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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: M20A-FXS (FUEL): FUEL PUMP (for High Pressure): REMOVAL; 2023 - 2024 MY Prius Prius Prime [03/2023 -]		

REMOVAL

CAUTION / NOTICE / HINT

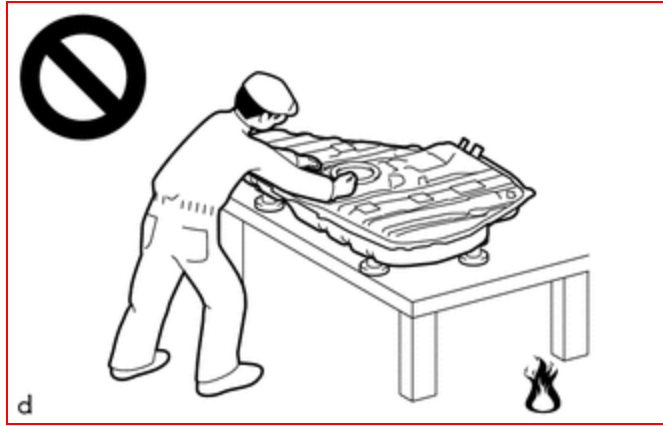
The necessary procedures (adjustment, calibration, initialization or registration) that must be performed after parts are removed and installed, or replaced during fuel (engine room side) pump assembly removal/installation are shown below.

Necessary Procedures After Parts Removed/Installed/Replaced

REPLACED PART OR PERFORMED PROCEDURE	NECESSARY PROCEDURE	EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	LINK
Replacement of inverter with converter assembly	ECU configuration	-	INFO
	Resolver learning	<ul style="list-style-type: none"> DTCs are stored Slight vibration at a vehicle speed of 5 km/h (3 mph) or less Shock or vibration during acceleration 	for M20A-FXS HEV model: INFO for M20A-FXS PHEV model: INFO
Replacement of ECM	Update ECU security key	Vehicle Control History (RoB) are stored	INFO
	ECU configuration	-	INFO
	Perform Vehicle Identification Number (VIN) registration	DTC is output	INFO
<ul style="list-style-type: none"> Replacement of fuel (engine room side) pump assembly Replacement of throttle body with motor assembly Cleaning the deposits from the throttle body with motor assembly Replacement of EGR valve assembly Gas leak from exhaust system is repaired 	Inspection after repair	<ul style="list-style-type: none"> Poor idle, etc. Engine start function, etc. 	INFO

CAUTION:

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

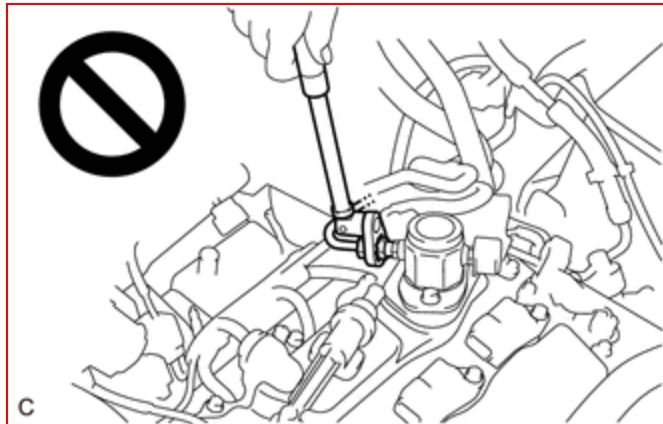


- Vaporized fuel could ignite, resulting in a serious accident.
- Do not perform work on fuel system components without first disconnecting the cable from the negative (-) auxiliary battery terminal.



auxiliary battery terminal.

- Sparks could cause vaporized fuel to ignite, resulting in a serious accident.
- To prevent serious injury due to fuel spray from the high-pressure fuel lines, always discharge fuel system pressure before removing any fuel system components.



