DTC	P0A1D/166	HYBRID POWERTRAIN CONTROL MODULE
DTC	P0A1D/167	HYBRID POWERTRAIN CONTROL MODULE
DTC	P0A1D/197	HYBRID POWERTRAIN CONTROL MODULE
DTC	P0A1D/200	HYBRID POWERTRAIN CONTROL MODULE

#### 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	166 167 197 200	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 diagnostic monitor, the HV control ECU checks for an R/D (Resolver/Digital Converter) malfunction involving the generator resolver.

If the HV control ECU detects an R/D error, it will conclude that there is an internal malfunction involving the generator resolver. The HV control ECU will illuminate the MIL and set a DTC.

## **MONITOR STRATEGY**

Related DTCs	P0A1D (INF 166/167/197/200): Hybrid vehicle control ECU/Generator R/D 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

Hybrid vehicle control ECU		Internal error
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# **COMPONENT OPERATING RANGE**

	DTO DOMAD (INIT 400/407/407/000):
	DTC P0A1D (INF 166/167/197/200) is not detected
I Hybrid vehicle control ECU	

#### INSPECTION PROCEDURE

If any of the above information (INF) codes is present, replace the HV control ECU.

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

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