



DTC C1642 (42)

Possible Cause

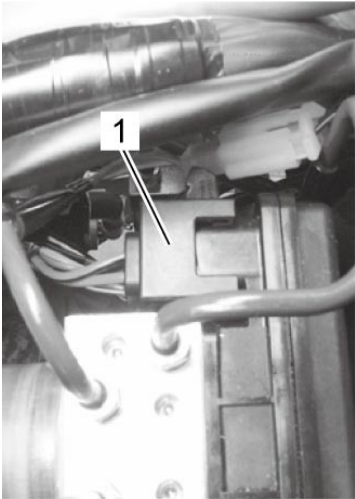
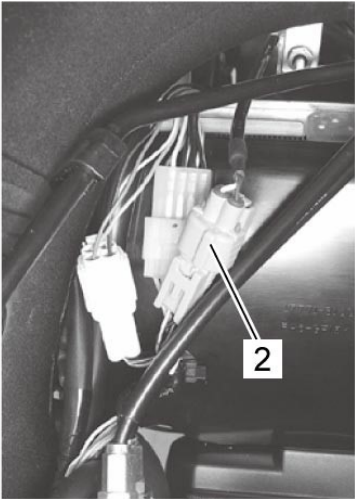

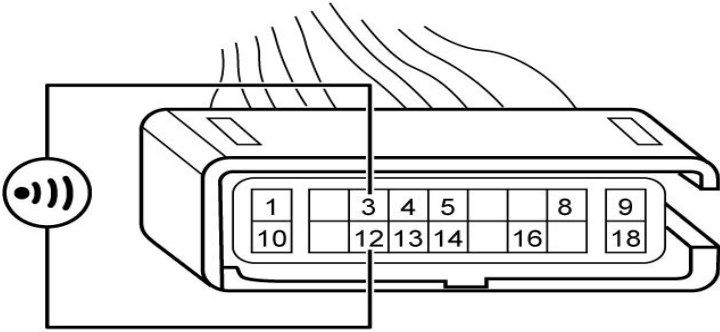

Wheel Speed Sensor Circuit Open (F)

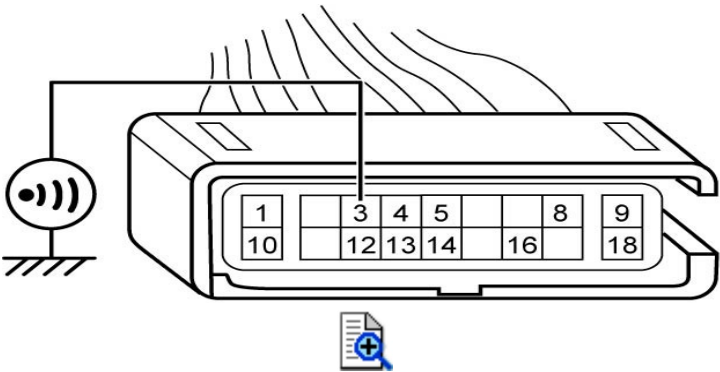
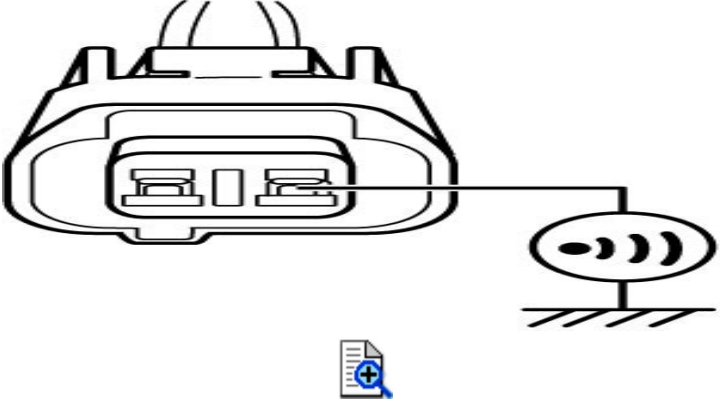

