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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: M20A-FXS (ENGINE CONTROL): THROTTLE BODY: ON-VEHICLE INSPECTION; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

ON-VEHICLE INSPECTION

PROCEDURE

1. INSPECT THROTTLE BODY WITH MOTOR ASSEMBLY

- (a) Before cleaning, or after cleaning the throttle body with motor assembly and installing it to the vehicle, turn the ignition switch to ON without operating the accelerator pedal sensor assembly.

NOTICE:

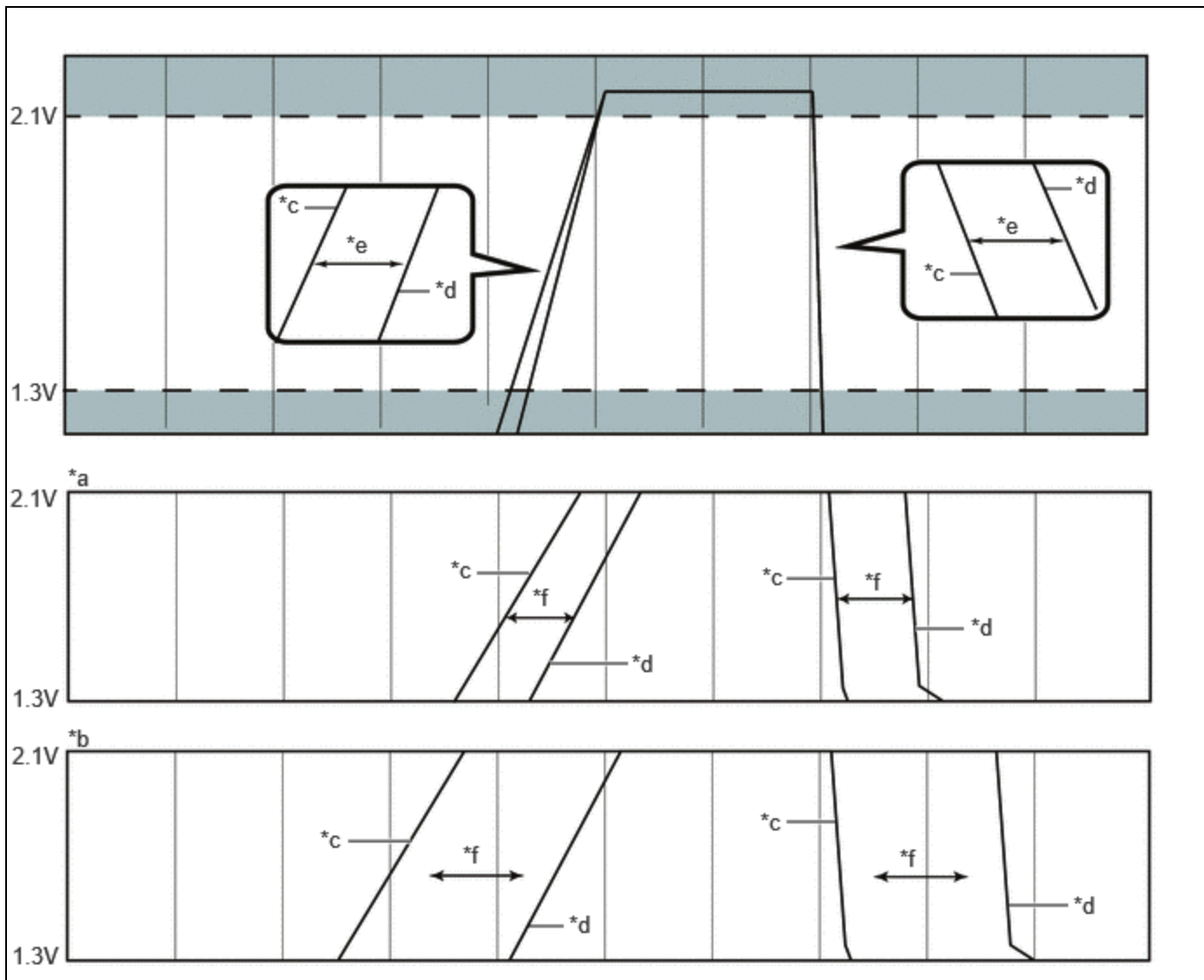
If the accelerator pedal sensor assembly has been operated, restart the procedure from the step above.

- (b) Connect the GTS to the DLC3 and check for DTCs. If DTCs are stored, repair them by following the repair procedure flow. If DTCs are not stored, perform the throttle body operation check.
- (c) Check throttle body operation.
- (1) Enter the following menus:
- Powertrain / Engine / Active Test / Control the ETCS Open/Close Slow Speed
- (2) During Active Test operation, check the Data List items "Throttle Position Command" and "Throttle Position Sensor No. 1 Voltage".

Powertrain > Engine > Active Test

ACTIVE TEST DISPLAY
Control the ETCS Open/Close Slow Speed

DATA LIST DISPLAY
Throttle Position Sensor No.1 Voltage
Throttle Position Command



*a	Correct	*b	Incorrect
*c	Throttle Position Command	*d	Throttle Position Sensor No.1 Voltage
*e	Specified Condition	*f	200 ms

OK:

TESTER DISPLAY	CONDITION	SPECIFIED CONDITION
Throttle Position Command Throttle Position Sensor No.1 Voltage	Checked during Active Test operation at a voltage of 1.3 V to 2.1 V.	Response lag between Throttle Position Command and Throttle Position Sensor No. 1 Voltage is within 200 ms.

