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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> AXLE AND DIFFERENTIAL: REAR AXLE CARRIER (for AWD): INSTALLATION; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

## INSTALLATION

### CAUTION / NOTICE / HINT

#### **NOTICE:**

- When the brake pedal is first depressed after replacing the brake pads or pushing back the disc brake piston, DTCs may be stored. As there is no malfunction, clear the DTC.
- While the auxiliary battery is connected, even if the ignition switch is off, the brake control system activates when the brake pedal is depressed or any door courtesy switch turns on. Therefore, when servicing the brake system components, do not operate the brake pedal or open/close the doors while the auxiliary battery is connected.

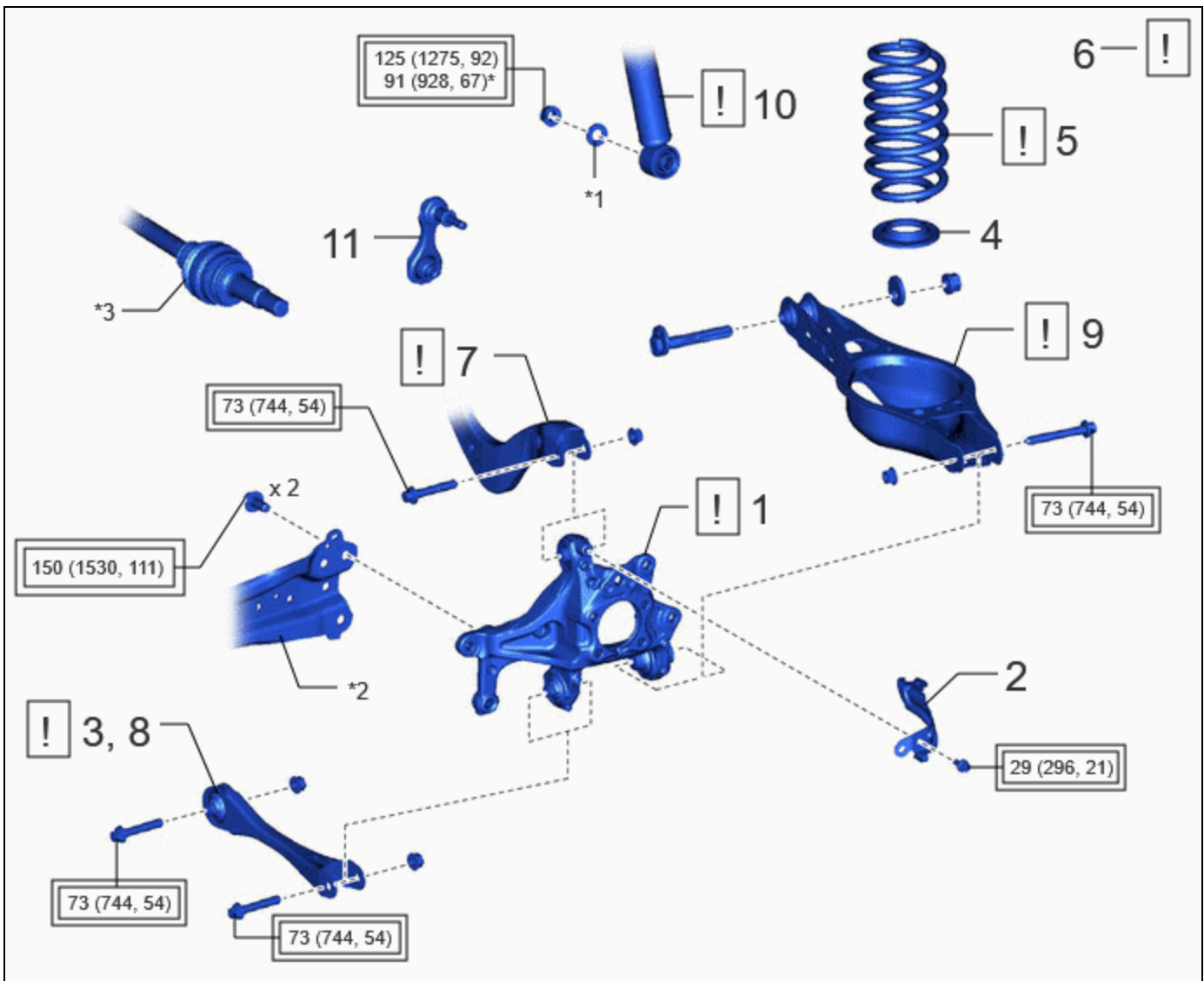
### CAUTION / NOTICE / HINT

#### **HINT:**


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

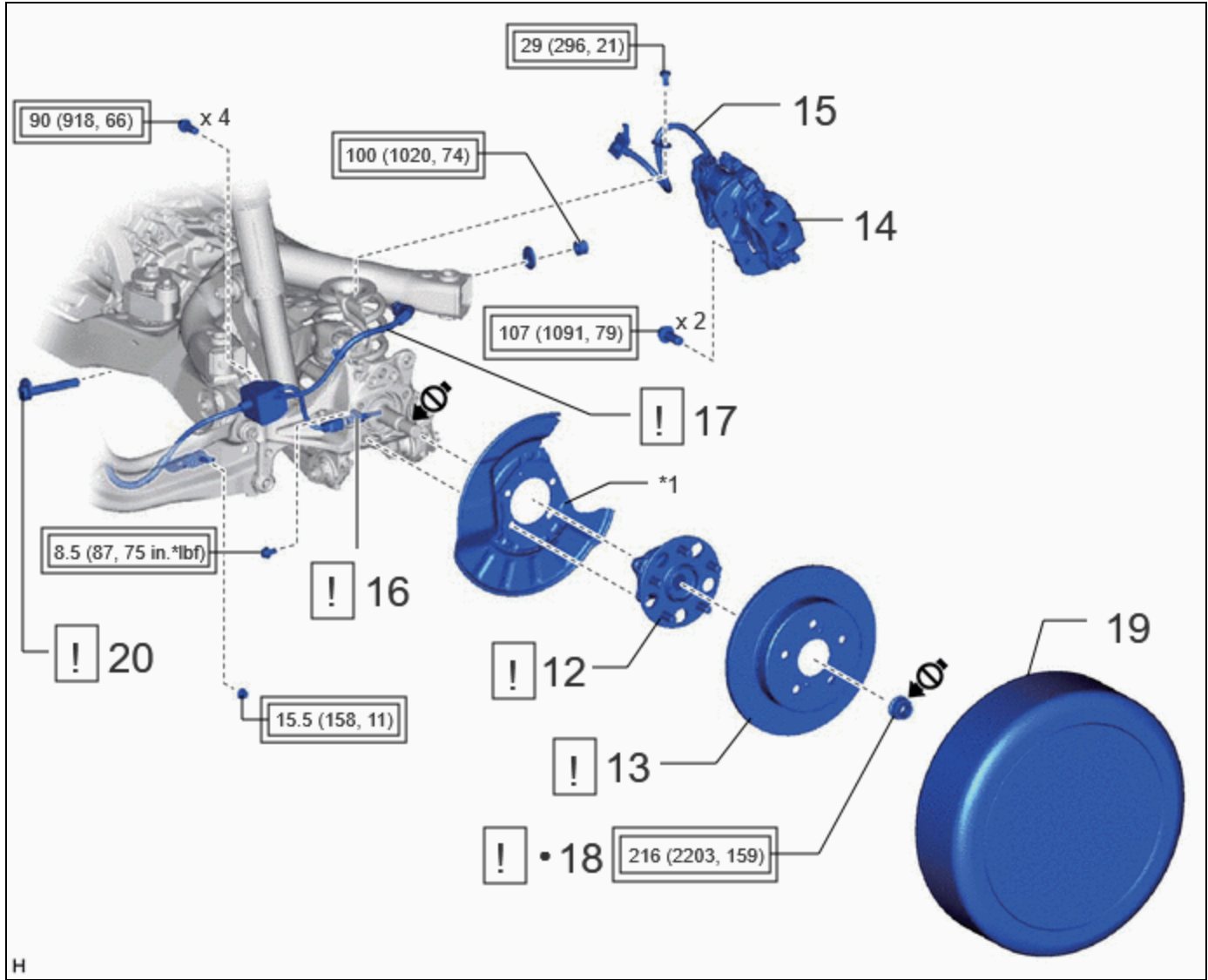
### CAUTION / NOTICE / HINT




#### **COMPONENTS (INSTALLATION)**












	PROCEDURE	PART NAME CODE	!	📄	⚙️
1	REAR AXLE CARRIER SUB-ASSEMBLY	42305	INFO	-	-
2	NO. 4 FLEXIBLE HOSE BRACKET	47354B	-	-	-
3	REAR NO. 1 SUSPENSION ARM ASSEMBLY	48720A	INFO	-	-
