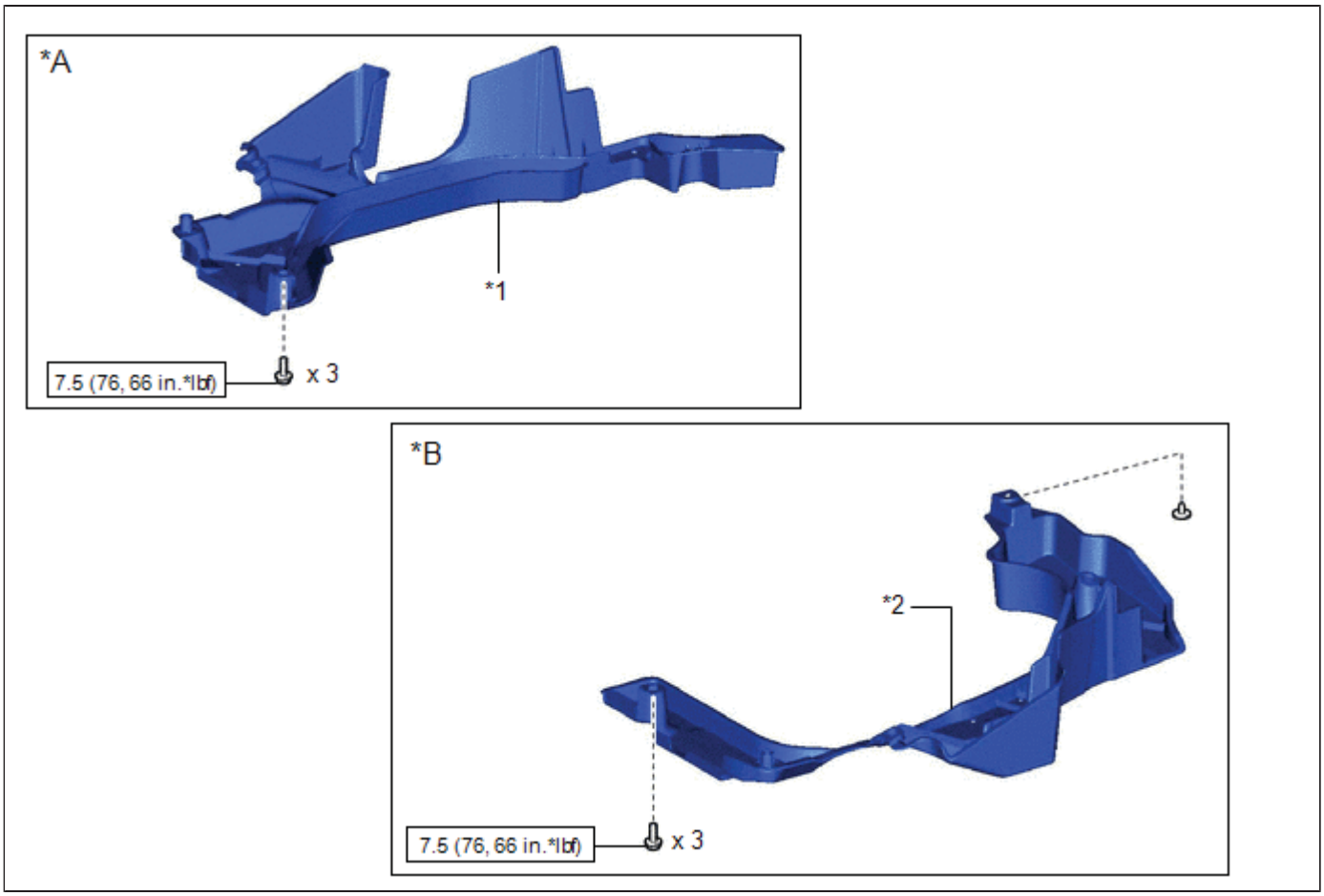
### 6. REMOVE REAR LOWER COIL SPRING INSULATOR

(a) Remove the rear lower coil spring insulator from the rear No. 2 suspension arm assembly.

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RML4 |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR LOWER ARM: COMPONENTS; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

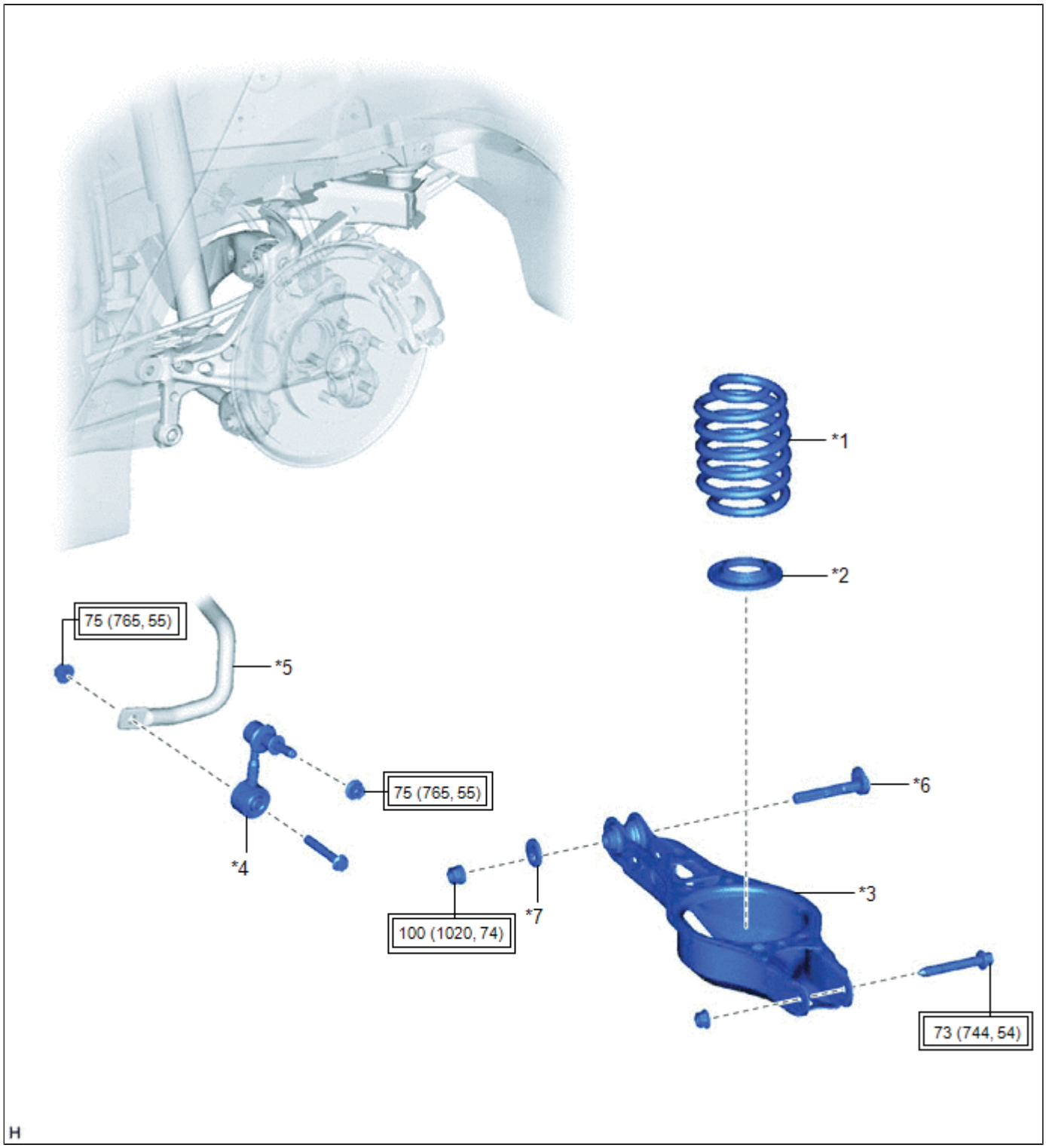
## COMPONENTS

## ILLUSTRATION




| | | | |
|---|---|---|---|
| *A | for RH Side | *B | for LH Side |
| *1 | NO. 1 FLOOR UNDER COVER ASSEMBLY | *2 | REAR FLOOR SIDE MEMBER COVER LH |
| □ | N*m (kgf*cm, ft.*lbf): Specified torque | - | - |

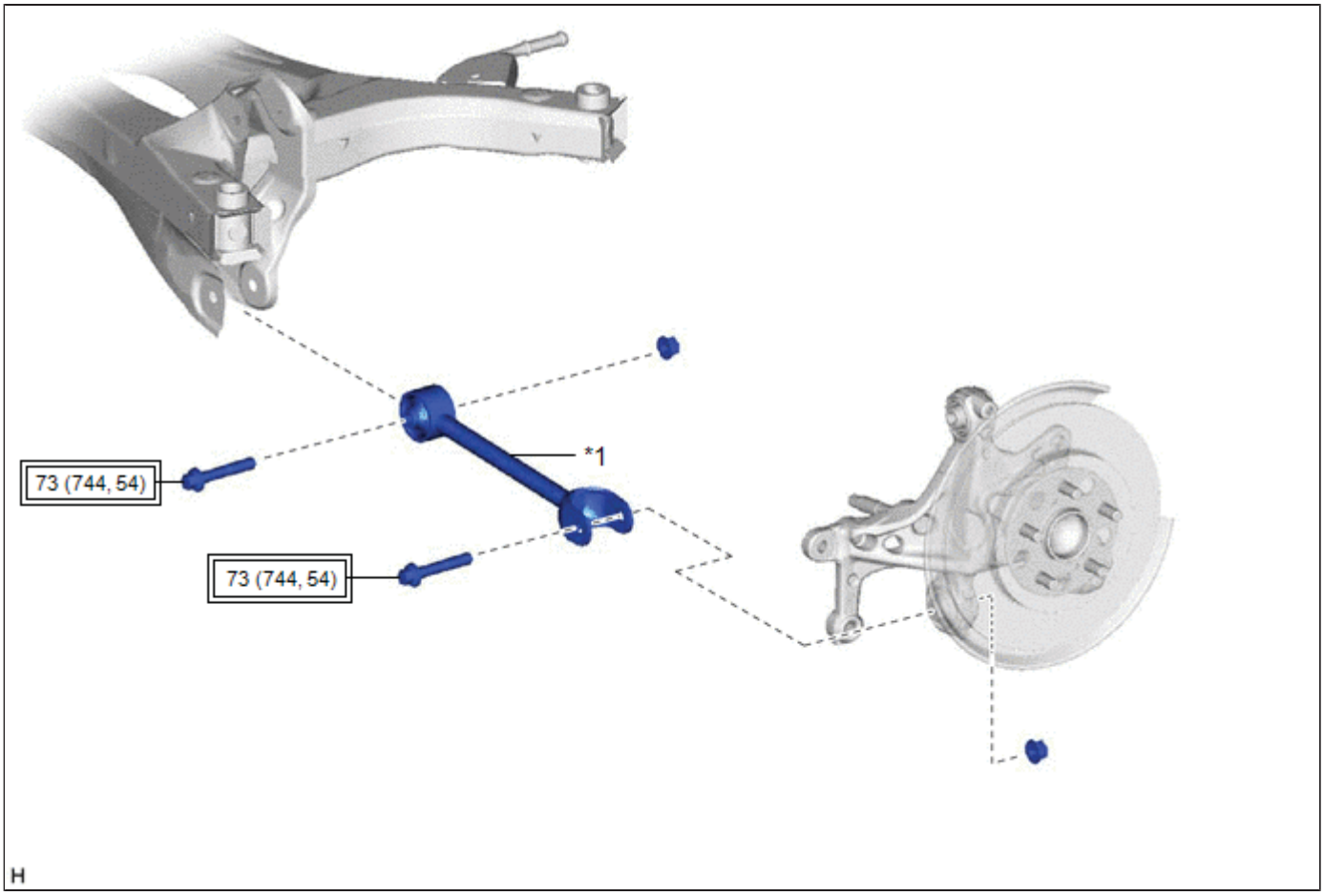
## ILLUSTRATION




| | | | |
|---|---|---|---|
| *1 | REAR COIL SPRING | *2 | REAR LOWER COIL SPRING INSULATOR |
| *3 | REAR NO. 2 SUSPENSION ARM ASSEMBLY | *4 | REAR STABILIZER LINK ASSEMBLY |
| *5 | REAR STABILIZER BAR | *6 | REAR SUSPENSION TOE ADJUST CAM SUB-ASSEMBLY |
| *7 | NO. 2 CAMBER ADJUST CAM | - | - |

| | | | |
|---|---|---|---|
| | Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping" : N*m (kgf*cm, ft.*lbf) | - | - |

## ILLUSTRATION




| | | | |
|---|---|---|---|
| *1 | REAR NO. 1 SUSPENSION ARM ASSEMBLY | - | - |
| | Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping" : N*m (kgf*cm, ft.*lbf) | - | - |

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RML3 |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR LOWER ARM: INSTALLATION; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

# INSTALLATION

# CAUTION / NOTICE / HINT

**HINT:**

- Use the same procedure for the RH side and LH side.
- The following procedure is for the LH side.

# PROCEDURE

### 1. TEMPORARILY INSTALL REAR NO. 1 SUSPENSION ARM ASSEMBLY

(a) Temporarily install the rear No. 1 suspension arm assembly to the rear axle carrier sub-assembly and rear suspension member sub-assembly with the 2 bolts and 2 nuts.

**NOTICE:**

- Because the nut has its own stopper, do not turn the nut. Tighten the bolt with the nut secured.
- Insert the bolt with the threaded end facing the rear of the vehicle.

### 2. TEMPORARILY INSTALL REAR NO. 2 SUSPENSION ARM ASSEMBLY

(a) Temporarily install the rear No. 2 suspension arm assembly to the rear suspension member sub-assembly with the No. 2 camber adjust cam, rear suspension toe adjust cam sub-assembly and nut.

**NOTICE:**

- Insert the rear suspension toe adjust cam sub-assembly from the rear of the vehicle.
- When tightening the nut, keep the rear suspension toe adjust cam sub-assembly from rotating.

### 3. INSTALL REAR LOWER COIL SPRING INSULATOR

Click here INFO

### 4. INSTALL REAR COIL SPRING

Click here INFO

### 5. STABILIZE SUSPENSION

Click here INFO

### 6. INSTALL REAR STABILIZER LINK ASSEMBLY

Click here INFO

### 7. INSTALL REAR NO. 1 SUSPENSION ARM ASSEMBLY

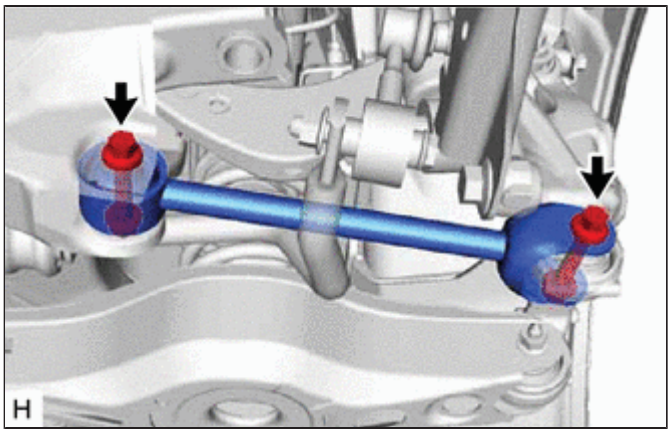
(a) Install the rear No. 1 suspension arm assembly with the 2 bolts.

**Torque:**

**73 N·m {744 kgf·cm, 54 ft·lbf}**

**NOTICE:**

Because the nut has its own stopper, do not turn the nut. Tighten the bolt with the nut secured.




### 8. INSTALL REAR NO. 2 SUSPENSION ARM ASSEMBLY

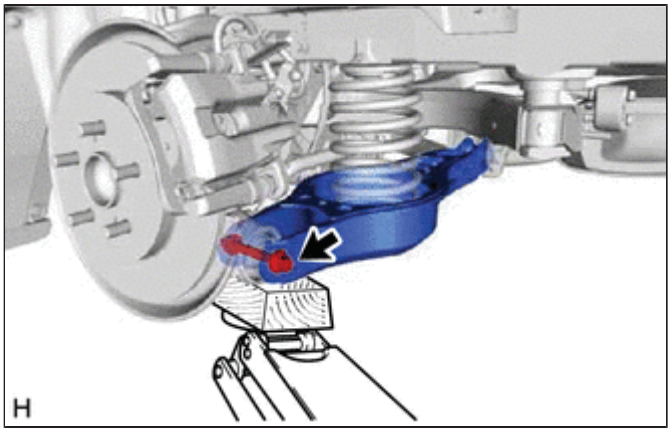
(a) Install the rear No. 2 suspension arm assembly (rear axle carrier sub-assembly side) with the bolt.

**Torque:**

**73 N·m {744 kgf·cm, 54 ft·lbf}**

**NOTICE:**

Because the nut has its own stopper, do not turn the nut. Tighten the bolt with the nut secured.




### 9. INSTALL REAR FLOOR SIDE MEMBER COVER LH (for LH Side)

Click here INFO

### 10. INSTALL NO. 1 FLOOR UNDER COVER ASSEMBLY (for RH Side)

Click here INFO

### 11. INSTALL REAR WHEEL

Click here INFO

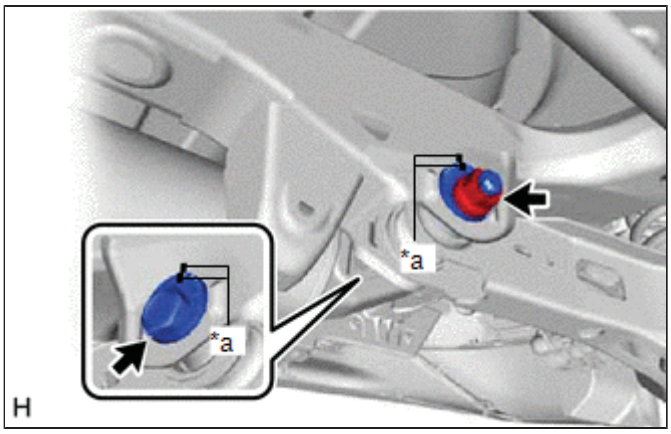
### 12. INSTALL REAR NO. 2 SUSPENSION ARM ASSEMBLY

(a) Lower the vehicle to the ground.

(b) Bounce the vehicle up and down at the corners to stabilize the rear suspension.

(c) Align the matchmarks on the No. 2 camber adjust cam,

rear suspension toe adjust cam sub-assembly and rear suspension member sub-assembly.




| | |
|---|---|
| *a | Matchmark |

(d) Fully tighten the nut.

**Torque:**

**100 N·m {1020 kgf·cm, 74 ft·lbf}**

**NOTICE:**

- Hold the rear suspension toe adjust cam sub-assembly while rotating the nut.
- Make sure that the vehicle is unloaded when fully tightening the nut.

### 13. INSPECT AND ADJUST REAR WHEEL ALIGNMENT

Click here INFO

### 14. PERFORM INITIALIZATION

| | |
|---|---|
| Intelligent clearance sonar system | INFO |
| Simple advanced parking guidance system | |

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RML5 |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR LOWER ARM: REMOVAL; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

# REMOVAL

## CAUTION / NOTICE / HINT

The necessary procedures (adjustment, calibration, initialization, or registration) that must be performed after parts are removed and installed, or replaced during rear suspension arm assembly removal/installation are shown below.

**Necessary Procedures After Parts Removed / Installed / Replaced**

| REPLACED PART OR PERFORMED PROCEDURE | NECESSARY PROCEDURE | EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED | LINK |
|---|---|---|---|
| Rear wheel alignment adjustment | 1. Clear zero point calibration data.<br>2. Perform yaw rate and acceleration sensor zero point calibration. | • DTCs are stored<br>• ABS warning light illuminates<br>• Brake warning light/yellow (minor malfunction) illuminates<br>• Slip indicator light illuminates<br>• VSC disabled or malfunctions | INFO |
| Suspension, tires, etc.<br>(The vehicle height changes because of suspension or tire replacement) | • Ultrasonic sensor detection angle<br>• Ultrasonic sensor detection angle registration | • Intelligent clearance sonar system<br>• Simple advanced parking guidance system | INFO |

**HINT:**

- Use the same procedure for the RH side and LH side.
- The following procedure is for the LH side.

# PROCEDURE

**1. REMOVE REAR WHEEL**

Click here INFO

**2. REMOVE REAR FLOOR SIDE MEMBER COVER LH (for LH Side)**

Click here INFO

**3. REMOVE NO. 1 FLOOR UNDER COVER ASSEMBLY (for RH Side)**

Click here INFO

**4. REMOVE REAR STABILIZER LINK ASSEMBLY**

Click here INFO

**5. REMOVE REAR COIL SPRING**

Click here INFO

### 6. REMOVE REAR LOWER COIL SPRING INSULATOR

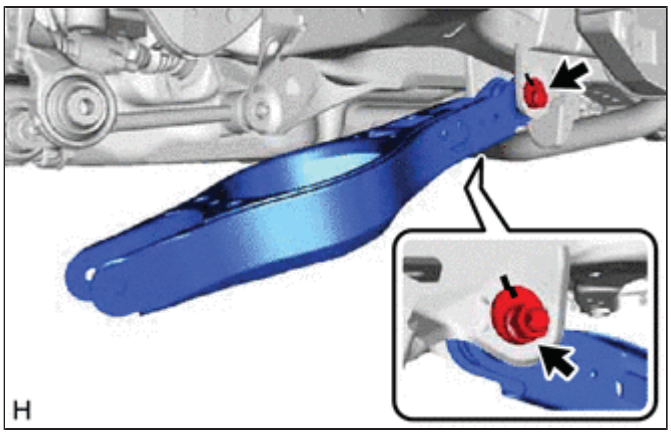
Click here INFO

### 7. REMOVE REAR NO. 2 SUSPENSION ARM ASSEMBLY

(a) Remove the nut, No. 2 camber adjust cam, rear suspension toe adjust cam sub-assembly and rear No. 2 suspension arm assembly.

**NOTICE:**

Hold the rear suspension toe adjust cam sub-assembly while rotating the nut.

