

Wacker Neuson Error Code List

SPN	SPN Description	FMI	FMI Description
2660	BJM1 - LH Joystick xAxis	14	Plausibility Error
2661	BJM1 - LH Joystick yAxis	14	Plausibility Error
2697	BJM2 - RH Joystick xAxis	14	Plausibility Error
2698	BJM2 - RH Joystick yAxis	14	Plausibility Error
516400	System Power Too Low (< 9VDC) or Too High (>16.5VDC)	2	
516401	5VDC Sensor Supply Too Low or Too High	2	
516402	Abnormal Update Rate	9	CAN 1 Warning
516403	Abnormal Update Rate	9	CAN 0 Warning
516404	LH Joystick (CAN 0)	9	Cyclic Message Timeout
516405	RH Joystick (CAN 0)	9	Cyclic Message Timeout
516406	MCU Status	9	Cyclic Message Timeout
516407	Operator Presence Status	9	Cyclic Message Timeout
516450	Software	13	Out of Calibration
517006	B007 - Hydraulic Oil Temperature Sensor	28	Pin 260 Short to Power or Open Circuit
517006	B007 - Hydraulic Oil Temperature Sensor	4	Short to Ground
517117	B116 - Boom Foot Pedal Primary Signal	3	Short to Power
517117	B116 - Boom Foot Pedal Primary Signal	4	Short to Ground
517117	B116 - Boom Foot Pedal (Primary or Redundant)	26	Signal Out of Range
517118	B117 - Bucket Foot Pedal Primary Signal	3	Pin 112 Short to Power
517118	B117 - Bucket Foot Pedal Primary Signal	4	Pin 112 Short to Ground
517118	B117 - Bucket Foot Pedal (Primary or Redundant)	26	Pin 112_119 Signal Out of Range
517119	B118 - Swash Plate Angle Sensor (L)	2	PIN 201 Data Erratic Intermittent Incorrect
517120	B119 - Swash Plate Angle Sensor (R)	2	PIN 202 Data Erratic Intermittent Incorrect
517123	B116 - Boom Foot Pedal Redundant Signal	3	Pin 120 Short to Power
517123	B116 - Boom Foot Pedal Redundant Signal	4	Pin 120 Short to Ground
517124	B117 - Bucket Foot Pedal Redundant Signal	3	Pin 119 Short to Power
517124	B117 - Bucket Foot Pedal Redundant Signal	4	Pin 119 Short to Ground
517125	B120 - Thumbwheel - Proportional Hydraulics 1 (L/+) Signal	3	Pin 114 Short to Power
517125	B120 - Thumbwheel - Proportional Hydraulics 1 (L/+) Signal	4	Pin 114 Short to Ground
517125	B120 - Thumbwheel - Proportional Hydraulics 1 (L/+) or 2 (R/-)	26	Pin 114 120 Signal Out of Range
517126	B120 - Thumbwheel - Proportional Hydraulics 2 (R/-) Signal	3	Pin 123 Short to Power
517126	B120 - Thumbwheel - Proportional Hydraulics 2 (R/-) Signal	4	Pin 123 Short to Ground
517127	B121 - Charge Oil Pressure Sensor	3	Pin 142 Short to Power
517128	B118 - Left SPAS feedback opposite of commanded direction	2	SW Evaluation Fault
517129	B119 - Right SPAS feedback opposite of commanded direction	2	SW Evaluation Fault
517130	B118 - Left SPAS feedback ≠ 0 with no command to pump valves	2	SW Evaluation Fault
517131	B119 - Right SPAS feedback ≠ 0 with no command to pump valves	2	SW Evaluation Fault
517132	B118 - Left SPAS feedback not tracking commanded current	2	SW Evaluation Fault
517133	B119 - Right SPAS feedback not tracking commanded current	2	SW Evaluation Fault
517551	Flashset Read Error	19	Data Error - Received Data with Active Error State
517900	DM_ECU0/ECU1	30	Internal Error - FMI Extension Needed
517902	HST	30	Send, Receive, Print, Sync, DM1, or Hirschmann Error - FMI Extension Needed
517903	MCU Internal Error	30	Sensor 1, K15, Power Enable, Safety Switces 00 thru 02 - FMI Extension Needed
517904	Task overload	30	Task overload
517905	System (Battery) Voltage	0	Critically High
517905	System (Battery) Voltage	1	Critically Low
517906	5VDC Sensor Supply	0	Voltage Critically High - FMI Extension Needed
517906	5VDC Sensor Supply	1	Voltage Critically Low - FMI Extension Needed
517912	List	30	Load Onset, Load Defect, Store Defect - FMI Extension Needed
517914	MCU Internal Temperature	0	Critically High
517914	MCU Internal Temperature	1	Critically Low
517919	CAN 0 Network	30	Bus Off, Bus Warning, or Buffer Overflow - FMI Extension Needed
517920	CAN 1 Network	30	Bus Off, Bus Warning, or Buffer Overflow - FMI Extension Needed
517921	ET1 (Engine Coolant Temperature)	30	Cyclic Message Timeout
517922	EOI (Engine Operating Mode)	30	Cyclic Message Timeout

