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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: M20A-FXS (FUEL): FUEL TANK (for PHEV Model): REMOVAL; 2023 - 2024 MY 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 fuel tank 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"> DTCs are stored ABS warning light illuminates Brake system warning light (yellow indicator) illuminates Slip indicator light illuminates Electronically controlled brake system disabled or malfunctions 	INFO
Tires	<ul style="list-style-type: none"> Initialization*1*2 Tire Position Identification*1*2 	Tire Pressure Warning System	Refer to Procedures Necessary When Replacing Parts (for Tire Pressure Warning System) INFO
	Rear television camera assembly optical axis (Back camera position setting)*3	Parking Assist Monitor System	INFO
	Parking assist ECU initialization*3	Panoramic View Monitor System	INFO
		Advanced Park	INFO
Suspension parts	Rear television camera assembly optical axis (Back camera position setting)	Parking Assist Monitor System	INFO

*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.

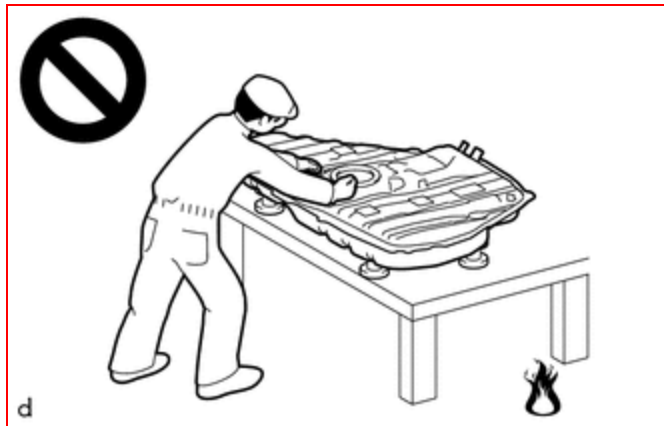
*3: The vehicle height changes because of suspension or tire replacement.

REPLACED PART OR PERFORMED PROCEDURE	NECESSARY PROCEDURE	EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	LINK
	Parking assist ECU initialization	Panoramic View Monitor System	INFO
		Advanced Park	INFO
Gas leak from exhaust system is repaired	Inspection after repair	<ul style="list-style-type: none"> • Poor idle, etc. • Engine start function, etc. 	INFO

*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:

- Never perform work on fuel system components near any possible ignition sources.

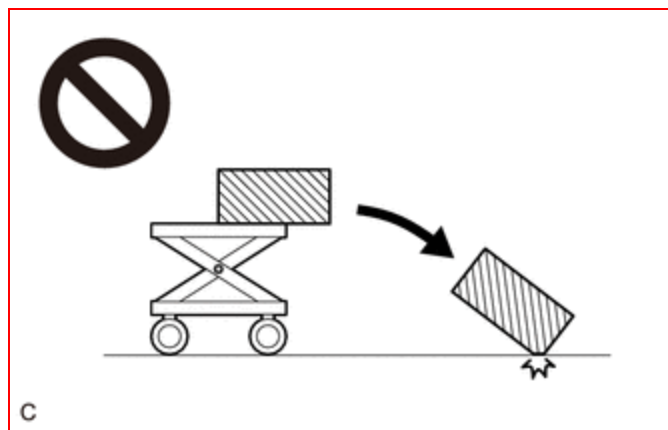


- Vaporized fuel could ignite, resulting in a serious accident.
- Do not perform work on fuel system components without first disconnecting the cable from the negative (-) auxiliary battery terminal.



- Sparks could cause vaporized fuel to ignite, resulting in a serious accident.

- The fuel tank sub-assembly is very heavy. Be sure to follow the procedure described in the repair manual, or the fuel tank sub-assembly may fall off the engine lifter.



NOTICE:

After the ignition switch is turned off, there may be a waiting time before disconnecting the negative (-) auxiliary battery terminal.

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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