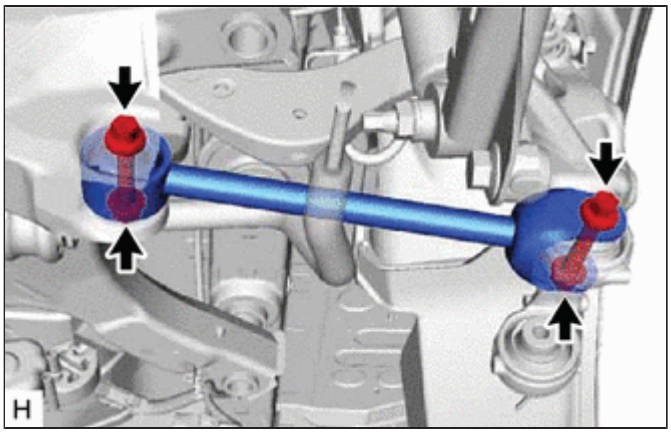



### 8. REMOVE REAR NO. 1 SUSPENSION ARM ASSEMBLY

(a) Remove the 2 bolts, 2 nuts and rear No. 1 suspension arm assembly from the rear axle carrier sub-assembly and rear suspension member sub-assembly.

**NOTICE:**

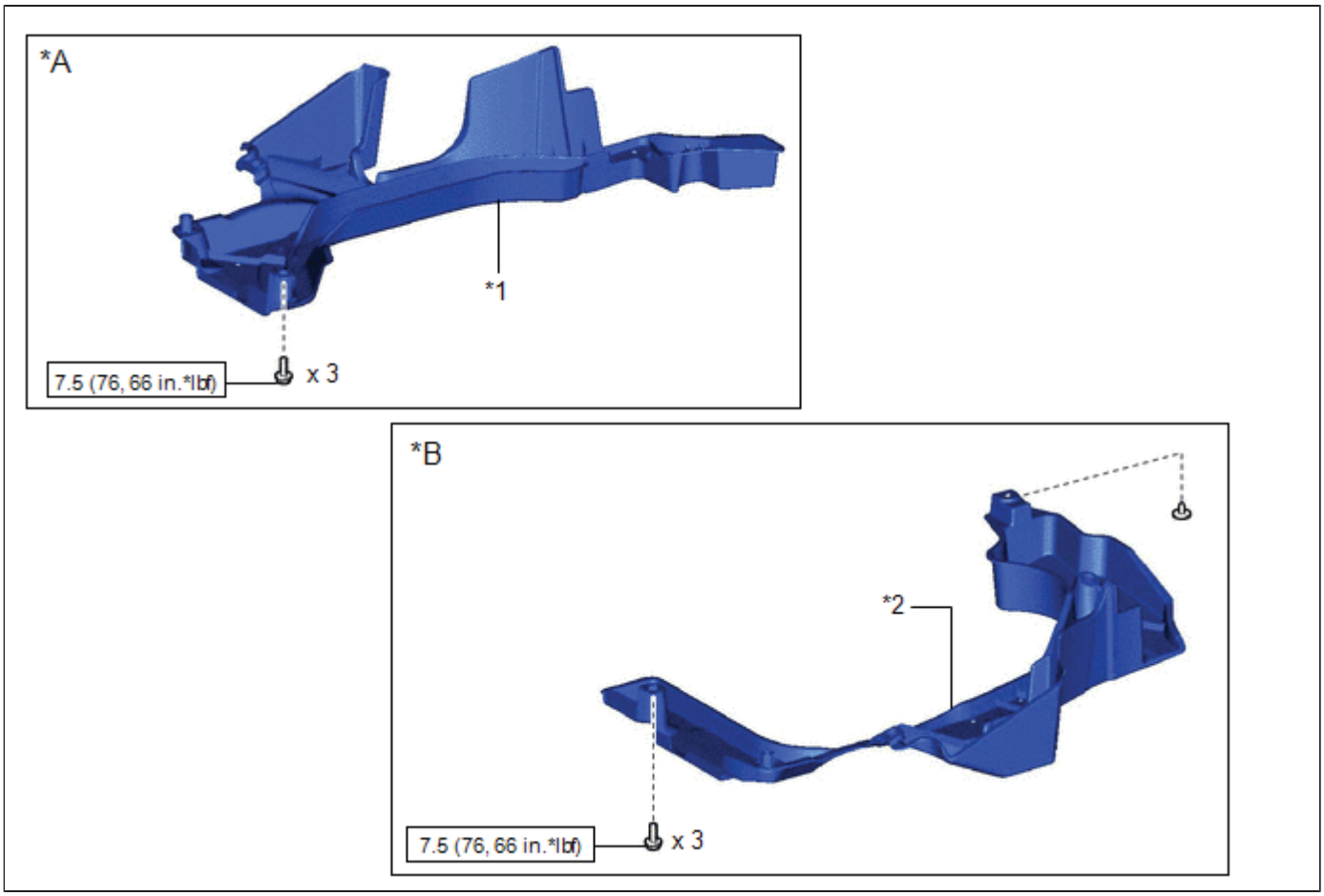
Because the nut has its own stopper, do not turn the nut. Loosen the bolt with the nut secured.



| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RMKV |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR SHOCK ABSORBER: COMPONENTS; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

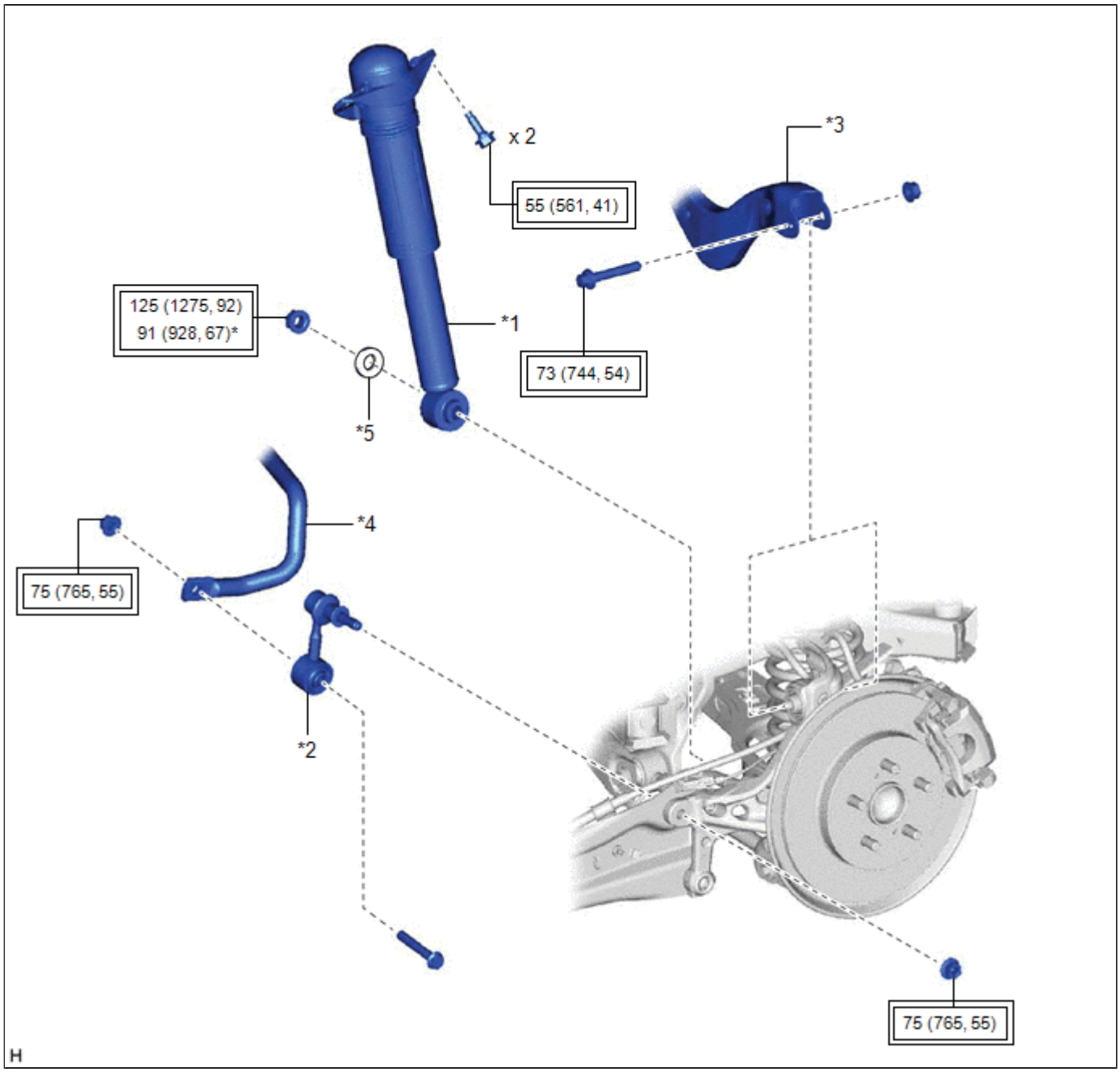
## COMPONENTS

## ILLUSTRATION



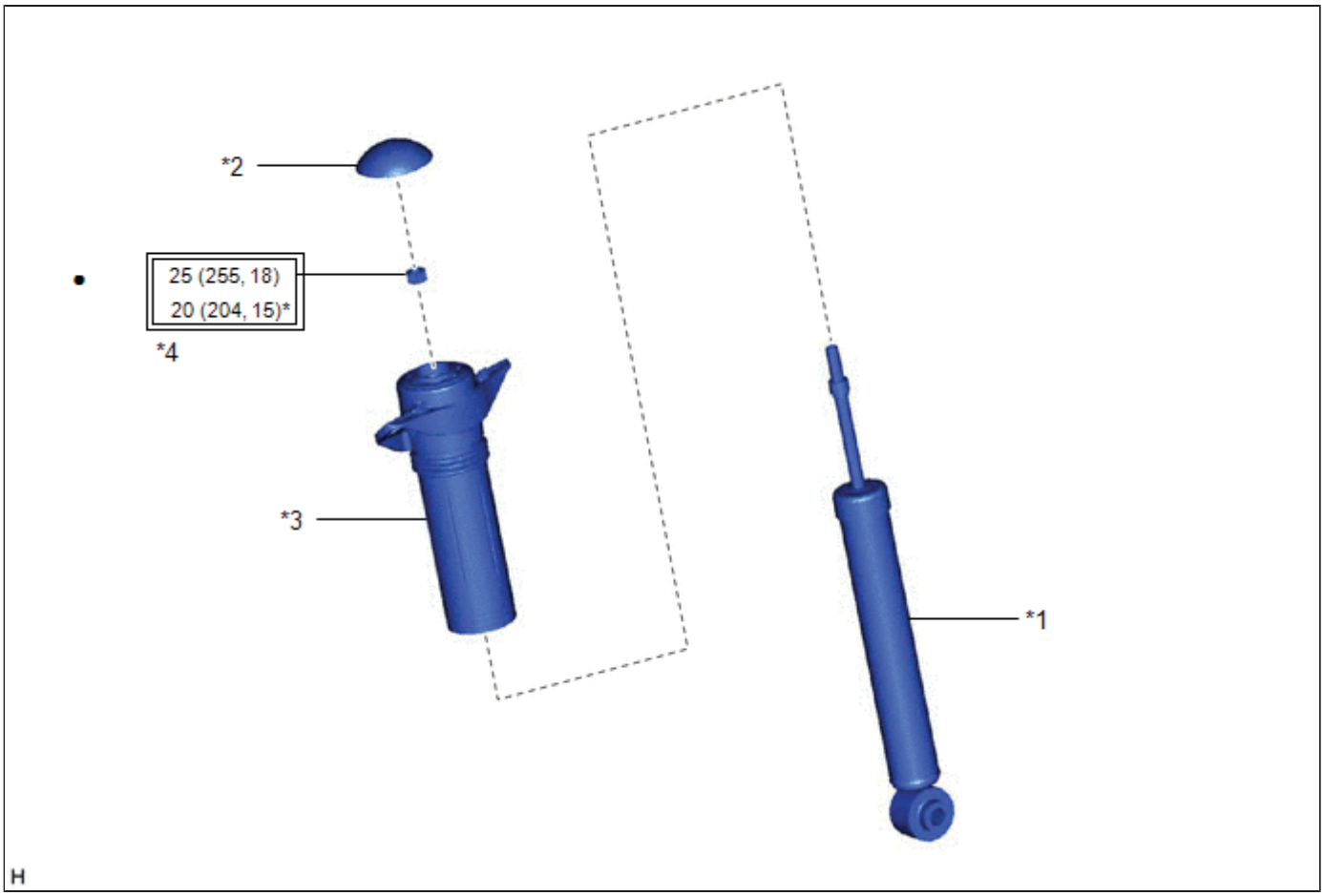

| | | | |
|---|---|---|---|
| *A | for RH Side | *B | for LH Side |
| *1 | NO. 1 FLOOR UNDER COVER ASSEMBLY | *2 | REAR FLOOR SIDE MEMBER COVER LH |
| ☐ | N*m (kgf*cm, ft.*lbf): Specified torque | - | - |

## ILLUSTRATION




| | | | |
|---|---|---|---|
| *1 | REAR SHOCK ABSORBER ASSEMBLY | *2 | REAR STABILIZER LINK ASSEMBLY |
| *3 | REAR UPPER CONTROL ARM ASSEMBLY | *4 | REAR STABILIZER BAR |
| *5 | PLATE WASHER | - | - |
| ▭ | Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping" : N*m (kgf*cm, ft.*lbf) | * | For use with a ball joint lock nut wrench |

## ILLUSTRATION




| | | | |
|---|---|---|---|
| *1 | REAR SHOCK ABSORBER ASSEMBLY | *2 | REAR SHOCK ABSORBER CAP |
| *3 | REAR SUSPENSION SUPPORT ASSEMBLY | *4 | REAR SUPPORT TO REAR SHOCK ABSORBER NUT |
| ▭ | Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping" : N*m (kgf*cm, ft.*lbf) | * | For use with SST |
| • | Non-reusable part | | Precoated part |

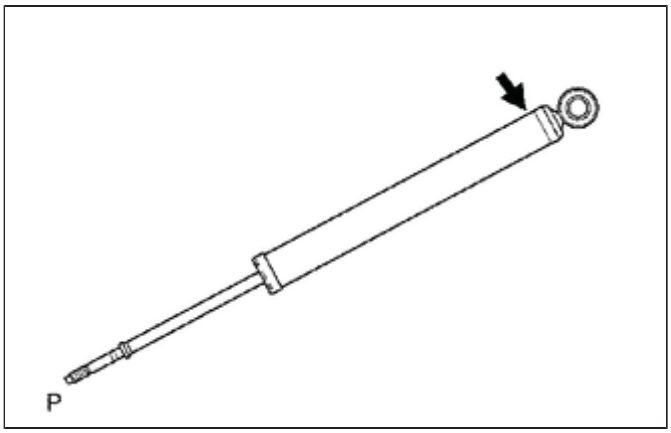
| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RMKS |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR SHOCK ABSORBER: DISPOSAL; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

# DISPOSAL

# PROCEDURE

### 1. DISPOSE OF REAR SHOCK ABSORBER ASSEMBLY

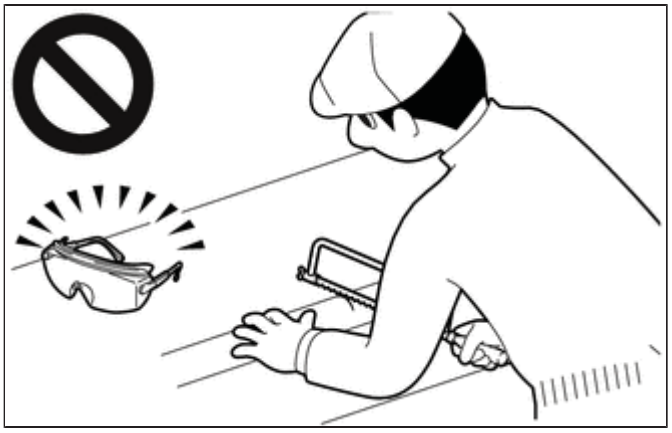
(a) Extend the piston rod and secure the rear shock absorber assembly at an angle in a vise.




(b) Using a hacksaw, slowly make a hole at the position indicated by the arrow in the illustration to discharge the gas inside.

**CAUTION:**

- Always use a cloth to prevent shards of metal flying about due to the release of pressurized gas.
- Always wear safety glasses.



**HINT:**

The gas is colorless, odorless and non-poisonous.

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RMKU |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - ] |
| **Title:** REAR SUSPENSION: REAR SHOCK ABSORBER: INSPECTION; 2016 - 2019 MY Prius [11/2015 - ] | | |

# INSPECTION

# PROCEDURE

### 1. INSPECT REAR SHOCK ABSORBER ASSEMBLY

(a) Compress and extend the rear shock absorber assembly rod 4 or more times.

Standard:

When compressed and extended at a constant speed, the stroke of the shock absorber rod is smooth with no abnormal resistance or sounds. When extended, the shock absorber rod returns to its original position at a constant speed with no abnormal sounds.

**HINT:**

If there are any abnormalities, replace the rear shock absorber assembly with a new one.

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RMKT |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR SHOCK ABSORBER: INSTALLATION; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

# INSTALLATION

# CAUTION / NOTICE / HINT

**HINT:**

- Use the same procedure for the RH side and LH side.
- The following procedure is for the LH side.

# PROCEDURE

### 1. INSTALL REAR SUSPENSION SUPPORT ASSEMBLY

(a) Secure the rear suspension support assembly in a vise using aluminum plates.

**NOTICE:**

Do not overtighten the vise.

(b) Install the rear suspension support assembly to the rear shock absorber assembly.

(c) Apply a few drops of adhesive to the threads of a new rear support to rear shock absorber nut.

Adhesive:
Toyota Genuine Adhesive 1324, Three Bond 1324 or equivalent

(d) Using SST and a 6 mm hexagon socket wrench, hold the rear shock absorber rod and tighten the rear support to rear shock absorber nut.

**SST: 09729-97202**

**Torque:**

**Specified tightening torque :**

**25 N·m {255 kgf·cm, 18 ft·lbf}**

**NOTICE:**

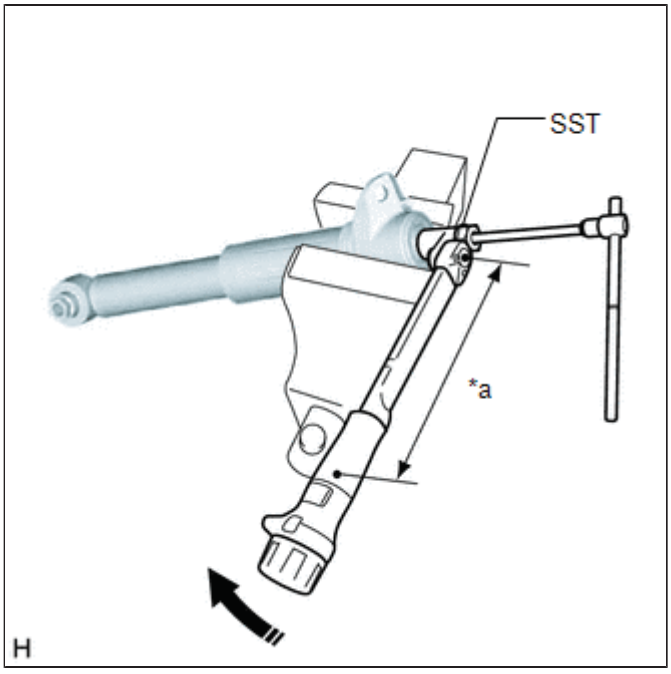
Securely insert the 6 mm hexagon socket wrench into the rear shock absorber rod to prevent damage to the rear shock absorber assembly when tightening the rear support to rear shock absorber nut.

**HINT:**

- Calculate the torque wrench reading when changing the fulcrum length of the torque wrench.

  Click here INFO INFO
- When using SST (fulcrum length of 40 mm (1.57 in.)) + torque wrench (fulcrum length of 180 mm (7.09 in.)):

  20 N*m (204 kgf*cm, 15 ft.*lbf)




| | |
|---|---|
| *a | Torque Wrench Fulcrum Length |

### 2. INSTALL REAR SHOCK ABSORBER CAP

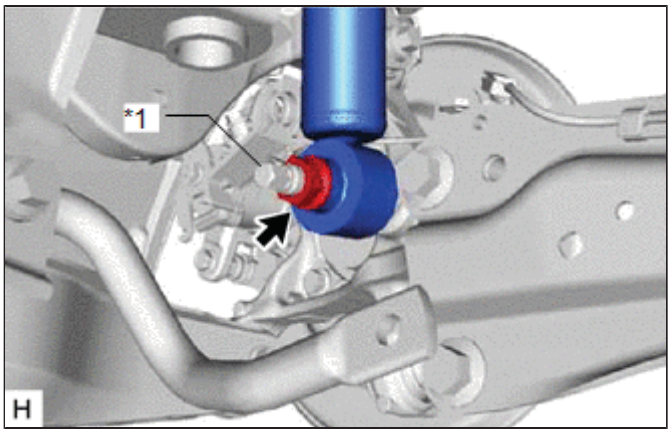
(a) Install the rear shock absorber cap to the rear shock absorber assembly.

### 3. TEMPORARILY INSTALL REAR SHOCK ABSORBER ASSEMBLY

(a) Temporarily install the rear shock absorber assembly to the rear axle carrier sub-assembly with the nut and plate washer.

