

<b>Last Modified:</b> 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM10000002BO7A
<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [03/2023 - ]
<b>Title:</b> REAR SUSPENSION: REAR SUSPENSION MEMBER (for AWD): REMOVAL; 2023 - 2024 MY Prius Prius Prime [03/2023 - ]		

## 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	Perform "Calibration"	<ul style="list-style-type: none"> <li>DTCs are stored</li> <li>ABS warning light illuminates</li> <li>Brake system warning light (yellow indicator) illuminates</li> <li>Slip indicator light illuminates</li> <li>Electronically controlled brake system disabled or malfunctions</li> </ul>	<a href="#">INFO</a>
Tires	<ul style="list-style-type: none"> <li>Initialization*1*2</li> <li>Tire Position Identification*1*2</li> </ul>	Tire Pressure Warning System	Refer to Procedures Necessary When Replacing Parts (for Tire Pressure Warning System) <a href="#">INFO</a>
	Rear television camera assembly optical axis (Back camera position setting)*3	Parking Assist Monitor System	<a href="#">INFO</a>
	Parking assist ECU initialization*3	Panoramic View Monitor System	<a href="#">INFO</a>
		Advanced Park	<a href="#">INFO</a>

\*1: Also necessary after performing a tire rotation.

\*2: It is not necessary to perform this procedure if the tire pressure warning valve and transmitters are installed to the same location.

\*3: The vehicle height changes because of suspension or tire replacement.

REPLACED PART OR PERFORMED PROCEDURE	NECESSARY PROCEDURE	EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	LINK
Suspension parts	Rear television camera assembly optical axis (Back camera position setting)	Parking Assist Monitor System	<a href="#">INFO</a>
	Parking assist ECU initialization	Panoramic View Monitor System	<a href="#">INFO</a>
		Advanced Park	<a href="#">INFO</a>
Gas leak from exhaust system is repaired	Inspection after repair	<ul style="list-style-type: none"> <li>• Poor idle, etc.</li> <li>• Engine start function, etc.</li> </ul>	<a href="#">INFO</a>

\*1: Also necessary after performing a tire rotation.

\*2: It is not necessary to perform this procedure if the tire pressure warning valve and transmitters are installed to the same location.

\*3: The vehicle height changes because of suspension or tire replacement.

## CAUTION / NOTICE / HINT

### CAUTION:

- Orange wire harnesses and connectors indicate high-voltage circuits. To prevent electric shock, always follow



the procedure described in the repair manual.

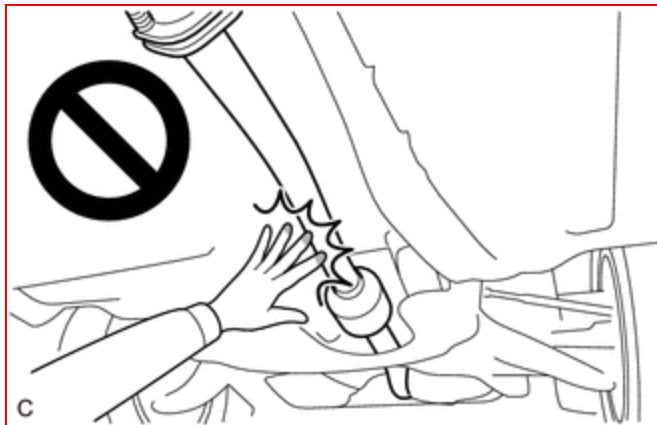
[Click here](#) [INFO](#)

- To prevent electric shock, wear insulated gloves when working on wire harnesses and components of the high



voltage system.

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



engine is hot.

**HINT:**

When the cable is disconnected / reconnected to the auxiliary battery terminal, systems temporarily stop operating. However, each system has a function that completes learning the first time the system is used.

**Learning completes when vehicle is driven**

EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	NECESSARY PROCEDURE	LINK
Front Camera System	Drive the vehicle straight ahead at 35 km/h (22 mph) or more for 5 seconds or more.	<a href="#">INFO</a>

**Learning completes when vehicle is operated normally**

EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	NECESSARY PROCEDURE	LINK
Power Door Lock Control System*1 <ul style="list-style-type: none"> <li>Back door opener</li> </ul>	Perform door unlock operation with door control switch or electrical key transmitter sub-assembly switch.	<a href="#">INFO</a>
Power Back Door System*2	Reset back door close position	<a href="#">INFO</a>
Air Conditioning System	<b>for HEV Model:</b>	-