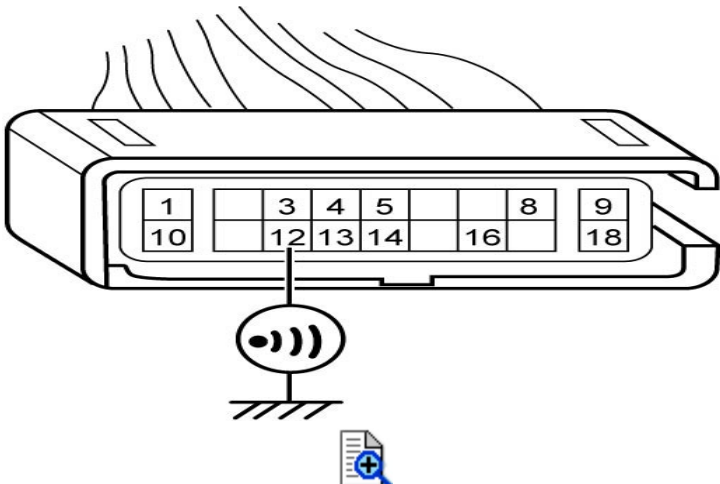
Wheel speed sensor circuit open or short, loosen contact in wheel speed sensor connector, input amplifier in ABS control unit failure, etc.

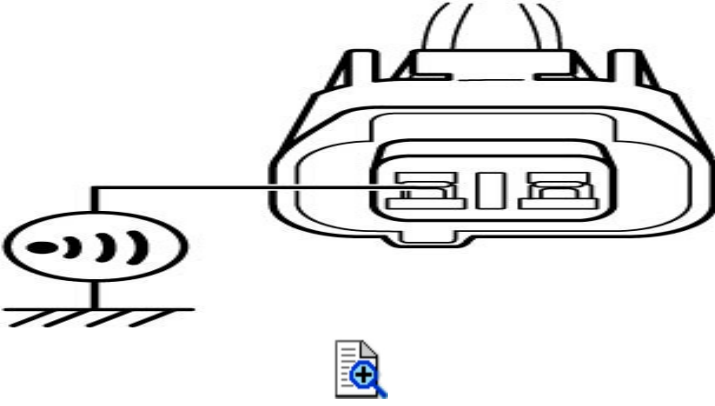

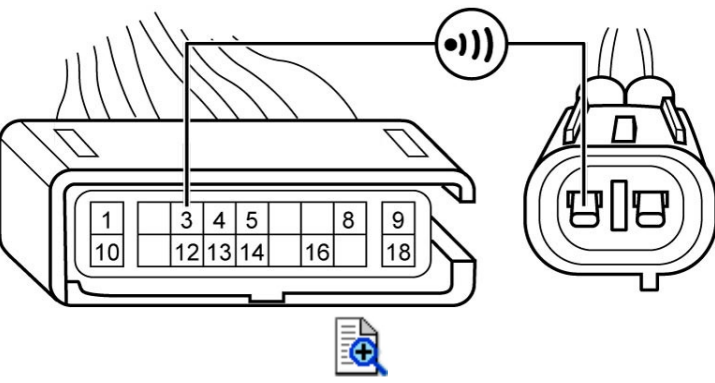
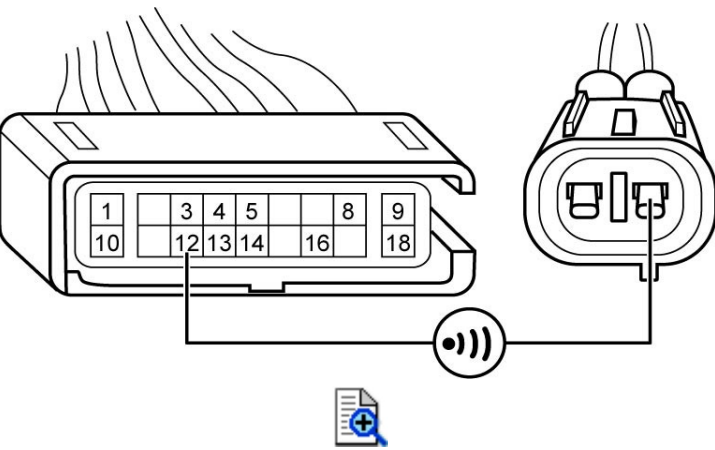
Wiring Diagram

Refer to [ABS Control Unit / HU Diagram](#).

