

DTC	P0A1D/568	HYBRID POWERTRAIN CONTROL MODULE
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DTC	P0A1D/569	HYBRID POWERTRAIN CONTROL MODULE
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CIRCUIT DESCRIPTION

The HV control ECU performs self-checks to detect an internal operating malfunction in the ECU.

DTC No.	INF Code	DTC Detection Condition	Trouble Area
P0A1D	568 569	HV control ECU internal error	•HV control ECU

MONITOR DESCRIPTION

The HV control ECU performs diagnostic monitoring to verify proper operation of internal and external ECU systems. In this diagnostics monitor, the HV control ECU checks the REF signal from the motor main ECU for errors.

If the HV control ECU detects an error in the REF signal, it will conclude that there is a malfunction in the motor main CPU, the REF signal or the HV control ECU. The HV control ECU illuminates the MIL and sets a DTC.

MONITOR STRATEGY

Related DTCs	P0A1D (INF 568/569): Hybrid vehicle control ECU/Motor REF signal malfunction
Required sensor/components	Hybrid vehicle control ECU
Frequency of operation	Continuous
Duration	TOYOTA's intellectual property
MIL operation	Immediately
Sequence of operation	None

TYPICAL ENABLING CONDITIONS

The monitor will run whenever the following DTCs are not present	TOYOTA's intellectual property
Other conditions belong to TOYOTA's intellectual property	–

TYPICAL MALFUNCTION THRESHOLDS

REF signal	Abnormal
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COMPONENT OPERATING RANGE

Hybrid vehicle control ECU	DTC P0A1D (INF 568/569) is not detected
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INSPECTION PROCEDURE**1 READ OUTPUT DTC(HV ECU)**

- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the power switch ON (IG).
- (c) Turn the hand-held tester ON.
- (d) On the hand-held tester, enter the following menus: DIAGNOSIS / ENHANCED OBD II / HV ECU / DTC INFO / TROUBLE CODES.
- (e) Read DTCs.

Result: DTC P0A0F (INF 243), P0A40 (INF 500) or P0A41 (INF 245) for the motor resolver is output

YES**GO TO RELEVANT DTC CHART
(See page [05-440](#))****NO****REPLACE HYBRID VEHICLE CONTROL ECU (See page [21-124](#))**