**NOTICE:**

Hold the rear axle carrier pin while rotating the nut.




| | |
|---|---|
| *1 | Rear Axle Carrier Pin |

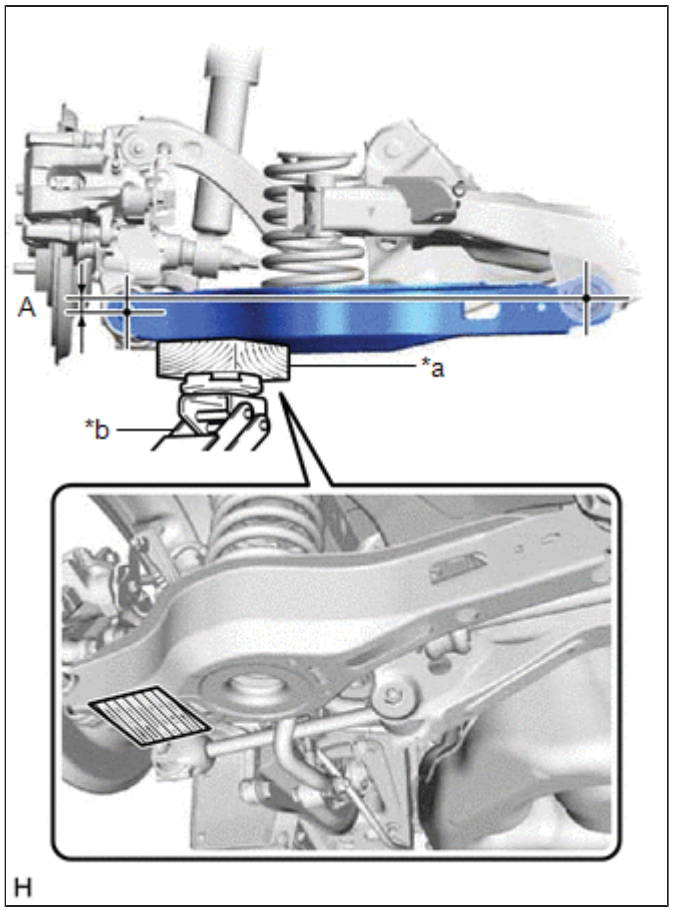
## 4. STABILIZE SUSPENSION

(a) Using a jack and a wooden block, apply load to the suspension so that the rear No. 2 suspension arm assembly is positioned as shown in the illustration.

Standard Length (A):
13 mm (0.512 in.)

**CAUTION:**

Do not jack up the rear No. 2 suspension arm assembly too high as the vehicle may fall.




| | |
|---|---|
| *a | Wooden Block |

| | |
|---|---|
| *b | Jack |
| | Wooden Block Placement Location |

**NOTICE:**

- When jacking up the rear No. 2 suspension arm assembly, be sure to jack it up slowly.
- Make sure to perform this operation with the vehicle kept as low as possible.

### 5. TEMPORARILY INSTALL REAR UPPER CONTROL ARM ASSEMBLY

(a) Temporarily install the rear upper control arm assembly to the rear axle carrier sub-assembly with the bolt and nut.

**NOTICE:**

- Insert the bolt with the threaded end facing the rear of the vehicle.
- Because the nut has its own stopper, do not turn the nut. Tighten the bolt with the nut secured.

### 6. CONNECT REAR SHOCK ABSORBER ASSEMBLY

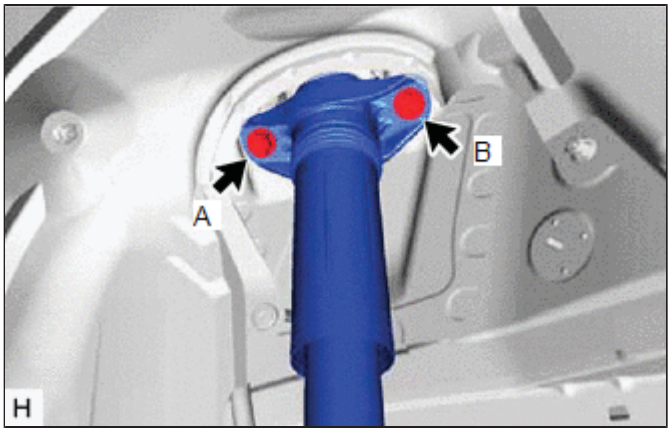
(a) Connect the rear shock absorber assembly to the vehicle with the 2 bolts.

**Torque:**

**55 N·m {561 kgf·cm, 41 ft·lbf}**

**NOTICE:**

Temporarily tighten bolt (A) and then fully tighten the 2 bolts in the order of (B) and (A).




### 7. INSTALL REAR SHOCK ABSORBER ASSEMBLY

(a) Using a ball joint lock nut wrench fully tighten the rear shock absorber assembly with the nut.

**Torque:**

**Specified tightening torque :**

**125 N·m {1275 kgf·cm, 92 ft·lbf}**

**NOTICE:**

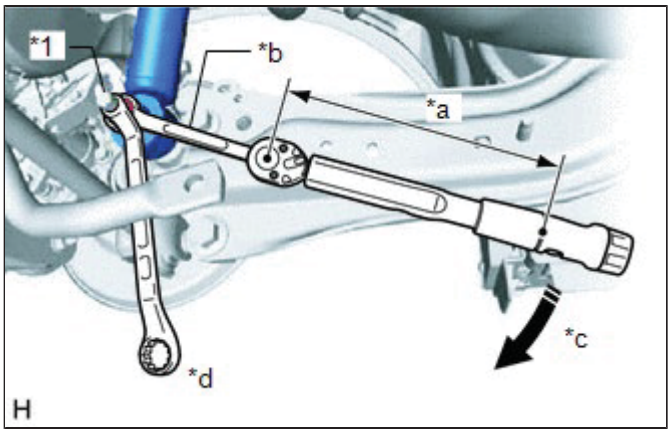
Hold the rear axle carrier pin while rotating the nut.

**HINT:**

- Calculate the torque wrench reading when changing the fulcrum length of the torque wrench.

  Click here INFO INFO

- When using a ball joint lock nut wrench (fulcrum length of 150.25 mm (5.92 in.)) + torque wrench (fulcrum length of 400 mm (1.31 ft.)):




| | |
|---|---|
| *1 | Rear Axle Carrier Pin |
| *a | Torque Wrench Fulcrum Length |
| *b | Ball Joint Lock Nut Wrench |
| | |

91 N*m (928 kgf*cm, 67 ft.*lbf)

| | |
|---|---|
| *c | Turn |
| *d | Hold |

### 8. INSTALL REAR UPPER CONTROL ARM ASSEMBLY

(a) Install the rear upper control arm assembly to the rear axle carrier sub-assembly with the bolt.

**Torque:**

**73 N·m {744 kgf·cm, 54 ft·lbf}**

**NOTICE:**

Because the nut has its own stopper, do not turn the nut. Tighten the bolt with the nut secured.

### 9. INSTALL REAR STABILIZER LINK ASSEMBLY

Click here INFO

### 10. INSTALL REAR FLOOR SIDE MEMBER COVER LH (for LH Side)

Click here INFO

### 11. INSTALL NO. 1 FLOOR UNDER COVER ASSEMBLY (for RH Side)

Click here INFO

### 12. INSTALL REAR WHEEL

Click here INFO

### 13. INSPECT AND ADJUST REAR WHEEL ALIGNMENT

Click here INFO

### 14. PERFORM INITIALIZATION

| | |
|---|---|
| Intelligent clearance sonar system | INFO |
| Simple advanced parking guidance system | |

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RMKW |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR SHOCK ABSORBER: REMOVAL; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

# REMOVAL

# CAUTION / NOTICE / HINT

The necessary procedures (adjustment, calibration, initialization, or registration) that must be performed after parts are removed and installed, or replaced during rear shock absorber assembly removal/installation are shown below.

**Necessary Procedures After Parts Removed / Installed / Replaced**

| REPLACED PART OR PERFORMED PROCEDURE | NECESSARY PROCEDURE | EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED | LINK |
|---|---|---|---|
| Rear wheel alignment adjustment | 1. Clear zero point calibration data.<br>2. Perform yaw rate and acceleration sensor zero point calibration. | • DTCs are stored<br>• ABS warning light illuminates<br>• Brake warning light/yellow (minor malfunction) illuminates<br>• Slip indicator light illuminates<br>• VSC disabled or malfunctions | INFO |
| Suspension, tires, etc.<br>(The vehicle height changes because of suspension or tire replacement) | • Ultrasonic sensor detection angle<br>• Ultrasonic sensor detection angle registration | • Intelligent clearance sonar system<br>• Simple advanced parking guidance system | INFO |

**HINT:**

- Use the same procedure for the RH side and LH side.
- The following procedure is for the LH side.

# PROCEDURE

**1. REMOVE REAR WHEEL**

Click here INFO

**2. REMOVE REAR FLOOR SIDE MEMBER COVER LH (for LH Side)**

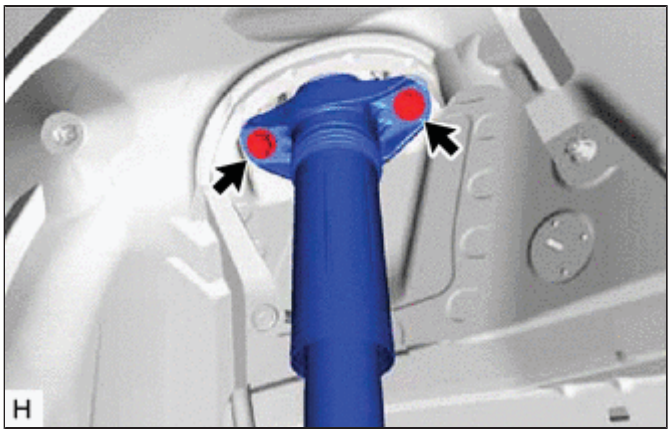
Click here INFO

**3. REMOVE NO. 1 FLOOR UNDER COVER ASSEMBLY (for RH Side)**

Click here INFO

**4. SEPARATE REAR SHOCK ABSORBER ASSEMBLY**

(a) Remove the 2 bolts and separate the rear shock absorber assembly from the vehicle.

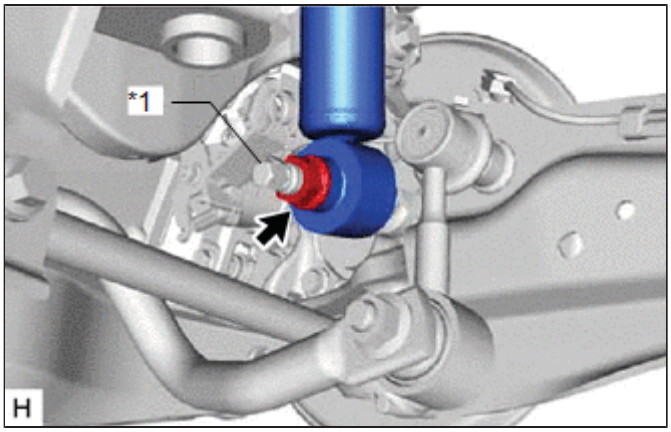



## 5. LOOSEN REAR SHOCK ABSORBER ASSEMBLY

(a) Loosen the nut of the rear shock absorber assembly.

**NOTICE:**

Hold the rear axle carrier pin while rotating the nut.




| | |
|---|---|
| *1 | Rear Axle Carrier Pin |

## 6. REMOVE REAR STABILIZER LINK ASSEMBLY

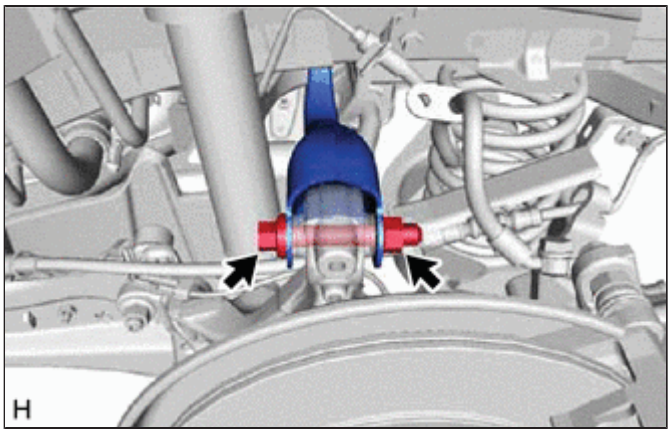
Click here INFO

## 7. SEPARATE REAR UPPER CONTROL ARM ASSEMBLY

(a) Remove the bolt and nut, and separate the rear upper control arm assembly from the rear axle carrier sub-assembly.

**NOTICE:**

Because the nut has its own stopper, do not turn the nut. Loosen the bolt with the nut secured.

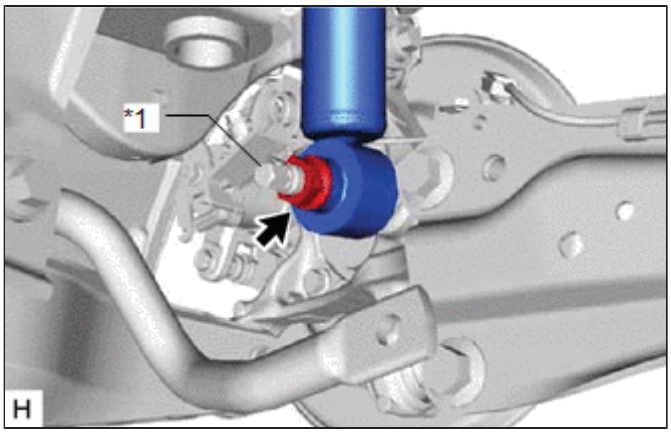


## 8. REMOVE REAR SHOCK ABSORBER ASSEMBLY

(a) Remove the nut, plate washer and rear shock absorber assembly from the rear axle carrier sub-assembly.

**NOTICE:**

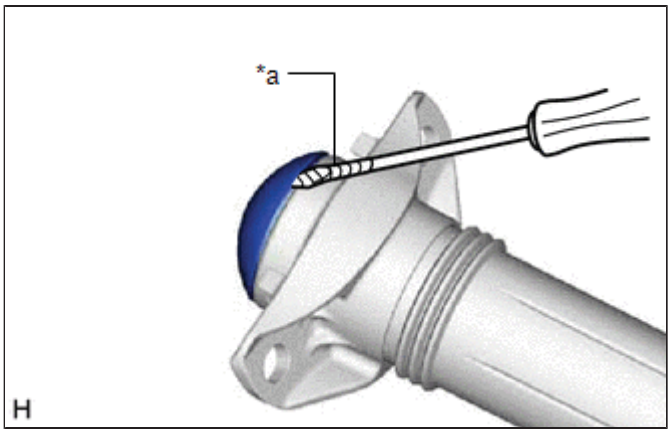
Hold the rear axle carrier pin while rotating the nut.




| | |
|---|---|
| *1 | Rear Axle Carrier Pin |

## 9. REMOVE REAR SHOCK ABSORBER CAP

(a) Using a screwdriver with its tip wrapped with protective tape, remove the rear shock absorber cap from the rear shock absorber assembly.



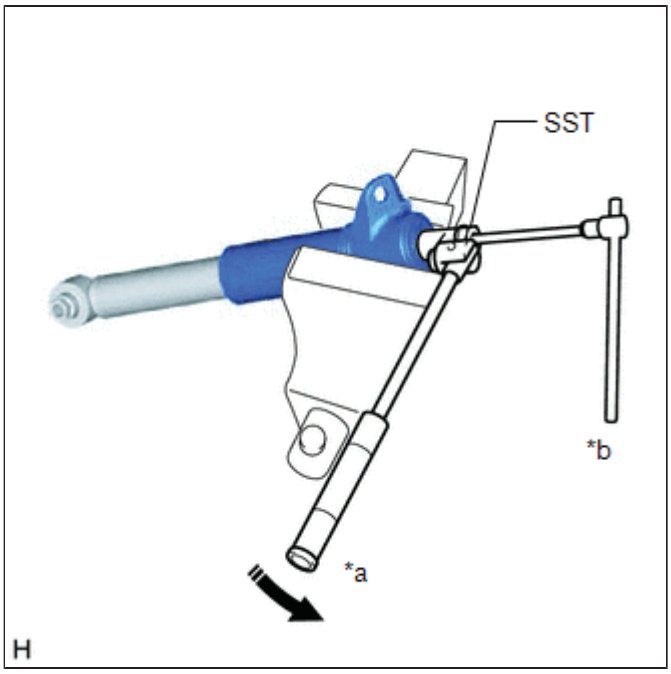

| | |
|---|---|
| *a | Protective Tape |

## 10. REMOVE REAR SUSPENSION SUPPORT ASSEMBLY

(a) Secure the rear shock absorber assembly in a vise using aluminum plates.

**NOTICE:**

Do not overtighten the vise.




| | |
|---|---|
| *a | Turn |
| *b | Hold |

(b) Using SST and a 6 mm hexagon socket wrench, hold the rear shock absorber rod and remove the rear support to rear shock absorber nut.

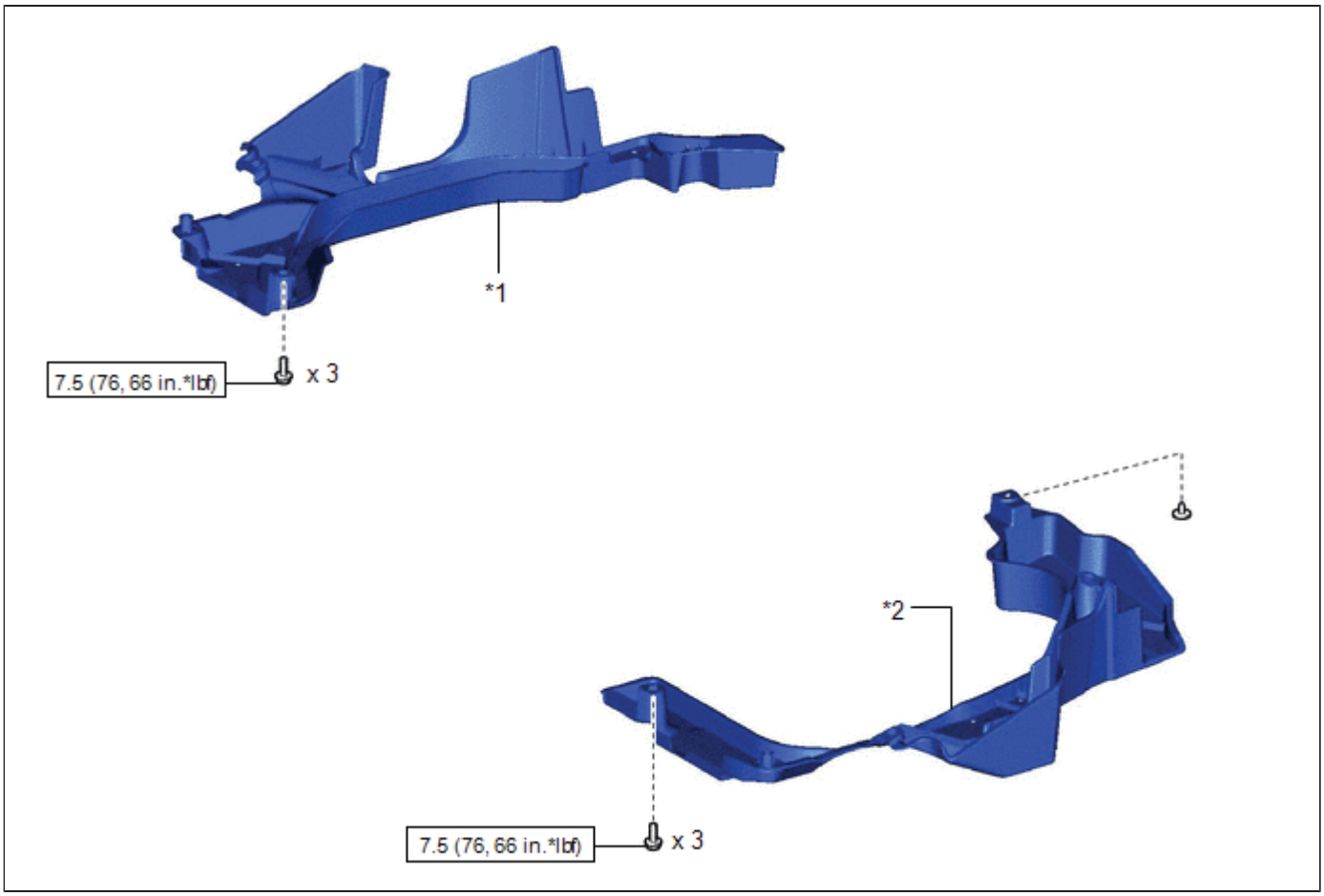
**SST: 09729-97202**

(c) Remove the rear suspension support assembly from the rear shock absorber assembly.

