DTC P0A1D/139 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 | 139 | HV control ECU internal error | HV control ECU |

MONITOR DESCRIPTION

The HV control ECU performs diagnostic monitoring to verify proper operation of vehicle systems. One of these monitors checks the inside of the HV control ECU for a bad integrated circuit which actuates a relay. If the HV control ECU detects malfunction, it will illuminate the MIL and set a DTC.

MONITOR STRATEGY

| Related DTCs | P0A1D (INF 139): Hybrid vehicle control ECU/IG 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

| I habitat cabiala assurad FOII | |
|--------------------------------|------------------|
| I Hybrid vehicle control ECU | I Internal error |

COMPONENT OPERATING RANGE

| Hybrid vehicle control ECU | DTC P0A1D (INF 139) is not detected |
|----------------------------|-------------------------------------|
|----------------------------|-------------------------------------|

INSPECTION PROCEDURE

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

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

2004 Prius - Preliminary Release (RM1075U)

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