\*1: w/o Power Back Door System

\*2: w/ Power Back Door System

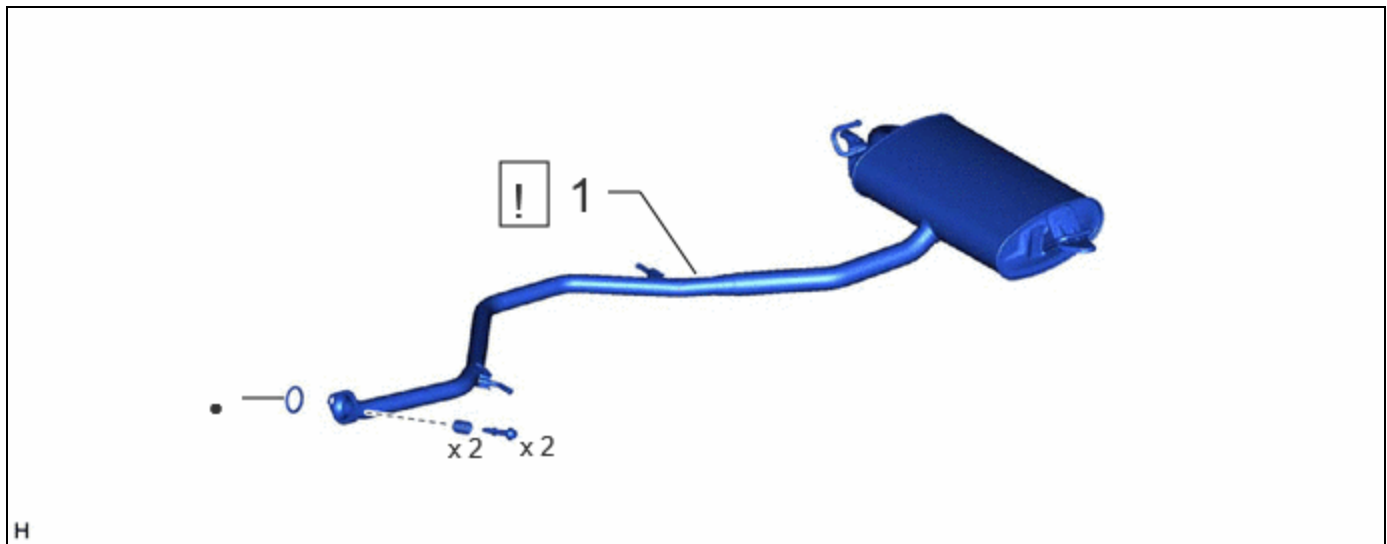
EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	NECESSARY PROCEDURE	LINK
	<p>After the ignition switch is turned to ON, the servo motor standard position is recognized.</p> <p><b>for PHEV Model:</b></p> <p>After the ignition switch is turned to ON, the servo motor and expansion valve standard position is recognized.</p>	