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RMLB |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR STABILIZER BAR: COMPONENTS; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

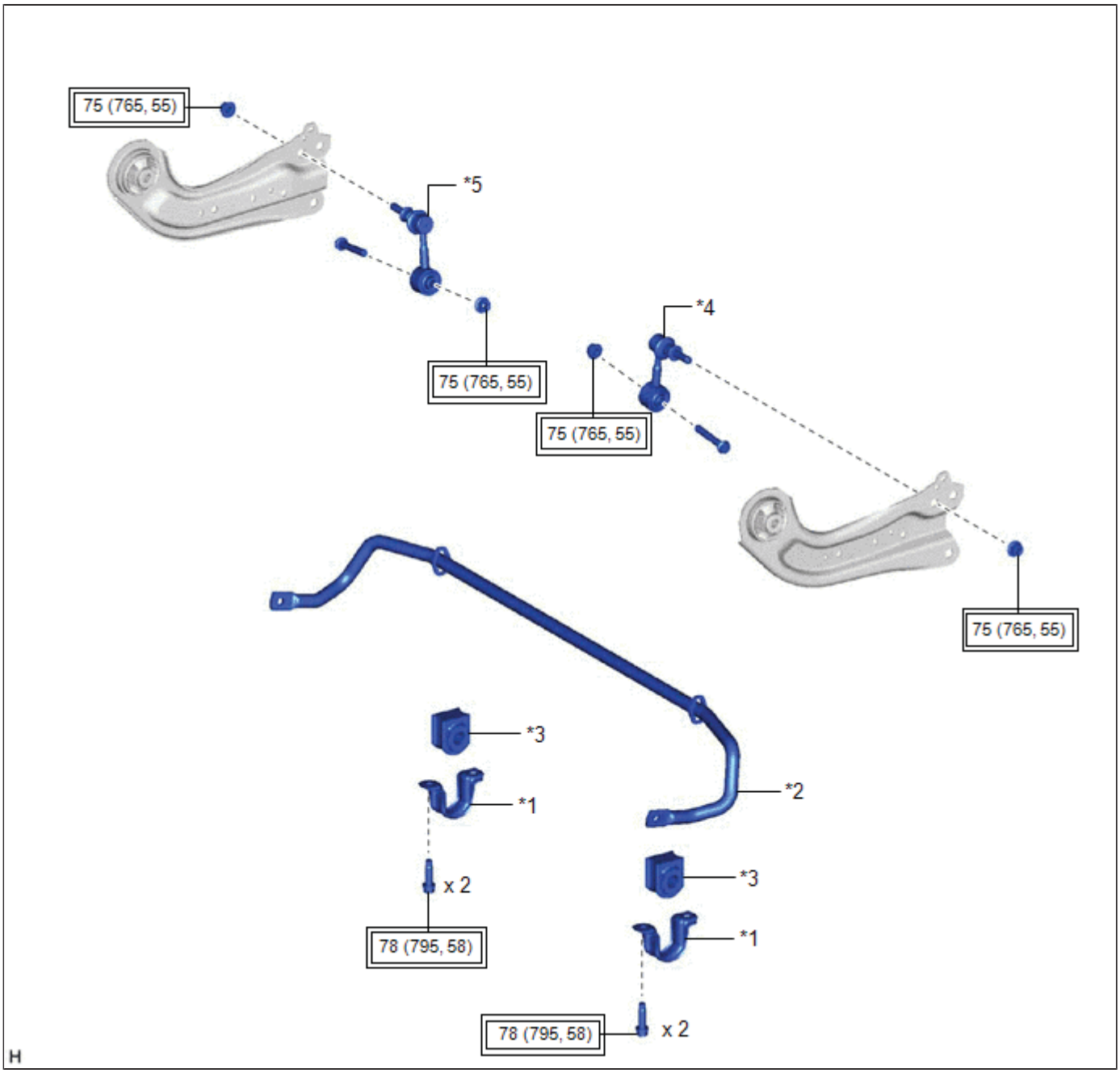
## COMPONENTS

## ILLUSTRATION




| | | | |
|---|---|---|---|
| *1 | NO. 1 FLOOR UNDER COVER ASSEMBLY | *2 | REAR FLOOR SIDE MEMBER COVER LH |
| □ | N*m (kgf*cm, ft.*lbf): Specified torque | - | - |

## ILLUSTRATION



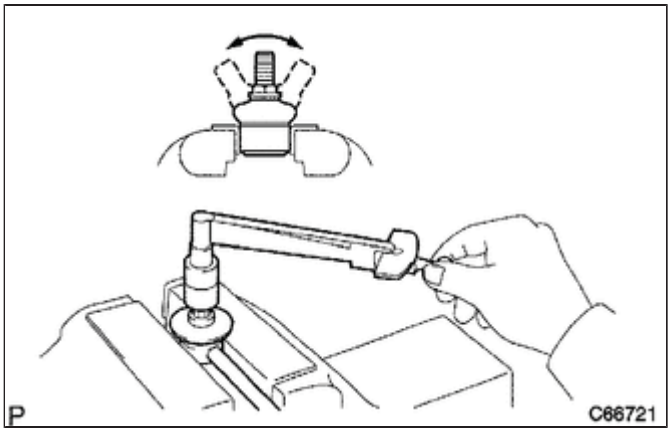

| | | | |
|---|---|---|---|
| *1 | REAR NO. 1 STABILIZER BAR BRACKET | *2 | REAR STABILIZER BAR |
| *3 | REAR STABILIZER BUSHING | *4 | REAR STABILIZER LINK ASSEMBLY LH |
| *5 | REAR STABILIZER LINK ASSEMBLY RH | - | - |
| ▭ | Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping" : N*m (kgf*cm, ft.*lbf) | - | - |

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RMLA |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR STABILIZER BAR: INSPECTION; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

# INSPECTION

# PROCEDURE

### 1. INSPECT REAR STABILIZER LINK ASSEMBLY




(a) Inspect the turning torque of the ball joint.

(1) Secure the rear stabilizer link assembly in a vise using aluminum plates.

**NOTICE:**

Do not overtighten the vise.

(2) Install the nut to the rear stabilizer link assembly stud.

(3) Move the stud back and forth several times. Using a torque wrench, turn the stud continuously at a rate of 3 to 5 seconds per turn and take the torque reading on the 5th turn.

**Standard Turning Torque**

| SPECIFIED CONDITION |
|---|
| 0.05 to 1.96 N*m |
| 0.6 to 19 kgf*cm |
| 0.5 to 17 in.*lbf |

**HINT:**

If the turning torque is not within the specified range, replace the rear stabilizer link assembly with a new one.

(4) Turn the stud to check that the stud does not catch and there is no play

**HINT:**

If the stud catches or there is play while turning, replace the rear stabilizer link assembly with a new one.

(b) Inspect the dust cover.

(1) Check that the dust cover is not cracked and that there is no grease on it.

**HINT:**

If the dust cover is cracked or there is grease on it, replace the rear stabilizer link assembly with a new one.

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RML9 |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR STABILIZER BAR: INSTALLATION; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

# INSTALLATION

# PROCEDURE

### 1. INSTALL REAR STABILIZER BUSHING

(a) Install the 2 rear stabilizer bushings to the rear stabilizer bar.

**NOTICE:**

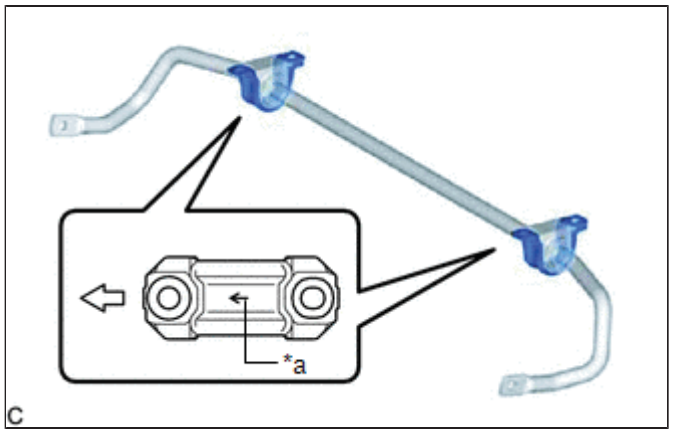
Be sure to install the rear stabilizer bushings so that each cutout faces the front of the vehicle.

### 2. INSTALL REAR NO. 1 STABILIZER BAR BRACKET

(a) Install the 2 rear No. 1 stabilizer bar brackets to the 2 rear stabilizer bushings.

**NOTICE:**

Be sure to install the rear No. 1 stabilizer bar brackets so that each arrow mark faces the front of the vehicle.




| | |
|---|---|
| *a | Arrow Mark |
| ⇨ | Front of the Vehicle |

### 3. INSTALL REAR STABILIZER BAR

(a) Install the rear stabilizer bar, 2 rear No. 1 stabilizer bar brackets and 2 rear stabilizer bushings to the rear suspension member sub-assembly with the 4 bolts.

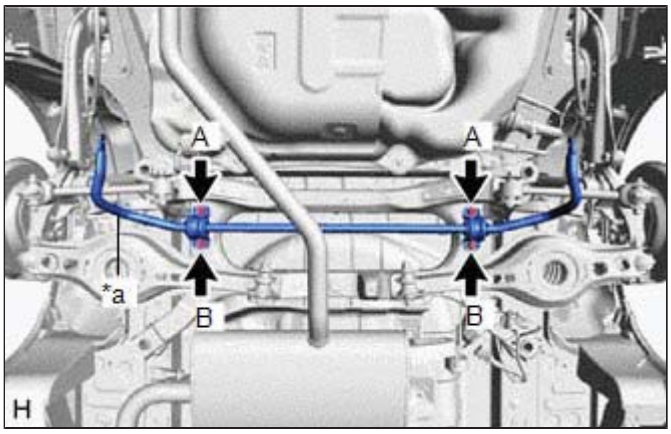
**Torque:**

**78 N·m {795 kgf·cm, 58 ft·lbf}**

**NOTICE:**

- Ensure that the identification mark faces the right side of the vehicle.
- Temporarily tighten bolt (A) and then fully tighten the 2

bolts in the order of (B) and (A).




| | |
|---|---|
| *a | Identification Mark |

### 4. STABILIZE SUSPENSION

Click here INFO

### 5. INSTALL REAR STABILIZER LINK ASSEMBLY LH

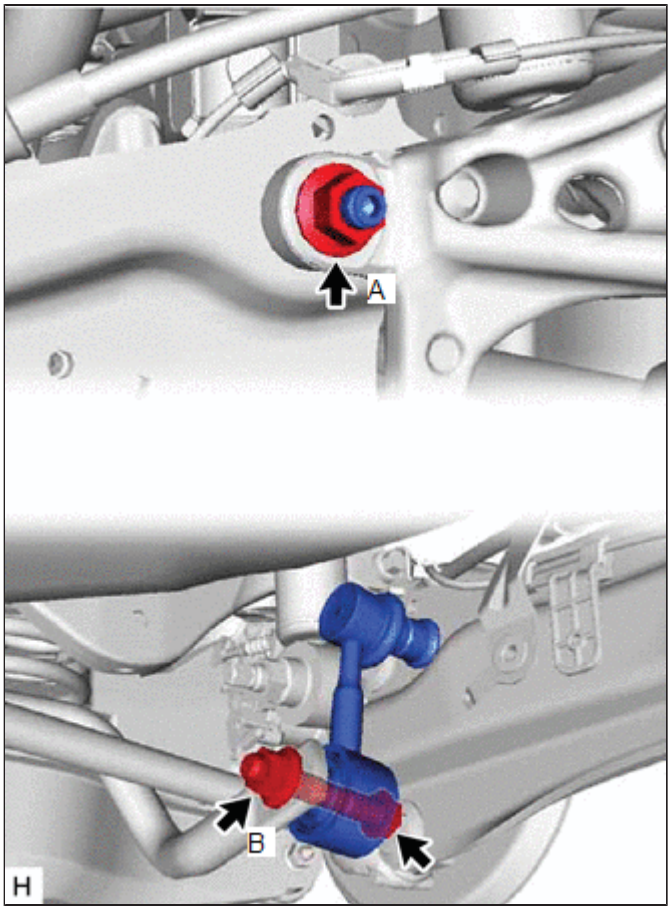
(a) Install the rear stabilizer link assembly LH with the nut (A).

**Torque:**

**75 N·m {765 kgf·cm, 55 ft·lbf}**

**HINT:**

If the ball joint turns together with the nut, use a 6 mm hexagon socket wrench to hold the stud bolt.




(b) Install the rear stabilizer link assembly LH with the bolt and nut (B).

**Torque:**

**75 N·m {765 kgf·cm, 55 ft·lbf}**

**NOTICE:**

Because the bolt has its own stopper, do not turn the bolt. Tighten the nut with the bolt secured.

### 6. INSTALL REAR STABILIZER LINK ASSEMBLY RH

**HINT:**

Perform the same procedure as for the LH side.

### 7. INSTALL REAR FLOOR SIDE MEMBER COVER LH

Click here INFO

### 8. INSTALL NO. 1 FLOOR UNDER COVER ASSEMBLY

Click here INFO

### 9. INSTALL REAR WHEEL

Click here INFO

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RMLC |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR STABILIZER BAR: REMOVAL; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

# REMOVAL

# PROCEDURE

**1. REMOVE REAR WHEEL**

Click here INFO

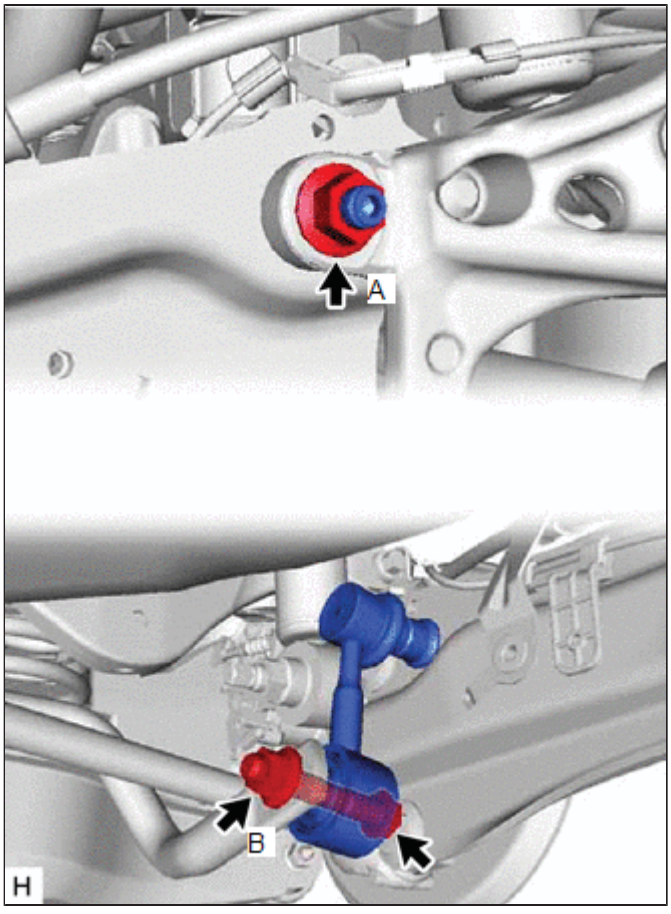
**2. REMOVE REAR FLOOR SIDE MEMBER COVER LH**

Click here INFO

**3. REMOVE NO. 1 FLOOR UNDER COVER ASSEMBLY**

Click here INFO

**4. REMOVE REAR STABILIZER LINK ASSEMBLY LH**




(a) Loosen the nut (A) of the rear stabilizer link assembly LH.

**HINT:**

If the ball joint turns together with the nut, use a 6 mm hexagon socket wrench to hold the stud bolt.

(b) Loosen the nut (B) of the rear stabilizer link assembly LH.

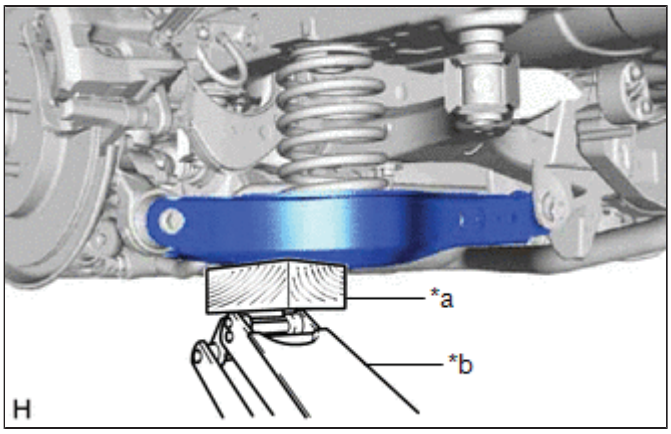
**NOTICE:**

Because the bolt has its own stopper, do not turn the bolt. Loosen the nut with the bolt secured.

(c) Using a jack and a wooden block, support the rear No. 2 suspension arm assembly.

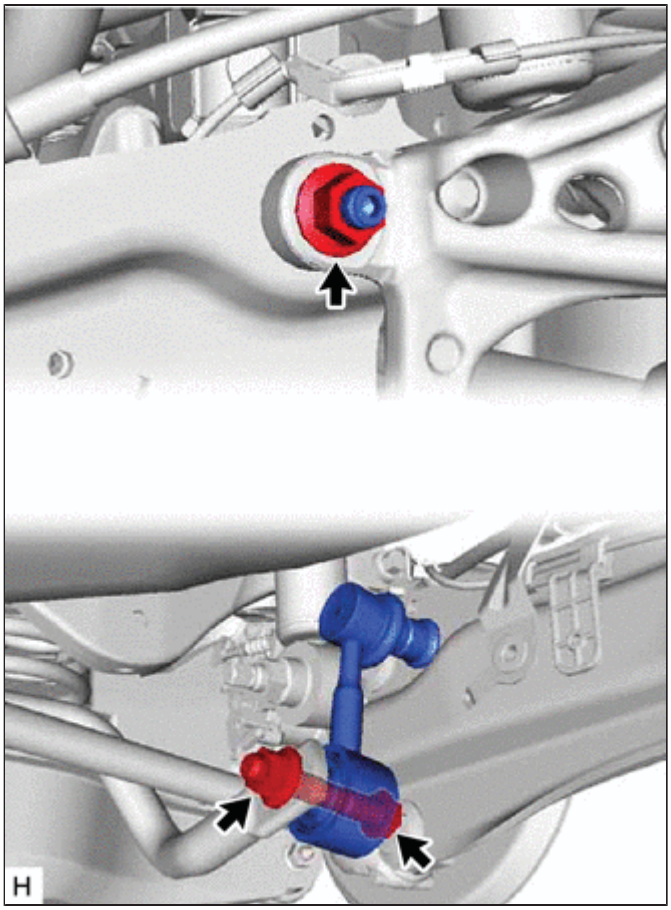
**NOTICE:**

- When jacking up the rear No. 2 suspension arm assembly, be sure to jack it up slowly.
- Make sure to perform this operation with the vehicle kept as low as possible.




| | |
|---|---|
| *a | Wooden Block |
| *b | Jack |

(d) Remove the bolt, 2 nuts and rear stabilizer link assembly LH.



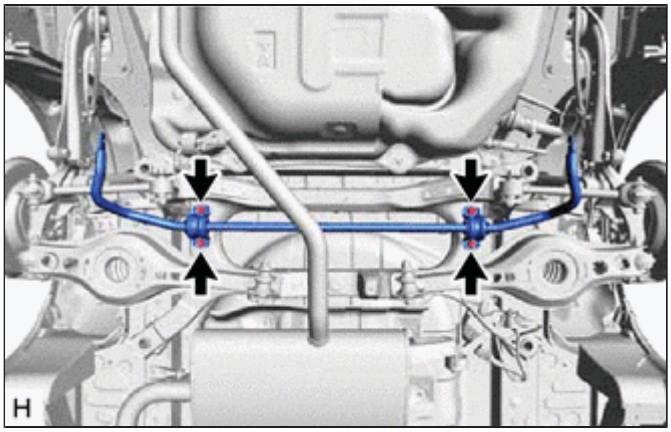

## 5. REMOVE REAR STABILIZER LINK ASSEMBLY RH

**HINT:**

Perform the same procedure as for the LH side.

## 6. REMOVE REAR STABILIZER BAR

(a) Remove the 4 bolts, rear stabilizer bar, 2 rear No. 1 stabilizer bar brackets and 2 rear stabilizer bushings from the rear suspension member sub-assembly.

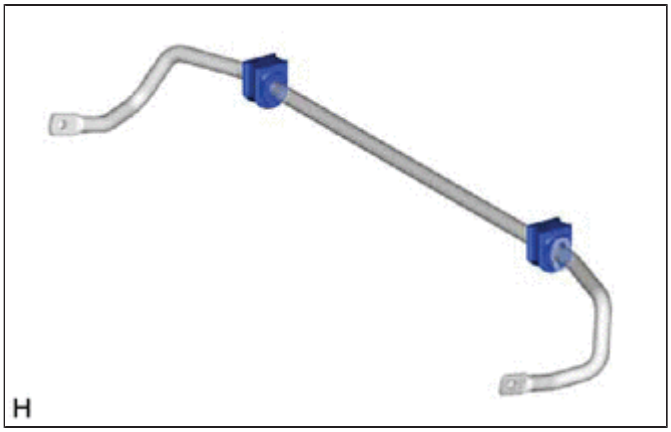



## 7. REMOVE REAR NO. 1 STABILIZER BAR BRACKET

(a) Remove the 2 rear No. 1 stabilizer bar brackets from the 2 rear stabilizer bushings.


