

<b>DTC</b>	<b>P0A1D/143</b>	<b>HYBRID POWERTRAIN CONTROL MODULE</b>
------------	------------------	---

## 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	143	HV control ECU internal error	• HV control ECU

## MONITOR DESCRIPTION

The HV control ECU performs diagnostic monitoring to verify proper operation of internal ECU systems. One of these monitors compares read and write values at the inside of the HV control ECU memory, which have been indicated by the transponder key or the electronic key.

If those two values are inconsistent with each other, the HV control ECU interprets this as an ECU memory failure of the HV control ECU. The HV control ECU illuminates the MIL and sets a DTC.

## MONITOR STRATEGY

Related DTCs	P0A1D (INF 143): Hybrid vehicle control ECU/EEPROM 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

Immobilizer and electronic key area on the EEPROM	Read/write check error
---	------------------------

## COMPONENT OPERATING RANGE

Hybrid vehicle control ECU	DTC P0A1D (INF 143) is not detected
----------------------------	-------------------------------------

## INSPECTION PROCEDURE

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

<b>REPLACE HYBRID VEHICLE CONTROL ECU (See page 21-124)</b>
---