

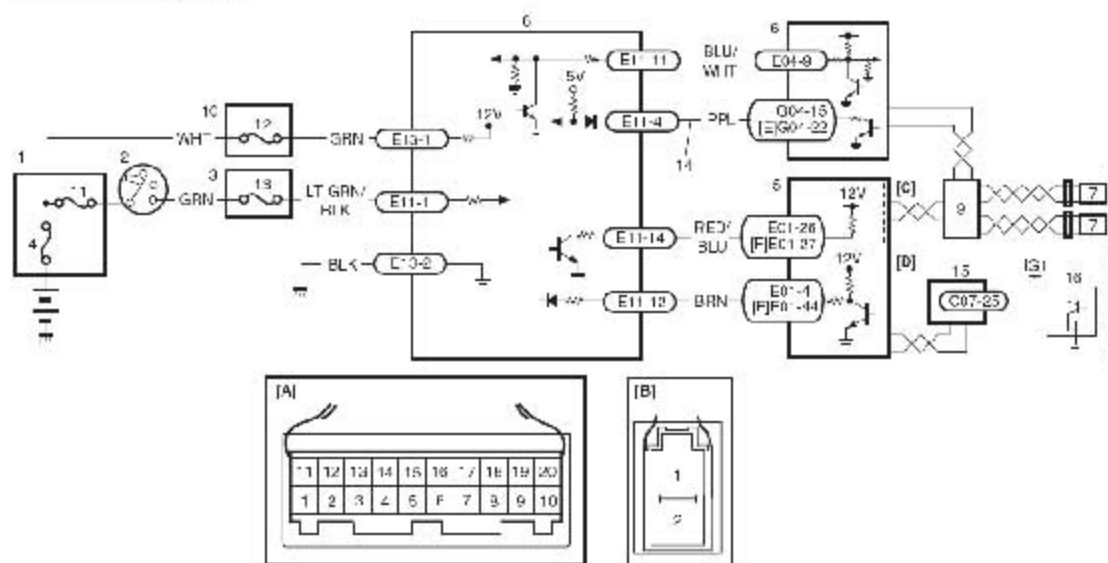
C1121 / C1123 / C1124: Vehicle Speed Signal Circuit Failure

DTC C1121: No Vehicle Speed Signal (60 Seconds or More)

DTC C1123: No Vehicle Speed Signal (30 Seconds or More)

DTC C1124: Vehicle Speed Performance (Impossible Deceleration)

Wiring Diagram



[A]: P/S control module connector No.1 "E11" (viewed from harness side)	3. Junction block assembly	11. "IGN" fuse
[B]: P/S control module connector No.2 "E13" (viewed from harness side)	4. Main fuse	12. "P/S" fuse
[C]: M/T model	5. ECM	13. "IG1 SIG" fuse
[D]: A/T model	6. BCM	Vehicle speed signal
[E]: Junction block without BCM model (Taiwan model)	7. Front left/right wheel speed sensor	15. TCM

M15A engine with 4A/T [F]: equipped with slip control model (Hong Kong model)	8. P/S control module	16. Output shaft speed sensor
1. Main fuse box	9. ABS control module	
2. Ignition switch	10. Individual circuit fuse box No.1	

DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
<p>DTC C1121: Vehicle speed signal is 0 km/h even though engine speed is more than 4000 rpm for more than 60 seconds continuously (before elapse of 5 min from engine start)</p> <p>or</p> <p>Vehicle speed signal is 0 km/h even though engine speed is more than 2500 rpm for more than 60 seconds continuously (after elapse of 5 min for engine start). (1 driving cycle detection logic but "EPS" warning light does not light up)</p>	<ul style="list-style-type: none"> • Vehicle speed signal circuit •BCM •ECM •TCM (A/T model) •ABS control module (M/T model) •P/S control module •CAN communication line circuit
<p>DTC C1123: Vehicle speed signal is 0 km/h with continuously more than 3 driving cycles even though engine speed is more than 4000 rpm for more than 30 seconds continuously (before elapse of 5 min from engine start)</p> <p>or</p> <p>Vehicle speed signal is 0 km/h with continuously more than 3 driving cycles even though engine speed is more than 2500 rpm for more than 30 seconds continuously (after elapse of 5 min for engine start). (3 driving cycle detection logic)</p>	
<p>DTC C1124: Vehicle speed signal is less than 5 km/h for more than 5 seconds continuously with more than specified deceleration speed (-20 m/s²) from over 20 km/h. (1 driving cycle detection logic but "EPS" warning light does not light up)</p>	

DTC Troubleshooting

Step	Action	Yes	No
1	Was "EPS System Check" performed?	Go to Step 2.	Go to "EPS System Check".
2	DTC check 1) DTC check for ECM referring to "DTC Check in Section 1A". Is there any DTC detected?	Go to applicable DTC diag. flow.	Go to Step 3.
3	Vehicle spec check Is vehicle equipped with A/T?	Go to Step 4	Go to Step 5
4	DTC check 1) Check TCM for DTC referring to "DTC Check in Section 5A". Is there any DTC detected?	Go to applicable DTC diag. flow.	Go to Step 6.
5	DTC check 1) Check ABS control module and BCM for DTC referring to "DTC Check in Section 4E" and "DTC Check in Section 10B". Is there any DTC detected?	Go to applicable DTC diag. flow.	Go to Step 6.
6	Vehicle speed signal circuit check Action 1) With ignition switch turned OFF, disconnect connectors from BCM. 2) Check BCM connector for proper connection. 3) If OK, turn ON ignition switch, measure voltage between "G04-15" or "G04-22" wire terminal of BCM connector and body ground. Is voltage 4 – 5 V?	Go to Step 7. Yes	Go to Step 8. No

Step	Action	Yes	No
7	BCM voltage check 1) With ignition switch turned OFF, connect BCM 2) Check BCM for vehicle speed signal output referring to connector. "Inspection of P/S Control Module and Its Circuits". Is it in good condition?	Replace P/S control module.	Replace BCM.
8	Vehicle speed signal circuit check 1) Check that vehicle speed signal circuit is as follows. <ul style="list-style-type: none"> • Insulation resistance of wire harness is infinity between "Vehicle speed signal" terminal and other terminal at P/S control module connector. • Wiring harness resistance of "Vehicle speed signal" circuit is less than 1Ω. • Insulation resistance between "Vehicle speed signal" circuit and vehicle body ground is infinity. • Circuit voltage between "Vehicle speed signal" circuit and ground circuit is 0 – 1 V with ignition switch turned ON. Is it in good condition?	Replace P/S control module.	Repair or replace defective circuit.