4	REAR LOWER COIL SPRING INSULATOR	48258C	-	-	-
5	REAR COIL SPRING	48231B	INFO	-	-
6	STABILIZE SUSPENSION	-	INFO	-	-
7	REAR UPPER CONTROL ARM ASSEMBLY	48790	INFO	-	-
8	REAR NO. 1 SUSPENSION ARM ASSEMBLY	48720A	INFO	-	-
9	REAR NO. 2 SUSPENSION ARM ASSEMBLY	48740F	INFO	-	-
10	REAR SHOCK ABSORBER ASSEMBLY	48540	INFO	-	-
11	REAR STABILIZER LINK ASSEMBLY	48840A	-	-	-

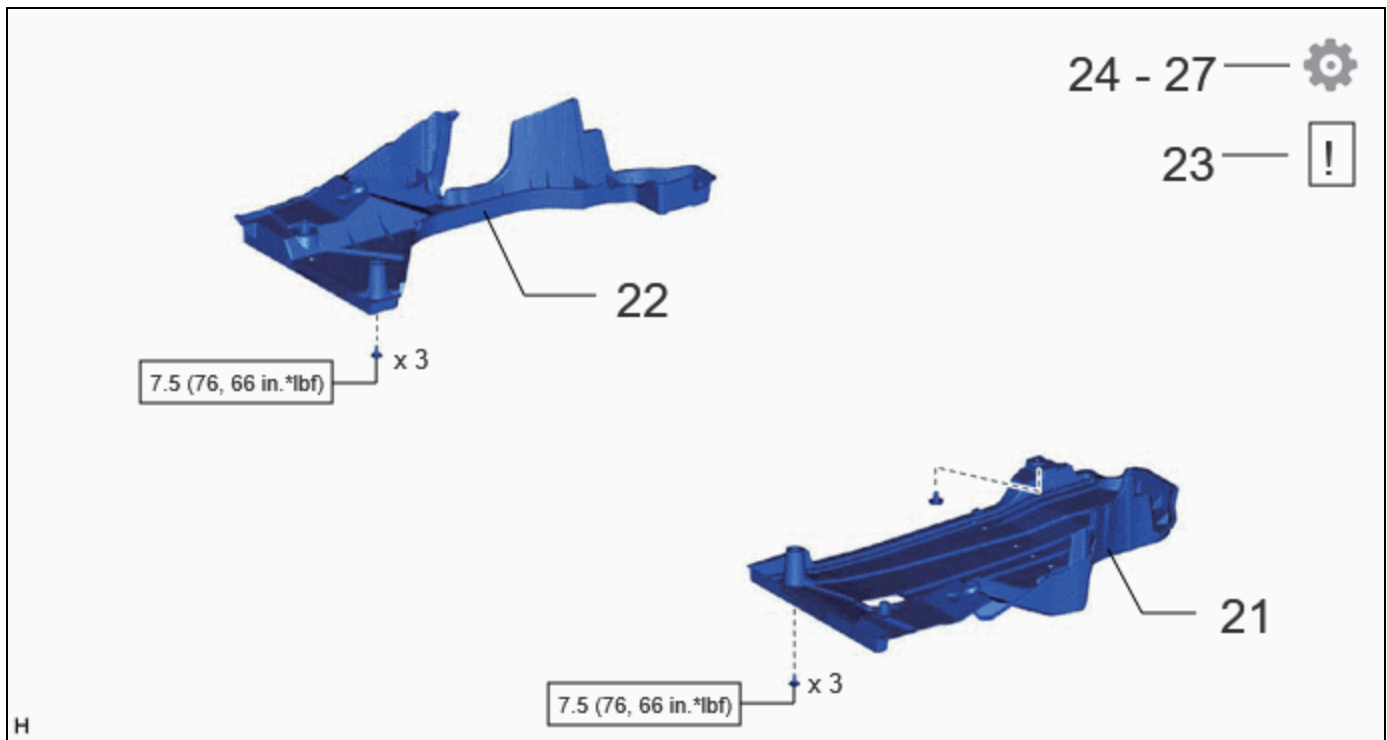
*1	PLATE WASHER	*2	REAR TRAILING ARM ASSEMBLY
*3	REAR DRIVE SHAFT ASSEMBLY	-	-
	Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping": N*m (kgf*cm, ft.*lbf)	-	-
*	For use with a ball joint lock nut wrench	-	-














