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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [03/2023 - ]
<b>Title:</b> M20A-FXS (ENGINE CONTROL): SFI SYSTEM: PROBLEM SYMPTOMS TABLE; 2023 - 2024 MY Prius Prius Prime [03/2023 - ]		

## PROBLEM SYMPTOMS TABLE

**HINT:**

- Use the table below to help determine the cause of problem symptoms. If multiple suspected areas are listed, the potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.
- Inspect the fuses and relays related to this system before inspecting the suspected areas below.

**SFI System**

SYMPTOM	SUSPECTED AREA	LINK
Engine does not crank (Does not start)	Hybrid control system (for HEV Model)	<a href="#">INFO</a>
	Hybrid control system (for PHEV Model)	<a href="#">INFO</a>
	VC output circuit (ECM 5 V output)	<a href="#">INFO</a>
No initial combustion (Does not start)	ECM power source circuit	<a href="#">INFO</a>
	VC output circuit (ECM 5 V output)	<a href="#">INFO</a>
	Ignition system	<a href="#">INFO</a>
	Fuel pump control circuit	<a href="#">INFO</a>
	Port fuel injector assembly	<a href="#">INFO</a>
	Direct fuel injector assembly	<a href="#">INFO</a>
	Fuel pump (for low pressure side) (for HEV Model)	<a href="#">INFO</a>
	Fuel pump (for low pressure side) (for PHEV Model)	<a href="#">INFO</a>
	Crankshaft position sensor	<a href="#">INFO</a>
	Intake system	<a href="#">INFO</a>

SYMPTOM	SUSPECTED AREA	LINK
	Valve timing	<a href="#">INFO</a>
	EGR valve assembly	<a href="#">INFO</a>
Engine cranks normally but difficult to start	ECM power source circuit	<a href="#">INFO</a>
	Throttle body with motor assembly	<a href="#">INFO</a>
	Fuel (engine room side) pump assembly (for high pressure side)	<a href="#">INFO</a>
	Fuel pump (for low pressure side) (for HEV Model)	<a href="#">INFO</a>
	Fuel pump (for low pressure side) (for PHEV Model)	<a href="#">INFO</a>
	Engine coolant temperature sensor	<a href="#">INFO</a>
	Fuel pump control circuit	<a href="#">INFO</a>
	Ignition system	<a href="#">INFO</a>
	Spark plug	<a href="#">INFO</a>
	Compression	<a href="#">INFO</a>
	Port fuel injector assembly	<a href="#">INFO</a>
	Direct fuel injector assembly	<a href="#">INFO</a>
	Crankshaft position sensor	<a href="#">INFO</a>
	Intake system	<a href="#">INFO</a>
	Valve timing	<a href="#">INFO</a>
EGR valve assembly	<a href="#">INFO</a>	

SYMPTOM	SUSPECTED AREA	LINK
Incomplete intermittent combustion occurs (Does not start)	Fuel pump control circuit	<a href="#">INFO</a>
	Fuel pump (for low pressure side) (for HEV Model)	<a href="#">INFO</a>
	Fuel pump (for low pressure side) (for PHEV Model)	<a href="#">INFO</a>
	Ignition system	<a href="#">INFO</a>
	Port fuel injector assembly	<a href="#">INFO</a>
	Direct fuel injector assembly	<a href="#">INFO</a>
	Crankshaft position sensor	<a href="#">INFO</a>
	Intake system	<a href="#">INFO</a>
High engine speed	Throttle body with motor assembly	<a href="#">INFO</a>
	ECM power source circuit	<a href="#">INFO</a>
	PCV system	<a href="#">INFO</a>
Low engine speed (Poor idle)	Fuel pump control circuit	<a href="#">INFO</a>
	Throttle body with motor assembly	<a href="#">INFO</a>
	Port fuel injector assembly	<a href="#">INFO</a>
	Direct fuel injector assembly	<a href="#">INFO</a>
	Fuel (engine room side) pump assembly (for high pressure side)	<a href="#">INFO</a>
	PCV system	<a href="#">INFO</a>

