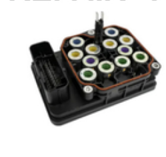
W253 MK100 ABS Module

DTC	Description	Possible causes	Is a bench test available for this failure?	Is the part repairable?	Repair Type
C050211	The left front wheel speed sensor has a short circuit to ground. There is a short circuit to ground.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C050315	The left front wheel speed sensor has a short circuit to positive. There is a short circuit to positive or an open circuit.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C05042F	The left front wheel speed sensor has a sporadic malfunction. There is an erratic signal.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C050439	The left front wheel speed sensor has a sporadic malfunction. The signal has too few pulses.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C05043A	The left front wheel speed sensor has a sporadic malfunction. The signal has too many pulses.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C050495	The left front wheel speed sensor has a sporadic malfunction. The mechanical setup is not OK.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C0504FB	The left front wheel speed sensor has a sporadic malfunction.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C0504FF	The left front wheel speed sensor has a sporadic malfunction.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C050811	The right front wheel speed sensor has a short circuit to ground. There is a short circuit to ground.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C050915	The right front wheel speed sensor has a short circuit to positive. There is a short circuit to positive or an open circuit.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C050A2F	The right front wheel speed sensor has a sporadic malfunction. There is an erratic signal.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C050A39	The right front wheel speed sensor has a sporadic malfunction. The signal has too few pulses.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C050811	The right front wheel speed sensor has a short circuit to ground. There is a short circuit to ground.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C050915	The right front wheel speed sensor has a short circuit to positive. There is a short circuit to positive or an open circuit.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C050A2F	The right front wheel speed sensor has a sporadic malfunction. There is an erratic signal.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C050A39	The right front wheel speed sensor has a sporadic malfunction. The signal has too few pulses.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C050A3A	The right front wheel speed sensor has a sporadic malfunction. The signal has too many pulses.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C050A95	The right front wheel speed sensor has a sporadic malfunction. The mechanical setup is not OK.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C050AFB	The right front wheel speed sensor has a sporadic malfunction.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C050AFF	The right front wheel speed sensor has a sporadic malfunction.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C050F15	The left rear wheel speed sensor has a short circuit to positive. There is a short circuit to positive or an open circuit.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C05102F	The left rear wheel speed sensor has a sporadic malfunction. There is an erratic signal.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C051039	The left rear wheel speed sensor has a sporadic malfunction. The signal has too few pulses.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C05103A	The left rear wheel speed sensor has a sporadic malfunction. The signal has too many pulses.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C051095	The left rear wheel speed sensor has a sporadic malfunction. The mechanical setup is not OK.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C0510FF	The left rear wheel speed sensor has a sporadic malfunction.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C051411	The right rear wheel speed sensor has a short circuit to ground. There is a short circuit to ground.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C051515	The right rear wheel speed sensor has a short circuit to positive. There is a short circuit to positive or an open circuit.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C05162F	The right rear wheel speed sensor has a sporadic malfunction. There is an erratic signal.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C051639	The right rear wheel speed sensor has a sporadic malfunction. The signal has too few pulses.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C05163A	The right rear wheel speed sensor has a sporadic malfunction. The signal has too many pulses.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C051695	The right rear wheel speed sensor has a sporadic malfunction. The mechanical setup is not OK.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C0516FF	The right rear wheel speed sensor has a sporadic malfunction.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
C001001	The left front inlet control valve has a malfunction. There is a general electrical fault.	Internal defect in the ABS module.	✓	✓	REPAIR “A”
C001101	The left front outlet control valve has a malfunction. There is a general electrical fault.	Internal defect in the ABS module.	✓	✓	REPAIR “A”
C001401	The right front inlet control valve has a malfunction. There is a general electrical fault.	Internal defect in the ABS module.	✓	✓	REPAIR “A”
C001501	The right front outlet control valve has a malfunction. There is a general electrical fault.	Internal defect in the ABS module.	✓	✓	REPAIR “A”
C001801	The left rear inlet control valve has a malfunction. There is a general electrical fault.	Internal defect in the ABS module.	✓	✓	REPAIR “A”
C001901	The left rear outlet control valve has a malfunction. There is a general electrical fault.	Internal defect in the ABS module.	✓	✓	REPAIR “A” 
C001C01	The right rear inlet control valve has a malfunction. There is a general electrical fault.	Internal defect in the ABS module.	✓	✓	REPAIR “A”
C001D01	The right rear outlet control valve has a malfunction. There is a general electrical fault.	Internal defect in the ABS module.	✓	✓	REPAIR “A”
B23AA49	The left brake caliper has a malfunction. There is an internal electrical fault.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23AA72	The left brake caliper has a malfunction. The actuator does not close.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23AA73	The left brake caliper has a malfunction. The actuator does not open.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23AA95	The left brake caliper has a malfunction. The mechanical setup is not OK.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23AAFA	The left brake caliper has a malfunction.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23AAFB	The left brake caliper has a malfunction.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23AAFC	The left brake caliper has a malfunction.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23AAFD	The left brake caliper has a malfunction.	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 defect in the ABS module.	✓	✓	REPAIR “A”