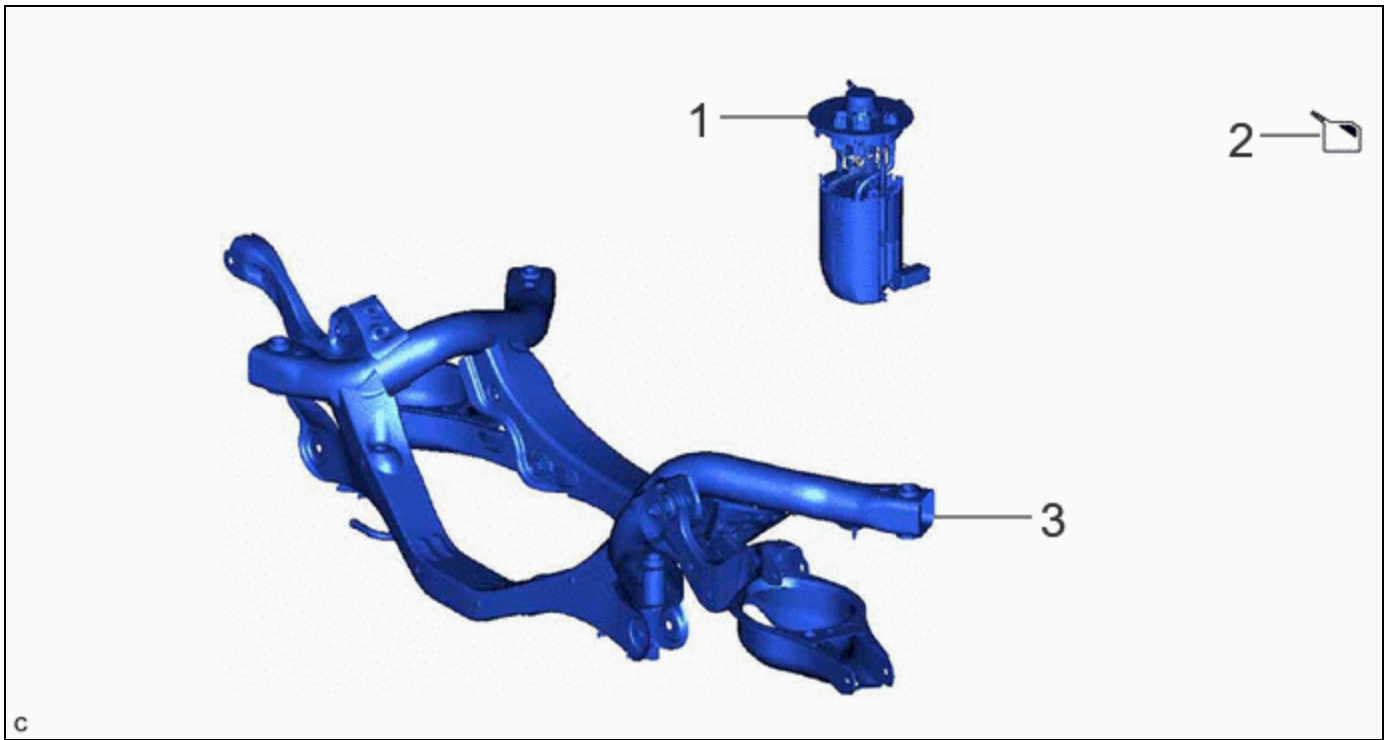
EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	NECESSARY PROCEDURE	LINK
Front Camera System	Drive the vehicle straight ahead at 35 km/h (22 mph) or more for 5 seconds or more.	INFO

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"> • Back door opener 	Perform door unlock operation with door control switch or electrical key transmitter sub-assembly switch.	INFO
Power Back Door System*2	Reset back door close position	INFO
Air Conditioning System	After the ignition switch is turned to ON, the servo motor and cooler expansion valve standard position is recognized.	-
*1: w/o Power Back Door System		
*2: w/ Power Back Door System		

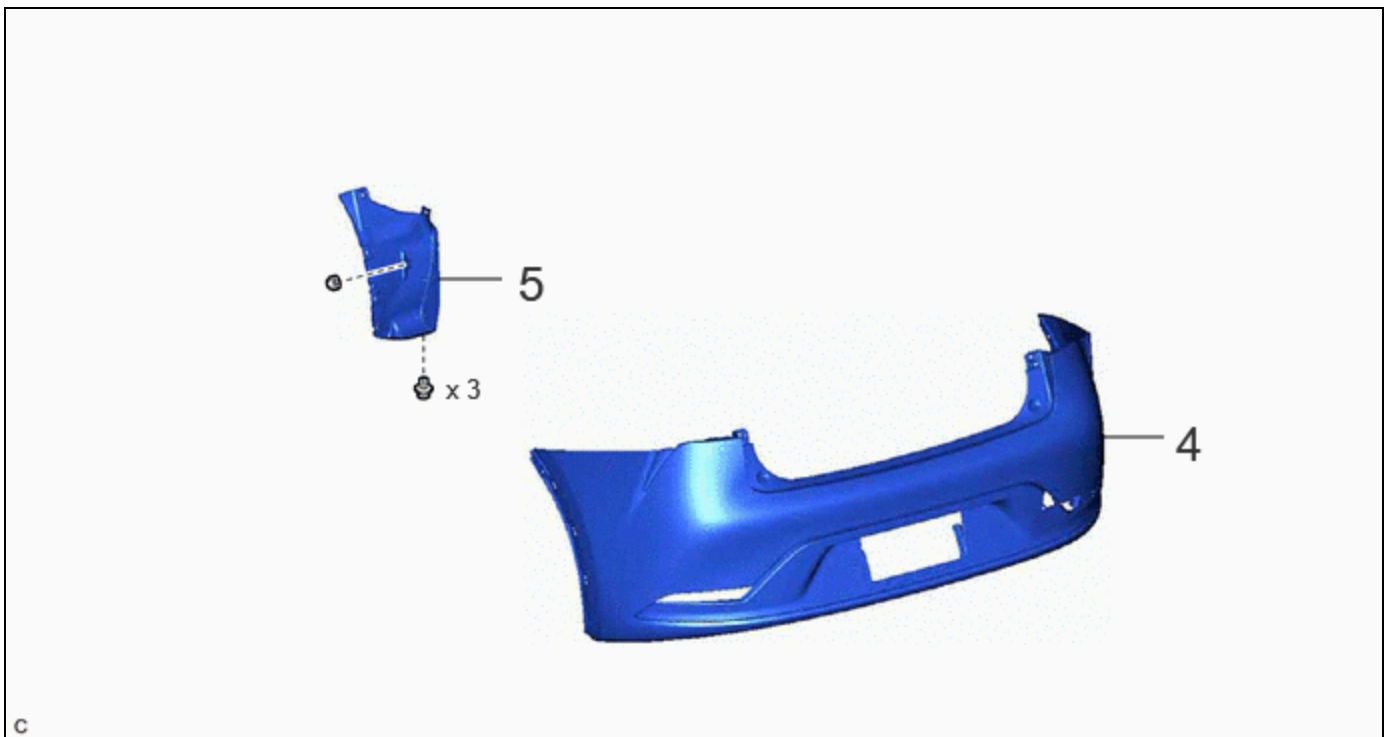
CAUTION / NOTICE / HINT

COMPONENTS (REMOVAL)






