

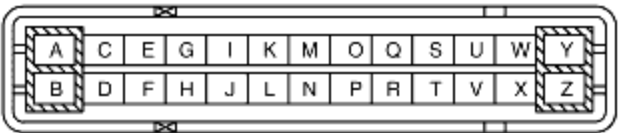



DTC C1145, C1155, C1165, C1175 [ABS]

B3E040243000W07

DTC	C1145, C1155, C1165, C1175	ABS wheel-speed sensor
DETECTION CONDITION	• Open circuit or short to ground has been detected in the ABS wheel-speed sensor wiring harness on any of the four vehicle wheels.	
POSSIBLE CAUSE	<ul style="list-style-type: none">• Open circuit or short to ground in the wiring harness between the following ABS HU/CM terminals and ABS wheel-speed sensor terminals:<ul style="list-style-type: none">- ABS HU/CM terminal Q-RF ABS wheel-speed sensor terminal A- ABS HU/CM terminal O-RF ABS wheel-speed sensor terminal B- ABS HU/CM terminal I-LF ABS wheel-speed sensor terminal A- ABS HU/CM terminal K-LF ABS wheel-speed sensor terminal B- ABS HU/CM terminal E-RR ABS wheel-speed sensor terminal A- ABS HU/CM terminal C-RR ABS wheel-speed sensor terminal B- ABS HU/CM terminal U-LR ABS wheel-speed sensor terminal A- ABS HU/CM terminal W-LR ABS wheel-speed sensor terminal B• ABS wheel-speed sensor malfunction• Poor connection at connectors (female terminal)	
<div><div><div>RF ABS WHEEL-SPEED SENSOR</div><div><div>A</div><div>B</div></div></div><div><div>LF ABS WHEEL-SPEED SENSOR</div><div><div>A</div><div>B</div></div></div><div><div>RR ABS WHEEL-SPEED SENSOR</div><div><div>A</div><div>B</div></div></div><div><div>LR ABS WHEEL-SPEED SENSOR</div><div><div>A</div><div>B</div></div></div><div><div>ABS HU/CM</div><div><div>Q</div><div>O</div><div>I</div><div>K</div><div>E</div><div>C</div><div>U</div><div>W</div></div></div></div> <div><div>ABS WHEEL-SPEED SENSOR WIRING HARNESS-SIDE CONNECTOR</div><div><div>A</div><div>B</div></div></div> <div><div>ABS HU/CM WIRING HARNESS-SIDE CONNECTOR</div><div><div>A</div><div>C</div><div>E</div><div>G</div><div>I</div><div>K</div><div>M</div><div>O</div><div>Q</div><div>S</div><div>U</div><div>W</div><div>Y</div><div>B</div><div>D</div><div>F</div><div>H</div><div>J</div><div>L</div><div>N</div><div>P</div><div>R</div><div>T</div><div>V</div><div>X</div><div>Z</div></div></div> <div><div></div><div></div><div><div></div><div></div></div></div>		

Diagnostic procedure

STEP	INSPECTION	ACTION
	INSPECT ABS WHEEL-SPEED SENSOR FOR SHORT TO GROUND <ul style="list-style-type: none"> Turn the ignition switch off. Disconnect the ABS HU/CM connectors. Inspect for continuity between the following ABS HU/CM connector terminals (vehicle harness-side) and body ground: 	Yes Go to the next step.

1	<ul style="list-style-type: none"> - RF ABS wheel-speed sensor(+): Q - RF ABS wheel-speed sensor(-): O - LF ABS wheel-speed sensor(+): I - LF ABS wheel-speed sensor(-): K - RR ABS wheel-speed sensor(+): E - RR ABS wheel-speed sensor(-): C - LR ABS wheel-speed sensor(+): U - LR ABS wheel-speed sensor(-): W <p>• Is there continuity?</p>	No	Go to Step 3.
2	<p>INSPECT ABS WHEEL-SPEED SENSOR WIRING HARNESS FOR SHORT TO GROUND</p> <ul style="list-style-type: none"> • Disconnect the ABS wheel-speed sensor connectors. • Inspect for continuity between the following ABS HU/CM connector terminals (vehicle harness-side) and body ground: <ul style="list-style-type: none"> - RF ABS wheel-speed sensor(+): Q - RF ABS wheel-speed sensor(-): O - LF ABS wheel-speed sensor(+): I - LF ABS wheel-speed sensor(-): K - RR ABS wheel-speed sensor(+): E - RR ABS wheel-speed sensor(-): C - LR ABS wheel-speed sensor(+): U - LR ABS wheel-speed sensor(-): W <p>• Is there continuity?</p>	Yes	Repair or replace the wiring harness, then go to Step 4.
		No	Replace the ABS wheel-speed sensor, then go to Step 4. (See FRONT ABS WHEEL-SPEED SENSOR REMOVAL/INSTALLATION.) (See REAR ABS WHEEL-SPEED SENSOR REMOVAL/INSTALLATION.)
3	<p>INSPECT FOR OPEN CIRCUIT IN ABS WHEEL-SPEED SENSOR WIRING HARNESS</p> <ul style="list-style-type: none"> • Inspect for continuity between the ABS HU/CM connectors (vehicle harness-side) and the following vehicle harness-side connector terminals of the ABS wheel-speed sensors: <ul style="list-style-type: none"> - RF ABS wheel-speed sensor(+): Q-A - RF ABS wheel-speed sensor(-): O-B - LF ABS wheel-speed sensor(+): I-A - LF ABS wheel-speed sensor(-): K-B - RR ABS wheel-speed sensor(+): E-A - RR ABS wheel-speed sensor(-): C-B - LR ABS wheel-speed sensor(+): U-A - LR ABS wheel-speed sensor(-): W-B <p>• Is there continuity?</p>	Yes	Go to the next step.
		No	Replace the ABS wheel-speed sensor, then go to the next step. (See FRONT ABS WHEEL-SPEED SENSOR REMOVAL/INSTALLATION.) (See REAR ABS WHEEL-SPEED SENSOR REMOVAL/INSTALLATION.)
4	<p>VERIFY THAT THE SAME DTC IS NOT PRESENT</p> <ul style="list-style-type: none"> • Reconnect all disconnected connectors. • Clear the DTCs from the memory. (See Clearing DTCs Procedures.) • Are the same DTCs present? 	Yes	Repeat the inspection from Step 1. If the malfunction recurs, replace the ABS HU/CM, then go to the next step. (See ABS HU/CM REMOVAL/INSTALLATION.)
		No	Go to the next step.
5	<p>VERIFY THAT NO OTHER DTCS ARE PRESENT</p> <ul style="list-style-type: none"> • Are any other DTCs output? 	Yes	Go to the applicable DTC inspection. (See DTC Table.)
		No	DTC troubleshooting completed.