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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]	
Title: M20A-FXS (ENGINE CONTROL): SFI SYSTEM: HOW TO PROCEED WITH TROUBLESHOOTING; 2023 - 2024			
MY Prius Prius Prime [12/2022 -]			

HOW TO PROCEED WITH TROUBLESHOOTING

CAUTION / NOTICE / HINT

HINT:

*: Use the GTS.

PROCEDURE

1.	VEHICLE BROUGHT TO WORKSHOP	
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NEXT

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2. CUSTOMER PROBLEM ANAL	YSIS
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NEXT

3.	CONNECT GTS TO DLC3*

HINT:

If the display indicates a communication malfunction, inspect the DLC3.

When any CAN communication system DTCs are output, perform troubleshooting for the CAN communication system first.

NEXT

4. CHECK DTC AND FREEZE FRAME DATA*

(a) Check for DTCs.

12/9/24, 8:40 PM

M20A-FXS (ENGINE CONTROL): SFI SYSTEM: HOW TO PROCEED WITH TROUBLESHOOTING; 2023 - 2024 MY Prius Prius P...

Powertrain > Engine > Trouble Codes

(b) Check for Freeze Frame Data.

Click here

HINT:

Record or print DTCs and Freeze Frame Data if necessary.

NEXT

5. CHECK VEHICLE CONTROL HISTORY (RoB) AND VEHICLE CONTROL HISTORY FREEZE FRAME DATA*

(a) Check for Vehicle Control History (RoB) and Vehicle Control History Freeze Frame Data.

Powertrain > Engine > Utility

TESTER DISPLAY

HINT:

Print Vehicle Control History (RoB) and Vehicle Control History Freeze Frame Data if necessary.

NEXT



(a) Clear the DTCs and Freeze Frame Data.

Powertrain > Engine > Clear DTCs





8. SELECT CHECK MODE DIAGNOSIS*

(a) Change the ECM from normal mode to check mode.

Powertrain > Engine > Utility

TESTER DISPLAY	
Check Mode	

NEXT

9.

CONFIRM PROBLEM SYMPTOMS

(a) Confirm the problem symptoms.

HINT:

If the engine does not start, first perform the "Check DTC" procedure and "Conduct Basic Inspection" procedure below.

RESULT	PROCEED TO
Malfunction does not occur	А
Malfunction occurs	В

B GO TO STEP 11



10.	SIMULATE SYMPTOMS

HINT:

Refer to Symptom Simulation.

Click here



11. CI	HECK DTC*
11. CI	HECK DTC*

(a) Check for DTCs.

Powertrain > Engine > Trouble Codes

RESULT	PROCEED TO
DTCs are output	А
DTCs are not output	В



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12.	REFER TO DTC CHART	

HINT:

Refer to Diagnostic Trouble Code Chart.

NEXT

CONDUCT BASIC INSPECTION 13.

(a) Conduct basic inspection.

Click here

RESULT	PROCEED TO
Malfunctioning parts not confirmed	А
Malfunctioning parts confirmed	В



14. REFER TO PROBLEM SYMPTOMS TABLE

HINT:

Refer to Problem Symptoms Table.

Click here

RESULT	PROCEED TO
Malfunctioning circuit confirmed	А
Malfunctioning parts confirmed	В



A ▼



(a) Check the ECM power source circuit.

Click here

NEXT



16. CONDUCT CIRCUIT INSPECTION

RESULT	PROCEED TO
Malfunction not confirmed	А
Malfunction confirmed	В





17. CHECK FOR INTERMITTENT PROBLEMS

(a) Check for intermittent problems.

Click here

NEXT

18. CONDUCT PARTS INSPECTION

19.	IDENTIFY PROBLEM

NEXT



NEXT