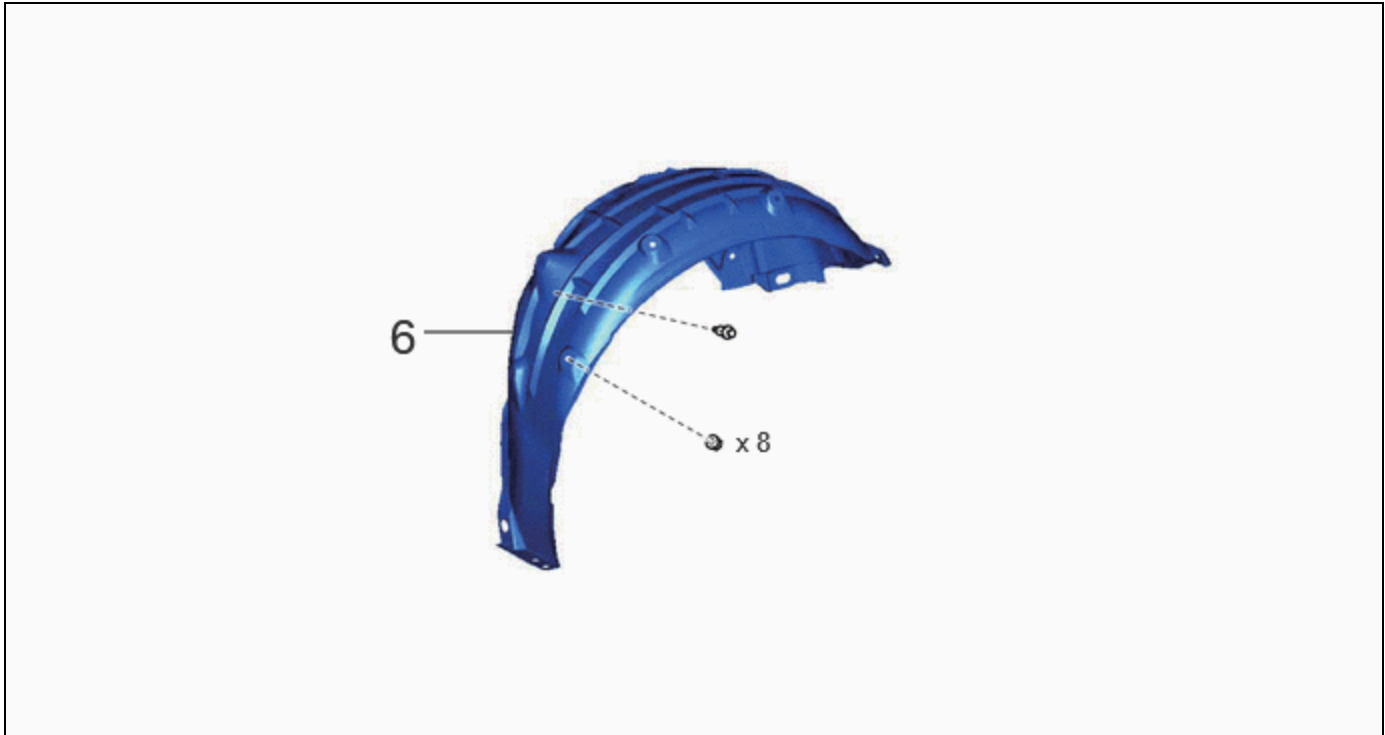
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	PROCEDURE	PART NAME CODE			
1	FUEL SUCTION TUBE WITH PUMP AND GAUGE ASSEMBLY	77020A	-	-	-
2	DRAIN FUEL	-	-	INFO	-
3	REAR SUSPENSION MEMBER SUB-ASSEMBLY	51206A	-	-	-

