

<b>Last Modified:</b> 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM1000000029ZXP
<b>Model Year Start:</b> 2023	<b>Model:</b> Prius	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> M20A-FXS (FUEL): FUEL PUMP (for HEV Model): REMOVAL; 2023 - 2024 MY Prius [12/2022 - ]		

## 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 pump 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
Replacement of fuel pump	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>

#### 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.

**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**

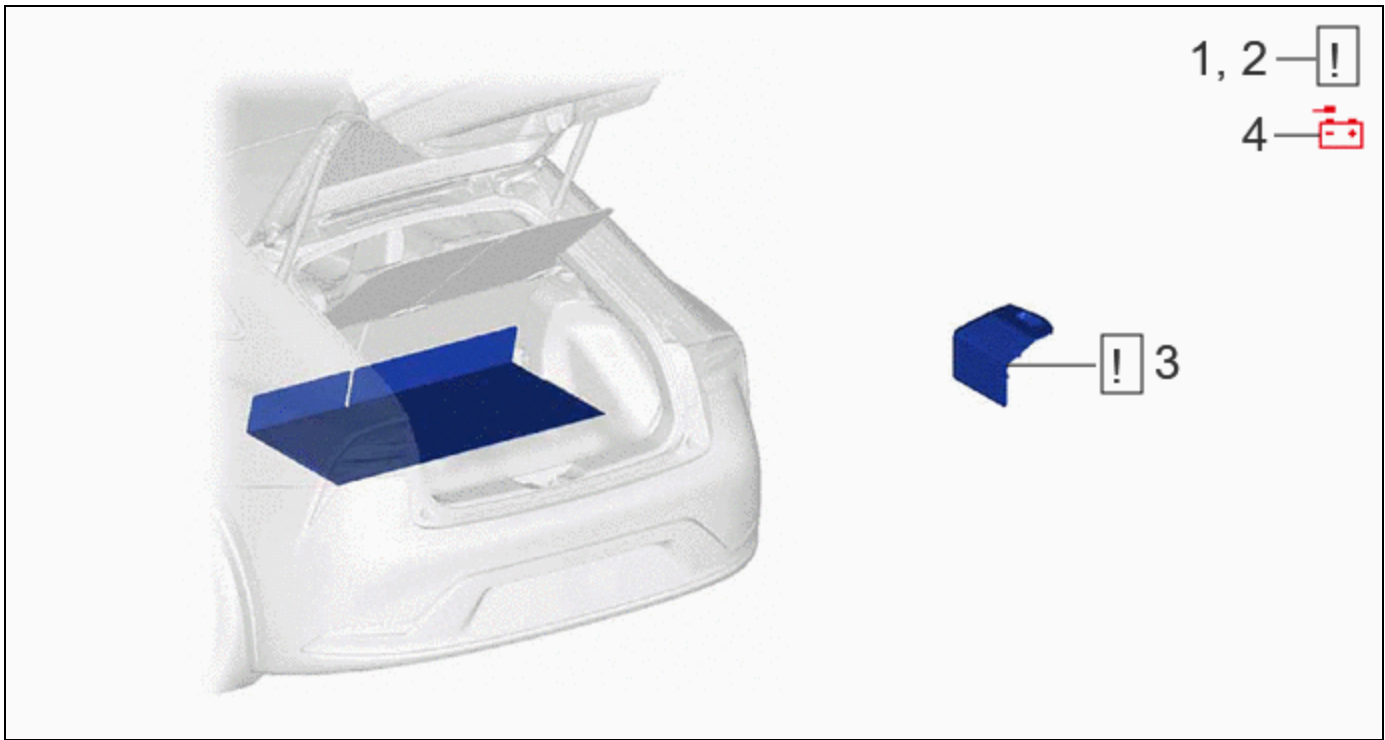
EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	NECESSARY PROCEDURE	LINK
Front Camera System	Drive the vehicle straight ahead at 35 km/h (22 mph) or more for 5 seconds or more.	<a href="#">INFO</a>