\*1: w/o Power Back Door System

\*2: w/ Power Back Door System

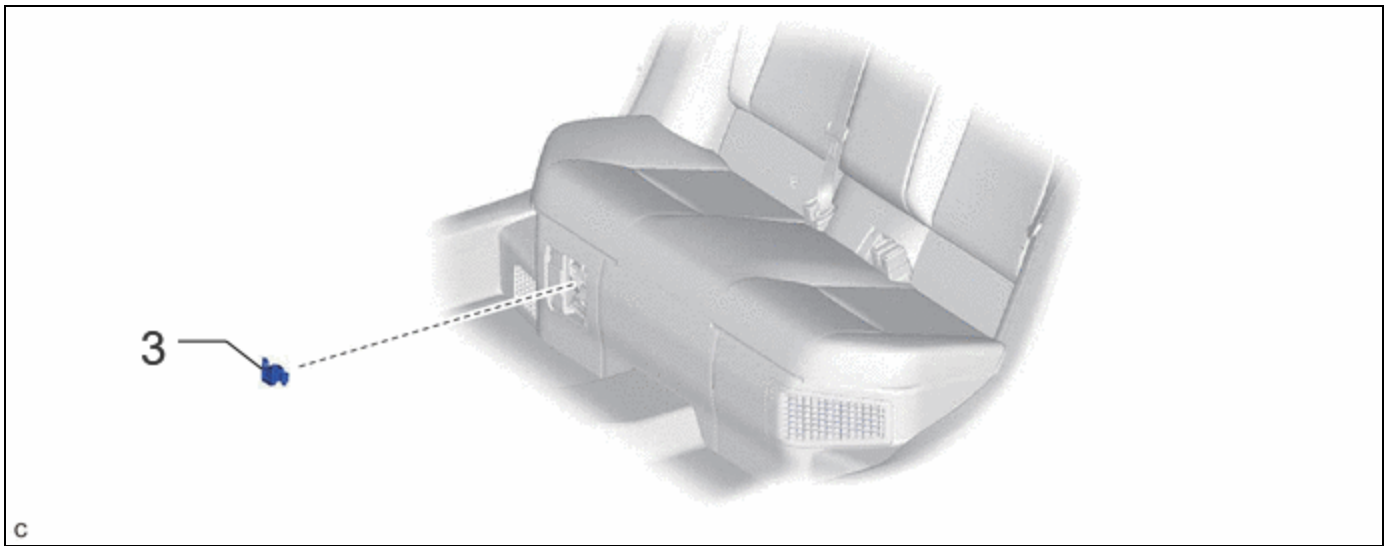
## CAUTION / NOTICE / HINT

### COMPONENTS (REMOVAL)

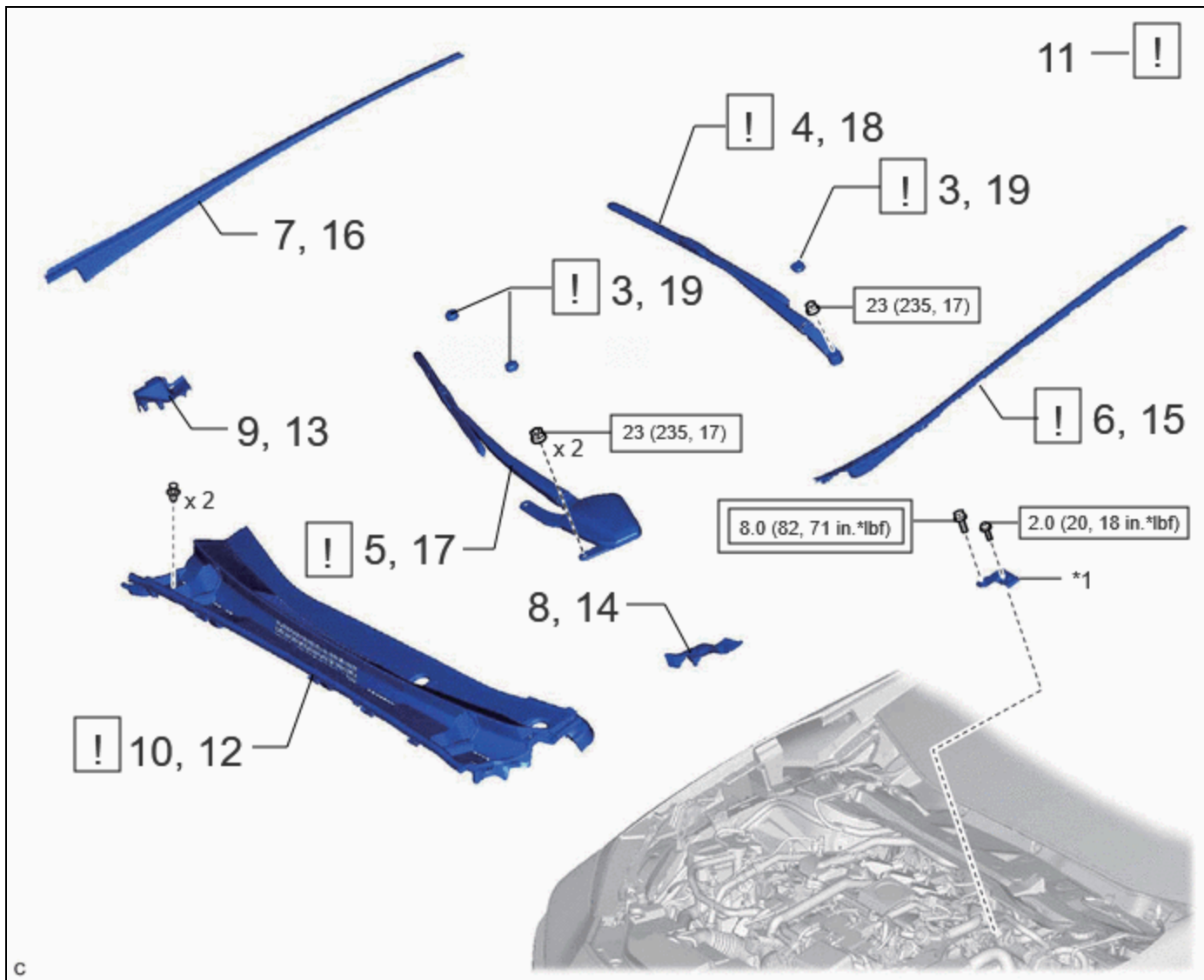


PROCEDURE	PART NAME CODE	!	📄	⚙️
1 TAIL EXHAUST PIPE ASSEMBLY	17430	INFO	-	-

•	Non-reusable part	-	-
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
PROCEDURE	PART NAME CODE	!	📄	⚙️
2	SERVICE PLUG GRIP	-	-	-





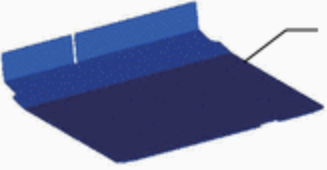
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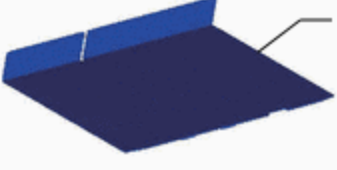
PROCEDURE		PART NAME CODE			
3	SHIELD CAP	85247	<a href="#">INFO</a>	-	-
4	FRONT WIPER ARM AND BLADE ASSEMBLY LH	-	-	-	-
5	FRONT WIPER ARM AND BLADE ASSEMBLY RH	-	-	-	-
6	WINDSHIELD LOWER OUTSIDE MOULDING LH	75536D	<a href="#">INFO</a>	-	-
7	WINDSHIELD LOWER OUTSIDE MOULDING RH	75535F	-	-	-
8	COWL WATER EXTRACT SHIELD LH	55754F	-	-	-
9	COWL WATER EXTRACT SHIELD RH	55753D	-	-	-
10	COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY	55708	-	-	-
11	CHECK TERMINAL VOLTAGE	-	<a href="#">INFO</a>	-	-
12	COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY	55708	<a href="#">INFO</a>	-	-
13	COWL WATER EXTRACT SHIELD RH	55753D	-	-	-

PROCEDURE		PART NAME CODE			
14	COWL WATER EXTRACT SHIELD LH	55754F	-	-	-
15	WINDSHIELD LOWER OUTSIDE MOULDING LH	75536D	-	-	-
16	WINDSHIELD LOWER OUTSIDE MOULDING RH	75535F	-	-	-
17	FRONT WIPER ARM AND BLADE ASSEMBLY RH	-		-	-
18	FRONT WIPER ARM AND BLADE ASSEMBLY LH	-	-	-	-
19	SHIELD CAP	85247	-	-	-

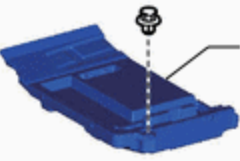
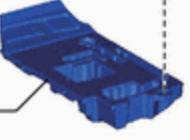
*1	Connector Cover Assembly	-	-
	Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping" : N*m (kgf*cm, ft.*lbf)		N*m (kgf*cm, ft.*lbf): Specified torque

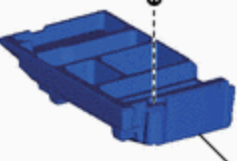
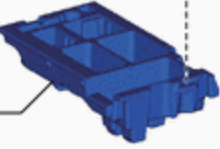
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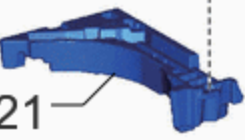