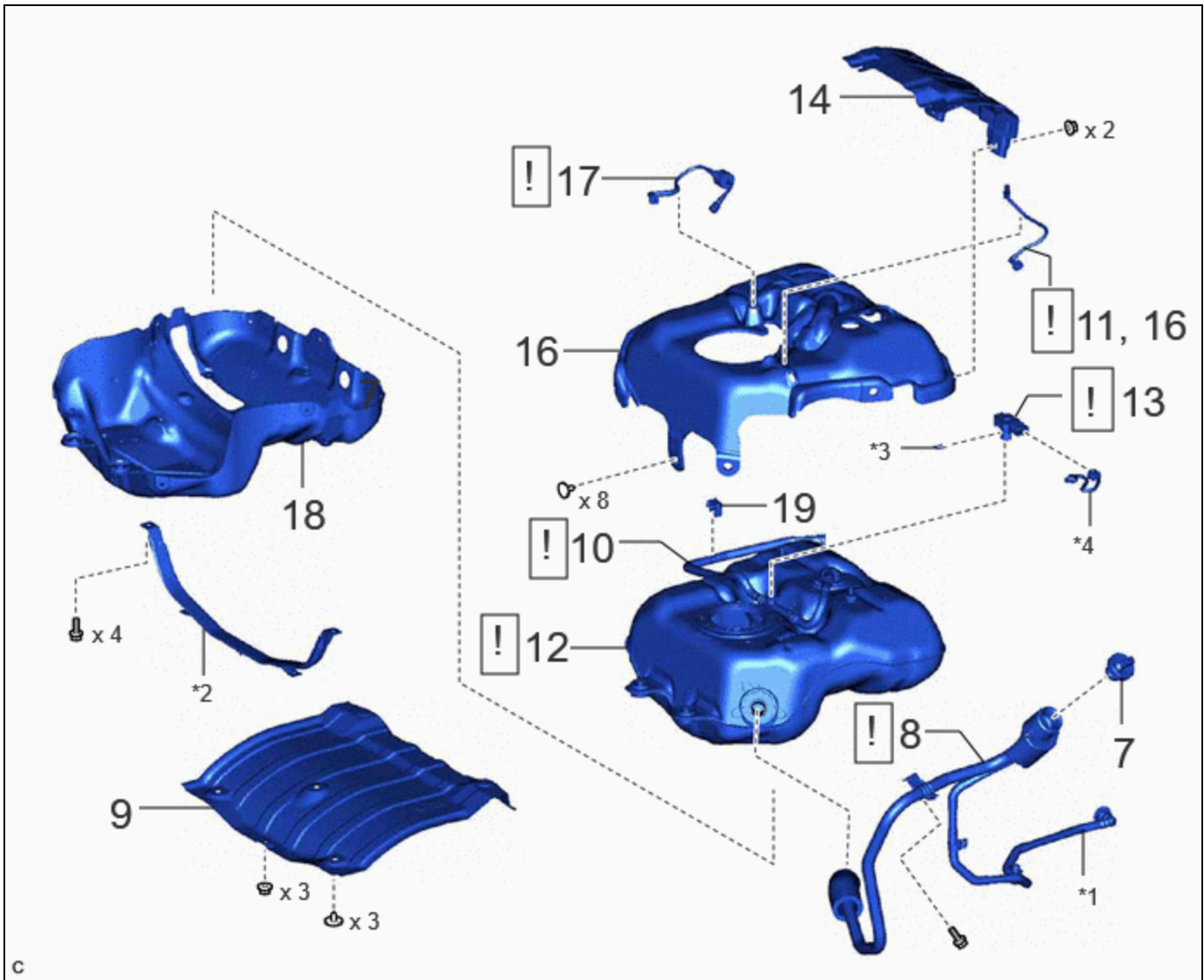





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	PROCEDURE	PART NAME CODE			
4	REAR BUMPER ASSEMBLY	-	-	-	-
5	REAR BUMPER SIDE SEAL LH	52592	-	-	-



	PROCEDURE	PART NAME CODE			
6	REAR WHEEL HOUSE LINER LH	65638	-	-	-



PROCEDURE		PART NAME CODE			
7	FUEL TANK CAP ASSEMBLY	77310A	-	-	-
8	FUEL TANK FILLER PIPE ASSEMBLY	77210	INFO	-	-
9	UPPER MAIN MUFFLER HEAT INSULATOR	58327D	-	-	-
10	NO. 2 FUEL TANK BREATHER TUBE SUB-ASSMBLY	-	INFO	-	-
11	DISCONNECT FUEL TANK MAIN TUBE SUB-ASSEMBLY	77209F	INFO	-	-
12	FUEL TANK SUB-ASSEMBLY	77100U	INFO	-	-
13	FUEL TANK PRESSURE SENSOR (VAPOR PRESSURE SENSOR)	89461	INFO	-	-
14	NO. 2 FUEL TANK PROTECTOR SUB-ASSEMBLY	77607C	-	-	-
15	UPPER FUEL TANK COVER	77611F	-	-	-
16	REMOVE FUEL TANK MAIN TUBE SUB-ASSEMBLY	77209F	-	-	-

PROCEDURE		PART NAME CODE			
17	FUEL TANK EVAPORATION VENT TUBE SUB-ASSEMBLY	77018E	INFO	-	-
18	NO. 1 FUEL TANK PROTECTOR SUB-ASSEMBLY	77606	-	-	-
19	NO. 2 EVAPORATION VENT TUBE CLAMP	77197F	-	-	-

*1	NO. 6 FUEL TANK BREATHER TUBE	*2	FUEL TANK BAND SUB-ASSEMBLY
*3	TUBE JOINT CLIP	*4	FUEL GAUGE WIRE

PROCEDURE

1. REMOVE FUEL SUCTION TUBE WITH PUMP AND GAUGE ASSEMBLY

Click here [INFO](#)

2. DRAIN FUEL

3. REMOVE REAR SUSPENSION MEMBER SUB-ASSEMBLY

Click here [INFO](#)