SYMPTOM	SUSPECTED AREA	LINK
	Intake system	<a href="#">INFO</a>
Rough idle	Rough idling	<a href="#">INFO</a>
	Throttle body with motor assembly	<a href="#">INFO</a>
	Port fuel injector assembly	<a href="#">INFO</a>
	Direct fuel injector assembly	<a href="#">INFO</a>
	Fuel (engine room side) pump assembly (for high pressure side)	<a href="#">INFO</a>
	Ignition system	<a href="#">INFO</a>
	Air fuel ratio sensor (sensor 1)	<a href="#">INFO</a>
	Air fuel ratio sensor (sensor 2)	<a href="#">INFO</a>
	Mass air flow meter sub-assembly	<a href="#">INFO</a>
	Manifold absolute pressure sensor	<a href="#">INFO</a>
	Compression	<a href="#">INFO</a>
	Fuel pump control circuit	<a href="#">INFO</a>
	Spark plug	<a href="#">INFO</a>
	Intake system	<a href="#">INFO</a>
	Valve timing	<a href="#">INFO</a>
EGR valve assembly	<a href="#">INFO</a>	
Hunting (Poor idle)	Throttle body with motor assembly	<a href="#">INFO</a>

SYMPTOM	SUSPECTED AREA	LINK
	ECM power source circuit	<a href="#">INFO</a>
	Fuel pump control circuit	<a href="#">INFO</a>
	Spark plug	<a href="#">INFO</a>
	Intake system	<a href="#">INFO</a>
	Drive start control (for HEV Model)	<a href="#">INFO</a>
	Drive start control (for PHEV Model)	<a href="#">INFO</a>
Hesitation/Poor acceleration (Poor driveability)	Port fuel injector assembly	<a href="#">INFO</a>
	Direct fuel injector assembly	<a href="#">INFO</a>
	Fuel pump control circuit	<a href="#">INFO</a>
	Fuel (engine room side) pump assembly (for high pressure side)	<a href="#">INFO</a>
	Ignition system	<a href="#">INFO</a>
	Spark plug	<a href="#">INFO</a>
	Intake system	<a href="#">INFO</a>
	Valve timing	<a href="#">INFO</a>
	Brake override system (for HEV Model)	<a href="#">INFO</a>
	Brake override system (for PHEV Model)	<a href="#">INFO</a>
Drive start control (for HEV Model)	<a href="#">INFO</a>	
Drive start control (for PHEV Model)	<a href="#">INFO</a>	

SYMPTOM	SUSPECTED AREA	LINK
Surging (Poor driveability)	Fuel pump control circuit	<a href="#">INFO</a>
	Fuel pump (for low pressure side) (for HEV Model)	<a href="#">INFO</a>
	Fuel pump (for low pressure side) (for PHEV Model)	<a href="#">INFO</a>
	Spark plug	<a href="#">INFO</a>
	Port fuel injector assembly	<a href="#">INFO</a>
	Direct fuel injector assembly	<a href="#">INFO</a>
Engine stalls soon after starting	Fuel pump control circuit	<a href="#">INFO</a>
	Throttle body with motor assembly	<a href="#">INFO</a>
	Crankshaft position sensor	<a href="#">INFO</a>
	Ignition system	<a href="#">INFO</a>
	Fuel (engine room side) pump assembly (for high pressure side)	<a href="#">INFO</a>
	Intake system	<a href="#">INFO</a>
	Valve timing	<a href="#">INFO</a>
	EGR valve assembly	<a href="#">INFO</a>
MIL (Malfunction Indicator Lamp) malfunction	MIL Circuit	<a href="#">INFO</a>
	Meter/Gauge system	<a href="#">INFO</a>
Unable/difficult to refuel	Fuel system (canister, refueling valve, roll over valve, fuel tank, etc.)	-