NOTICE:

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

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

- This procedure includes the removal of small-head bolts. Refer to Small-Head Bolts of Basic Repair Hint to identify the small-head bolts.

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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

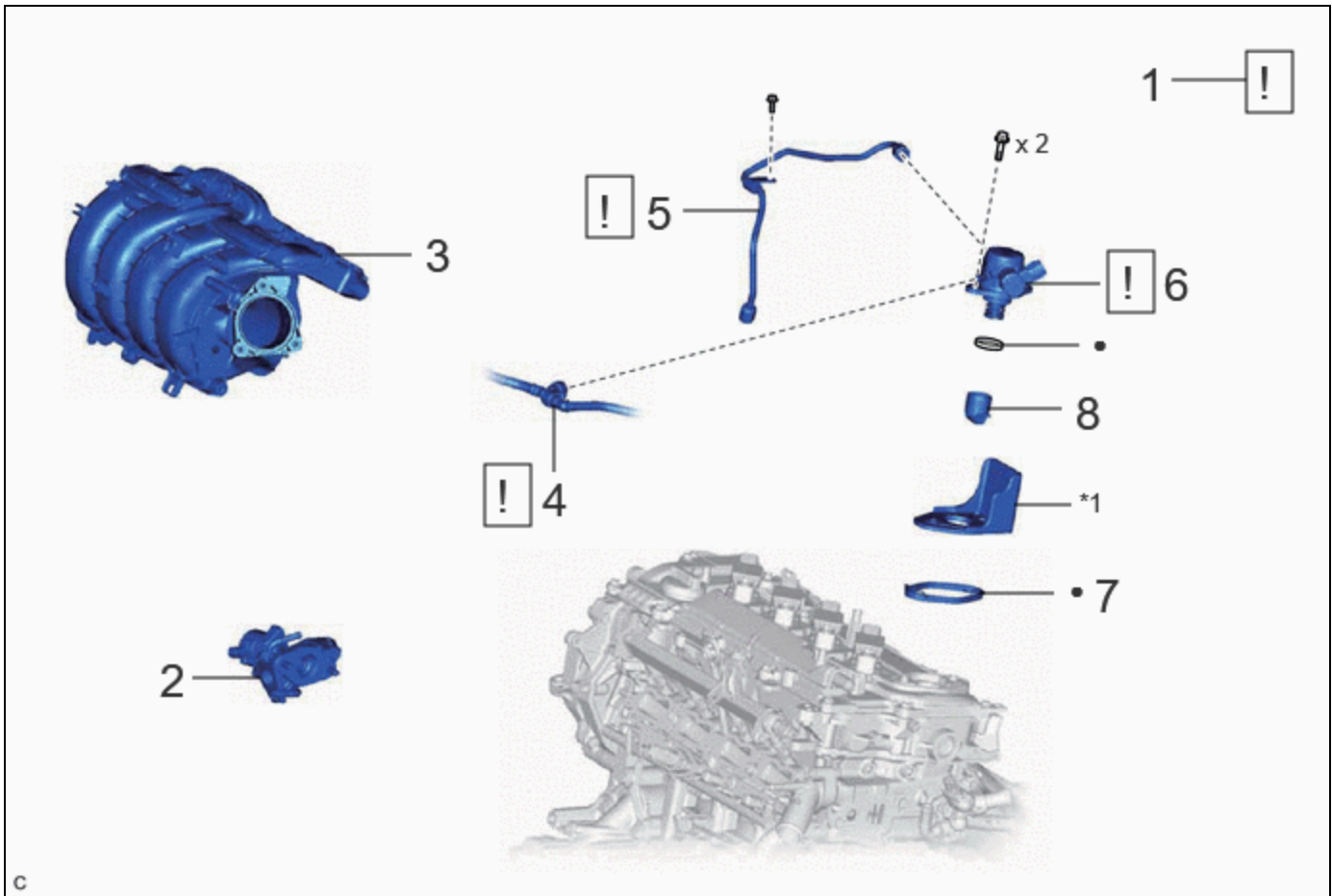
EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	NECESSARY PROCEDURE	LINK
Front Camera System	Drive the vehicle straight ahead at 35 km/h (22 mph) or more for 5 seconds or more.	INFO