(3) Enter the following menus:

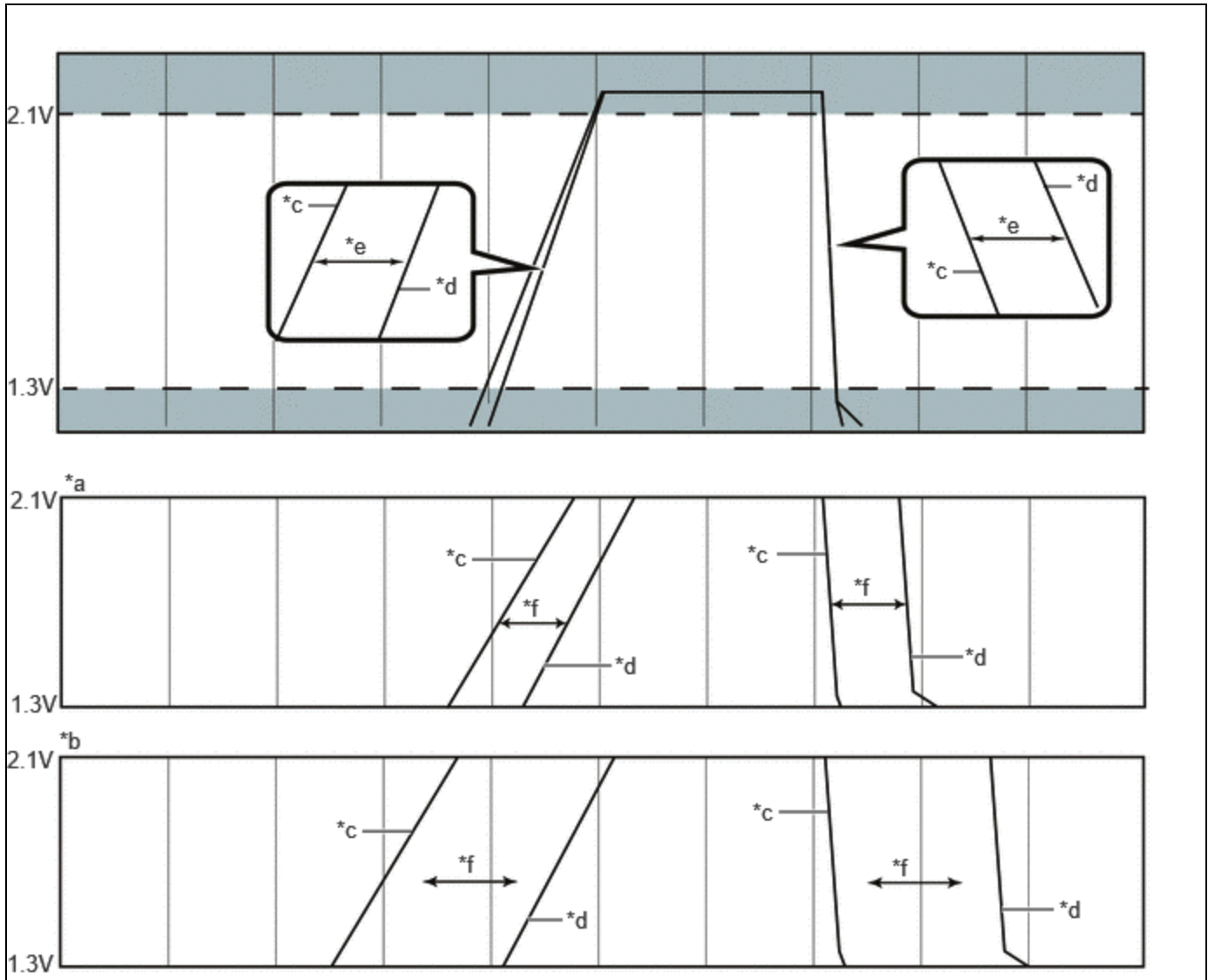
Powertrain / Engine / Active Test / Control the ETCS Open/Close Fast Speed

(4) During Active Test operation, check the Data List items "Throttle Position Command" and "Throttle Position Sensor No. 1 Voltage".

Powertrain > Engine > Active Test

ACTIVE TEST DISPLAY
Control the ETCS Open/Close Fast Speed

DATA LIST DISPLAY
Throttle Position Sensor No.1 Voltage
Throttle Position Command



*a	Correct	*b	Incorrect
*c	Throttle Position Command	*d	Throttle Position Sensor No.1 Voltage
*e	Specified Condition	*f	200 ms

OK:

TESTER DISPLAY	CONDITION	SPECIFIED CONDITION
Throttle Position Command Throttle Position Sensor No.1 Voltage	Checked during Active Test operation at a voltage of 1.3 V to 2.1 V.	Response lag between Throttle Position Command and Throttle Position Sensor No. 1 Voltage is within 200 ms.

(d) If there was any abnormality found during the throttle body operation check, clean the throttle body, then reassemble it and perform the throttle body operation check again. If the operation returns to normal, the procedure is complete. If operation does not return to normal, replace the throttle body with motor assembly.

(e) Perform "Inspection After Repair" after replacing or cleaning the throttle body with motor assembly.

HINT:

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