Troubleshooting

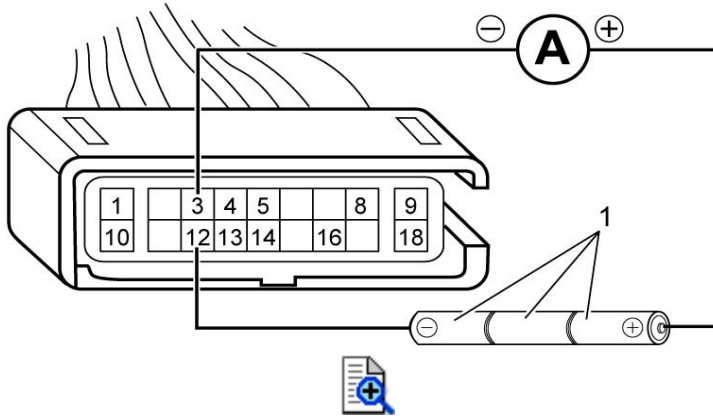
Step	Action	Yes	No
1	<ol style="list-style-type: none"> 1) Turn ignition switch OFF. 2) Remove the air cleaner box. 3) Remove the seat heat shield. Refer to ABS Control Unit Coupler Disconnect and Connect. 4) Check the ABS control unit coupler (1) and front wheel speed sensor coupler (2) for loose or poor contacts. If OK, then disconnect the ABS control unit coupler. <div style="display: flex; justify-content: space-around;">   </div>  <ol style="list-style-type: none"> 5) Check for continuity between "T3" (W/R) and "T12" (B/R) at the ABS control unit coupler.  	Go to Step 2.	<ul style="list-style-type: none"> • Inspect the wire harness. (Faulty sensor wire) • Faulty front wheel speed sensor.

	<i>Is no continuity indicated?</i>		
2	<p>1) Check for continuity between "T3" (W/R) and ground at the ABS control unit coupler.</p>  <p><i>Is no continuity indicated?</i></p>	Go to Step 4.	Go to Step 3.
3	<p>1) Disconnect the front wheel speed sensor coupler. 2) Check for continuity between White wire and ground at the front wheel speed sensor coupler.</p>  <p><i>Is no continuity indicated?</i></p>	Inspect the wire harness. (Faulty W/R wire)	Faulty front wheel speed sensor. 
4	<p>1) Check for continuity between "T12" (B/R) and ground at the ABS control unit coupler.</p>  <p><i>Is no continuity indicated?</i></p>	Go to Step 6.	Go to Step 5.


<p>5</p>	<p>1) Disconnect the front wheel speed sensor coupler. 2) Check for continuity between Black wire and ground at the front wheel speed sensor coupler.</p>  <p><i>Is no continuity indicated?</i></p>	<p>Inspect the wire harness. (Faulty B/R wire)</p>	<p>Faulty front wheel speed sensor. </p>
<p>6</p>	<p>1) Disconnect the front wheel speed sensor coupler. 2) Check for continuity between "T3" (W/R) on the ABS control unit coupler and W/R wire on the front wheel speed sensor coupler.</p>  <p><i>Is continuity indicated?</i></p>	<p>Go to Step 7.</p>	<p>Inspect the wire harness. (Faulty W/R wire)</p>
<p>7</p>	<p>1) Check for continuity between "T12" (B/R) on the ABS control unit coupler and B/R wire on the front wheel speed sensor coupler.</p>  <p><i>Is continuity indicated?</i></p>	<p>Go to Step 8.</p>	<p>Inspect the wire harness. (Faulty B/R wire)</p>

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- 1) Connect the front wheel speed sensor coupler.
- 2) Connect three 1.5 V dry cells (1) in series as shown and make sure that their total voltage is more than 4.5 V.
Measure the current between (+) dry cell terminal and "T3" (W/R) on the ABS control unit coupler.



Is current 5.9 – 16.8 mA?

Replace the
ABS control
unit/HU. 

Faulty front
wheel speed
sensor. 