**Learning completes when vehicle is operated normally**

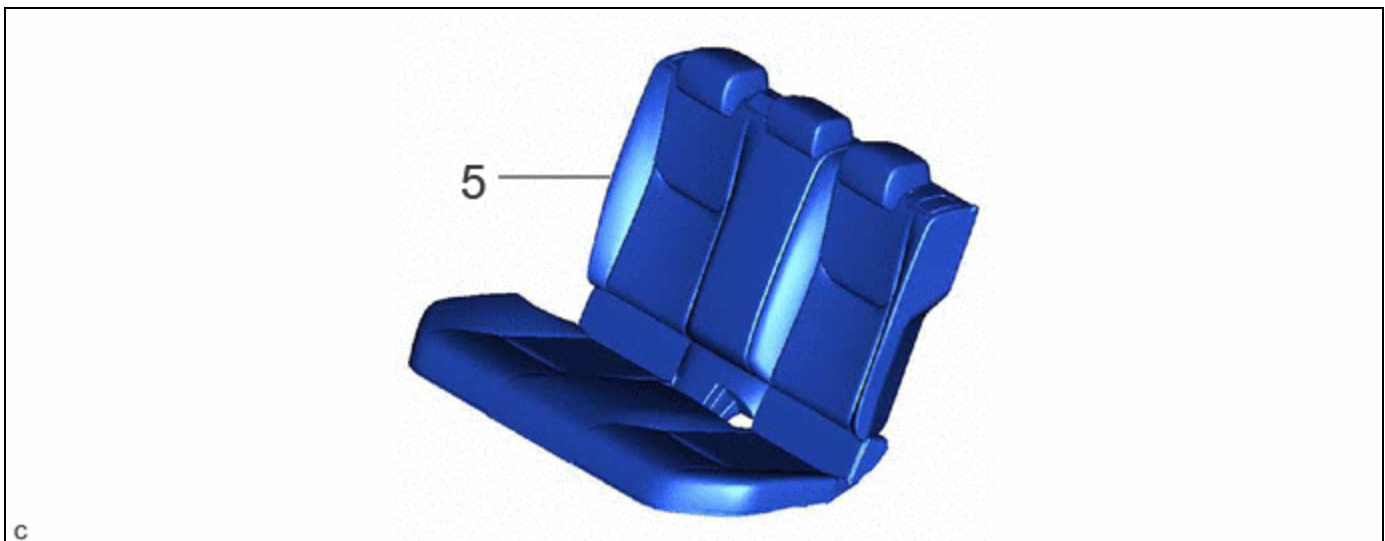
EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	NECESSARY PROCEDURE	LINK
Power Door Lock Control System*1 <ul style="list-style-type: none"> <li>Back door opener</li> </ul>	Perform door unlock operation with door control switch or electrical key transmitter sub-assembly switch.	<a href="#">INFO</a>
Power Back Door System*2	Reset back door close position	<a href="#">INFO</a>
Air Conditioning System	After the ignition switch is turned to ON, the servo motor standard position is recognized.	-
*1: w/o Power Back Door System		
*2: w/ Power Back Door System		