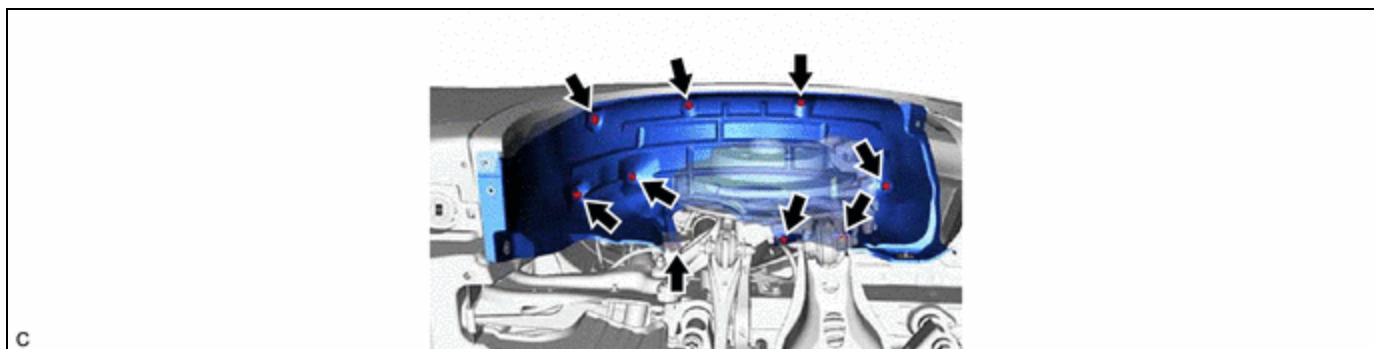
4. REMOVE REAR BUMPER ASSEMBLY

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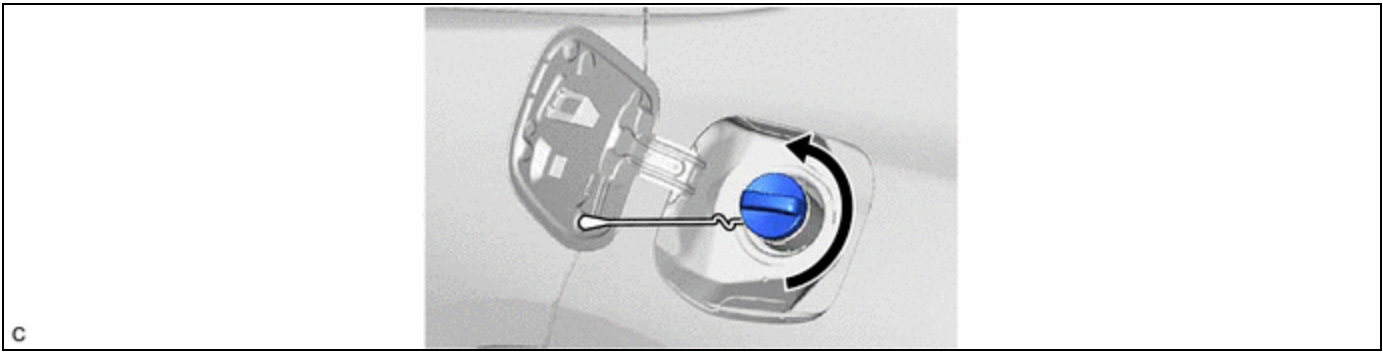
5. REMOVE REAR BUMPER SIDE SEAL LH

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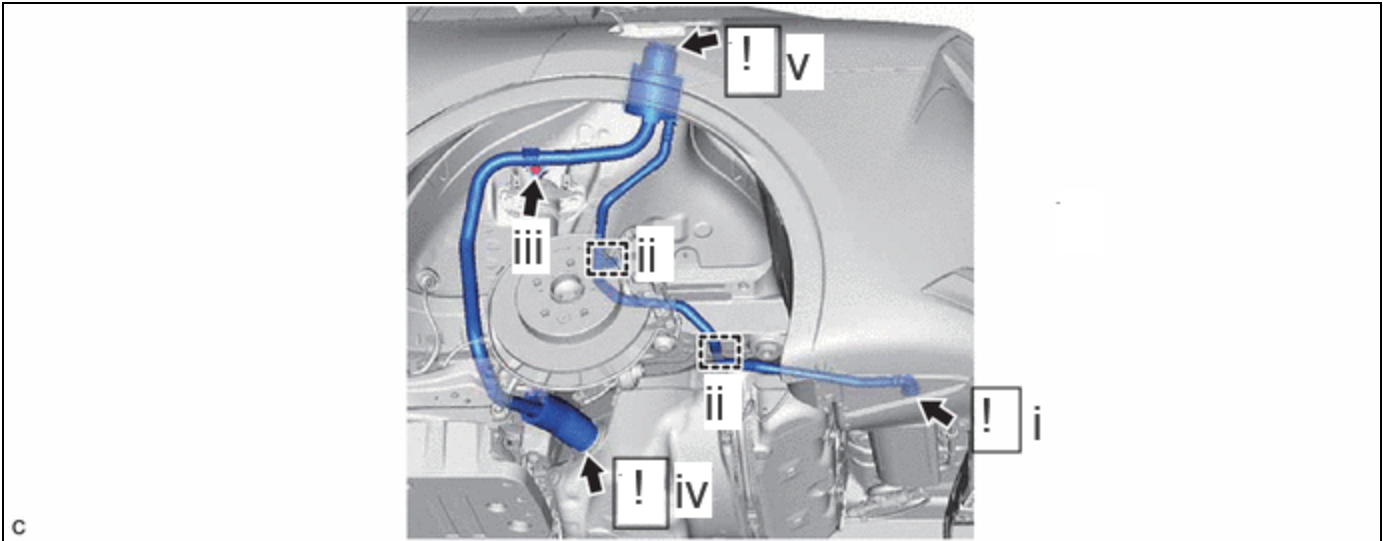
6. REMOVE REAR WHEEL HOUSE LINER LH



7. REMOVE FUEL TANK CAP ASSEMBLY



8. REMOVE FUEL TANK FILLER PIPE ASSEMBLY



- (1) Disconnect the No. 6 fuel tank breather tube from the charcoal canister assembly.

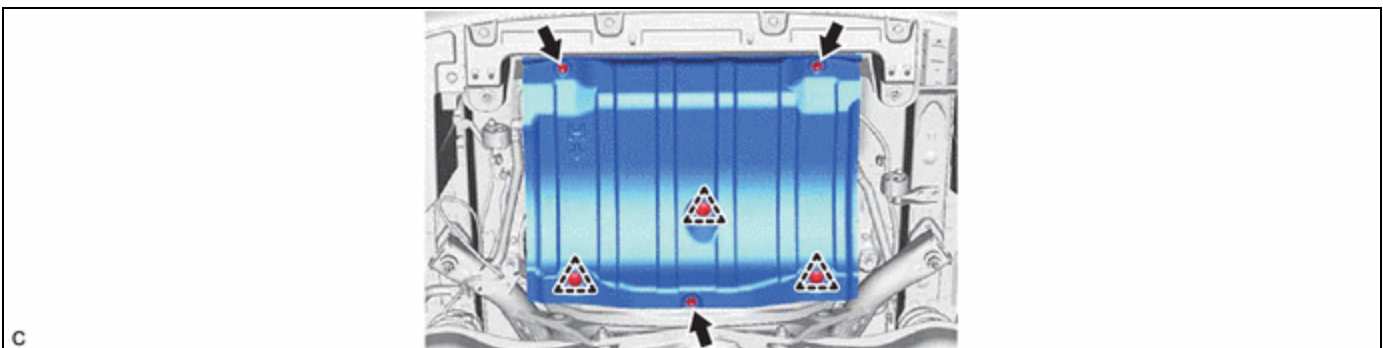
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- (2) Disengage the 2 clamps.
 (3) Remove the bolt.
 (4) Disconnect the fuel tank filler pipe assembly from the fuel tank sub-assembly.

