

**DTC P3140: INTERLOCK MALFUNCTION** **Circuit Description - DTC P3140 - Information Code 350** **NOTE:**

- When using an OBD II scan tool other than TOYOTA hand-held tester, check all the steps.
- When using TOYOTA hand-held tester, confirm the information code and check it.

If the HV ECU detects the operation of the safety devices (removal of the service plug, inverter terminal cover and sensor cover) while the vehicle is not running (with the vehicle is stopped), it will shut down the system main relay. If the safety devices are correctly installed, it will resume the normal operation after the power source is supplied again. If it does not, there is a possibility of an open circuit, so perform the same Inspection as the information code 351.

**DTC P3140 - Information Code 350** 

INF. code.	Detecting Condition	Trouble Area
350	Safety devices operating with vehicle is stopped (ILK signal ON)	--

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**Fig. 168: Identifying DTC P3140 Trouble Areas (Information Code 350)**

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

**Circuit Description - DTC P3140 - Information Code 351** 

The HV ECU records the information code 351 and gives warning to the driver when it detects an open circuit in the interlock signal circuit while the vehicle is running. In this case, it does not shut down the high voltage system.

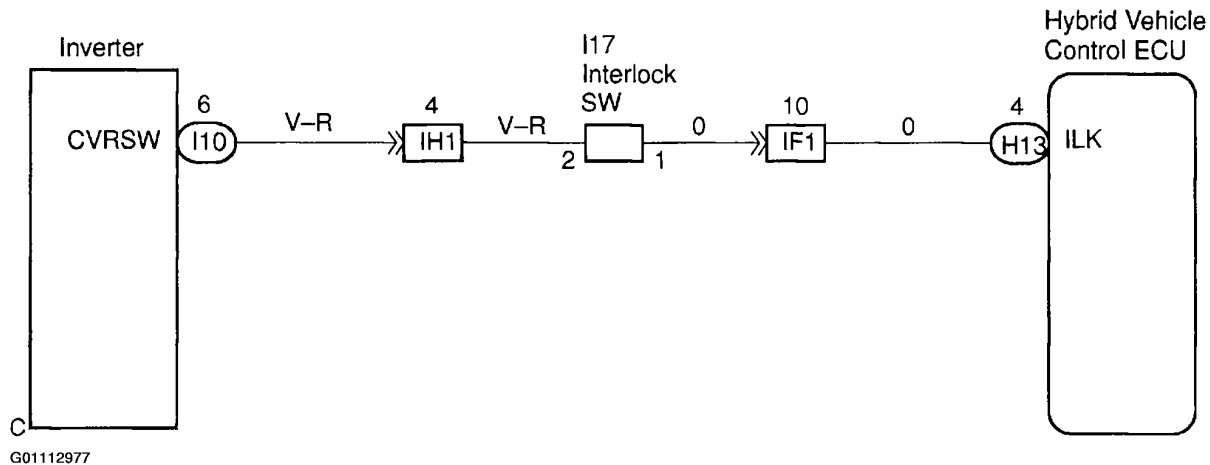
**DTC P3140 - Information Code 351** 

INF. code.	Detecting Condition	Trouble Area
351	Open circuit in interlock signal circuit while vehicle is running	<ul style="list-style-type: none"> <li>• Interlock switch</li> <li>• Inverter terminal cover</li> <li>• Converter &amp; inverter assembly</li> <li>• Wire harness</li> </ul>

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**Fig. 169: Identifying DTC P3140 Trouble Areas (Information Code 351)**

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

**Wiring Diagram** **Fig. 170: Identifying Interlock Malfunction Circuit**

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

**Inspection Procedure** 

1. Check installation condition of inverter terminal cover and sensor cover.  
**NG:** Install them correctly.  
**OK:** Go to step 2 .
2. Check continuity of wire harness between interlock switch No. 1 terminal and HV ECU ILK terminal and interlock switch No. 2 terminal and inverter CVRSW terminal . See **HOW TO USE THE DIAGNOSTIC CHART AND INSPECTION** .  
**OK: Continuity: Less than 1 ohm**  
**NG:** Repair or replace wire harness.  
**OK:** Go to step 3 .
3. Check continuity between inverter CVRSW terminal and body ground . See **HOW TO USE THE DIAGNOSTIC CHART AND INSPECTION** .  
**OK: Continuity: Less than 1 ohm**  
**NG:** Replace converter & inverter assembly.  
**OK:** Confirm that interlock switch is defective and replace it. Check interlock switch. See **SERVICE PLUG** .