## 8. REMOVE REAR STABILIZER BUSHING

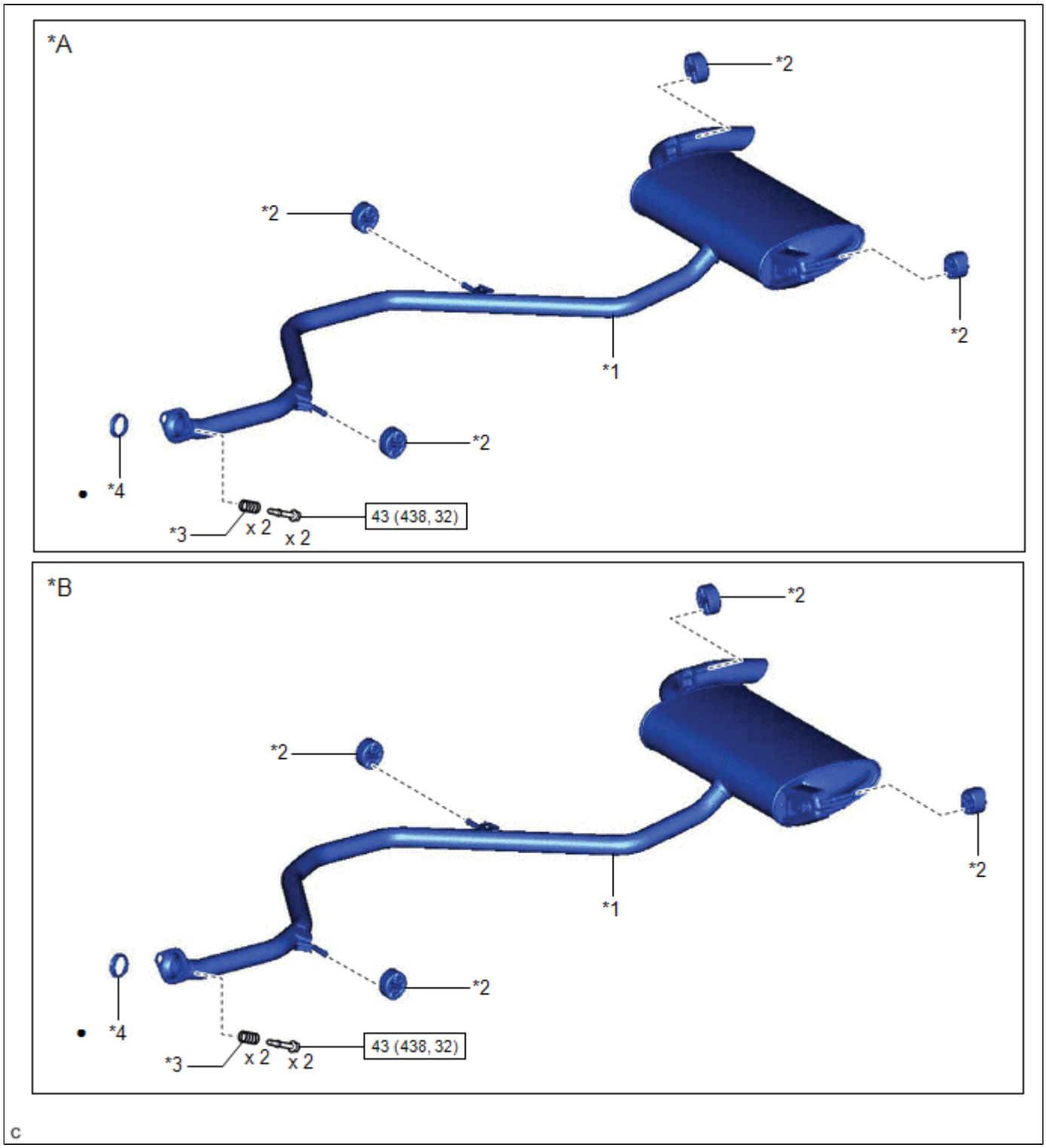
(a) Remove the 2 rear stabilizer bushings from the rear stabilizer bar.



| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RMLE |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR SUSPENSION MEMBER: COMPONENTS; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

## COMPONENTS

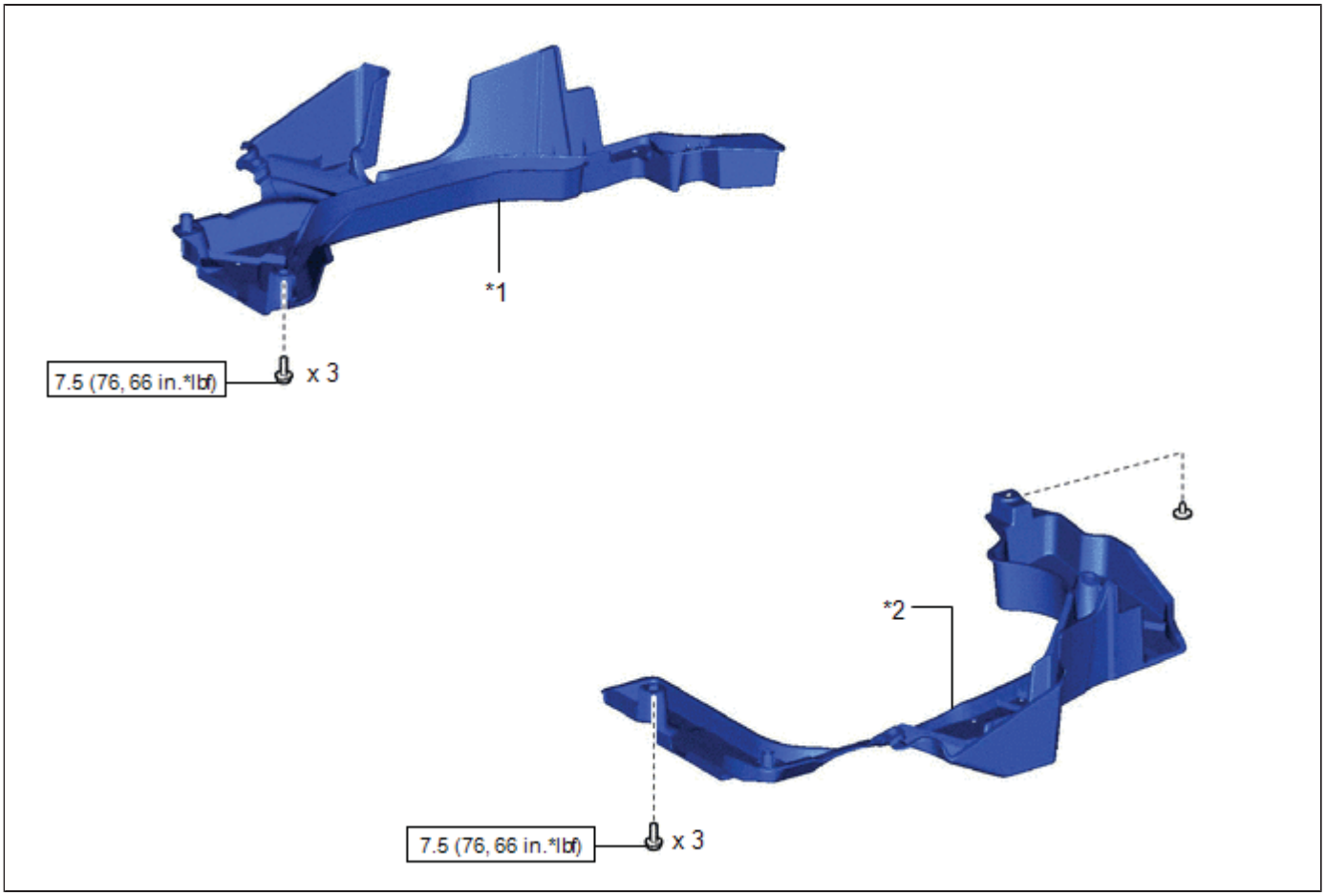
## ILLUSTRATION




| | | | |
|---|---|---|---|
| *A | w/ Exhaust Heat Recirculation System | *B | w/o Exhaust Heat Recirculation |

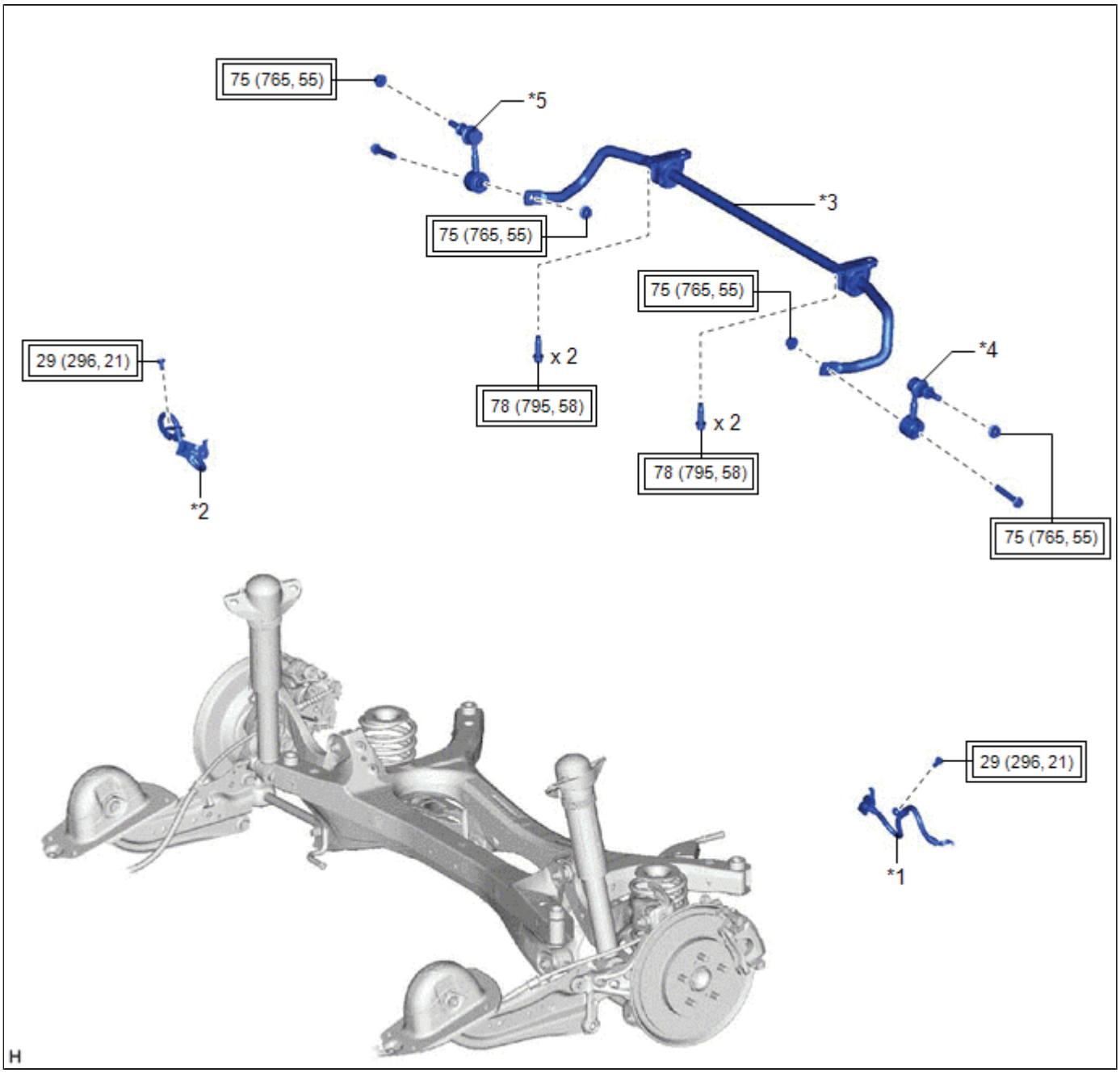
| | | | |
|---|---|---|---|
| | | | System |
| *1 | TAIL EXHAUST PIPE ASSEMBLY | *2 | EXHAUST PIPE SUPPORT |
| *3 | COMPRESSION SPRING | *4 | EXHAUST PIPE GASKET |
| □ | N*m (kgf*cm, ft.*lbf): Specified torque | • | Non-reusable part |

## ILLUSTRATION



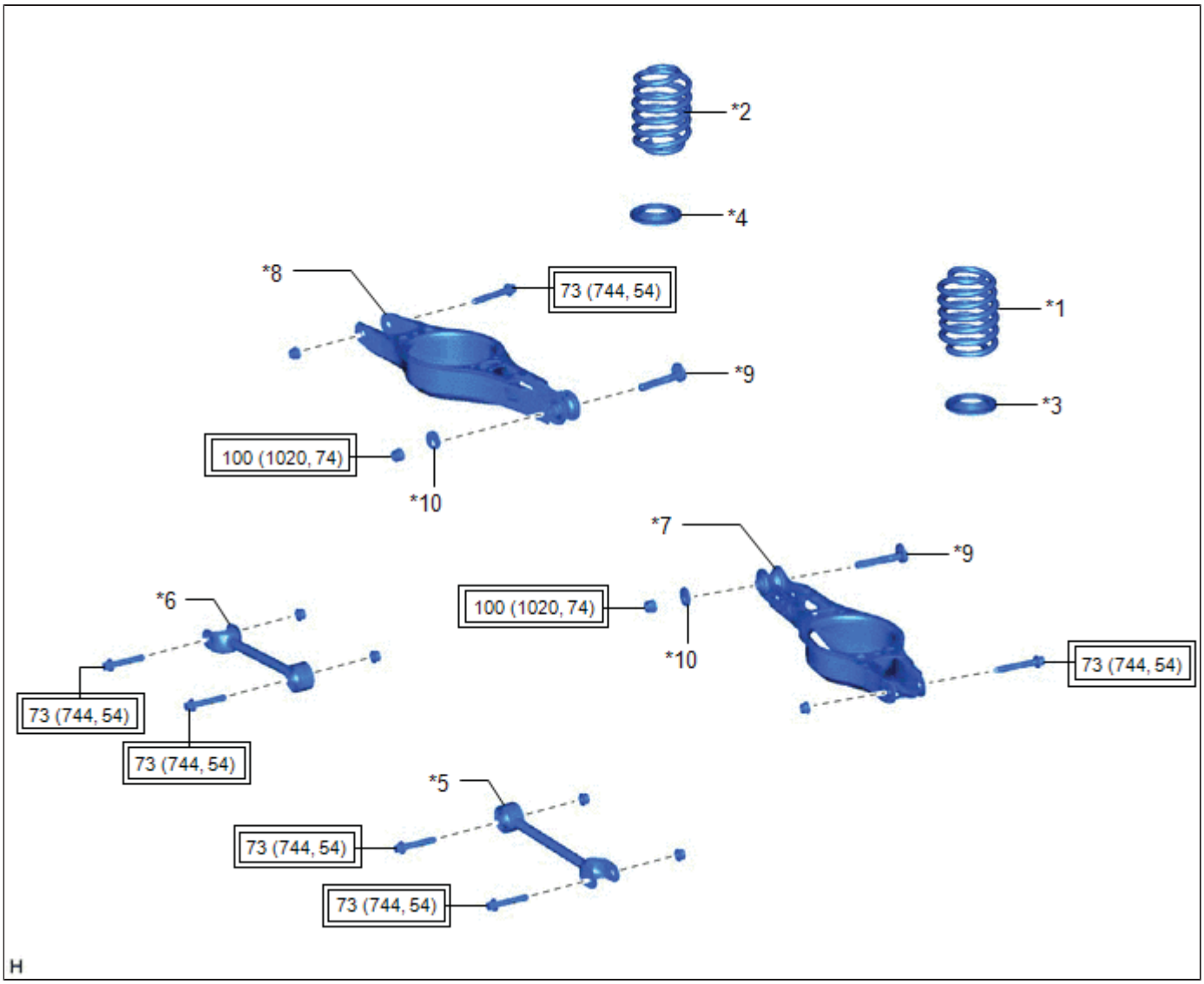

| | | | |
|---|---|---|---|
| *1 | NO. 1 FLOOR UNDER COVER ASSEMBLY | *2 | REAR FLOOR SIDE MEMBER COVER LH |
| □ | N*m (kgf*cm, ft.*lbf): Specified torque | - | - |

## ILLUSTRATION



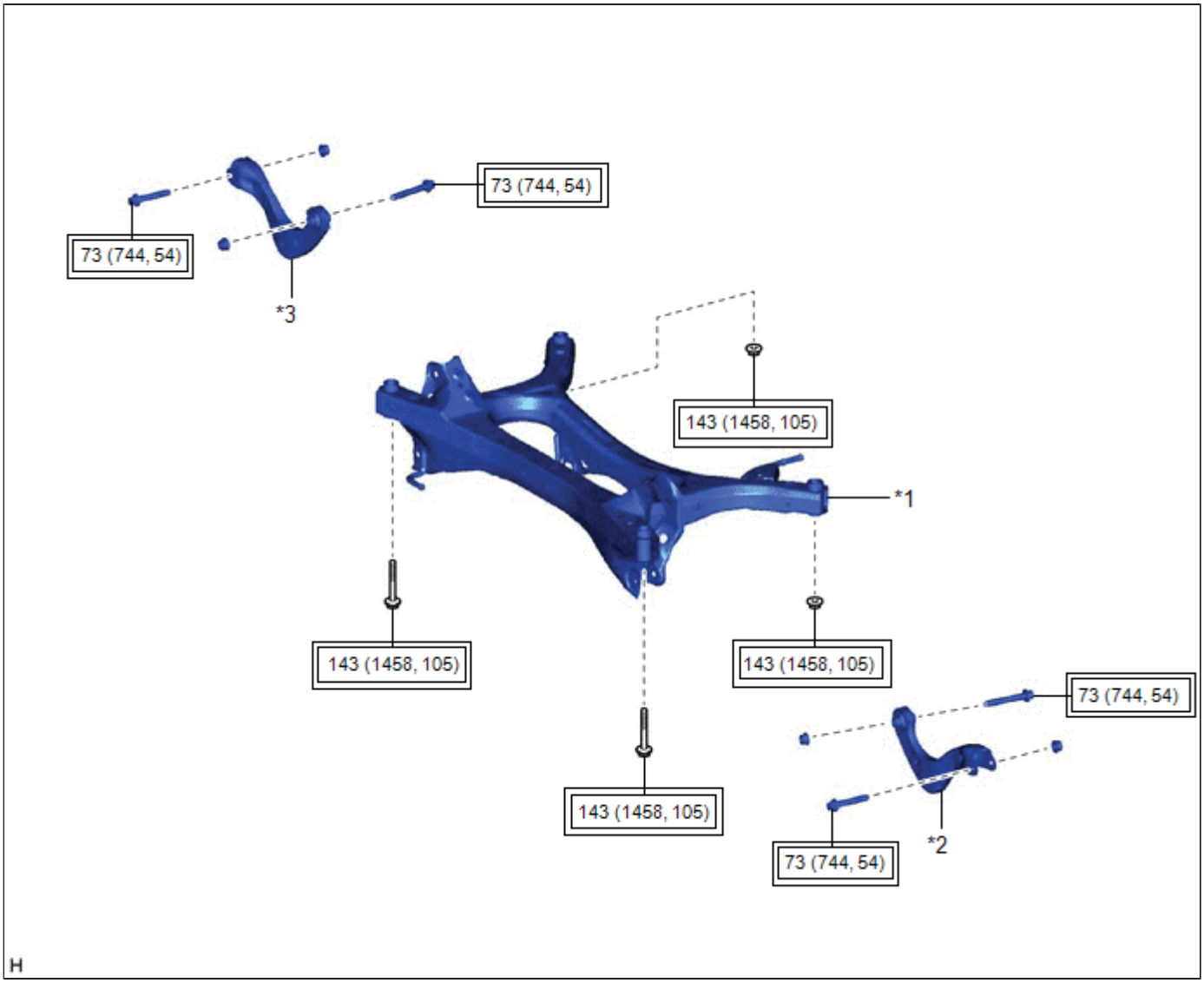

| | | | |
|---|---|---|---|
| *1 | REAR FLEXIBLE HOSE LH | *2 | REAR FLEXIBLE HOSE RH |
| *3 | REAR STABILIZER BAR | *4 | REAR STABILIZER LINK ASSEMBLY LH |
| *5 | REAR STABILIZER LINK ASSEMBLY RH | - | - |
| ▭ | Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping" : N*m (kgf*cm, ft.*lbf) | - | - |

## ILLUSTRATION



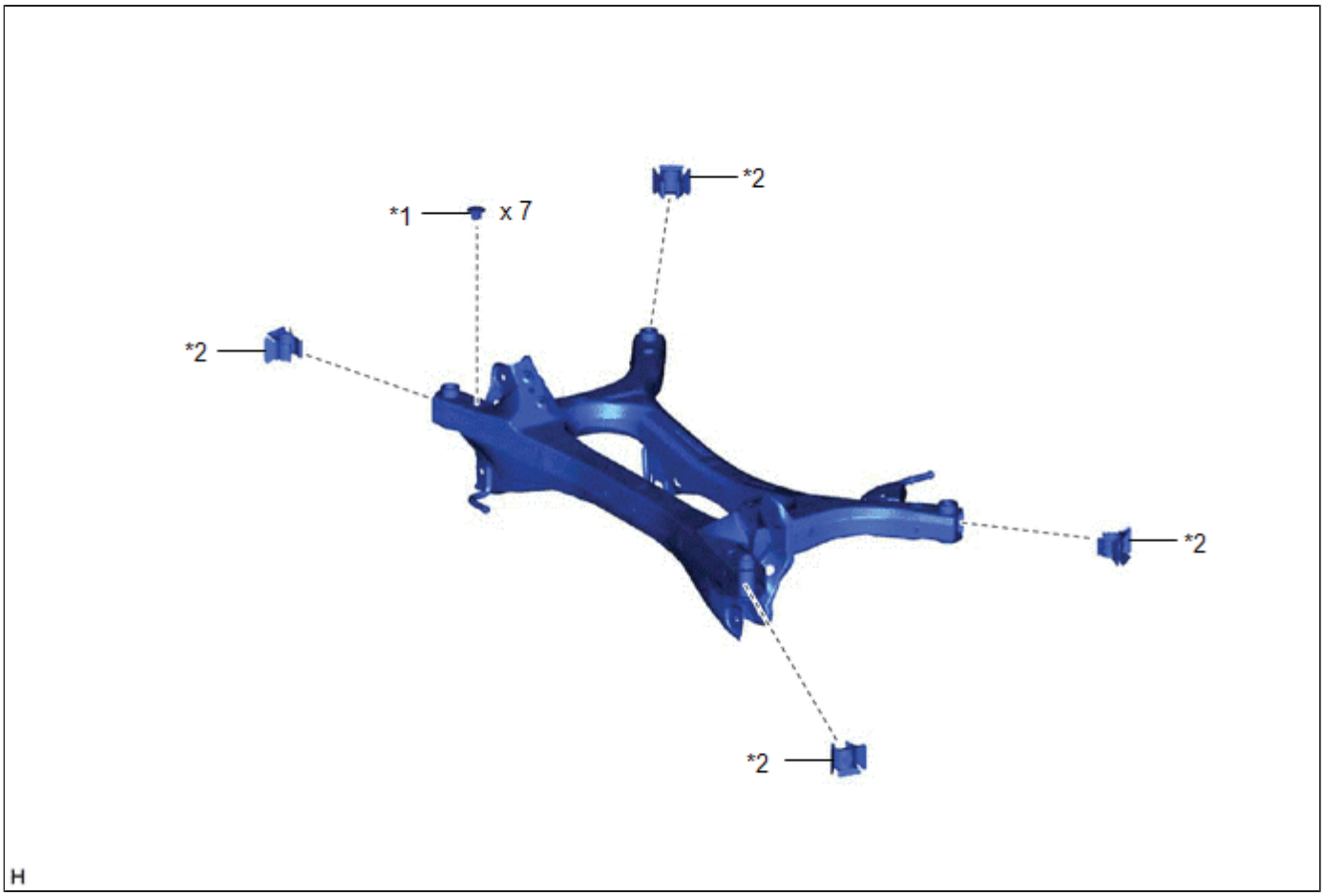

| | | | |
|---|---|---|---|
| *1 | REAR COIL SPRING LH | *2 | REAR COIL SPRING RH |
| *3 | REAR LOWER COIL SPRING INSULATOR LH | *4 | REAR LOWER COIL SPRING INSULATOR RH |
| *5 | REAR NO. 1 SUSPENSION ARM ASSEMBLY LH | *6 | REAR NO. 1 SUSPENSION ARM ASSEMBLY RH |
| *7 | REAR NO. 2 SUSPENSION ARM ASSEMBLY LH | *8 | REAR NO. 2 SUSPENSION ARM ASSEMBLY RH |
| *9 | REAR SUSPENSION TOE ADJUST CAM SUB-ASSEMBLY | *10 | NO. 2 CAMBER ADJUST CAM |
| ▭ | Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping" : N*m (kgf*cm, ft.*lbf) | - | - |

## ILLUSTRATION




| | | | |
|---|---|---|---|
| *1 | REAR SUSPENSION MEMBER SUB-ASSEMBLY | *2 | REAR UPPER CONTROL ARM ASSEMBLY LH |
| *3 | REAR UPPER CONTROL ARM ASSEMBLY RH | - | - |
| ▭ | Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping" : N*m (kgf*cm, ft.*lbf) | - | - |

## ILLUSTRATION




| | | | |
|---|---|---|---|
| *1 | HOLE PLUG | *2 | REAR SUSPENSION MEMBER HOLE COVER |

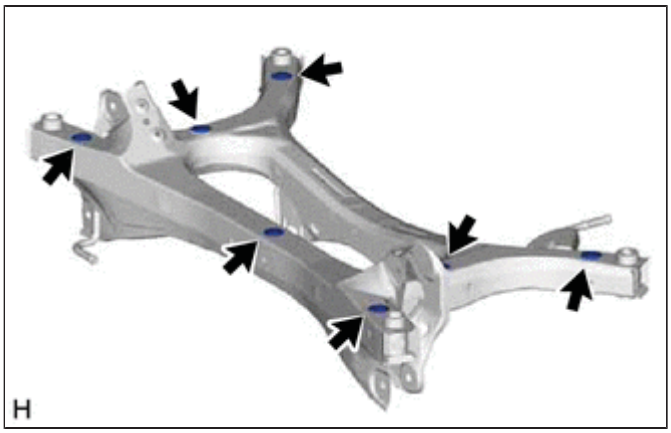
| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RMLD |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR SUSPENSION MEMBER: INSTALLATION; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

# INSTALLATION

# PROCEDURE

### 1. INSTALL HOLE PLUG

(a) Install the 7 hole plugs to the rear suspension member sub-assembly as shown in the illustration.