\*A  20




\*B  20

\*C

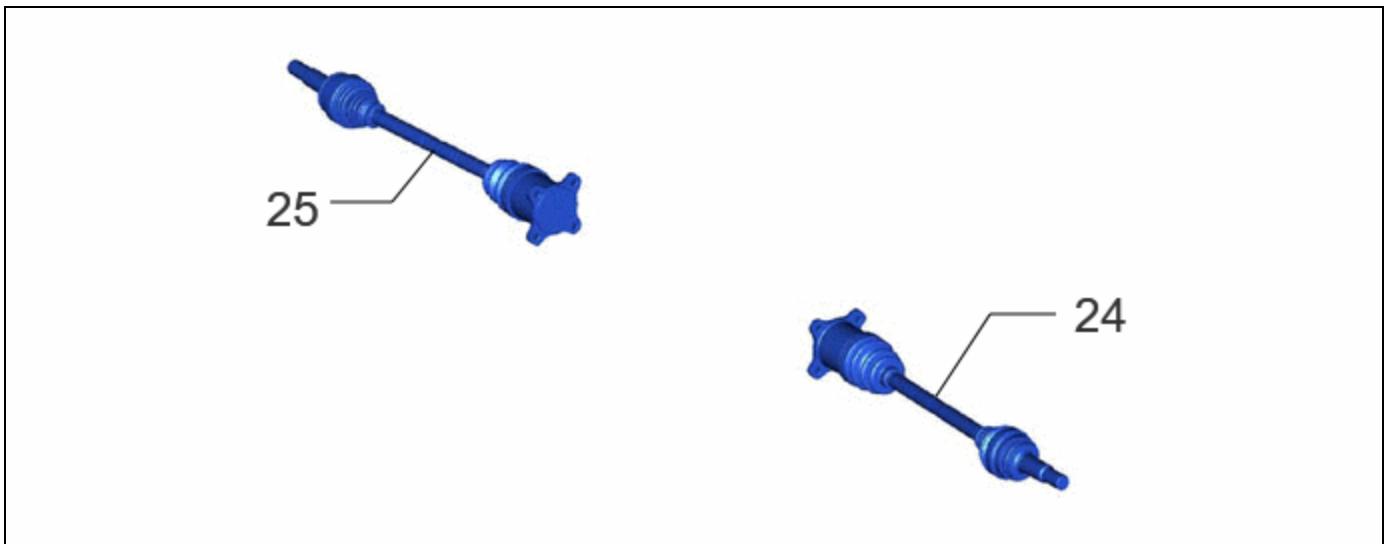
\*A  22  21




\*B  22  21

\*D  21  22

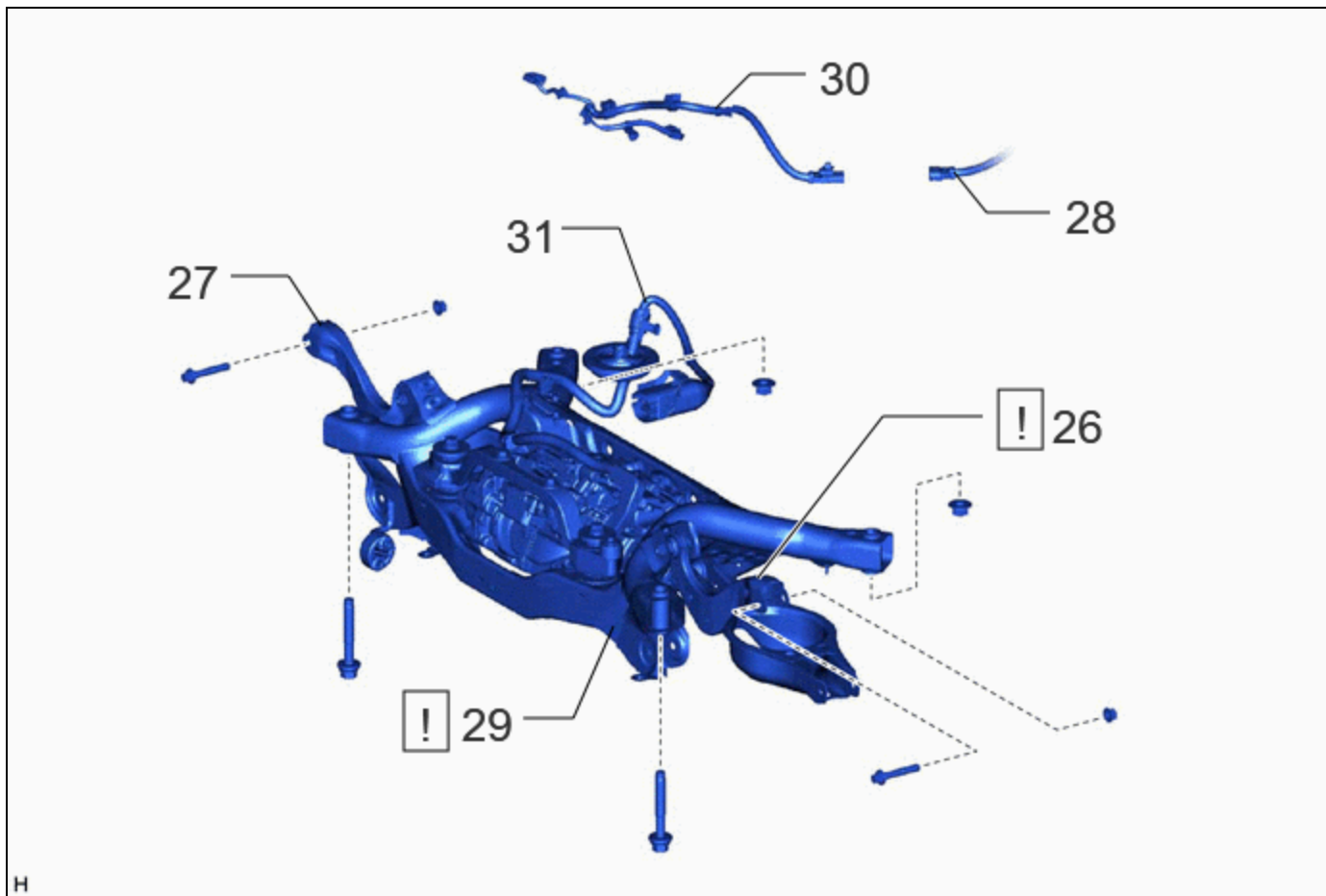
PROCEDURE		PART NAME CODE			
20	DECK BOARD ASSEMBLY	58410B	-	-	-
21	DECK FLOOR BOX RH	64995	-	-	-
22	DECK FLOOR BOX LH	64997	-	-	-
23	REAR TRACTION MOTOR CABLE	G1149	<b>INFO</b>	-	-