PROCEDURE		PART NAME CODE			
12	REAR AXLE HUB AND BEARING ASSEMBLY	42450B	<a href="#">INFO</a>	-	-
13	REAR DISC	42431	<a href="#">INFO</a>	-	-
14	REAR DISC BRAKE CALIPER ASSEMBLY	-	-	-	-
15	REAR FLEXIBLE HOSE	47319F	-	-	-


PROCEDURE		PART NAME CODE			
16	SKID CONTROL SENSOR	89544E		-	-
17	NO. 2 PARKING BRAKE WIRE ASSEMBLY	890C0A		-	-
18	REAR AXLE SHAFT NUT	42312B		-	-
19	REAR WHEEL	-	-	-	-
20	REAR SUSPENSION TOE ADJUST CAM SUB-ASSEMBLY	48409		-	-

*1	REAR DISC BRAKE DUST COVER SUB-ASSEMBLY	-	-
	Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping": N*m (kgf*cm, ft.*lbf)	-	Non-reusable part
	Do not apply lubricants to the threaded parts	-	-



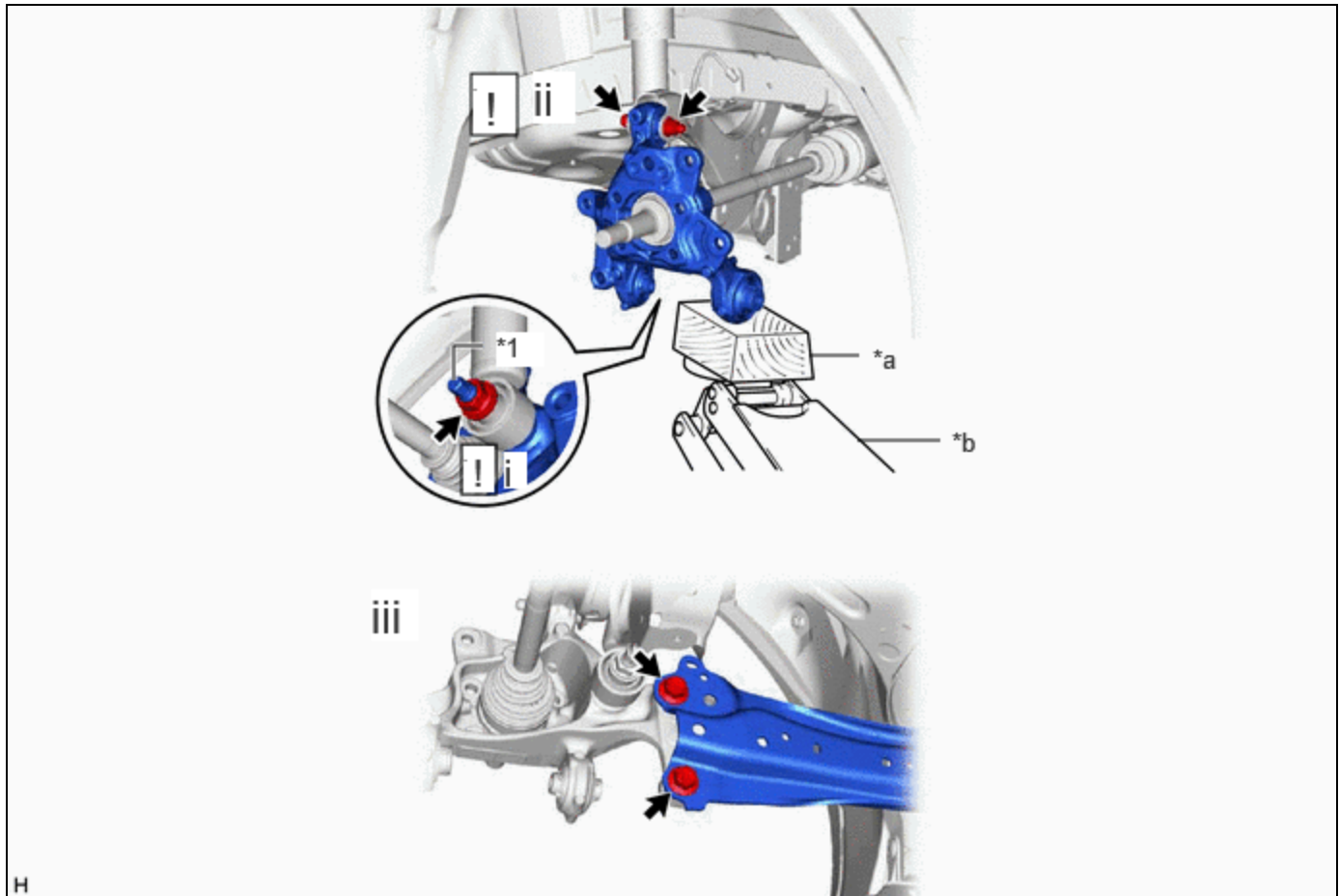
PROCEDURE		PART NAME CODE			
21	REAR FLOOR SIDE MEMBER COVER LH	57628E	-	-	-
22	REAR FLOOR SIDE MEMBER COVER RH	57627G	-	-	-

	PROCEDURE	PART NAME CODE			
23	CONNECT CABLE TO NEGATIVE AUXILIARY BATTERY TERMINAL	-		-	-
24	INITIALIZATION AFTER RECONNECTING AUXILIARY BATTERY TERMINAL	-	-	-	
25	INSPECT AND ADJUST REAR WHEEL ALIGNMENT	-	-	-	
26	CHECK FOR SPEED SENSOR SIGNAL	-	-	-	
27	PERFORM INITIALIZATION	-	-	-	

	N*m (kgf*cm, ft.*lbf): Specified torque	-	-
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## PROCEDURE

### 1. TEMPORARILY INSTALL REAR AXLE CARRIER SUB-ASSEMBLY



*1	Rear Axle Carrier Pin	-	-
*a	Wooden Block	*b	Jack

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

**NOTICE:**

Hold the rear axle carrier pin while rotating the nut.

- (2) Temporarily install the rear axle carrier sub-assembly to the rear upper control arm 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.

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

**Torque:**

**150 N·m {1530 kgf·cm, 111 ft·lbf}**

**2. INSTALL NO. 4 FLEXIBLE HOSE BRACKET**

**Torque:**

**29 N·m {296 kgf·cm, 21 ft·lbf}**

**3. TEMPORARILY INSTALL REAR NO. 1 SUSPENSION ARM ASSEMBLY**

	Click here <a href="#">INFO</a>
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**4. INSTALL REAR LOWER COIL SPRING INSULATOR**

