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|------------|------------------|---|
| DTC | P0A1D/188 | HYBRID POWERTRAIN CONTROL MODULE |
| DTC | P0A1D/189 | HYBRID POWERTRAIN CONTROL MODULE |
| DTC | P0A1D/192 | HYBRID POWERTRAIN CONTROL MODULE |
| DTC | P0A1D/193 | HYBRID POWERTRAIN CONTROL MODULE |
| DTC | P0A1D/195 | HYBRID POWERTRAIN CONTROL MODULE |
| DTC | P0A1D/196 | HYBRID POWERTRAIN CONTROL MODULE |
| DTC | P0A1D/565 | 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 | 188 | HV control ECU internal error | • HV control ECU |
| | 189 | | |
| | 192 | | |
| | 193 | | |
| | 195 | | |
| | 196 | | |
| | 565 | | |

MONITOR DESCRIPTION

The HV control ECU performs many diagnostic tests to verify proper operation of internal and external ECU systems. In one of these diagnostics, the HV control ECU checks the result of the motor CPU self-test. If the HV control ECU detects a "Fail" from the motor CPU self-test, it will conclude that there is an internal malfunction in the motor CPU. The HV control ECU will illuminate the MIL and set a DTC.

MONITOR STRATEGY

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| Related DTCs | P0A1D (INF 188/189/192/193/195/196/565): Hybrid vehicle control ECU/Motor CPU 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

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|--|--------------------------------|
| 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

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|----------------------------|----------------|
| Hybrid vehicle control ECU | Internal error |
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2004 Prius – Preliminary Release (RM1075U)

COMPONENT OPERATING RANGE

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|----------------------------|---|
| Hybrid vehicle control ECU | DTC P0A1D (INF 188/189/192/193/195/196/565) is not detected |
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INSPECTION PROCEDURE

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

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