*A	for Type A	*B	for Type B
*C	w/o Spare Tire	*D	w/ Spare Tire

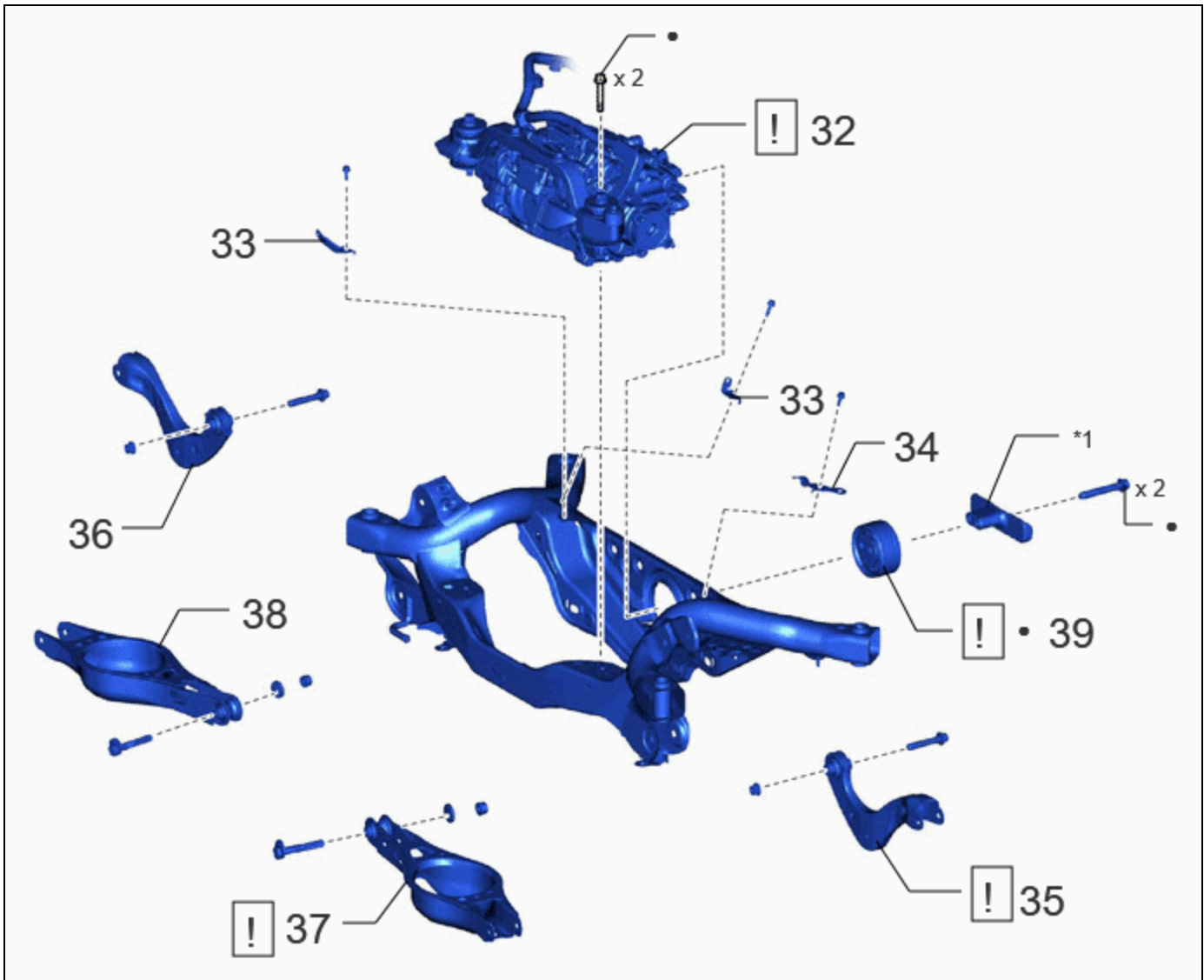


PROCEDURE		PART NAME CODE			
24	REAR DRIVE SHAFT ASSEMBLY LH	42340B	-	-	-
25	REAR DRIVE SHAFT ASSEMBLY RH	42330	-	-	-





PROCEDURE		PART NAME CODE			
26	REAR UPPER CONTROL ARM ASSEMBLY LH	48790	<a href="#">INFO</a>	-	-
27	REAR UPPER CONTROL ARM ASSEMBLY RH	48770A	-	-	-
28	FRAME WIRE	-	-	-	-
29	REAR SUSPENSION MEMBER SUB-ASSEMBLY	51206A	<a href="#">INFO</a>	-	-
30	NO. 6 FLOOR WIRE	82169A	-	-	-
31	REAR TRACTION MOTOR CABLE	G1149	<a href="#">INFO</a>	-	-