517924	EEC1 (Engine actual RPM)	30	Cyclic Message Timeout
517927	CASRS (Idle Delay)	30	Cyclic Message Timeout
517928	BJM2 - RH Joystick	30	Cyclic Message Timeout
517929	BJM1 - LH Joystick	30	Cyclic Message Timeout
517930	Drive Controller Heartbeat	30	Cyclic Message Timeout
518989	S040 - Hydraulic Coupler Switch	24	Pin 108 141 Logic Error
519014	S065 - Park Brake Switch	24	Pin 121 144 Logic Error
519131	S104 - Operator Presence Switch	24	Pin 255 256 Logic Error
519131	S104 - Operator Presence Switch	29	Pin 255 256 Software Evaluation Error
519152	S203 - H ISO Switch	2	PIN 110 111 112 Data Erratic Intermittent Incorrect
519164	S215 - Seat Belt Switch	24	Pin 145 150 Logic Error
519352	Y003 - Two Speed Valve	4	Pin 135 Short to Ground
519352	Y003 - Two Speed Valve	28	Pin 135 Short to Power OR Open Circuit
519369	Y020 - Ride Control Activate Valve	4	Pin 268 Short to Ground
519369	Y020 - Ride Control Activate Valve	28	Pin 268 Short to Power OR Open Circuit
519374	Y025 - Hydraulic Coupler Valve	5	Pin 271 Open Circuit
519374	Y025 - Hydraulic Coupler Valve	6	Pin 271 Short to Power OR Short to Ground
519384	Y035 - Cooling Fan Valve	4	Pin 136 Short to Ground
519384	Y035 - Cooling Fan Valve	28	Pin 136 Short to Power OR Open Circuit
519392	Y043 - Park Brake Valve	4	Pin 139 Short to Ground
519392	Y043 - Park Brake Valve	28	Pin 139 Short to Power OR Open Circuit
519504	Y156 - Pilot Cutoff Valve	4	Pin 275 Short to Ground
519504	Y156 - Pilot Cutoff Valve	28	Pin 275 Short to Power OR Open Circuit
519505	Y157 - Boom Down Valve	4	Pin 269 Short to Ground
519505	Y157 - Boom Down Valve	28	Pin 269 Short to Power OR Open Circuit
519505	Y157 - Boom Down Valve	26	Pin 269 Signal Out of Range
519506	Y158 - Bucket Dump Valve	4	Pin 140 Short to Ground
519506	Y158 - Bucket Dump Valve	28	Pin 140 Short to Power OR Open Circuit
519506	Y158 - Bucket Dump Valve	26	Pin 140 Signal Out of Range
519507	Y159 - Proportional Hydraulics 1 (L/+) Valve	4	Pin 138 Short to Ground
519507	Y159 - Proportional Hydraulics 1 (L/+) Valve	28	Pin 138 Short to Power OR Open Circuit
519507	Y159 - Proportional Hydraulics 1 (L/+) Valve	26	Pin 138 Signal Out of Range
519508	Y160 - Boom Up Valve	4	Pin 276 Short to Ground
519508	Y160 - Boom Up Valve	28	Pin 276 Short to Power OR Open Circuit
519508	Y160 - Boom Up Valve	26	Pin 276 Signal Out of Range
519509	Y161 - Bucket Curl Valve	4	Pin 161 Short to Ground
519509	Y161 - Bucket Curl Valve	28	Pin 161 Short to Power OR Open Circuit
519509	Y161 - Bucket Curl Valve	26	Pin 161 Signal Out of Range
519510	Y162 - Proportional Hydraulics 2 (R/-) Valve	4	Pin 137 Short to Ground
519510	Y162 - Proportional Hydraulics 2 (R/-) Valve	28	Pin 137 Short to Power OR Open Circuit
519510	Y162 - Proportional Hydraulics 2 (R/-) Valve	26	Pin 137 Signal Out of Range
519511	Y163 - Left Forward Pump (LD-C2)	2	PIN 207 Data Erratic Intermittent Incorrect
519511	Y163 - Left Forward Pump (LD-C2)	13	PIN 207 Out of Calibration
519512	Y164 - Left Reverse Pump (LD-C1)	2	PIN 208 Data Erratic Intermittent Incorrect
519512	Y164 - Left Reverse Pump (LD-C1)	13	PIN 208 Out of Calibration
519513	Y165 - Right Forward Pump (RD-C1)	2	PIN 209 Data Erratic Intermittent Incorrect
519513	Y165 - Right Forward Pump (RD-C1)	13	PIN 209 Out of Calibration
519514	Y166 - Right Reverse Pump (RD-C2)	2	PIN 210 Data Erratic Intermittent Incorrect
519514	Y166 - Right Reverse Pump (RD-C2)	13	PIN 210 Out of Calibration
519515	Y167 - High Flow Valve	5	Pin 273 Open Circuit
519515	Y167 - High Flow Valve	6	Pin 273 Short to Power OR Short to Ground
519516	Y168 - Ride Control Balance Valve	4	Pin 129 Short to Ground
519516	Y168 - Ride Control Balance Valve	28	Pin 129 Short to Power OR Open Circuit
519517	Y169 - Self Level Valve	4	Pin 130 Short to Ground
519517	Y169 - Self Level Valve	5	Pin 130 Short to Power OR Open Circuit
519518	Y043 - Park Brake Valve	2	PIN 206 Data Erratic Intermittent Incorrect
519527	K161 - 14-Pin Front Electric "C" Relay Coil	3	Pin 134 Short to Power
519527	K161 - 14-Pin Front Electric "C" Relay Coil	4	Pin 134 Short to Ground