**CAUTION / NOTICE / HINT**

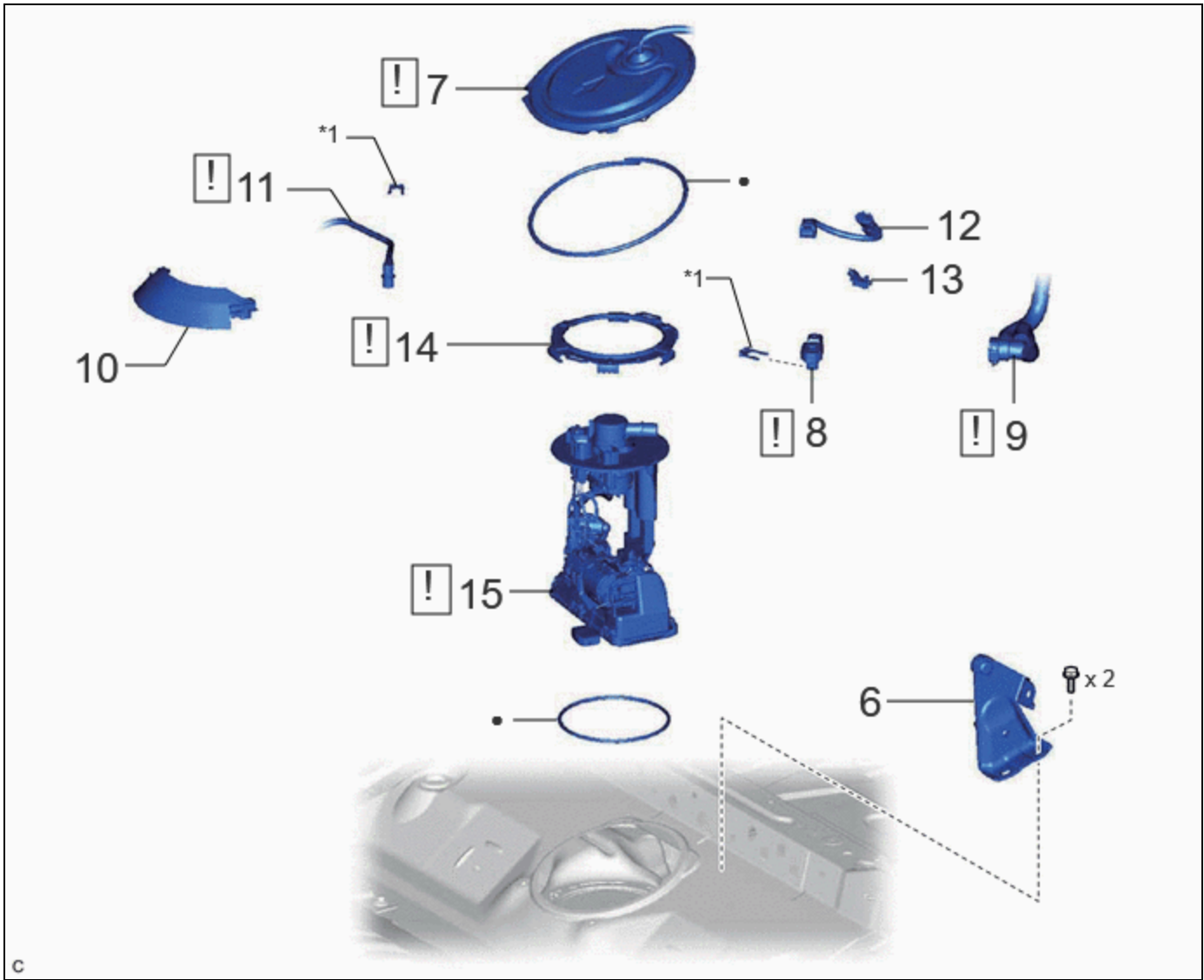
**COMPONENTS (REMOVAL)**









PROCEDURE		PART NAME CODE			
1	PRECAUTION	-	<a href="#">INFO</a>	-	-
2	DISCHARGE FUEL SYSTEM PRESSURE	-	<a href="#">INFO</a>	-	-
3	BATTERY SERVICE HOLE COVER ASSEMBLY	58440	<a href="#">INFO</a>	-	-
4	DISCONNECT CABLE FROM NEGATIVE AUXILIARY BATTERY TERMINAL	-	-	-	-



