

W222 Bosch 9.0 ABS Module					
DTC	Description	Possible causes	Is the bench test available for this fault?	Is the part repairable?	Repair Type
U0121	Lost Communication with the ABS Module	Check powers, grounds and communication lines to the ABS module. If it checks OK. There is an internal fault in the ABS module.	✓	✓	REPAIR "A" 
U0415	Invalid Data Received from the ABS Module	Check powers, grounds and communication lines to the ABS module. If it checks OK. There is an internal fault in the ABS module.	✓	✓	REPAIR "A" 
C0502	Left Front Wheel Speed Sensor-Circuit Low	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C0503	Left Front Wheel Speed Sensor – Circuit High	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C0504	Left Front Wheel Speed Sensor-Intermittent/Erratic	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C0505	Left Front Wheel Speed Sensor- Correlation	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C0506	Right Front Wheel Speed Sensor – Circuit Open	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C0507	Right Front Wheel Speed Sensor-Range/Performance	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C0508	Right Front Wheel Speed Sensor- Circuit Low	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C0509	Right Front Wheel Speed Sensor – Circuit High	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C050A	Right Front Wheel Speed Sensor- Intermittent/Erratic	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C050B	Right Front Wheel Speed Sensor- Correlation	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C050C	Left Rear Wheel Speed Sensor- Circuit Open	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C050D	Left Rear Wheel Speed Sensor- Range/Performance	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C050E	Left Rear Wheel Speed Sensor – Circuit Low	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C050F	Left Rear Wheel Speed Sensor- Circuit High	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C0510	Left Rear Speed Sensor-Intermittent/ Erratic	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C0511	Left Rear Wheel Speed Sensor- Correlation	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C0512	Right Rear Wheel Speed Sensor-Circuit Open	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C0513	Right Rear Wheel Speed Sensor – Range/Performance	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C0514	Right Rear Wheel Speed Sensor- Circuit Low	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C0515	Right Rear Speed Sensor-Circuit High	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A" 
C0516	Right Rear Speed Sensor-Intermittent/ Erratic	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A"
C0517	Right Rear Speed Sensor-Correlation	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal fault in the ABS module.	✓	✓	REPAIR "A"
C053B	ABS Valves Supply Voltage-Circuit Open	Check powers, grounds and communication lines to the ABS module. If it checks OK. There is an internal fault in the ABS module.	✓	✓	REPAIR "A"
	Electric Parking Brake is stuck, and it won't release one or both rear wheels	Check the rear parking brake motors resistance; expected value is less than 3Ω. Check wiring and connectors. If all tests are good, there is an internal fault in the ABS module.	✓	✓	REPAIR "A"
	Electric Parking Brake won't engage one or both rear wheels	Check the rear parking brake motors resistance; expected value is less than 3Ω. Check wiring and connectors. If all tests are good, there is an internal fault in the ABS module.	✓	✓	REPAIR "A"
	Brake pressure sensor failure codes	Defective brake pressure sensor. The sensor is integral to the HCU hydraulic block. This sensor is not repairable. Please contact us.	✓	✗	Please contact us.
	ABS Pump Motor Control: Circuit Short to Ground	Defective pump motor or internal fault in the ABS module. Send in both the hydraulic block (HCU) and module. NOTE* IN ADDITION TO THE ABS PUMP REPAIR, THE ABS MODULE MUST BE REBUILT AS WELL. THE ABS PUMP IS CONTROLLED DIRECTLY BY THE ABS MODULE AND THE WORN-OUT MOTOR WILL WEAKEN OR SHORT INTERNAL DRIVER CIRCUIT.	✓	✓	REPAIR "B"
	ABS Pump Motor Control: Circuit Short to Battery	Defective pump motor or internal fault in the ABS module. Send in both the hydraulic block (HCU) and module. NOTE* IN ADDITION TO THE ABS PUMP REPAIR, THE ABS MODULE MUST BE REBUILT AS WELL. THE ABS PUMP IS CONTROLLED DIRECTLY BY THE ABS MODULE AND THE WORN-OUT MOTOR WILL WEAKEN OR SHORT INTERNAL DRIVER CIRCUIT.	✓	✓	REPAIR "B"
	ABS Pump Motor Control: Circuit Open	Defective pump motor or internal fault in the ABS module. Send in both the hydraulic block (HCU) and module. NOTE* IN ADDITION TO THE ABS PUMP REPAIR, THE ABS MODULE MUST BE REBUILT AS WELL. THE ABS PUMP IS CONTROLLED DIRECTLY BY THE ABS MODULE AND THE WORN-OUT MOTOR WILL WEAKEN OR SHORT INTERNAL DRIVER CIRCUIT.	✓	✓	REPAIR "B"
	ABS Pump Motor Control: Actuator Stuck	Defective pump motor or internal fault in the ABS module. Send in both the hydraulic block (HCU) and module. NOTE* IN ADDITION TO THE ABS PUMP REPAIR, THE ABS MODULE MUST BE REBUILT AS WELL. THE ABS PUMP IS CONTROLLED DIRECTLY BY THE ABS MODULE AND THE WORN-OUT MOTOR WILL WEAKEN OR SHORT INTERNAL DRIVER CIRCUIT.	✓	✓	REPAIR "B"