

# C1141 / C1142 / C1143 / C1145:

## Motor Circuit Failure

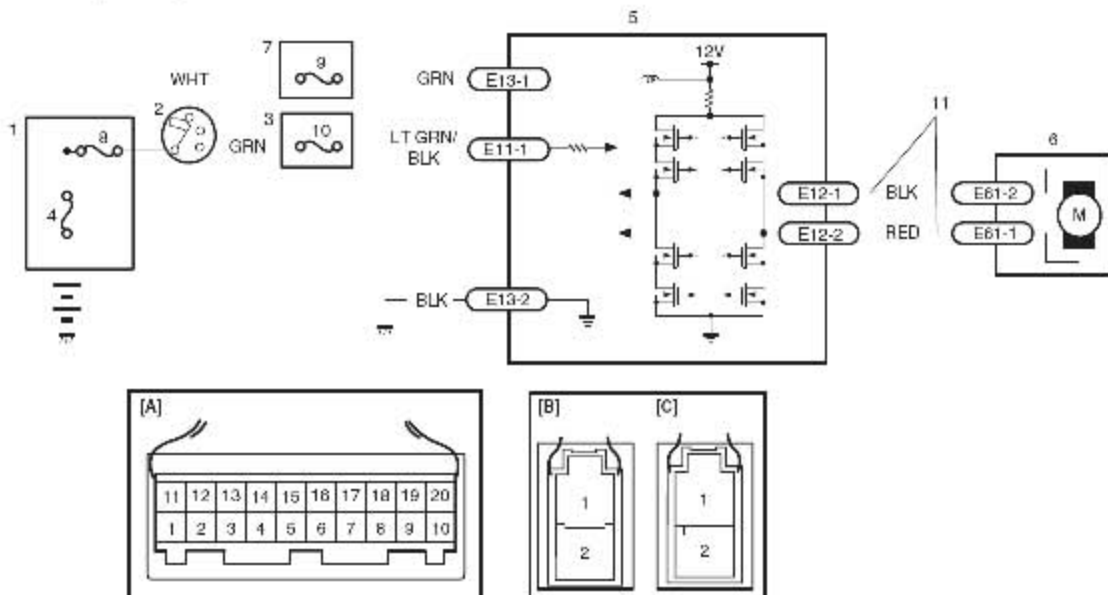
DTC C1141: P/S Motor Circuit Voltage

DTC C1142: P/S Motor Circuit Range/Performance

DTC C1143: P/S Motor Circuit Current Too High

DTC C1145: P/S Motor Circuit Current Too Low

### Wiring Diagram



[A]: P/S control module connector No.1 "E11" (viewed from harness side)	2. Ignition switch	7. Individual circuit fuse box No.1
[B]: P/S control module connector No.2 "E13" (viewed from harness side)	3. Junction block assembly	8. "IGN" fuse
[C]: P/S control module connector No.3 "E12" (viewed from harness side)	4. Main fuse	9. "P/S" fuse
[D]: Motor connector "E61" (viewed from harness side)	5. P/S control module	10. "IG1 SIG" fuse
1. Main fuse box	6. P/S motor	11. Motor circuit

**DTC Detecting Condition and Trouble Area**

<b>DTC detecting condition</b>	<b>Trouble area</b>
<p><b>DTC C1141:</b> Voltage between both motor drive circuit is more than 8.5 V or less than 0.2 V for 0.5 second continuously while motor is not driven. (1 driving cycle detection logic)</p> <p><b>DTC C1142:</b> Measured motor drive current is more than 10 A as compared with target motor drive current. (1 driving cycle detection logic)</p> <p><b>DTC C1143:</b> Measured motor drive current is more than 65 A. (1 driving cycle detection logic)</p> <p><b>DTC C1145:</b> Measured motor drive current is less than 2 A continuously for more than 3 seconds even though target motor drive current is more than 4 A.</p> <p><b>Or</b> Measured motor drive current is less than 0.8 A for total 1 second even though motor control duty is more than 90% when target motor drive current is less than 8 A. (1 driving cycle detection logic)</p>	<ul style="list-style-type: none"> <li>• P/S motor circuit</li> <li>• P/S motor Torque sensor</li> <li>• P/S control module</li> </ul>

**DTC Troubleshooting**

<b>Step</b>	<b>Action</b>	<b>Yes</b>	<b>No</b>
1	Was "EPS System Check" performed?	Go to Step 2.	Go to "EPS System Check".
2	<p><b>DTC check</b></p> <p>Is DTC C1153 and/or C1155 indicated, together?</p>	Go to applicable DTC diag. flow.	Go to Step 3.
3	<p><b>Power supply and ground circuit check</b></p> <p>1) Check P/S control module power supply and ground circuit referring to "P/S Control Module Power Supply and Ground Circuit Check".</p> <p>Is it in good condition?</p>	Go to Step 4.	Repair or replace defective circuit.

Step	Action	Yes	No
4	<p><b>Motor circuit check</b></p> <p>1) With ignition switch turned OFF, disconnect P/S control module connector No.3 and P/S motor connector.</p> <p>2) Check P/S control module connector and P/S motor connector for proper connection.</p> <p>3) If OK, check for open, short and/or high resistance in motor circuit between P/S control module and P/S motor. Refer to "Electrical Circuit Inspection Procedure in Section 00". Are they in good condition?</p>	Go to Step 5.	Repair motor circuit.
5	<p><b>P/S motor check 1) Check P/S motor referring to "P/S Motor and Its Circuit Inspection". Is P/S motor in good condition?</b></p>	Substitute a known-good P/S control module and recheck.	Replace the steering gear case assembly and recheck.