

<b>DTC</b>	<b>P3011</b>	<b>BATTERY BLOCK 1 BECOMES WEAK</b>
<b>DTC</b>	<b>P3012</b>	<b>BATTERY BLOCK 2 BECOMES WEAK</b>
<b>DTC</b>	<b>P3013</b>	<b>BATTERY BLOCK 3 BECOMES WEAK</b>
<b>DTC</b>	<b>P3014</b>	<b>BATTERY BLOCK 4 BECOMES WEAK</b>
<b>DTC</b>	<b>P3015</b>	<b>BATTERY BLOCK 5 BECOMES WEAK</b>
<b>DTC</b>	<b>P3016</b>	<b>BATTERY BLOCK 6 BECOMES WEAK</b>
<b>DTC</b>	<b>P3017</b>	<b>BATTERY BLOCK 7 BECOMES WEAK</b>
<b>DTC</b>	<b>P3018</b>	<b>BATTERY BLOCK 8 BECOMES WEAK</b>
<b>DTC</b>	<b>P3019</b>	<b>BATTERY BLOCK 9 BECOMES WEAK</b>
<b>DTC</b>	<b>P3020</b>	<b>BATTERY BLOCK 10 BECOMES WEAK</b>
<b>DTC</b>	<b>P3021</b>	<b>BATTERY BLOCK 11 BECOMES WEAK</b>
<b>DTC</b>	<b>P3022</b>	<b>BATTERY BLOCK 12 BECOMES WEAK</b>
<b>DTC</b>	<b>P3023</b>	<b>BATTERY BLOCK 13 BECOMES WEAK</b>
<b>DTC</b>	<b>P3024</b>	<b>BATTERY BLOCK 14 BECOMES WEAK</b>

## CIRCUIT DESCRIPTION

Refer to DTC P0A80 on page [05-908](#) .

DTC No.	DTC Detection Condition	Trouble Area
P3011 P3012 P3013 P3014 P3015 P3016 P3017 P3018 P3019 P3020 P3021 P3022 P3023 P3024	Presence of a malfunctioning block is determined based on the voltages from the battery blocks (1 trip detection logic)	<ul style="list-style-type: none"> <li>• HV battery assembly</li> <li>• Battery ECU</li> </ul>

## MONITOR DESCRIPTION

If there is an abnormal internal resistance or electromotive voltage in the battery blocks, the battery ECU determines that a malfunction has occurred. When the malfunction detection condition is satisfied, the battery ECU illuminates the MIL and sets a DTC.

## MONITOR STRATEGY

Related DTCs	P3011 to P3024: HV battery/Rationality
Required sensor/components	HV battery
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

HV battery	Abnormal
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## COMPONENT OPERATING RANGE

HV battery	DTCs P3011 to P3024 are not detected
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## WIRING DIAGRAM

Refer to DTC P0A80 on page [05-908](#) .

## INSPECTION PROCEDURE

### 1 READ OUTPUT DTC(DTC P0A1F IS OUTPUT)

- (a) Connect the hand-held tester or the OBD II scan tool to the DLC3.
- (b) Turn the power switch ON (IG).
- (c) Turn the hand-held tester or the OBD II scan tool ON.
- (d) On the hand-held tester, enter the following menus: DIAGNOSIS / OBD/MOBD / HV BATTERY / DTC INFO / TROUBLE CODES.

For the OBD II scan tool, see its instruction manual.

- (e) Read DTCs.

**Result: DTC P0A1F is output**

YES

**REPLACE BATTERY ECU ASSY**  
(See page 21-98 )

NO

### 2 CHECK BATTERY BLOCK VOLTAGE

- (a) Depress the brake pedal and turn the POWER switch ON.
- (b) Depress the brake pedal and accelerator pedal to charge with the HV battery.
- (c) Read the battery block voltage by DATA LIST. Select from the hand-held tester's menus: DIAGNOSTICS, OBD/MOBD, HV BATTERY and DATA LIST. Read the values of "V1 BATT BLOCK" to "V14" BATT BLOCK".
- (d) Compare the voltage as listed below:
  - V1 BATT BLOCK and V2 BATT BLOCK
  - V3 BATT BLOCK and V4 BATT BLOCK
  - V5 BATT BLOCK and V6 BATT BLOCK
  - V7 BATT BLOCK and V8 BATT BLOCK
  - V9 BATT BLOCK and V10 BATT BLOCK
  - V11 BATT BLOCK and V12 BATT BLOCK
  - V13 BATT BLOCK and V14 BATT BLOCK

**Result: All of the battery voltage differences are 0.3 V or more.**

YES

**REPLACE BATTERY ECU ASSY**  
(See page 21-98 )

NO

**REPLACE HV SUPPLY BATTERY ASSY (See page 21-54 )**