PROCEDURE		PART NAME CODE			
32	REAR TRACTION MOTOR WITH TRANSAXLE ASSEMBLY	G1050	<a href="#">INFO</a>	-	-
33	MOTOR CABLE BRACKET	-	-	-	-
34	WIRE HARNESS CLAMP BRACKET	-	-	-	-
35	REAR UPPER CONTROL ARM ASSEMBLY LH	48790	<a href="#">INFO</a>	-	-
36	REAR UPPER CONTROL ARM ASSEMBLY RH	48770A	-	-	-
37	REAR NO. 2 SUSPENSION ARM ASSEMBLY LH	48740F	<a href="#">INFO</a>	-	-
38	REAR NO. 2 SUSPENSION ARM ASSEMBLY RH	48730F	-	-	-
39	DIFFERENTIAL MOUNT CUSHION	41651G	<a href="#">INFO</a>	-	-

*1	DIFFERENTIAL MASS DAMPER	-	-
•	Non-reusable part	-	-

## **PROCEDURE**

### **1. REMOVE TAIL EXHAUST PIPE ASSEMBLY**



Click here [INFO](#)

### **2. REMOVE SERVICE PLUG GRIP**

Click here [INFO](#)

### **3. REMOVE SHIELD CAP**



Click here [INFO](#)

### **4. REMOVE FRONT WIPER ARM AND BLADE ASSEMBLY LH**

Click here [INFO](#)

### **5. REMOVE FRONT WIPER ARM AND BLADE ASSEMBLY RH**

Click here [INFO](#)

### **6. REMOVE WINDSHIELD LOWER OUTSIDE MOULDING LH**



Click here [INFO](#)

### **7. REMOVE WINDSHIELD LOWER OUTSIDE MOULDING RH**

(a) Perform the same procedure as for the LH side.

### **8. REMOVE COWL WATER EXTRACT SHIELD LH**

Click here [INFO](#)

### **9. REMOVE COWL WATER EXTRACT SHIELD RH**

(a) Perform the same procedure as for the LH side.

### **10. REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY**

Click here [INFO](#)

### **11. CHECK TERMINAL VOLTAGE**



Click here [INFO](#)

**12. INSTALL COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY**

Click here [INFO](#)

**13. INSTALL COWL WATER EXTRACT SHIELD RH****14. INSTALL COWL WATER EXTRACT SHIELD LH****15. INSTALL WINDSHIELD LOWER OUTSIDE MOULDING LH**

Click here [INFO](#)

**16. INSTALL WINDSHIELD LOWER OUTSIDE MOULDING RH**

(a) Perform the same procedure as for the LH side.

**17. INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY RH**

Click here [INFO](#)

**18. INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY LH**

Click here [INFO](#)

**19. INSTALL SHIELD CAP****20. REMOVE DECK BOARD ASSEMBLY**

Click here [INFO](#)

**21. REMOVE DECK FLOOR BOX RH**

Click here [INFO](#)

**22. REMOVE DECK FLOOR BOX LH**

Click here [INFO](#)

**23. DISCONNECT REAR TRACTION MOTOR CABLE**

Click here [INFO](#)


**24. REMOVE REAR DRIVE SHAFT ASSEMBLY LH**

Click here [INFO](#)

**25. REMOVE REAR DRIVE SHAFT ASSEMBLY RH**

(a) Perform the same procedure as for the LH side.

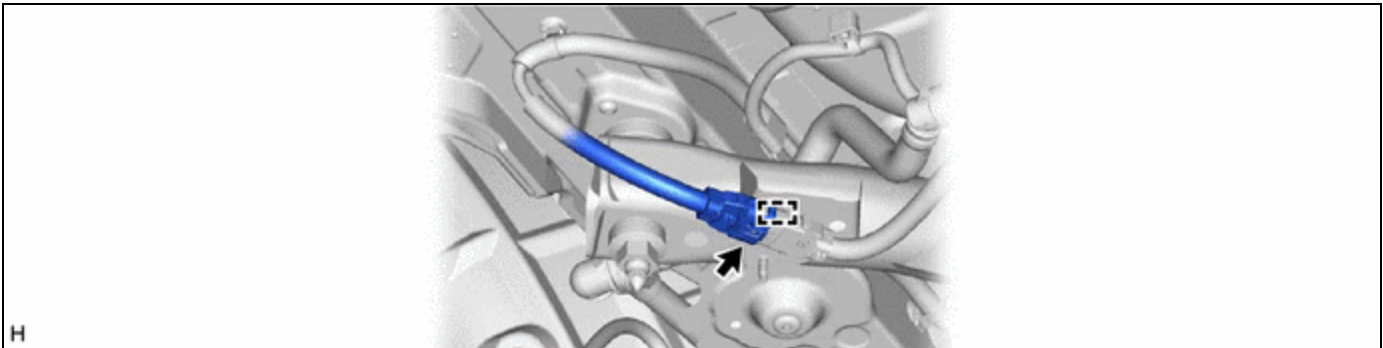
**26. SEPARATE REAR UPPER CONTROL ARM ASSEMBLY LH**

