CIRCUIT DESCRIPTION
The HV control ECU performs self–checks to detect an internal operating malfunction in the ECU.

<table>
<thead>
<tr>
<th>DTC No.</th>
<th>INF Code</th>
<th>DTC Detection Condition</th>
<th>Trouble Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>P0A1D</td>
<td>148</td>
<td>HV control ECU internal error</td>
<td>HV control ECU</td>
</tr>
<tr>
<td></td>
<td>149</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MONITOR DESCRIPTION
The HV control ECU performs many diagnostic tests to verify proper operation of internal ECU systems. In one of these diagnostics, the HV control ECU performs a self–test.
If the HV control ECU detects an internal problem during this self–test, it will conclude that there is an internal malfunction. The HV control ECU will illuminate the MIL and set a DTC.

MONITOR STRATEGY

- Related DTCs: P0A1D (INF 148/149): Hybrid vehicle control ECU/HV 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
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

COMPONENT OPERATING RANGE

- Hybrid vehicle control ECU: DTC P0A1D (INF 148/149) is not detected

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)