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	<p>for HEV Model:</p> <p>After the ignition switch is turned to ON, the servo motor standard position is recognized.</p> <p>for PHEV Model:</p> <p>After the ignition switch is turned to ON, the servo motor and cooler 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 DISCHARGE FUEL SYSTEM PRESSURE	-	INFO	-	-
3 EGR VALVE ASSEMBLY	25620	-	-	-
4 INTAKE MANIFOLD	17111	-	-	-
5 FUEL TUBE SUB-ASSEMBLY	23910A	INFO	-	-
6 NO. 1 FUEL PIPE SUB-ASSEMBLY	23801P	INFO	-	-
7 FUEL (ENGINE ROOM SIDE) PUMP ASSEMBLY	23100X	INFO	-	-
8 FUEL PUMP SPACER GASKET	23224D	-	-	-
9 FUEL PUMP LIFTER ASSEMBLY	23470	-	-	-

*1	FUEL PUMP FLANGE	-	-
•	Non-reusable part	-	-

PROCEDURE

1. DISCHARGE FUEL SYSTEM PRESSURE

Click here [INFO](#)

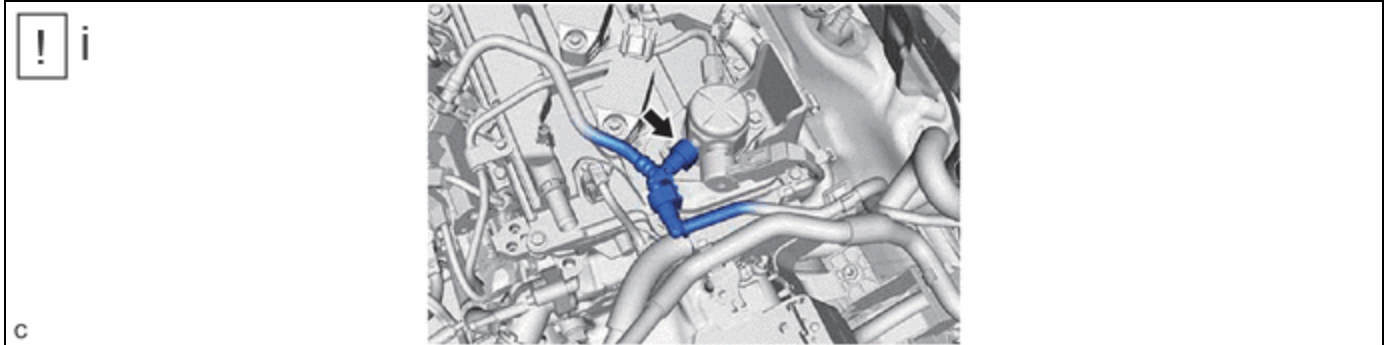
2. REMOVE EGR VALVE ASSEMBLY

Click here [INFO](#)

3. REMOVE INTAKE MANIFOLD

Click here [INFO](#)