519527	K161 - 14-Pin Front Electric "C" Relay Coil	5	Pin 134 Open Circuit
519528	K162 - 14-Pin Front Electric "D" Relay Coil	3	Pin 133 Short to Power
519528	K162 - 14-Pin Front Electric "D" Relay Coil	4	Pin 133 Short to Ground
519528	K162 - 14-Pin Front Electric "D" Relay Coil	5	Pin 133 Open Circuit
519529	K163 - 14-Pin Front Electric "E" Relay Coil	3	Pin 132 Short to Power
519529	K163 - 14-Pin Front Electric "E" Relay Coil	4	Pin 132 Short to Ground
519529	K163 - 14-Pin Front Electric "E" Relay Coil	5	Pin 132 Open Circuit
519530	K164 - 14-Pin Front Electric "F" Relay Coil	3	Pin 131 Short to Power
519530	K164 - 14-Pin Front Electric "F" Relay Coil	4	Pin 131 Short to Ground
519530	K164 - 14-Pin Front Electric "F" Relay Coil	5	Pin 131 Open Circuit
519531	K165 - 14-Pin Front Electric "G" Relay Coil	5	Pin 280 Open Circuit
519531	K165 - 14-Pin Front Electric "G" Relay Coil	6	Pin 280 Short to Power OR Short to Ground
519532	K166 - 14-Pin Front Electric "H" Relay Coil	28	Pin 151 Short to Power OR Open Circuit
519532	K166 - 14-Pin Front Electric "H" Relay Coil	4	Pin 151 Short to Ground
519533	K167 - ECU Power Latch TRIGGER Relay Coil	5	Pin 272 Open Circuit
519533	K167 - ECU Power Latch TRIGGER Relay Coil	6	Pin 272 Short to Power OR Short to Ground
519534	K168 - ECU Power Latch RESET Relay Coil	5	Pin 270 Open Circuit
519534	K168 - ECU Power Latch RESET Relay Coil	6	Pin 270 Short to Power OR Short to Ground
519911	R011 - Foot Throttle	26	Pin 111 124 Signal Out of Range
519911	R011 - Foot Throttle Primary Signal	3	Pin 124 Short to Power
519911	R011 - Foot Throttle Primary Signal	4	Pin 124 Short to Ground
519912	R012 - Hand Throttle (Primary or Redundant)	26	Pin 125 126 Signal Out of Range
519912	R012 - Hand Throttle Primary Signal	3	Pin 126 Short to Power
519912	R012 - Hand Throttle Primary Signal	4	Pin 126 Short to Ground
519939	R011 - Foot Throttle Redundant Signal	3	Pin 111 Short to Power
519939	R011 - Foot Throttle Redundant Signal	4	Pin 111 Short to Ground
519940	R012 - Hand Throttle Redundant Signal	3	Pin 125 Short to Power
519940	R012 - Hand Throttle Redundant Signal	4	Pin 125 Short to Ground