	PROCEDURE	PART NAME CODE			
5	REAR SEAT ASSEMBLY	-	-	-	-




	PROCEDURE	PART NAME CODE			
6	CENTER REAR SEAT BACK HINGE SUB-ASSEMBLY	71305A	-	-	-
7	REAR FLOOR SERVICE HOLE COVER	58325E	-	-	-
8	FUEL TANK PRESSURE SENSOR (VAPOR PRESSURE SENSOR)	89461	<a href="#">INFO</a>	-	-
9	FUEL TANK VENT HOSE SUB-ASSEMBLY	77404	<a href="#">INFO</a>	-	-
10	NO. 1 FUEL TUBE CLAMP	77285F	-	-	-

PROCEDURE		PART NAME CODE			
11	FUEL TANK MAIN TUBE SUB-ASSEMBLY	77209F	<a href="#">INFO</a>	-	-
12	FUEL GAUGE WIRE	82412	-	-	-
13	NO. 1 FUEL TUBE CLAMP	77285M	-	-	-
14	FUEL PUMP GAUGE RETAINER	77144	<a href="#">INFO</a>	-	-
15	FUEL SUCTION TUBE WITH PUMP AND GAUGE ASSEMBLY	77020A	<a href="#">INFO</a>	-	-

*1	TUBE JOINT CLIP	-	-
•	Non-reusable part	-	-

## PROCEDURE

### 1. PRECAUTION

	<p><b>NOTICE:</b></p> <p>After the ignition switch is turned off, there may be a waiting time before disconnecting the negative (-) auxiliary battery terminal.</p> <p>Click here <a href="#">INFO</a></p>
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### 2. DISCHARGE FUEL SYSTEM PRESSURE

Click here [INFO](#)

### 3. REMOVE BATTERY SERVICE HOLE COVER ASSEMBLY

	Click here <a href="#">INFO</a>
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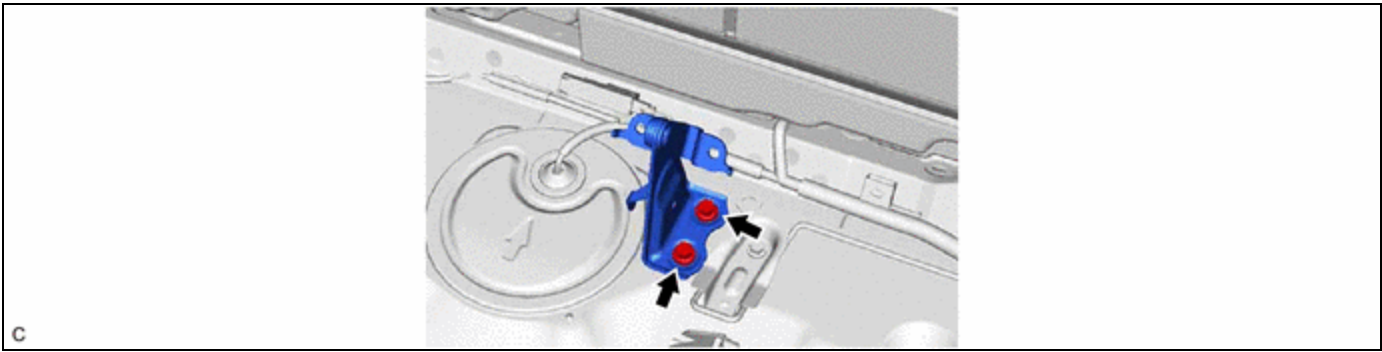
### 4. DISCONNECT CABLE FROM NEGATIVE AUXILIARY BATTERY TERMINAL

Click here [INFO](#)

### 5. REMOVE REAR SEAT ASSEMBLY

Click here [INFO](#)

### 6. REMOVE CENTER REAR SEAT BACK HINGE SUB-ASSEMBLY



**7. REMOVE REAR FLOOR SERVICE HOLE COVER**



- (1) Using a clip remover with its tip wrapped with protective tape, remove the rear floor service hole cover and butyl tape.
- (2) Disconnect the 3 fuel suction tube with pump and gauge assembly connectors.