	Click here <a href="#" style="background-color: #0056b3; color: white; padding: 2px 5px; text-decoration: none;">INFO</a>
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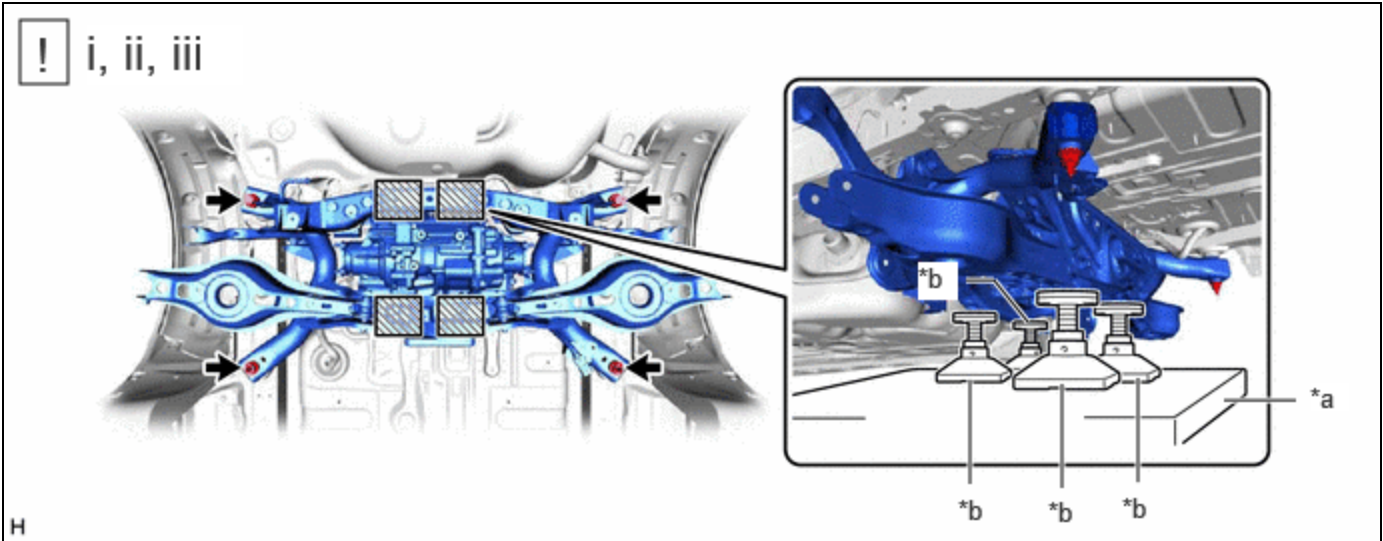
**27. SEPARATE REAR UPPER CONTROL ARM ASSEMBLY RH**


(a) Perform the same procedure as for the LH side.

**28. SEPARATE FRAME WIRE**



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



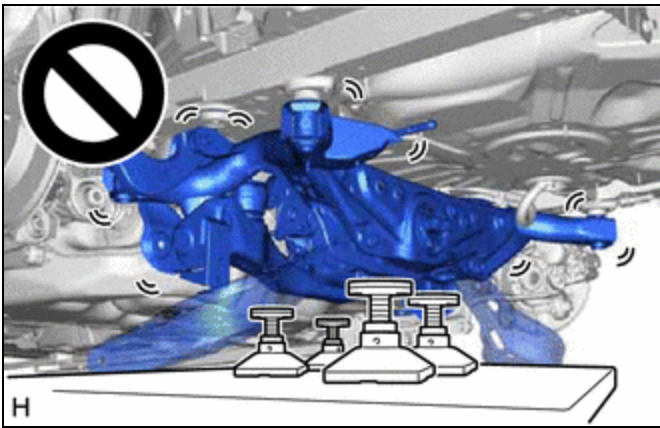
*a	Engine Lifter	*b	Attachment
	Attachment and Wooden Block Placement Location	-	-

(1) 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 or equivalent tools to keep the rear suspension member sub-assembly level.

- (2) Remove the 2 bolts and 2 nuts.
- (3) Slowly lower the rear suspension member sub-assembly.

**NOTICE:**

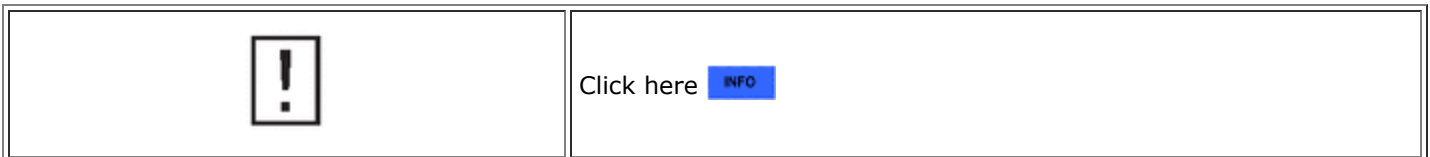
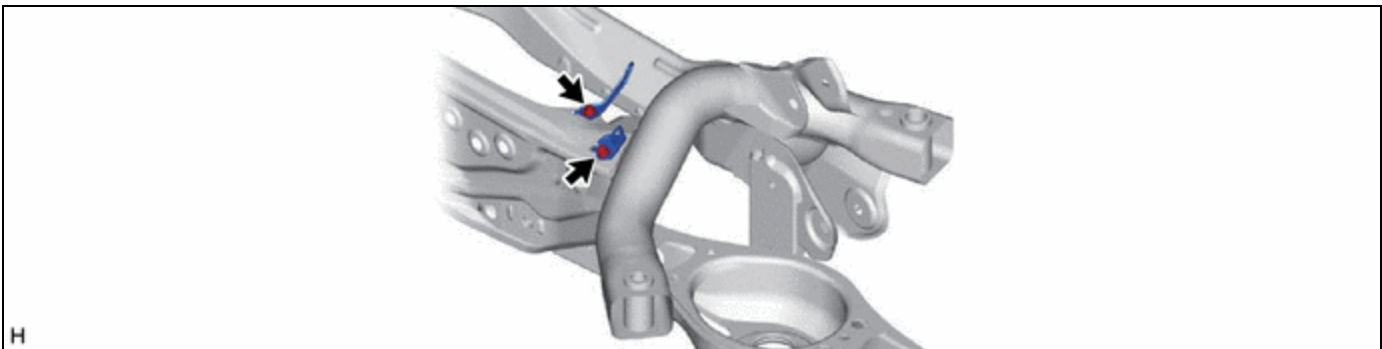
When lowering the rear suspension member sub-assembly, be careful not to damage the vehicle body or other components installed to the vehicle.