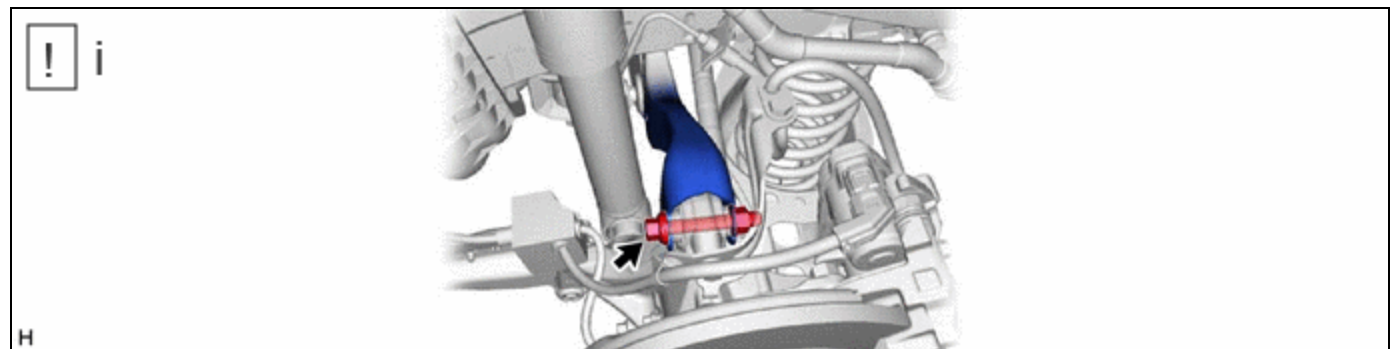
**5. INSTALL REAR COIL SPRING**

	Click here <a href="#">INFO</a>
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**6. STABILIZE SUSPENSION**

	Click here <a href="#">INFO</a>
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**7. INSTALL REAR UPPER CONTROL ARM ASSEMBLY**



(1) 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.


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

	Click here <a href="#">INFO</a>
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**9. INSTALL REAR NO. 2 SUSPENSION ARM ASSEMBLY**

	Click here <a href="#">INFO</a>
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**10. INSTALL REAR SHOCK ABSORBER ASSEMBLY**

	Click here <a href="#">INFO</a>
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**11. INSTALL REAR STABILIZER LINK ASSEMBLY**

Click here [INFO](#)

**12. INSTALL REAR AXLE HUB AND BEARING ASSEMBLY**

	Click here <a href="#">INFO</a>
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**13. INSTALL REAR DISC**

	Click here <a href="#">INFO</a>
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**14. INSTALL REAR DISC BRAKE CALIPER ASSEMBLY**

Click here [INFO](#)