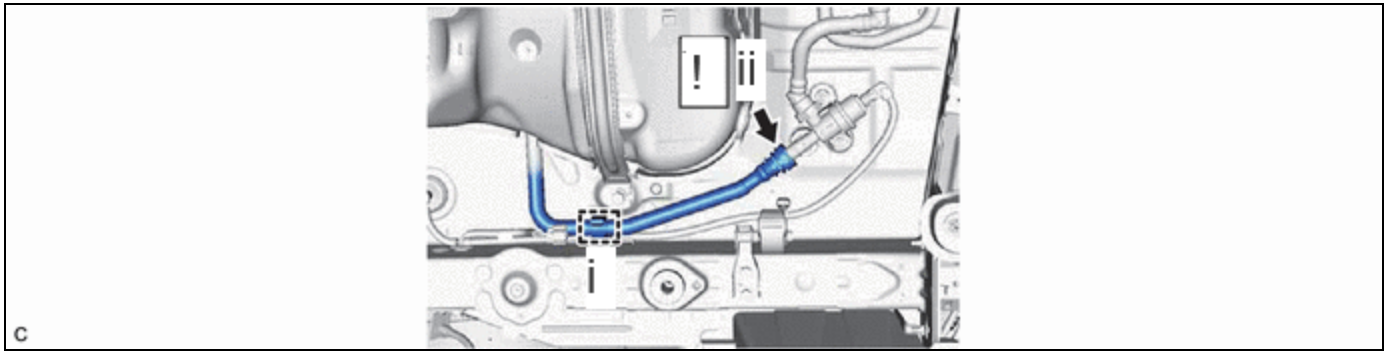
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- (5) Disengage the location shown in the illustration, and remove the fuel tank filler pipe assembly from the vehicle body.

9. REMOVE UPPER MAIN MUFFLER HEAT INSULATOR



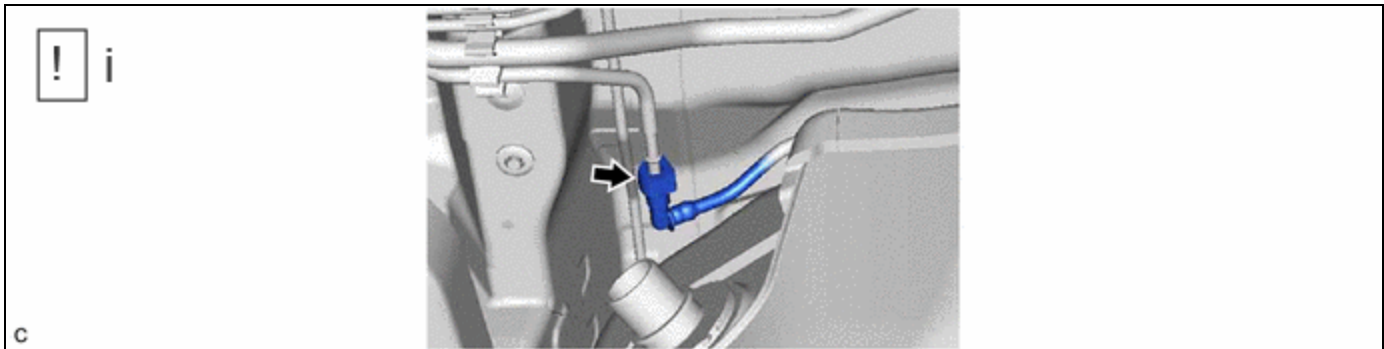
10. DISCONNECT NO. 2 FUEL TANK BREATHER TUBE SUB-ASSEMBLY



- (1) Disengage the clamp.
- (2) Disconnect the No. 2 fuel tank breather tube sub-assembly from the fuel vapor containment valve (close tank with bolt valve assembly).

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11. DISCONNECT FUEL TANK MAIN TUBE SUB-ASSEMBLY



- (1) Disconnect the fuel tank main tube sub-assembly from the fuel pipe.

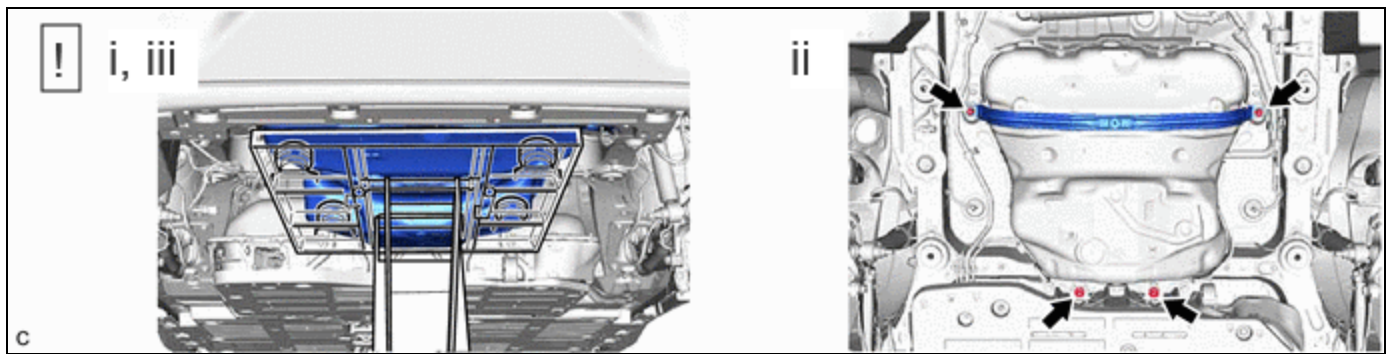
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12. REMOVE FUEL TANK SUB-ASSEMBLY

