

DTC	P0A1D/140	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	140	HV control ECU internal error	• HV control ECU

MONITOR DESCRIPTION

The HV control ECU performs many diagnostic tests to verify proper operation of internal ECU systems. One of these tests checks for errors after a memory read/write diagnostic test.

If the HV control ECU detects this malfunction inside of the ECU, it will illuminate the MIL and set a DTC.

MONITOR STRATEGY

Related DTCs	P0A1D (INF 140): Hybrid vehicle control ECU/RAM destruction
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

All RAM area	Read/write check error
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COMPONENT OPERATING RANGE

Hybrid vehicle control ECU	DTC P0A1D (INF 140) is not detected
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INSPECTION PROCEDURE

If the above information (INF) code is present, replace the HV control ECU.

REPLACE HYBRID VEHICLE CONTROL ECU (See page 21-124)