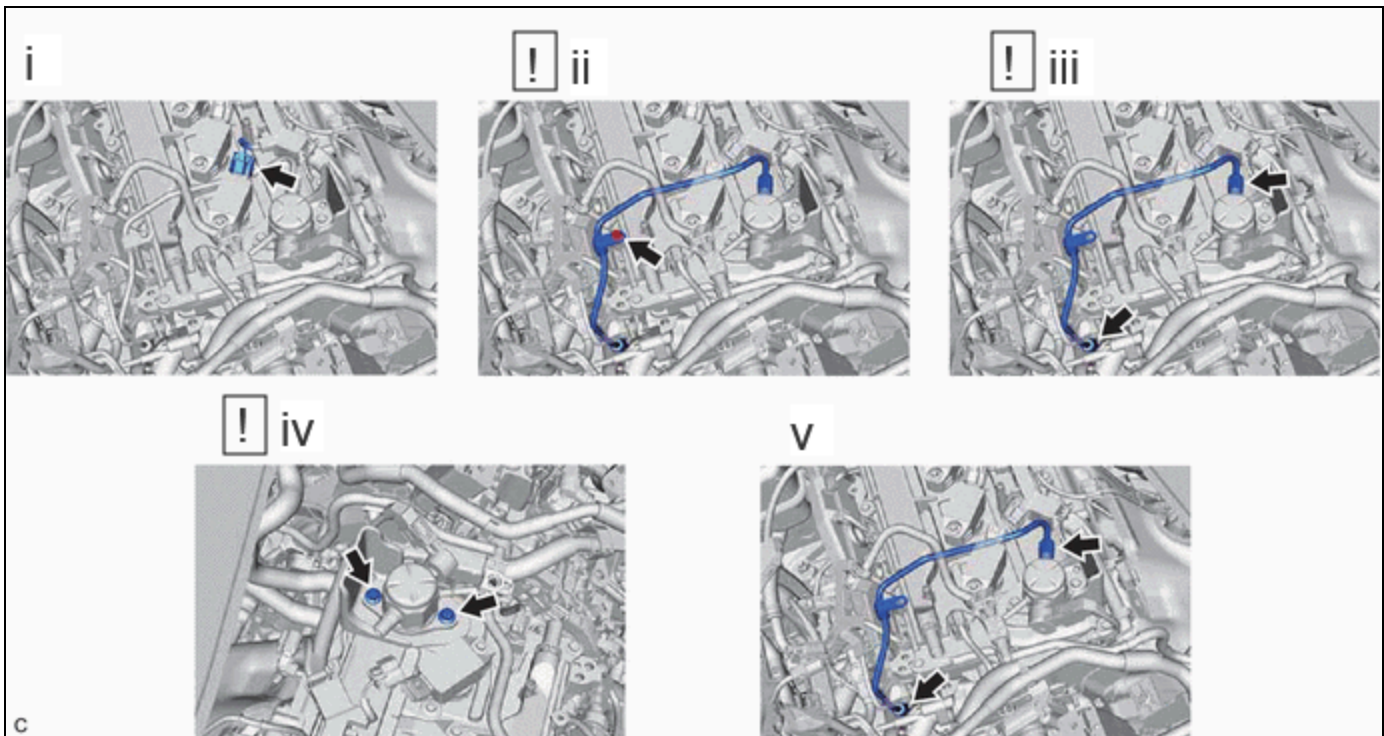
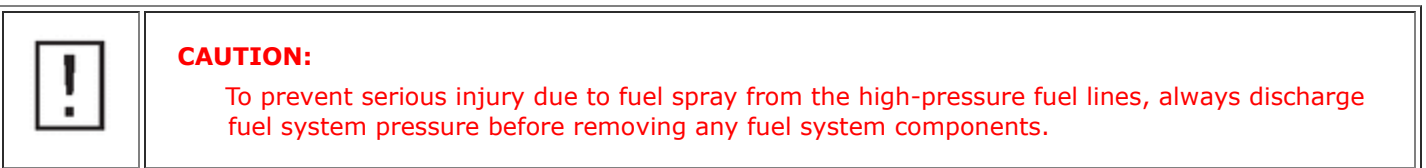
4. DISCONNECT FUEL TUBE SUB-ASSEMBLY



(1) Disconnect the fuel tube sub-assembly from the fuel (engine room side) pump assembly.

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5. REMOVE NO. 1 FUEL PIPE SUB-ASSEMBLY



(1) Disconnect the ignition coil connector.

(2) Using an 8 mm socket wrench, remove the bolt.