**8. REMOVE FUEL TANK PRESSURE SENSOR (VAPOR PRESSURE SENSOR)**

	Click here <a href="#" style="background-color: #0070C0; color: white; padding: 2px 5px; text-decoration: none;">INFO</a>
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**9. DISCONNECT FUEL TANK VENT HOSE SUB-ASSEMBLY**



- (1) Disconnect the fuel tank vent hose sub-assembly from the fuel suction tube with pump and gauge assembly.
- Click here [INFO](#)

**10. REMOVE NO. 1 FUEL TUBE CLAMP**



**11. DISCONNECT FUEL TANK MAIN TUBE SUB-ASSEMBLY**



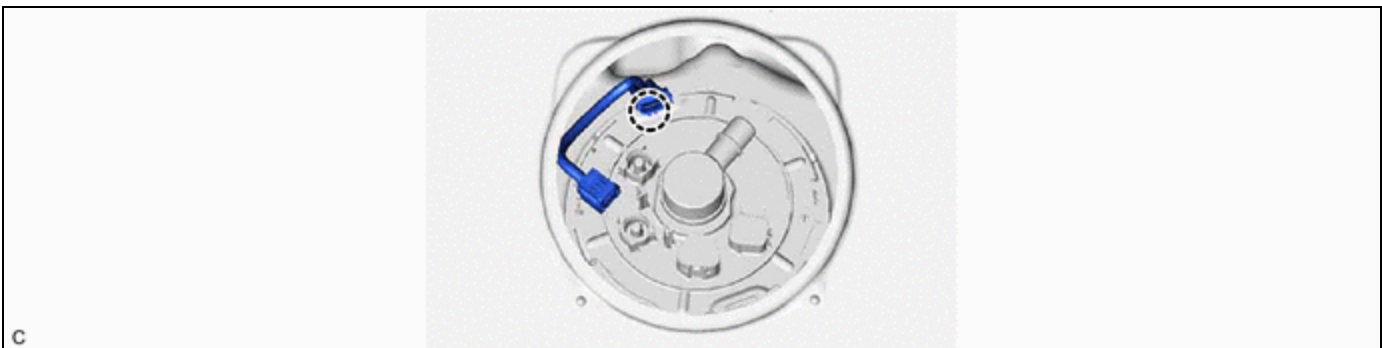
*1	Tube Joint Clip	*2	Fuel Tank Main Tube Sub-assembly
*3	Fuel Suction Plate Sub-assembly	-	-
*a	Nylon Tube	*b	Fuel Tube Joint
*c	O-ring	-	-
	Pull off		Pull off

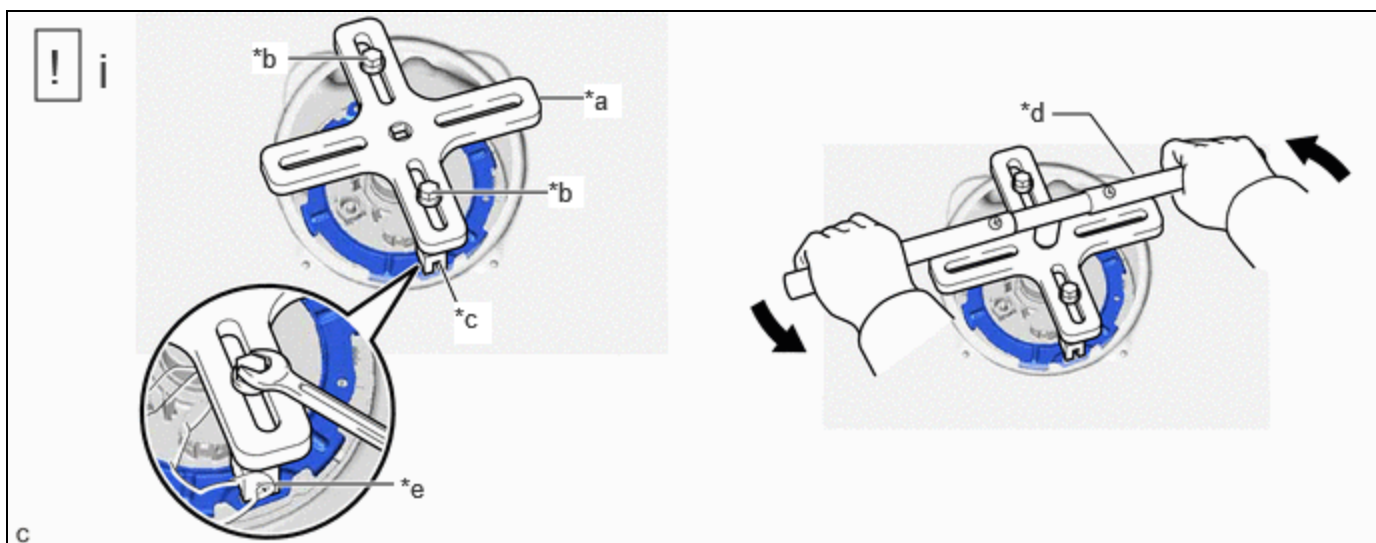
(1) Remove the tube joint clip, and pull off the fuel tube joint of the fuel tank main tube sub-assembly.

