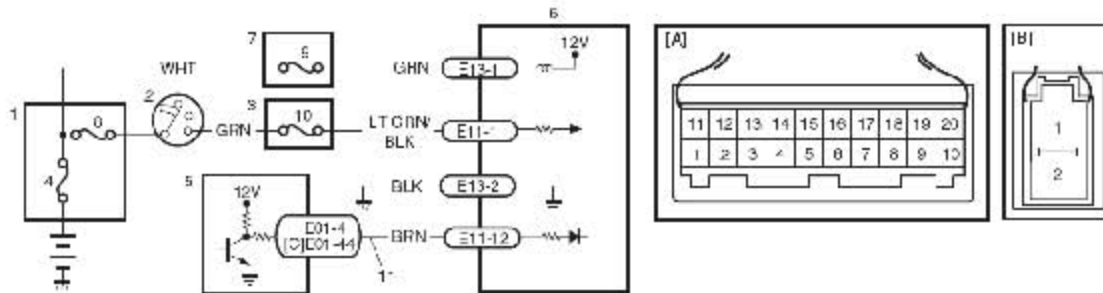


## C1122: Engine Speed Signal

### Wiring Diagram



[A]: P/S control module connector No.1 "E11" (viewed from harness side)	3. Junction block assembly	8. "IGN" fuse
[B]: P/S control module connector No.2 "E13" (viewed from harness side)	4. Main fuse	9. "P/S" fuse
[C]: M15A engine with 4A/T equipped with slip control model (Hong Kong model)	5. ECM	10. "IG1 SIG" fuse
1. Main fuse box	6. P/S control module	11. Engine speed signal circuit
2. Ignition switch	7. Individual circuit fuse box No.1	

### DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
Engine speed signal is less than 220 rpm for more than 0.8 seconds. or Engine speed signal is less than 220 rpm for more than 20 seconds continuously even though vehicle speed signal is more than 50 km/h. (1 driving cycle detection logic)	<ul style="list-style-type: none"> <li>• Engine speed signal circuit</li> <li>• ECM</li> <li>• P/S control module</li> </ul>

## DTC Troubleshooting

Step	Action	Yes	No
1	Was "EPS System Check" performed?	Go to Step 2.	Go to "EPS System Check".
2	<p><b>DTC check</b></p> <p>1) Check ECM for DTC referring to "DTC Check in Section 1A". Is there any DTC(s) detected?</p>	Go to applicable DTC diag. flow.	Go to Step 3.
3	<p><b>Engine speed signal circuit check</b></p> <p>1) With ignition switch turned OFF, disconnect P/S control module connector. 2) Check P/S control module connector for proper connection. 3) If OK, turn ON ignition switch, measure voltage between "E11-12" wire terminal of P/S control module connector and vehicle body ground. Is voltage 10 – 14 V?</p>	Go to Step 4.	Go to Step 5.
4	<p><b>ECM voltage check</b></p> <p>1) With ignition switch turned OFF, connect P/S control module and ECM connectors. 2) Check engine speed signal output referring to "Inspection of ECM and Its Circuits in Section 1A". Is it in good condition?</p>	Substitute a known-good P/S control module and recheck.	Substitute a known good ECM and recheck.

Step	Action	Yes	No
5	<p><b>Engine speed signal circuit check</b></p> <p>1) Disconnect ECM connector.</p> <p>2) Check that engine speed signal circuit is as follows.</p> <ul style="list-style-type: none"> <li>• Insulation resistance of wire harness is infinity between "Engine speed signal circuit" terminal and other terminal at P/S control module connector.</li> <li>• Wiring harness resistance of "Engine speed signal circuit" is less than 1Ω.</li> <li>• Insulation resistance between "Engine speed signal circuit" and vehicle body ground is infinity</li> <li>• Circuit voltage between "Engine speed signal circuit" and ground circuit is 0 – 1 V with ignition switch turned ON.</li> </ul> <p>Is it in good condition?</p>	Substitute a known good ECM and recheck.	Repair or replace defective circuit.