**15. INSTALL REAR FLEXIBLE HOSE****Torque:**

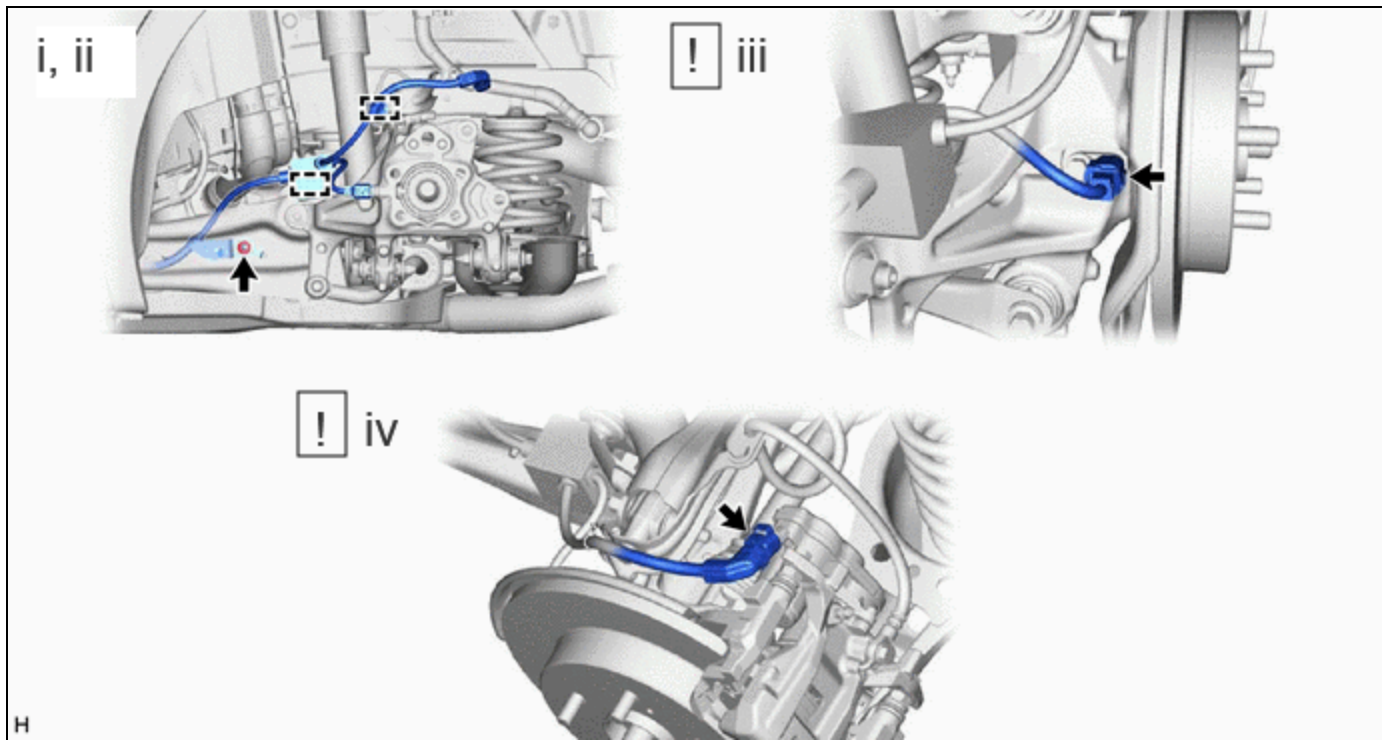
**29 N·m {296 kgf·cm, 21 ft·lbf}**

**16. INSTALL SKID CONTROL SENSOR**



Click here [INFO](#)

## 17. INSTALL NO. 2 PARKING BRAKE WIRE ASSEMBLY



(1) Install the No. 2 parking brake wire assembly to the rear trailing arm assembly with the nut.

### Torque:

**15.5 N·m {158 kgf·cm, 11 ft·lbf}**

(2) Engage the 2 clamps.

(3) Connect the No. 2 parking brake wire assembly connector to the rear skid control sensor.

### NOTICE:

- Remove any dirt or foreign matter on and around the No. 2 parking brake wire assembly connector before performing this step.
- Do not allow water, oil or dirt to enter the No. 2 parking brake wire assembly connector.