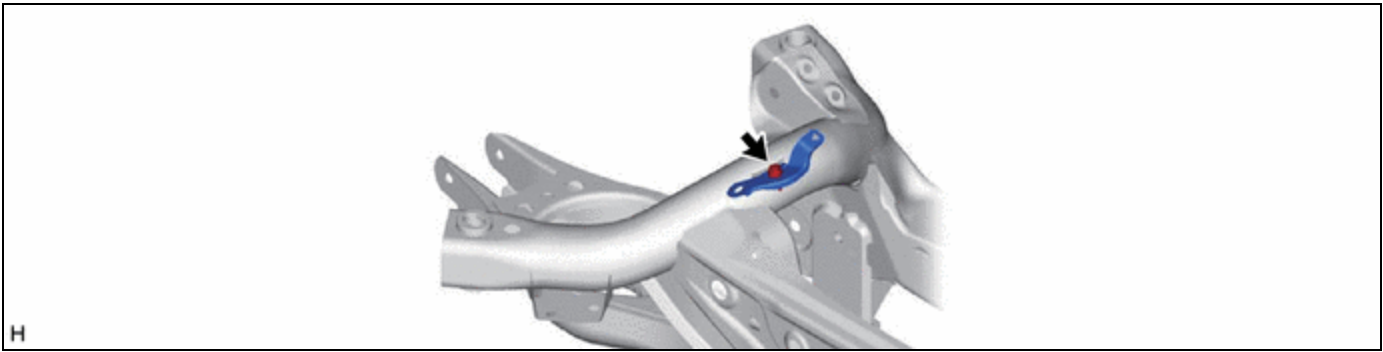
**30. REMOVE NO. 6 FLOOR WIRE**

Click here [INFO](#)

**31. DISCONNECT REAR TRACTION MOTOR CABLE**

Click here [INFO](#)

**32. REMOVE REAR TRACTION MOTOR WITH TRANSAXLE ASSEMBLY****33. REMOVE MOTOR CABLE BRACKET****34. REMOVE WIRE HARNESS CLAMP BRACKET**



**35. REMOVE REAR UPPER CONTROL ARM ASSEMBLY LH**

	Click here <a href="#">INFO</a>
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**36. REMOVE REAR UPPER CONTROL ARM ASSEMBLY RH**

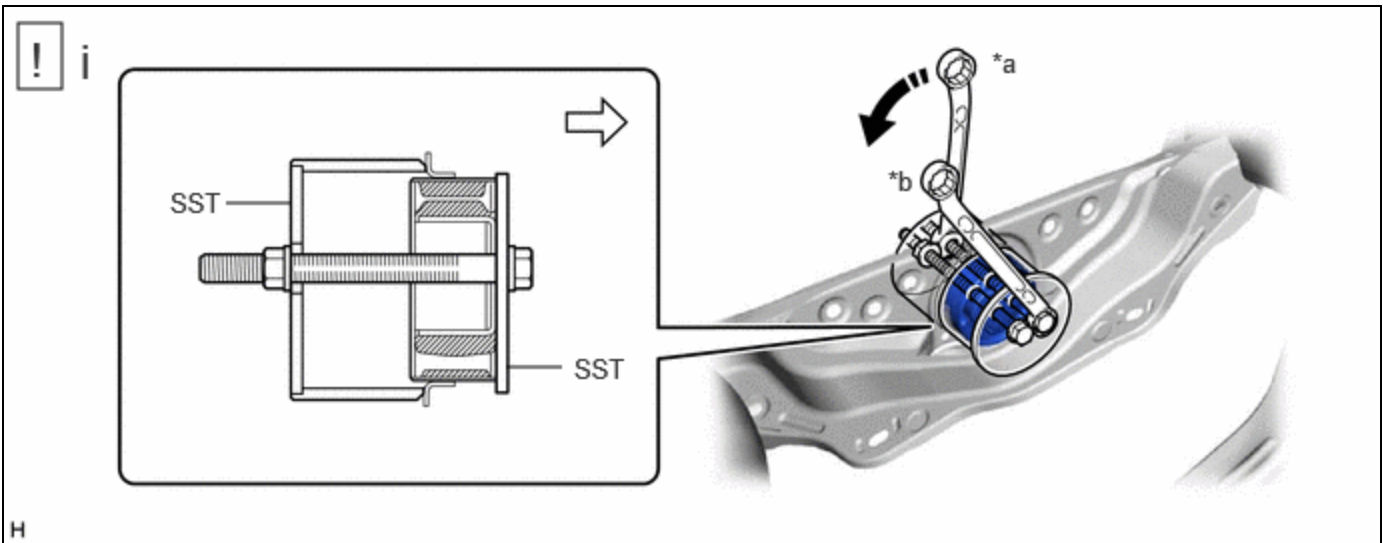
(a) Perform the same procedure as for the LH side.

**37. REMOVE REAR NO. 2 SUSPENSION ARM ASSEMBLY LH**

	Click here <a href="#">INFO</a>
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**38. REMOVE REAR NO. 2 SUSPENSION ARM ASSEMBLY RH**

**39. REMOVE DIFFERENTIAL MOUNT CUSHION**



*a	Turn	*b	Hold
	Turning Direction		Front of Vehicle

(1) Using SST, remove the differential mount cushion from the rear suspension member sub-assembly.

**SST: 09570-48010**

**NOTICE:**

- Apply grease to the threads of the SST center bolt before use.
- Install the SST bolts straight and tighten them equally.