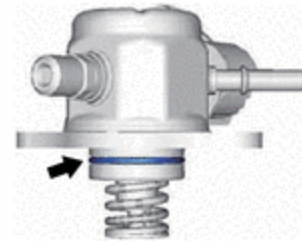
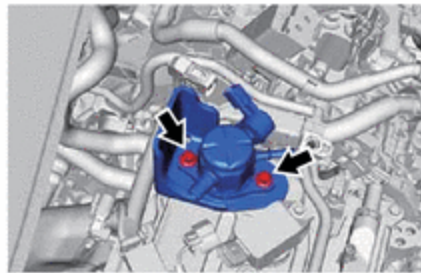
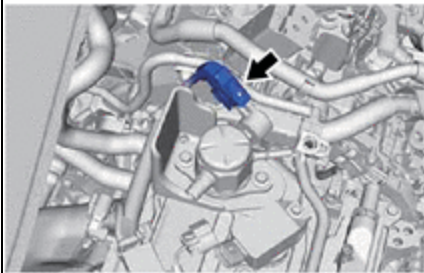
- (3) Using a 17 mm union nut wrench, loosen the 2 union nuts of the No. 1 fuel pipe sub-assembly.
- (4) Loosen the 2 bolts of the fuel (engine room side) pump assembly.
- (5) Remove the No. 1 fuel pipe sub-assembly from the fuel delivery pipe and fuel (engine room side) pump assembly.

6. REMOVE FUEL (ENGINE ROOM SIDE) PUMP ASSEMBLY



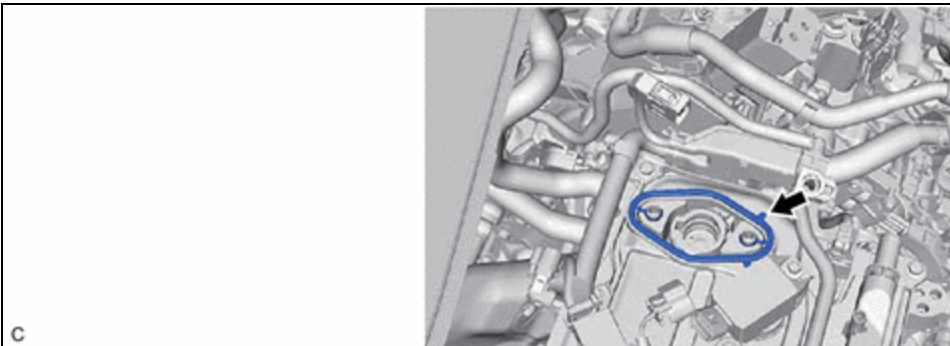
NOTICE:

When replacing the fuel (engine room side) pump assembly, it is necessary to replace the No. 1 fuel pipe sub-assembly with a new one.



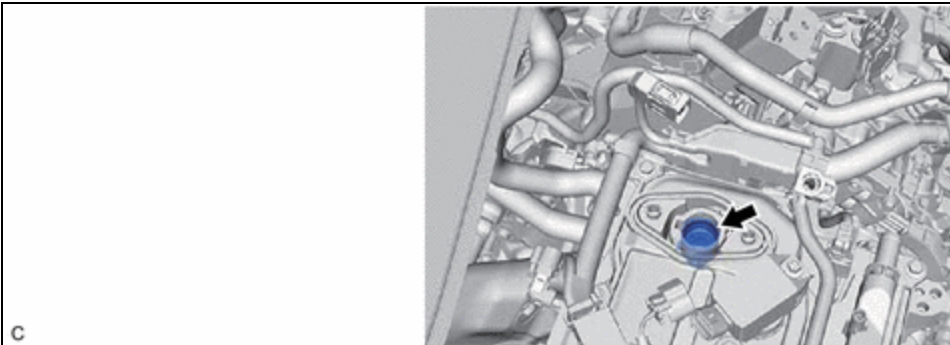
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7. REMOVE FUEL PUMP SPACER GASKET



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8. REMOVE FUEL PUMP LIFTER ASSEMBLY



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