**NOTICE:**

- Remove any foreign matter on the fuel tube joint before performing this work.
- Do not scratch or allow any foreign matter to get on the parts when disconnecting them as the fuel tube connector has O-rings that seal the pipe (fuel pipe).
- Be sure to disconnect the fuel tube joint by hand.
- Do not bend, twist, pinch or kink the nylon tube.
- Cover the disconnected fuel tube joint with a plastic bag to prevent damage and contamination.
- If the fuel tube joint and fuel suction plate sub-assembly are stuck, push and pull to release them.

**12. REMOVE FUEL GAUGE WIRE**



**13. REMOVE NO. 1 FUEL TUBE CLAMP****14. REMOVE FUEL PUMP GAUGE RETAINER**

*a	SST (Plate)	*b	SST (Bolt)
*c	SST (Claw)	*d	SST (Handle)
*e	Insertion Point	-	-

(1) Remove the fuel pump gauge retainer.

1. Temporarily install SST (plate) and SST (claw) to the fuel pump gauge retainer.

**SST: 09808-01071**

**SST: 09808-14031**

09808-01030

09808-01090

**HINT:**

Securely insert the ends of SST (claw) into the insertion points in the fuel pump gauge retainer.

2. While firmly pressing SST (claw) into the insertion points in the fuel pump gauge retainer, tighten SST (bolt).
3. Install SST (handle) to SST (plate).

**SST: 09808-14031**

09808-01010

4. Lightly press down on SST to prevent it from separating from the fuel pump gauge retainer. While pressing down on SST, rotate SST (handle) slowly to loosen the fuel pump gauge retainer.

**NOTICE:**



- Do not use any tools other than specified as this may result in damage to the fuel pump gauge retainer or fuel tank sub-assembly.
- Do not press down on SST excessively as this may make the fuel pump gauge retainer hard to rotate, and may damage components.
- Make sure to rotate SST (handle) horizontally. If it is rotated at an angle, SST may come off.
- Do not spin SST too fast or use an impact wrench as this may result in damage to components.
- If SST comes off of the fuel pump gauge retainer, loosen SST (bolt) and reinstall SST.

5. While pressing down on the fuel suction tube with pump and gauge assembly, remove the fuel pump gauge retainer.

## 15. REMOVE FUEL SUCTION TUBE WITH PUMP AND GAUGE ASSEMBLY



(1) Remove the fuel suction tube with pump and gauge assembly from the fuel tank sub-assembly.

### NOTICE:

Be careful not to bend the arm of the fuel sender gauge assembly.

(2) Remove the fuel suction tube set gasket from the fuel tank sub-assembly.