### 2. INSTALL REAR SUSPENSION MEMBER HOLE COVER

(a) Install the 4 rear suspension member hole covers to the rear suspension member sub-assembly.

### 3. INSTALL REAR UPPER CONTROL ARM ASSEMBLY LH

Click here INFO

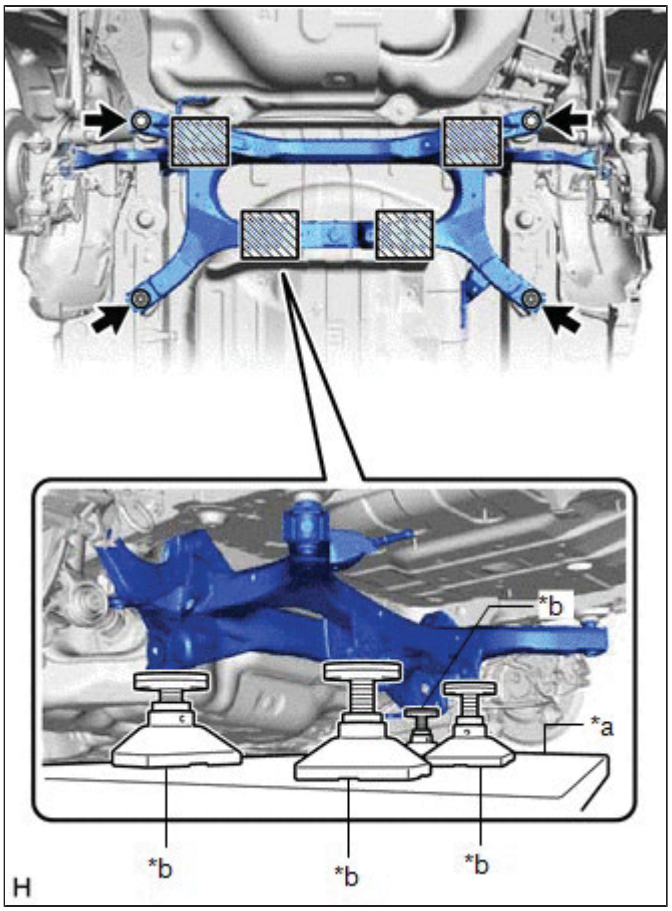
### 4. INSTALL REAR UPPER CONTROL ARM ASSEMBLY RH

**HINT:**

Perform the same procedure as for the LH side.

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

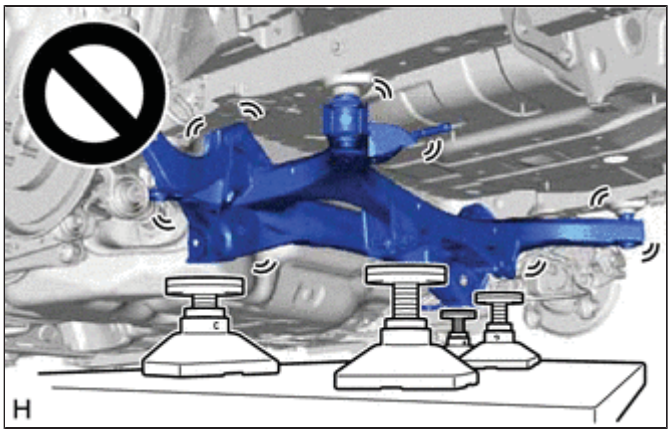
(a) Using an engine lifter and 4 attachments or equivalent tools, support the rear suspension member sub-assembly as shown in the illustration.




| | |
|---|---|
| *a | Engine Lifter |
| *b | Attachment |
| | Attachment and Wooden Block Placement Location |

**CAUTION:**

- The rear suspension member sub-assembly is a very heavy component. Make sure that it is supported securely.
- If the rear suspension member sub-assembly is not securely supported, it may drop, resulting in serious injury.




**NOTICE:**

- Use attachments and wooden blocks to keep the rear suspension member sub-assembly level.
- Keep supporting the rear suspension member sub-assembly until the installation has been completed.

(b) Raise the rear suspension member sub-assembly until there is no clearance between the rear suspension member

sub-assembly and vehicle.

(c) Install the rear suspension member sub-assembly with the 2 bolts and 2 nuts.

**Torque:**

**143 N·m {1458 kgf·cm, 105 ft·lbf}**

### 6. TEMPORARILY INSTALL REAR UPPER CONTROL ARM ASSEMBLY LH

(a) Temporarily install the rear upper control arm assembly LH to the rear axle carrier sub-assembly LH with the bolt and nut.

**NOTICE:**

- Insert the bolt with the threaded end facing the rear of the vehicle.
- Because the nut has its own stopper, do not turn the nut. Tighten the bolt with the nut secured.

### 7. TEMPORARILY INSTALL REAR UPPER CONTROL ARM ASSEMBLY RH

**HINT:**

Perform the same procedure as for the LH side.

### 8. TEMPORARILY INSTALL REAR NO. 1 SUSPENSION ARM ASSEMBLY LH

Click here INFO

### 9. TEMPORARILY INSTALL REAR NO. 1 SUSPENSION ARM ASSEMBLY RH

**HINT:**

Perform the same procedure as for the LH side.

### 10. TEMPORARILY INSTALL REAR NO. 2 SUSPENSION ARM ASSEMBLY LH

Click here INFO

### 11. TEMPORARILY INSTALL REAR NO. 2 SUSPENSION ARM ASSEMBLY RH

**HINT:**

Perform the same procedure as for the LH side.

### 12. INSTALL REAR LOWER COIL SPRING INSULATOR LH

Click here INFO

### 13. INSTALL REAR LOWER COIL SPRING INSULATOR RH

**HINT:**

Perform the same procedure as for the LH side.

### 14. INSTALL REAR COIL SPRING LH

Click here INFO

### 15. INSTALL REAR COIL SPRING RH

**HINT:**

Perform the same procedure as for the LH side.

### 16. INSTALL REAR STABILIZER BAR

Click here INFO

### 17. CONNECT REAR FLEXIBLE HOSE LH

(a) Connect the rear flexible hose LH to the flexible hose bracket with the bolt.

**Torque:**

**29 N·m {296 kgf·cm, 21 ft·lbf}**

### 18. CONNECT REAR FLEXIBLE HOSE RH

**HINT:**

Perform the same procedure as for the LH side.

### 19. STABILIZE SUSPENSION

Click here INFO

### 20. INSTALL REAR STABILIZER LINK ASSEMBLY LH

Click here INFO

### 21. INSTALL REAR STABILIZER LINK ASSEMBLY RH

**HINT:**

Perform the same procedure as for the LH side.

### 22. INSTALL REAR NO. 1 SUSPENSION ARM ASSEMBLY LH

Click here INFO

### 23. INSTALL REAR NO. 1 SUSPENSION ARM ASSEMBLY RH

**HINT:**

Perform the same procedure as for the LH side.

### 24. INSTALL REAR NO. 2 SUSPENSION ARM ASSEMBLY LH

(a) Install the rear No. 2 suspension arm assembly LH (rear axle carrier sub-assembly side) with the bolt.

Click here INFO

### 25. INSTALL REAR NO. 2 SUSPENSION ARM ASSEMBLY RH

**HINT:**

Perform the same procedure as for the LH side.

### 26. INSTALL REAR UPPER CONTROL ARM ASSEMBLY LH

(a) Install the rear upper control arm assembly LH to the rear axle carrier sub-assembly LH with the bolt.

**Torque:**

**73 N·m {744 kgf·cm, 54 ft·lbf}**

**NOTICE:**

Because the nut has its own stopper, do not turn the nut. Tighten the bolt with the nut secured.

### 27. INSTALL REAR UPPER CONTROL ARM ASSEMBLY RH

**HINT:**

Perform the same procedure as for the LH side.

### 28. INSTALL REAR FLOOR SIDE MEMBER COVER LH

Click here INFO

### 29. INSTALL NO. 1 FLOOR UNDER COVER ASSEMBLY

Click here INFO

### 30. INSTALL TAIL EXHAUST PIPE ASSEMBLY

Click here INFO

### 31. INSTALL REAR WHEEL

Click here INFO

### 32. INSTALL REAR NO. 2 SUSPENSION ARM ASSEMBLY LH

(a) Install the rear No. 2 suspension arm assembly LH (rear suspension member sub-assembly side) with the nut.

Click here INFO

### 33. INSTALL REAR NO. 2 SUSPENSION ARM ASSEMBLY RH

**HINT:**

Perform the same procedure as for the LH side.

### 34. INSPECT FOR EXHAUST GAS LEAK

Click here INFO

### 35. INSPECT AND ADJUST REAR WHEEL ALIGNMENT

Click here INFO

### 36. PERFORM INITIALIZATION

| | |
|---|---|
| Intelligent clearance sonar system | INFO |
| Simple advanced parking guidance system | |

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RMLF |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR SUSPENSION MEMBER: REMOVAL; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

# REMOVAL

## CAUTION / NOTICE / HINT

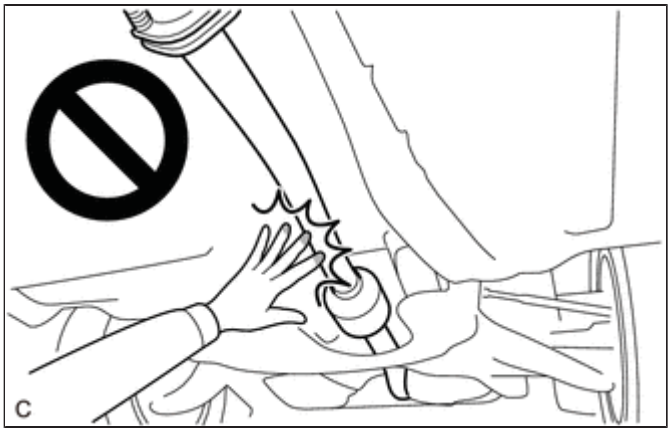
The necessary procedures (adjustment, calibration, initialization, or registration) that must be performed after parts are removed and installed, or replaced during rear suspension member sub-assembly removal/installation are shown below.

**Necessary Procedures After Parts Removed / Installed / Replaced**

| REPLACED PART OR PERFORMED PROCEDURE | NECESSARY PROCEDURE | EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED | LINK |
|---|---|---|---|
| Rear wheel alignment adjustment | 1. Clear zero point calibration data.<br>2. Perform yaw rate and acceleration sensor zero point calibration. | • DTCs are stored<br>• ABS warning light illuminates<br>• Brake warning light/yellow (minor malfunction) illuminates<br>• Slip indicator light illuminates<br>• VSC disabled or malfunctions | INFO |
| Suspension, tires, etc.<br>(The vehicle height changes because of suspension or tire replacement) | • Ultrasonic sensor detection angle<br>• Ultrasonic sensor detection angle registration | • Intelligent clearance sonar system<br>• Simple advanced parking guidance system | INFO |
| Gas leak from exhaust system is repaired | Inspection After Repair | • Poor idle, etc.<br>• Engine start function, etc. | INFO |

**CAUTION:**

To prevent burns, do not touch the engine, exhaust pipe or other high temperature components while the engine is hot.



# PROCEDURE

### 1. REMOVE REAR WHEEL

Click here INFO

### 2. REMOVE TAIL EXHAUST PIPE ASSEMBLY

Click here INFO

### 3. REMOVE REAR FLOOR SIDE MEMBER COVER LH

Click here INFO

### 4. REMOVE NO. 1 FLOOR UNDER COVER ASSEMBLY

Click here INFO

### 5. SEPARATE REAR FLEXIBLE HOSE LH

(a) Remove the bolt and separate the rear flexible hose LH from the flexible hose bracket.

### 6. SEPARATE REAR FLEXIBLE HOSE RH

**HINT:**

Perform the same procedure as for the LH side.

### 7. REMOVE REAR STABILIZER LINK ASSEMBLY LH

Click here INFO

### 8. REMOVE REAR STABILIZER LINK ASSEMBLY RH

**HINT:**

Perform the same procedure as for the LH side.

### 9. REMOVE REAR STABILIZER BAR

Click here INFO

### 10. REMOVE REAR COIL SPRING LH

Click here INFO

### 11. REMOVE REAR COIL SPRING RH

**HINT:**

Perform the same procedure as for the LH side.

### 12. REMOVE REAR LOWER COIL SPRING INSULATOR LH

Click here INFO

### 13. REMOVE REAR LOWER COIL SPRING INSULATOR RH

**HINT:**

Perform the same procedure as for the LH side.

### 14. REMOVE REAR NO. 2 SUSPENSION ARM ASSEMBLY LH

Click here INFO

### 15. REMOVE REAR NO. 2 SUSPENSION ARM ASSEMBLY RH

**HINT:**

Perform the same procedure as for the LH side.

### 16. REMOVE REAR NO. 1 SUSPENSION ARM ASSEMBLY LH

Click here INFO

### 17. REMOVE REAR NO. 1 SUSPENSION ARM ASSEMBLY RH

**HINT:**

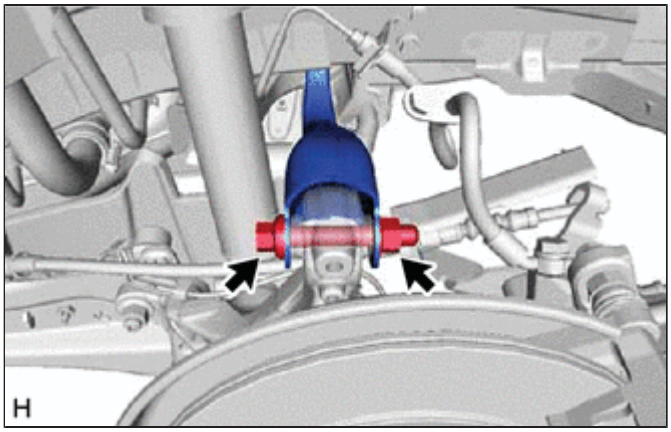
Perform the same procedure as for the LH side.

### 18. SEPARATE REAR UPPER CONTROL ARM ASSEMBLY LH

(a) Remove the bolt and nut and separate the rear upper control arm assembly LH from the rear axle carrier sub-assembly LH.

**NOTICE:**

Because the nut has its own stopper, do not turn the nut. Loosen the bolt with the nut secured.




### 19. SEPARATE REAR UPPER CONTROL ARM ASSEMBLY RH

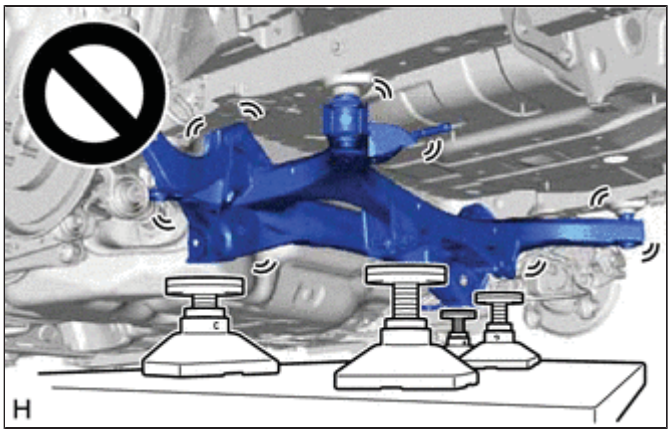
**HINT:**

Use the same procedure as for the LH side.

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

(a) Using an engine lifter and 4 attachments or equivalent tools, support the rear suspension member sub-assembly as shown in the illustration.

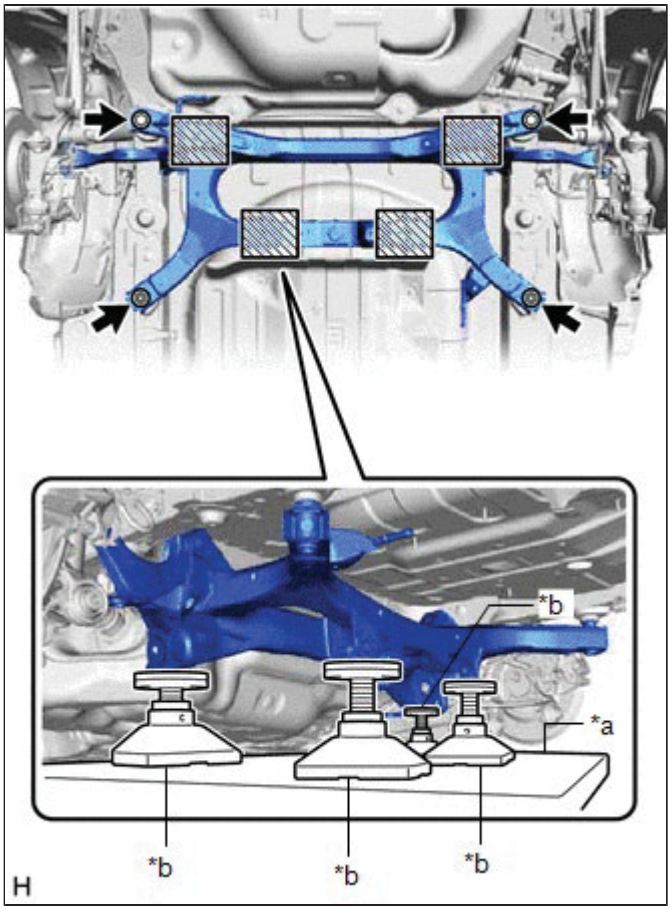
**CAUTION:**




- The rear suspension member sub-assembly is a very heavy component. Make sure that it is supported securely.
- If the rear suspension member sub-assembly is not securely supported, it may drop, resulting in serious injury.

**NOTICE:**

Use attachments and wooden blocks to keep the rear suspension member sub-assembly level.




| | |
|---|---|
| *a | Engine Lifter |
| *b | Attachment |
|  | Attachment and Wooden Block Placement Location |

(b) Remove the 2 bolts and 2 nuts.

(c) Slowly lower the rear suspension member sub-assembly.

**NOTICE:**

When lowering the rear suspension member sub-assembly, be careful not to damage the vehicle body or other components installed to the vehicle.

### 21. REMOVE REAR UPPER CONTROL ARM ASSEMBLY LH

Click here INFO

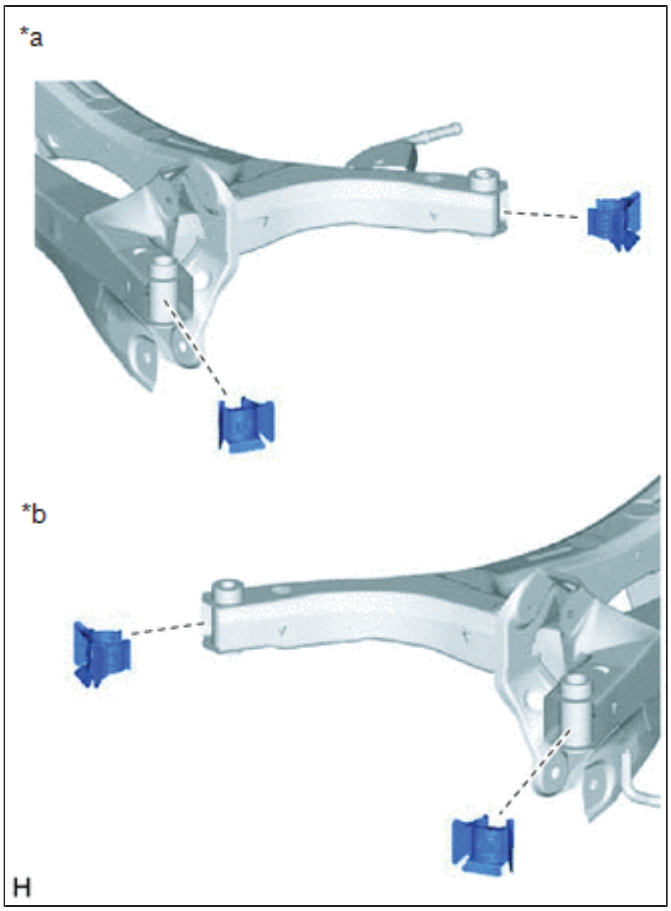
### 22. REMOVE REAR UPPER CONTROL ARM ASSEMBLY RH

**HINT:**

Perform the same procedure as for the LH side.