W253 MK100 ABS Module

DTC	Description	Possible causes	Is a bench test available for this failure?	Is the part repairable?	Repair Type
B23AAFE	The left brake caliper has a malfunction.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23AAFF	The left brake caliper has a malfunction.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23AB13	The right brake caliper has a malfunction. There is an open circuit.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23AB19	The right brake caliper has a malfunction. The limit value for current has been exceeded.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23AB1D	The right brake caliper has a malfunction. The current value is outside the permissible range.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23AB1E	The right brake caliper has a malfunction. The resistance value is outside the permissible range.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23AB49	The right brake caliper has a malfunction. There is an internal electrical fault.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23AB72	The right brake caliper has a malfunction. The actuator does not close.	Check wheel speed sensor, wiring, tone ring, wheel bearing for damage, wear, excessive air gap and contamination. Verify the correct tire size. Internal defect in the ABS module.	✓	✓	REPAIR “A”
B23AB73	The right brake caliper has a malfunction. The actuator does not open.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23AB95	The right brake caliper has a malfunction. The mechanical setup is not OK.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23ABFA	The right brake caliper has a malfunction.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23ABFB	The right brake caliper has a malfunction.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23ABFC	The right brake caliper has a malfunction.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23ABFD	The right brake caliper has a malfunction.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23ABFE	The right brake caliper has a malfunction.	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 defect in the ABS module.	✓	✓	REPAIR “A”
B23ABFF	The right brake caliper has a malfunction.	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 defect in the ABS module.	✓	✓	REPAIR “B”
C052BFF	The hydraulic pump in the ESP®/ regenerative braking system has a malfunction.	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”
C052CFD	The hydraulic pump in the ESP®/ regenerative braking system has an electrical fault or an open circuit.	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”
C052CFE	The hydraulic pump in the ESP®/ regenerative braking system has an electrical fault or an open circuit.	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”
C052CFF	The hydraulic pump in the ESP®/ regenerative braking system has an electrical fault or an open circuit.	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”
C053DFC	Brake pressure sensor A has a malfunction.	Defective brake pressure sensor. The sensor is integral to the HCU hydraulic block. This sensor is not repairable. Please contact us.	✓	✗	Not repairable. Please contact us.
C053DFD	Brake pressure sensor A has a malfunction.	Defective brake pressure sensor. The sensor is integral to the HCU hydraulic block. This sensor is not repairable. Please contact us.	✓	✗	Not repairable. Please contact us.
C053DFE	Brake pressure sensor A has a malfunction.	Defective brake pressure sensor. The sensor is integral to the HCU hydraulic block. This sensor is not repairable. Please contact us.	✓	✗	Not repairable. Please contact us.
C053DFF	Brake pressure sensor A has a malfunction.	Defective brake pressure sensor. The sensor is integral to the HCU hydraulic block. This sensor is not repairable. Please contact us.	✓	✗	Not repairable. Please contact us.
C0540FE	Brake pressure sensor A has an electrical fault or an open circuit.	Defective brake pressure sensor. The sensor is integral to the HCU hydraulic block. This sensor is not repairable. Please contact us.	✓	✗	Not repairable. Please contact us.
C0540FF	Brake pressure sensor A has an electrical fault or an open circuit.	Defective brake pressure sensor. The sensor is integral to the HCU hydraulic block. This sensor is not repairable. Please contact us.	✓	✗	Not repairable. Please contact us.

Note* To prevent damage during shipping; Always ship the hydraulic block with the ABS module attached.