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CAUTION:

The fuel tank sub-assembly is very heavy. Be sure to follow the procedure described in the repair manual, or the fuel tank sub-assembly may fall off the engine lifter.



(1) Support the fuel tank sub-assembly using an engine lifter.

HINT:

Using height adjustment attachments and plate lift attachments, keep the fuel tank sub-assembly horizontal.

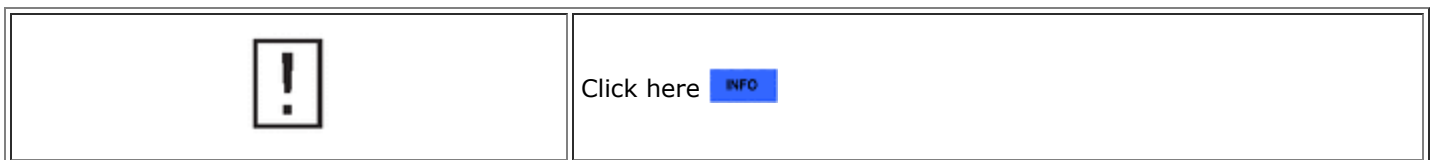
(2) Remove the 4 bolts and the fuel tank band sub-assembly.

(3) Lower the engine lifter to remove the fuel tank sub-assembly.

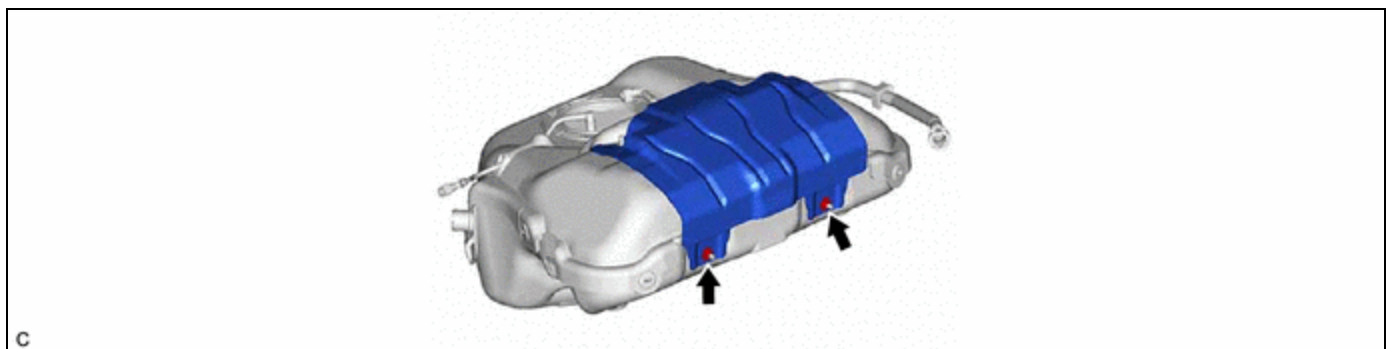
NOTICE:

- Be careful not to drop the fuel tank sub-assembly.
- When removing the fuel tank sub-assembly, tilt it slightly to prevent it from interfering with the surrounding parts.

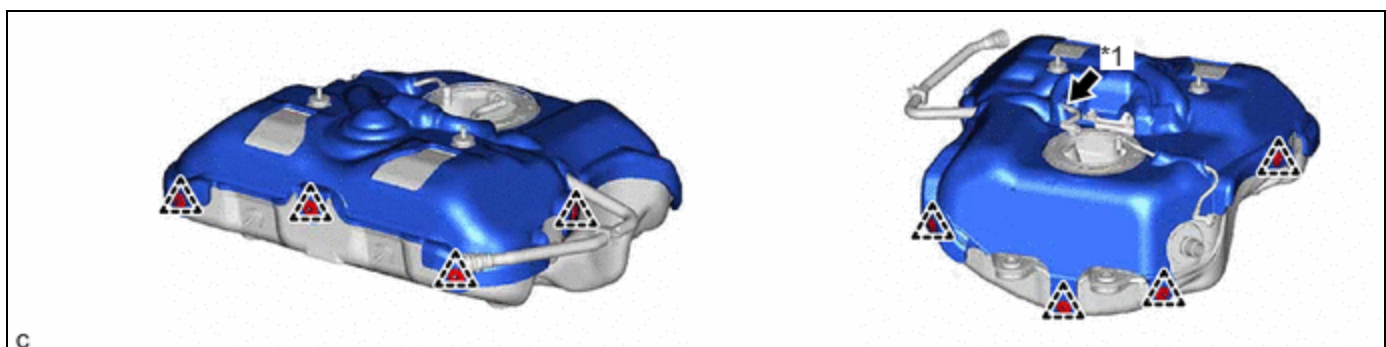
13. REMOVE FUEL TANK PRESSURE SENSOR (VAPOR PRESSURE SENSOR)