### 23. REMOVE REAR SUSPENSION MEMBER HOLE COVER

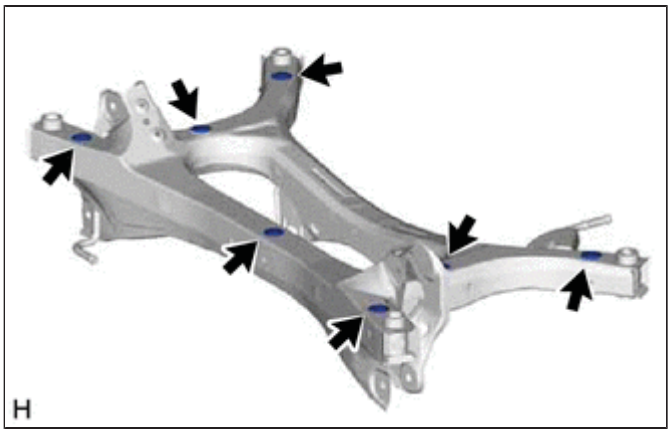
(a) Remove the 4 rear suspension member hole covers from the rear suspension member sub-assembly as shown in the illustration.




| | |
|---|---|
| *a | for LH Side |
| *b | for RH Side |

**24. REMOVE HOLE PLUG**

(a) Remove the 7 hole plugs from the rear suspension member sub-assembly as shown in the illustration.



| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RMKR |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR SUSPENSION SYSTEM: PROBLEM SYMPTOMS TABLE; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

# PROBLEM SYMPTOMS TABLE

**HINT:**

Use the table below to help determine the cause of problem symptoms. If multiple suspected areas are listed, the potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.

**Rear Suspension System**

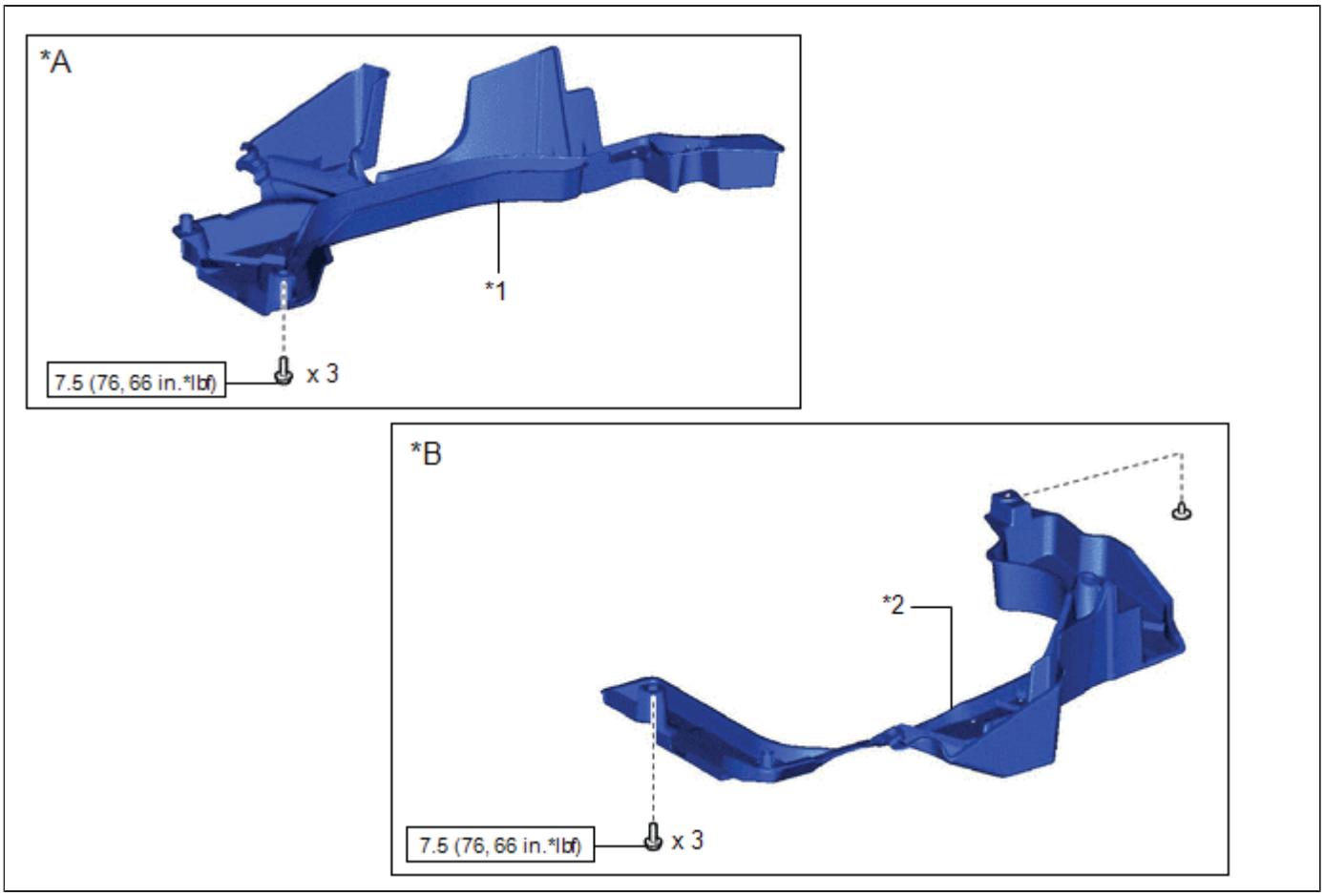
| SYMPTOM | SUSPECTED AREA | LINK |
|---|---|---|
| Vehicle pulls to one side while driving | Tires (worn or improperly inflated) | INFO INFO |
| | Rear wheel alignment (incorrect) | INFO |
| | Rear axle hub (worn) | INFO |
| | Rear shock absorber (worn) | INFO |
| | Rear coil spring (weak) | INFO |
| | Suspension parts (worn) | - |
| Bottoming | Vehicle (overloaded) | - |
| | Rear coil spring (weak) | INFO |
| | Rear shock absorber (worn) | INFO |
| Swaying/pitching | Tires (worn or improperly inflated) | INFO INFO |
| | Rear coil spring (weak) | INFO |
| | Rear shock absorber (worn) | INFO |
| | Rear stabilizer bar (bent or broken) | INFO |
| | Tires (worn or improperly inflated) | INFO INFO |

| | | |
|---|---|---|
| Wheel shimmy | Wheels (out of balance) | INFO INFO |
| | Rear wheel alignment | INFO |
| | Rear upper control arm (worn) | INFO |
| | Rear No. 1 suspension arm (worn) | INFO |
| | Rear No. 2 suspension arm (worn) | INFO |
| | Rear trailing arm (worn) | INFO |
| | Rear shock absorber (worn) | INFO |
| | Rear axle hub (worn) | INFO |
| Abnormal tire wear | Tires (worn or improperly inflated) | INFO INFO |
| | Wheels (out of balance) | INFO INFO |
| | Rear wheel alignment | INFO |
| | Suspension parts (worn) | - |

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RML7 |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR TRAILING ARM: COMPONENTS; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

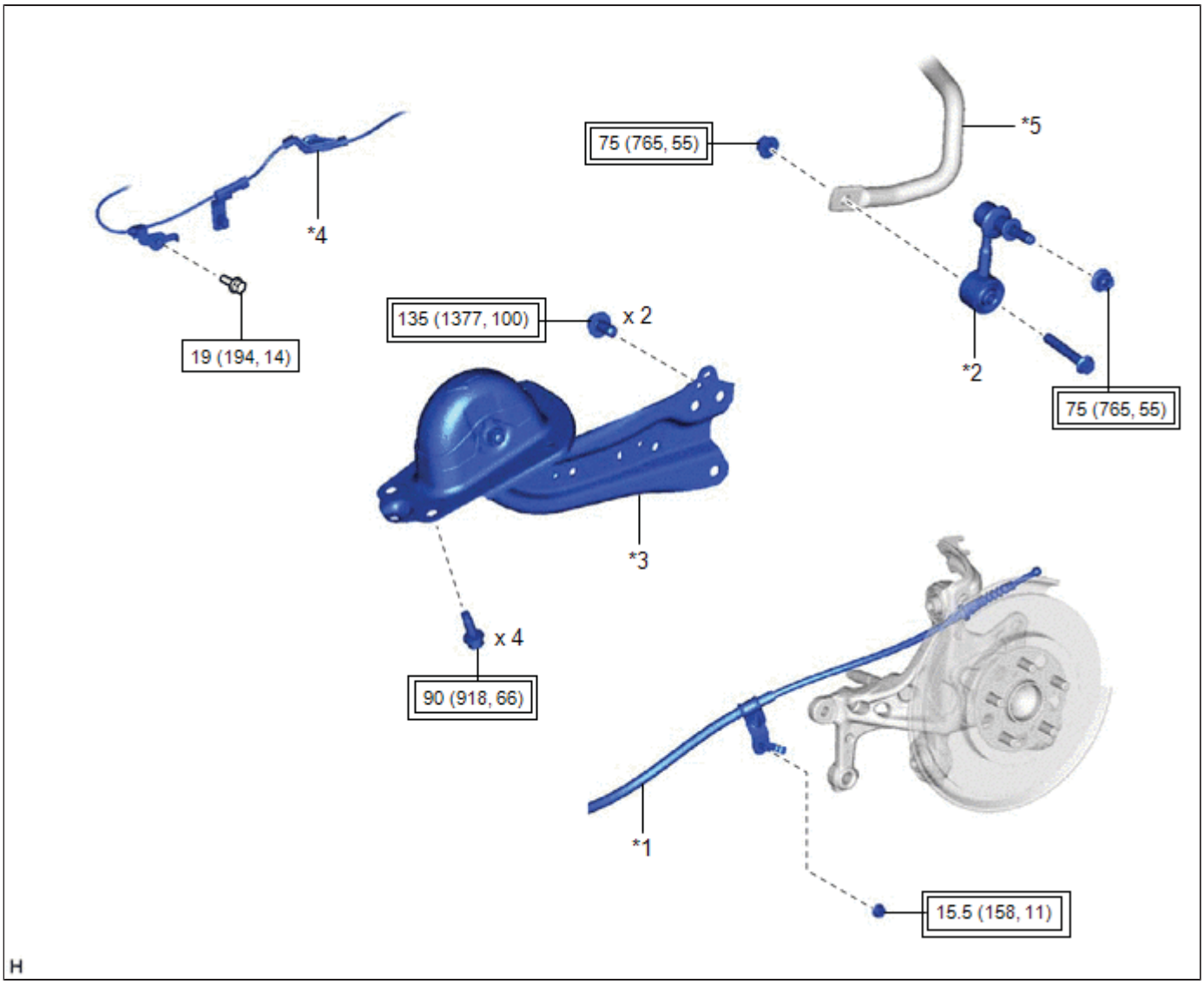
## COMPONENTS

## ILLUSTRATION



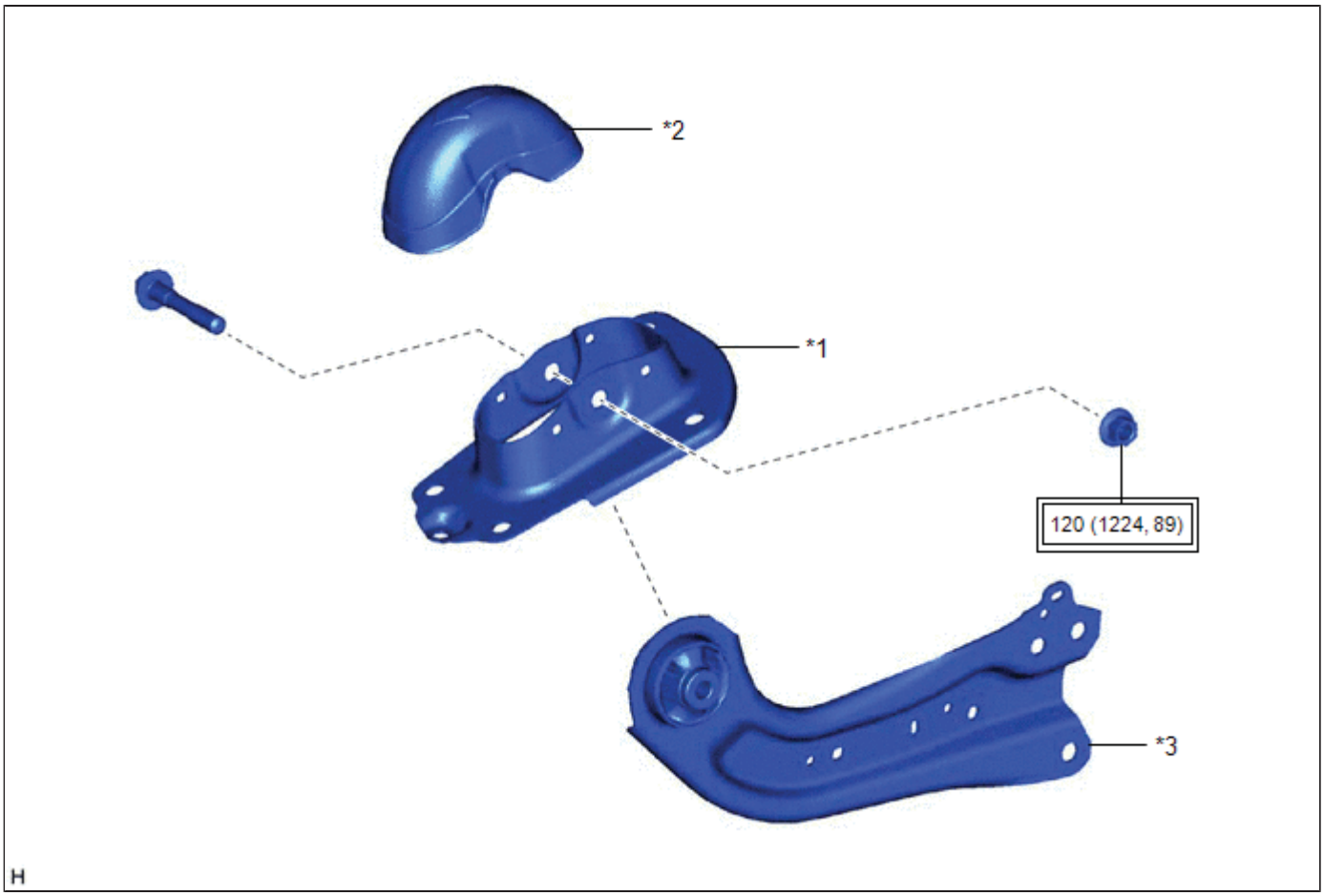

| | | | |
|---|---|---|---|
| *A | for RH Side | *B | for LH Side |
| *1 | NO. 1 FLOOR UNDER COVER ASSEMBLY | *2 | REAR FLOOR SIDE MEMBER COVER LH |
| □ | N*m (kgf*cm, ft.*lbf): Specified torque | - | - |

## ILLUSTRATION




| | | | |
|---|---|---|---|
| *1 | NO. 3 PARKING BRAKE CABLE ASSEMBLY | *2 | REAR STABILIZER LINK ASSEMBLY |
| *3 | REAR TRAILING ARM ASSEMBLY | *4 | SKID CONTROL SENSOR WIRE |
| *5 | REAR STABILIZER BAR | - | - |
| | Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping" : N*m (kgf*cm, ft.*lbf) | | N*m (kgf*cm, ft.*lbf): Specified torque |

## ILLUSTRATION




| | | | |
|---|---|---|---|
| *1 | REAR SUSPENSION ARM BRACKET | *2 | REAR SUSPENSION ARM COVER |
| *3 | REAR TRAILING ARM ASSEMBLY | - | - |
| ▭ | Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping" : N*m (kgf*cm, ft.*lbf) | - | - |

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RML6 |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR TRAILING ARM: INSTALLATION; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

# INSTALLATION

## CAUTION / NOTICE / HINT

**HINT:**

- Use the same procedure for the RH side and LH side.
- The following procedure is for the LH side.

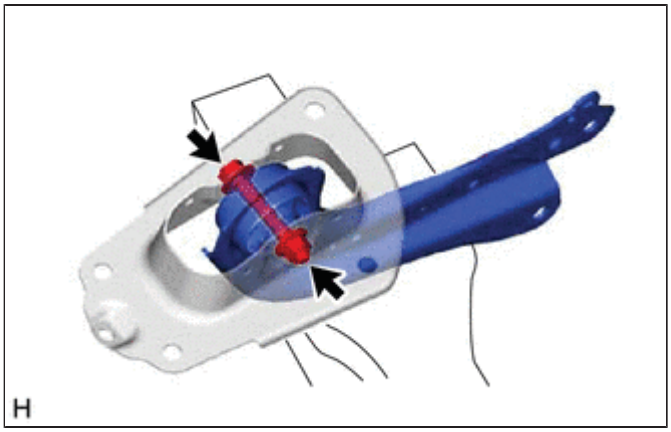
## PROCEDURE

### 1. INSTALL REAR SUSPENSION ARM BRACKET

(a) Temporarily install the rear suspension arm bracket to the rear trailing arm assembly with the bolt and nut.

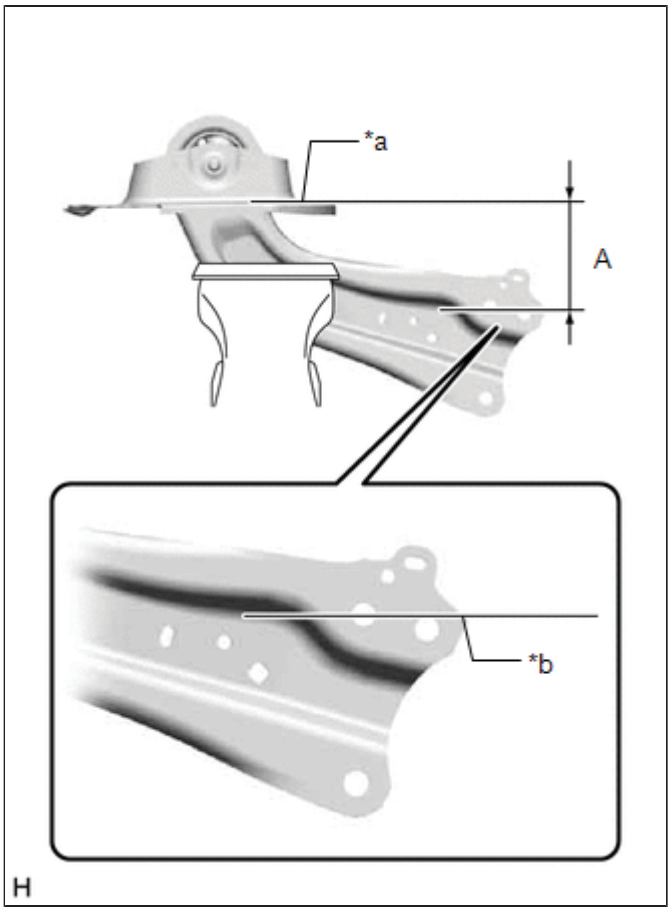
**NOTICE:**

- Because the bolt has its own stopper, do not turn the bolt. Tighten the nut with the bolt secured.
- Insert the bolt from the inside of the vehicle.




(b) Position the rear trailing arm assembly as shown in the illustration.

Reference Length (A):
116 mm (4.57 in.)




| | |
|---|---|
| *a | Upper Surface of Rear Suspension Arm Bracket |
| *b | Edge of Rear Trailing Arm Assembly |

(c) Fully tighten the nut.

**Torque:**

**120 N·m {1224 kgf·cm, 89 ft·lbf}**

**NOTICE:**

Because the bolt has its own stopper, do not turn the bolt. Tighten the nut with the bolt secured.

### 2. INSTALL REAR SUSPENSION ARM COVER

(a) Engage the 4 claws and install the rear suspension arm cover.

### 3. INSTALL REAR TRAILING ARM ASSEMBLY

(a) Using a transmission jack and a wooden block, support the rear No. 2 suspension arm assembly.

**NOTICE:**

- When jacking up the rear No. 2 suspension arm assembly, be sure to jack it up slowly.
- Make sure to perform this operation with the vehicle kept as low as possible.

(b) Install the rear trailing arm assembly to the vehicle with the 4 bolts.

**Torque:**

**90 N·m {918 kgf·cm, 66 ft·lbf}**

(c) Install the rear trailing arm assembly to the rear axle carrier sub-assembly with the 2 bolts.

**Torque:**

**135 N·m {1377 kgf·cm, 100 ft·lbf}**

### 4. INSTALL SKID CONTROL SENSOR WIRE

(a) Install the skid control sensor wire to the rear trailing arm assembly with the bolt.

**Torque:**

**19 N·m {194 kgf·cm, 14 ft·lbf}**

(b) Engage the 2 clamps.

### 5. INSTALL NO. 3 PARKING BRAKE CABLE ASSEMBLY

(a) Install the No. 3 parking brake cable assembly to the rear trailing arm assembly with the nut.

**Torque:**

**15.5 N·m {158 kgf·cm, 11 ft·lbf}**

### 6. INSTALL REAR STABILIZER LINK ASSEMBLY

Click here INFO

### 7. INSTALL REAR FLOOR SIDE MEMBER COVER LH (for LH Side)

Click here INFO

### 8. INSTALL NO. 1 FLOOR UNDER COVER ASSEMBLY (for RH Side)

Click here INFO

### 9. INSTALL REAR WHEEL

Click here INFO

### 10. INSPECT AND ADJUST REAR WHEEL ALIGNMENT

Click here INFO

### 11. PERFORM INITIALIZATION

| | |
|---|---|
| Intelligent clearance sonar system | INFO |
| Simple advanced parking guidance system | |

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RML8 |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR TRAILING ARM: REMOVAL; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

# REMOVAL

## CAUTION / NOTICE / HINT

The necessary procedures (adjustment, calibration, initialization, or registration) that must be performed after parts are removed and installed, or replaced during rear trailing arm assembly removal/installation are shown below.