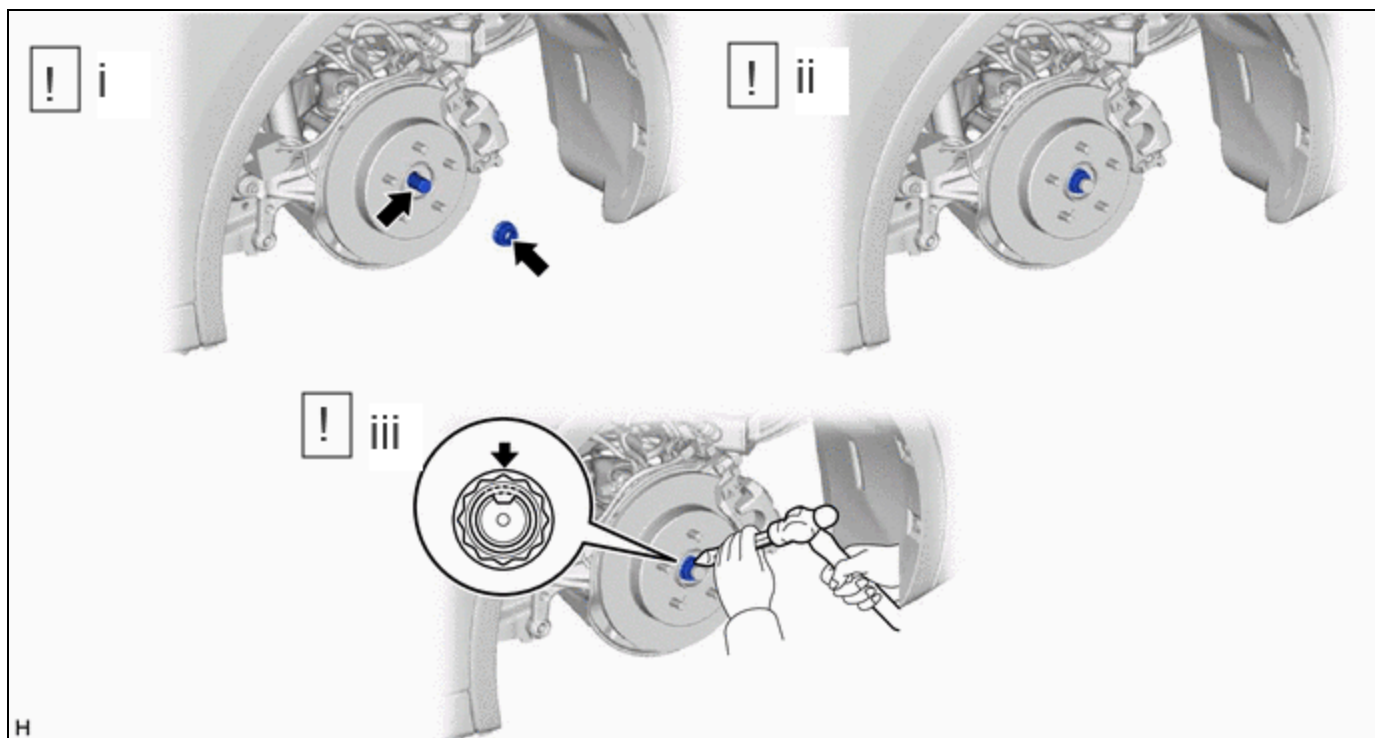
(4) Connect the No. 2 parking brake wire assembly connector to the parking brake actuator assembly.

### NOTICE:

- Remove any dirt or foreign matter on and around the No. 2 parking brake wire assembly connector before performing this step.
- Do not allow water, oil or dirt to enter the No. 2 parking brake wire assembly connector.

## 18. INSTALL REAR AXLE SHAFT NUT





(1) Clean the threaded parts on the rear drive shaft assembly and a new rear axle shaft nut using non-residue solvent.

**NOTICE:**

- Be sure to perform this work even when using a new rear drive shaft assembly.
- Keep the threaded parts free of oil and foreign matter.

(2) Using a 30 mm deep socket wrench, temporarily install the rear axle shaft nut.

**Torque:**

**216 N·m {2203 kgf·cm, 159 ft·lbf}**

**HINT:**

Keep depressing the brake pedal to prevent the rear drive shaft assembly from rotating.

(3) Using a chisel and hammer, stake the rear axle shaft nut.

## 19. INSTALL REAR WHEEL

Click here [INFO](#)

## 20. INSTALL REAR SUSPENSION TOE ADJUST CAM SUB-ASSEMBLY

	Click here <a href="#">INFO</a>
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## 21. INSTALL REAR FLOOR SIDE MEMBER COVER LH

Click here [INFO](#)

## 22. INSTALL REAR FLOOR SIDE MEMBER COVER RH

Click here [INFO](#)

### 23. CONNECT CABLE TO NEGATIVE AUXILIARY BATTERY TERMINAL

	Click here <a href="#">INFO</a>
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### 24. INITIALIZATION AFTER RECONNECTING AUXILIARY BATTERY TERMINAL

**HINT:**

When disconnecting and reconnecting the auxiliary battery, there is an automatic learning function that completes learning when the respective system is used.

Click here [INFO](#)

### 25. INSPECT AND ADJUST REAR WHEEL ALIGNMENT

Click here [INFO](#)

### 26. CHECK FOR SPEED SENSOR SIGNAL

Click here [INFO](#)

### 27. PERFORM INITIALIZATION

Parking Assist Monitor System	<a href="#">INFO</a>
Panoramic View Monitor System	<a href="#">INFO</a>
Advanced Park	<a href="#">INFO</a>