14. REMOVE NO. 2 FUEL TANK PROTECTOR SUB-ASSEMBLY

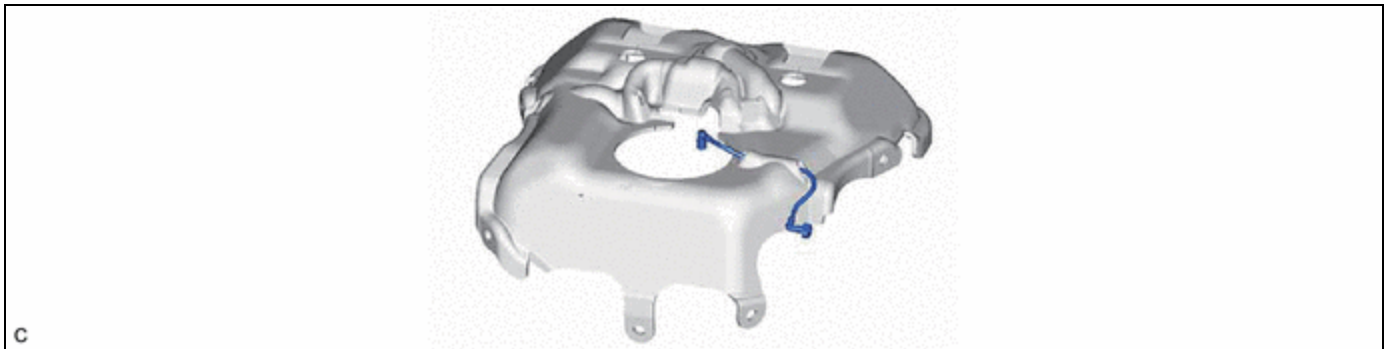


15. REMOVE UPPER FUEL TANK COVER

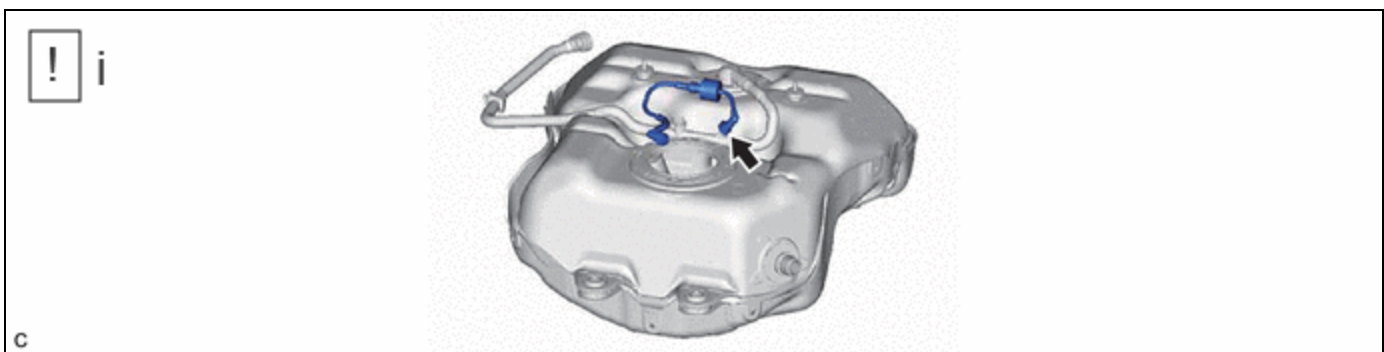


*1	Fuel Tank Evaporation Vent Tube Sub-assembly	-	-
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16. REMOVE FUEL TANK MAIN TUBE SUB-ASSEMBLY



17. DISCONNECT FUEL TANK EVAPORATION VENT TUBE SUB-ASSEMBLY



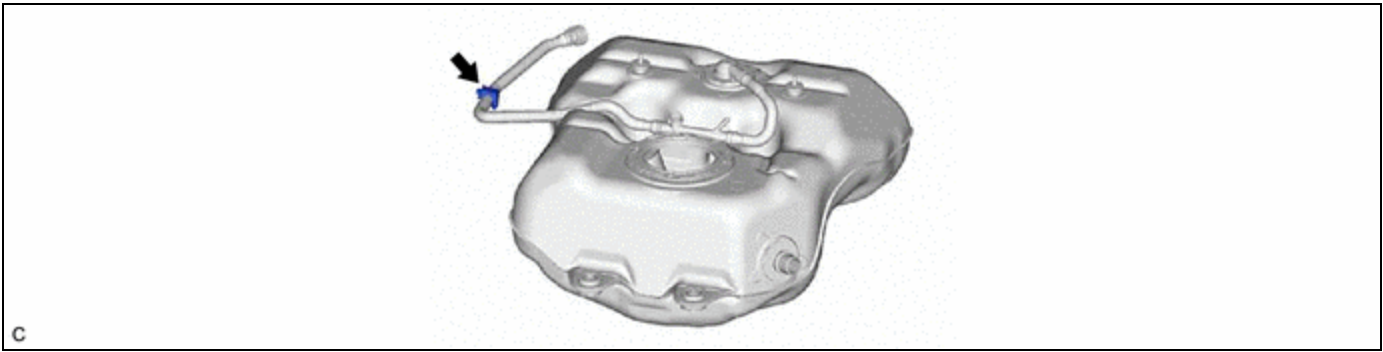
- (1) Disconnect the fuel tank evaporation vent tube sub-assembly from the No. 2 fuel tank breather tube sub-assembly.

Click here [INFO](#)

18. REMOVE NO. 1 FUEL TANK PROTECTOR SUB-ASSEMBLY



19. REMOVE NO. 2 EVAPORATION VENT TUBE CLAMP



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