**Necessary Procedures After Parts Removed / Installed / Replaced**

| REPLACED PART OR PERFORMED PROCEDURE | NECESSARY PROCEDURE | EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED | LINK |
|---|---|---|---|
| Rear wheel alignment adjustment | 1. Clear zero point calibration data.<br>2. Perform yaw rate and acceleration sensor zero point calibration. | • DTCs are stored<br>• ABS warning light illuminates<br>• Brake warning light/yellow (minor malfunction) illuminates<br>• Slip indicator light illuminates<br>• VSC disabled or malfunctions | INFO |
| Suspension, tires, etc.<br>(The vehicle height changes because of suspension or tire replacement) | • Ultrasonic sensor detection angle<br>• Ultrasonic sensor detection angle registration | • Intelligent clearance sonar system<br>• Simple advanced parking guidance system | INFO |

**HINT:**

- Use the same procedure for the RH side and LH side.
- The following procedure is for the LH side.

# PROCEDURE

### 1. REMOVE REAR WHEEL

Click here INFO

### 2. REMOVE REAR FLOOR SIDE MEMBER COVER LH (for LH Side)

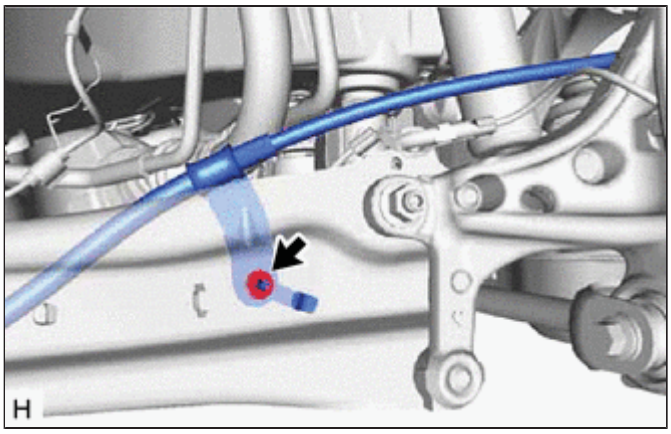
Click here INFO

### 3. REMOVE NO. 1 FLOOR UNDER COVER ASSEMBLY (for RH Side)

Click here INFO

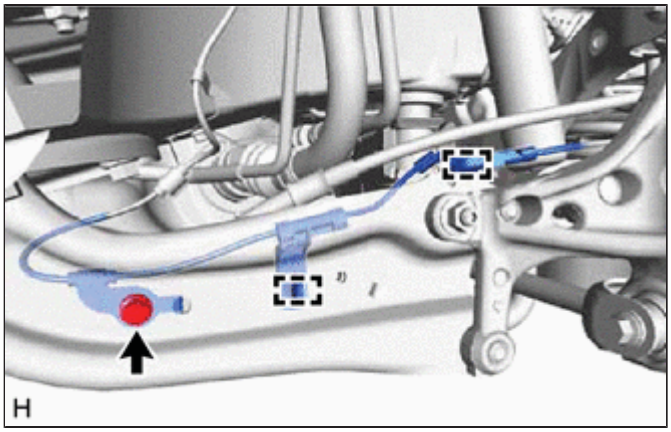
### 4. SEPARATE NO. 3 PARKING BRAKE CABLE ASSEMBLY

(a) Remove the nut and separate the No. 3 parking brake cable assembly from the rear trailing arm assembly.




### 5. SEPARATE SKID CONTROL SENSOR WIRE

(a) Disengage the 2 clamps.




(b) Remove the bolt and separate the skid control sensor wire from the rear trailing arm assembly.

### 6. REMOVE REAR STABILIZER LINK ASSEMBLY

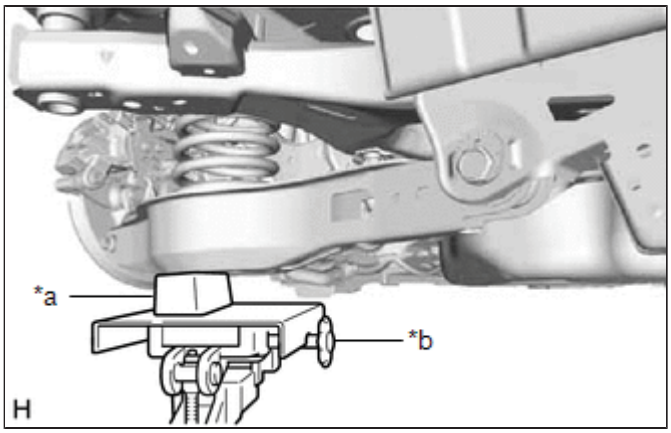
Click here INFO

### 7. REMOVE REAR TRAILING ARM ASSEMBLY

(a) Using a transmission jack and a wooden block, support the rear No. 2 suspension arm assembly.

**NOTICE:**

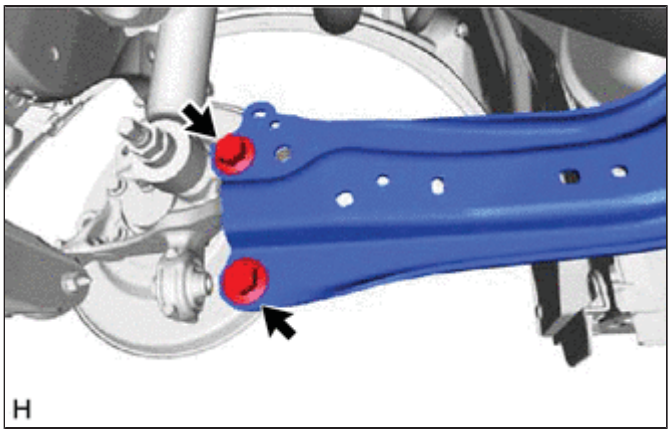
- When jacking up the rear No. 2 suspension arm assembly, be sure to jack it up slowly.
- Make sure to perform this operation with the vehicle kept as low as possible.



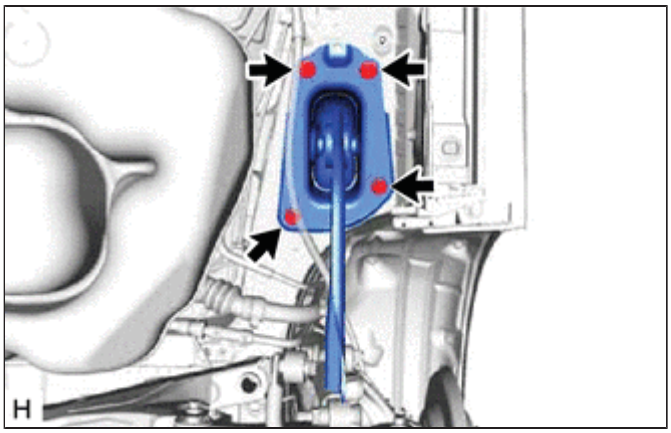

| | |
|---|---|
| *a | Wooden Block |

| | |
|---|---|
| *b | Transmission Jack |

(b) Remove the 2 bolts and separate the rear trailing arm assembly from the rear axle carrier sub-assembly.




(c) Remove the 4 bolts and rear trailing arm assembly.

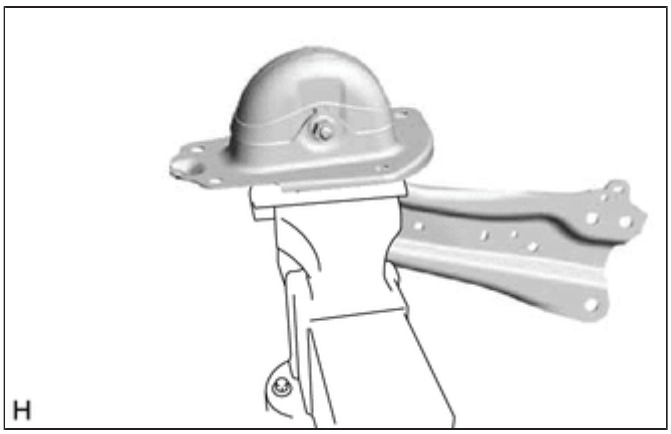



## 8. REMOVE REAR SUSPENSION ARM COVER

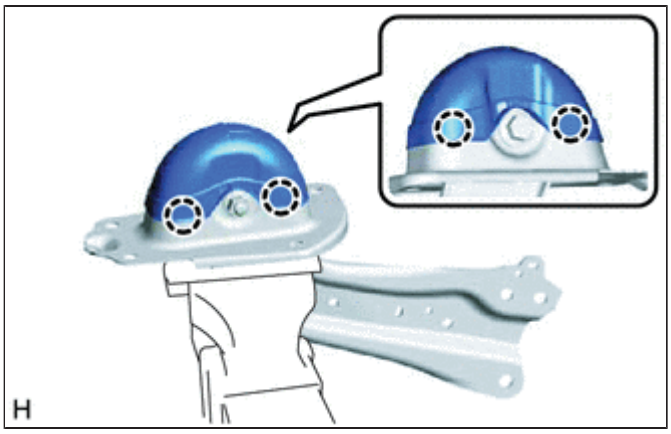
(a) Secure the rear trailing arm assembly in a vise using aluminum plates.

**NOTICE:**

Do not overtighten the vise.



(b) Disengage the 4 claws and remove the rear suspension arm cover.

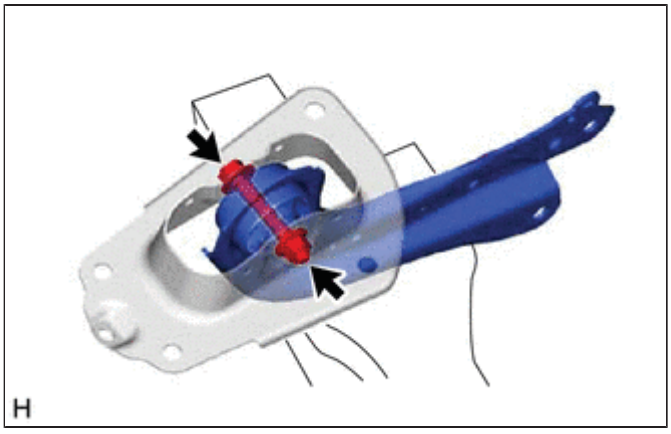



## 9. REMOVE REAR SUSPENSION ARM BRACKET

(a) Remove the bolt, nut and rear suspension arm bracket from the rear trailing arm assembly.

**NOTICE:**

Because the bolt has its own stopper, do not turn the bolt. Loosen the nut with the bolt secured.



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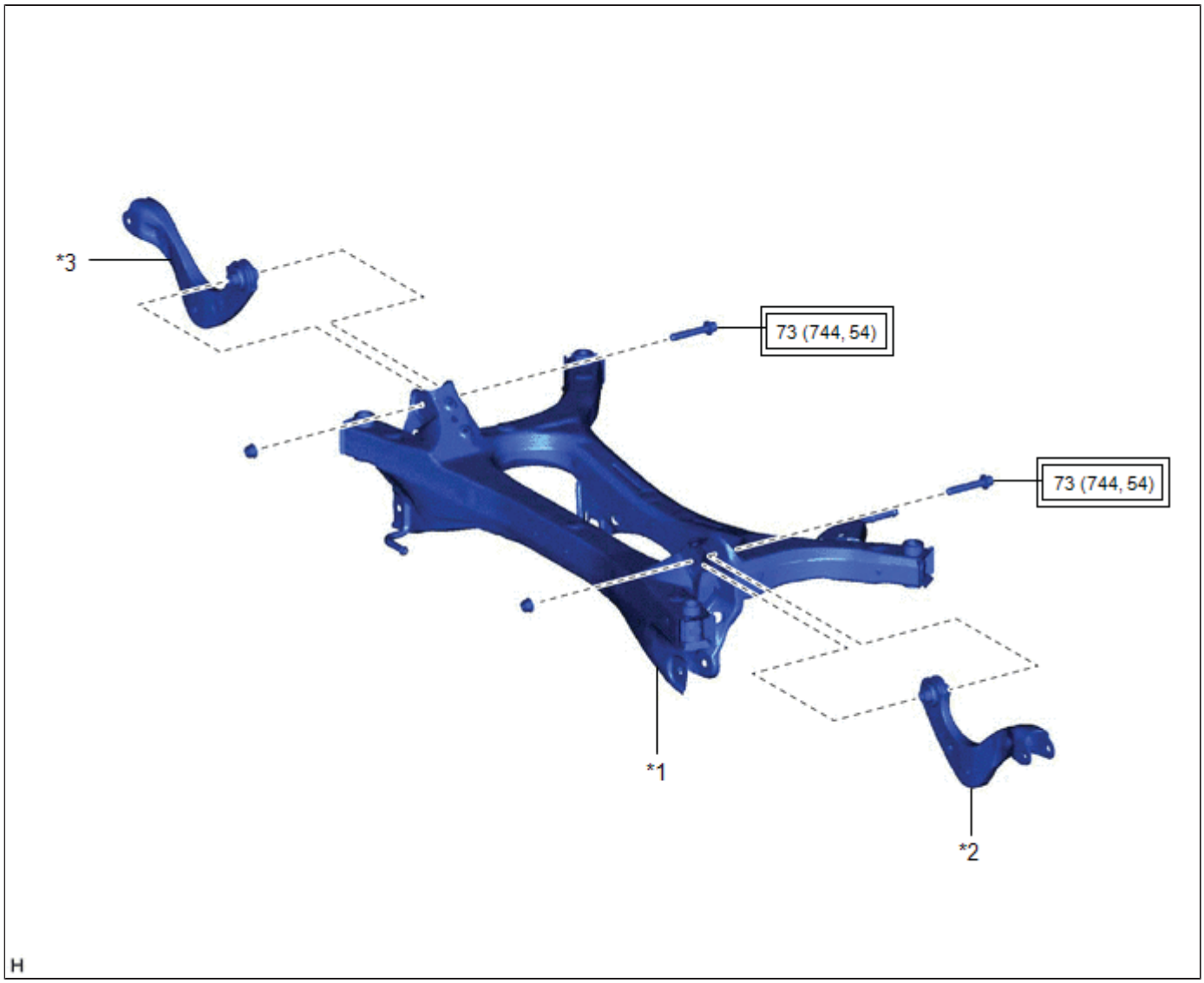
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RML1 |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR UPPER ARM: COMPONENTS; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

## COMPONENTS

## ILLUSTRATION




| | | | |
|---|---|---|---|
| *1 | REAR SUSPENSION MEMBER SUB-ASSEMBLY | *2 | REAR UPPER CONTROL ARM ASSEMBLY LH |
| *3 | REAR UPPER CONTROL ARM ASSEMBLY RH | - | - |
| ▭ | Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping" : N*m (kgf*cm, ft.*lbf) | - | - |

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RML0 |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR UPPER ARM: INSTALLATION; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

# INSTALLATION

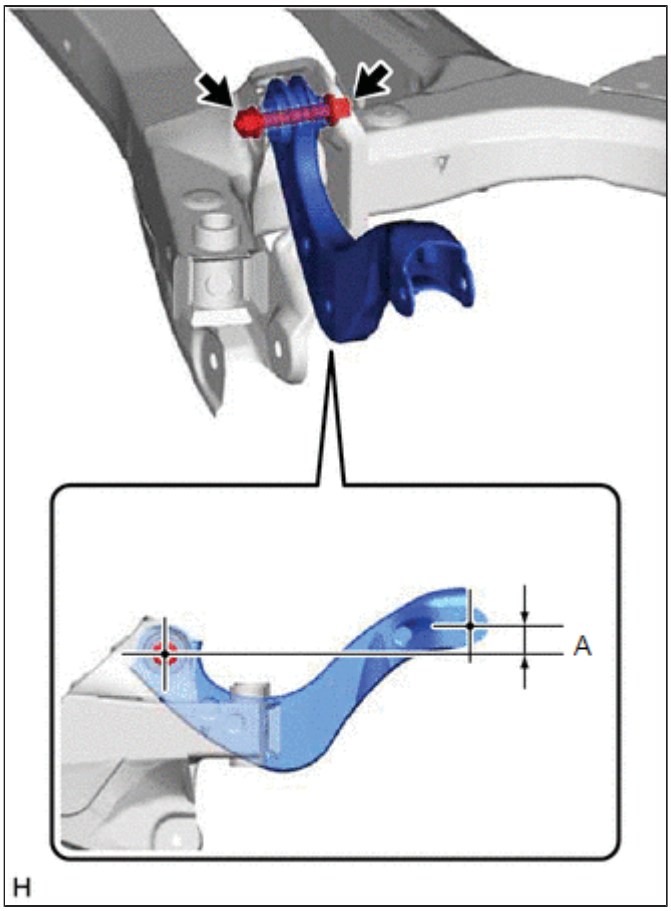
# PROCEDURE

### 1. INSTALL REAR UPPER CONTROL ARM ASSEMBLY LH

(a) Temporarily install the rear upper control arm assembly LH to the rear suspension member sub-assembly with the bolt and nut.

**NOTICE:**

- Because the nut has its own stopper, do not turn the nut. Tighten the bolt with the nut secured.
- Insert the bolt with the threaded end facing the front of the vehicle.




(b) Position the rear upper control arm assembly LH as shown in the illustration.

Reference Length (A):
1.2 mm (0.0472 in.)

(c) Fully tighten the bolt.

**Torque:**

**73 N·m {744 kgf·cm, 54 ft·lbf}**

**NOTICE:**

Because the nut has its own stopper, do not turn the nut. Tighten the bolt with the nut secured.

### 2. INSTALL REAR UPPER CONTROL ARM ASSEMBLY RH

**HINT:**

Perform the same procedure as for the LH side.

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

Click here INFO

| | | |
|---|---|---|
| **Last Modified:** 01-14-2019 | 6.8:8.0.48 | **Doc ID:** RM100000000RML2 |
| **Model Year Start:** 2016 | **Model:** Prius | **Prod Date Range:** [11/2015 - 12/2018] |
| **Title:** REAR SUSPENSION: REAR UPPER ARM: REMOVAL; 2016 - 2018 MY Prius [11/2015 - 12/2018] | | |

# REMOVAL

# CAUTION / NOTICE / HINT

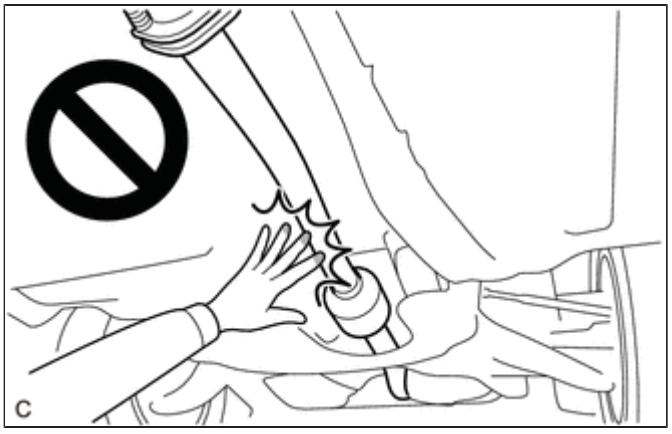
The necessary procedures (adjustment, calibration, initialization, or registration) that must be performed after parts are removed and installed, or replaced during rear upper control arm assembly removal/installation are shown below.

**Necessary Procedures After Parts Removed / Installed / Replaced**

| REPLACED PART OR PERFORMED PROCEDURE | NECESSARY PROCEDURE | EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED | LINK |
|---|---|---|---|
| Rear wheel alignment adjustment | 1. Clear zero point calibration data.<br>2. Perform yaw rate and acceleration sensor zero point calibration. | • DTCs are stored<br>• ABS warning light illuminates<br>• Brake warning light/yellow (minor malfunction) illuminates<br>• Slip indicator light illuminates<br>• VSC disabled or malfunctions | INFO |
| Suspension, tires, etc.<br>(The vehicle height changes because of suspension or tire replacement) | • Ultrasonic sensor detection angle<br>• Ultrasonic sensor detection angle registration | • Intelligent clearance sonar system<br>• Simple advanced parking guidance system | INFO |
| Gas leak from exhaust system is repaired | Inspection After Repair | • Poor idle, etc.<br>• Engine start function, etc. | INFO |

**CAUTION:**

To prevent burns, do not touch the engine, exhaust pipe or other high temperature components while the engine is hot.



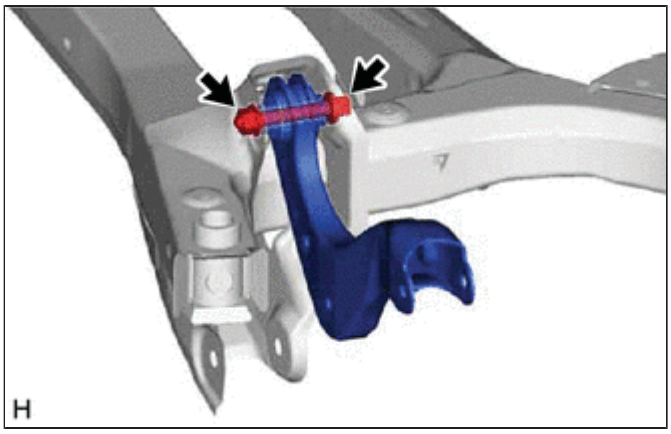
# PROCEDURE

## 1. REMOVE REAR SUSPENSION MEMBER SUB-ASSEMBLY

Click here INFO

## 2. REMOVE REAR UPPER CONTROL ARM ASSEMBLY LH

(a) Remove the bolt, nut and rear upper control arm assembly LH from the rear suspension member sub-assembly.




**NOTICE:**

Because the nut has its own stopper, do not turn the nut. Loosen the bolt with the nut secured.

## 3. REMOVE REAR UPPER CONTROL ARM ASSEMBLY RH

**HINT:**

Perform the same procedure as for the LH side.