Kohler Engine Error Codes

SPN Code	FMI Code	Malfunction Code Description	DTC Code
27	7	Exhaust Gas Recirculation valve - Feedback/position sensor/Dynamic range failure	P0400
28	4	Accelerator Pedal for ASC (PTO) Track1, Sensor Signal too Low	P0227
28	3	Accelerator Pedal for ASC (PTO) Track1, Sensor Signal too High	P0228
28	21	Accelerator Pedal for ASC (PTO) Track 2, Sensor Signal too Low	P2122
28	20	Accelerator Pedal for ASC (PTO) Track 2, Sensor Signal too High	P2123
29	4	Accelerator Pedal Sensor, Track n. 2, Signal too Low	P0222
29	3	Accelerator Pedal Sensor, Track n. 2, Signal too High	P0223
84	2	Vehicle speed sensor signal invalid	P0501
84	5	Vehicle speed sensor input open/ short	P0502
84	8	Vehicle speed sensor frequency too high	P0503
91	4	Accelerator Pedal Sensor, Track No.1, signal too low	P0122
91	3	Accelerator Pedal Sensor, Track n. 1 Signal too High	P0123
94	6	SCV(+) output open load/short to GND; SCV(-) output open load/short to GND; SCV coil open/short	P0627
94	3	SCV(+) output short to BATT; SCV(-) output short to BATT	P0629
96	4	Fuel level sensor signal too low	P0462
96	3	Fuel level sensor signal too high	P0463
97	2	Water in fuel filter failure.	P2269
100	1	Engine Oil Pressure Low	P0524
102	2	Boost Pressure Sensor Performance Invalid	P0236
102	4	Boost Pressure Sensor Signal Too Low	P0237
102	3	Boost Pressure Sensor Signal Too High	P0238
105	4	Intake Air Temperature Sensor Singal to Low	P0112
105	3	Intake Air Temperature Sensor Singal to High	P0113
107	2	Air filter clogging error	P2280
108	4	Atmosphere Pressure Sensor too Low	P2228
108	3	Atmosphere Pressure Sensor too High	P2229
110	2	Coolant temperature sensor performance invalid	P0116
110	4	Coolant temperature sensor signal too low	P0117
110	3	Coolant temperature sensor signal too high	P0118
110	0	Engine Coolant Temperature Exceeds Upper Limit	P0217
156	14	Pressure Limited Valve (PLV) activated	P1219
156	14	Multiple high rail pressure error / Engine stall after Pressure Limited Valve opening	P1219
156	2	Common Rail pressure control cannot achieve target pressure fuel	P1220
157	0	Common Rail System Pressure - Exceeds high upper limit 3	P0088
157	2	FTB 2A - C/Rail press. Sensor signal keeping the middle range	P0191
157	20	FTB 25 - PC sensor offset diagnosis (drifted high or low)	P0191
157	14	FTB 24 - PC sensor high offset	P0191
157	9	FTB 29 - PC sensor offset diagnosis for NOX requirement (drifted high or low)	P0191
157	4	Common Rail Pressure Sensor - Signal Too Low	P0192
157	3	Common Rail Pressure Sensor - Signal Too High	P0193
157	15	Common Rail System Pressure - Exceeds High Upper Limit 1	P1217
157	1	Common Rail pressure falls below the control limit of the target pressure	P1221
157	16	Common Rail System Pressure - Exceeds High Upper Limit 2	P2293
167	1	Capacitor charge-up circuit malfunction injector (excessive charge)	P0200
167	31	Capacitor charge-up circuit malfunction injector (insufficient charge) within ECU	P0611
168	4	Vehicle System Voltage Too Low (< 8.0 volts)	P0562

168	3	Vehicle System Voltage Too High (> 16.0 volts)	P0563
174	4	Fuel Temperature Sensor Signal too Low	P0182
174	3	Fuel Temperature Sensor Signal too High	P0183
190	2	Crankshaft and Camshaft synchronous error	P0016
190	0	Engine Over Speed Revolutions	P0219
190	9	Crankshaft Position Sensor - Camshaft Position Sensor NO PULSE	P0385
249	2	Crankshaft Position Sensor - Performance Invalid	P0336
249	8	Crankshaft Position Sensor - No Pulse	P0337
430	3	Starter Switch short to battery.	P0615
430	4	Starter Switch short to Ground	P0616
430	5	Starter Switch short to battery.	P0617
598	2	Clutch switch circuit malfunction (manual transmission only)	P0704
604	2	Neutral switch circuit malfunction (manual transmission only)	P0850
626	4	Glow relay output open load/short to GND	P0541
626	3	Glow relay output short to BATT	P0542
637	2	Camshaft Position Sensor - Performance Invalid	P0341
637	8	Camshaft Position Sensor - No Pulse	P0342
1083	19	CAN 1 Node Error	U0073
1083	31	CAN BUS Line Open from General Unit	U0101
1084	19	Can2 Node Error	U1001
1127	0	Boost Pressure Sensor Exceed Upper Limit	P0234
1127	1	Boost pressure sensor exceeds lower limit	P0299
1349	2	Pump Learning Uncompleted	P268B
1393	5	Injector Circuit/Open - Injector firing order 1	P0201
1394	5	Injector Circuit/Open - Injector firing order 2	P0205
1395	5	Injector Circuit/Open - Injector firing order 3	P0203
1396	5	Injector Circuit/Open - Injector firing order 4	P0206
1397	5	Injector Drive system output open load	P2146
1397	4	Injector Drive system output short circuit to Ground.	P2147
1397	3	Injector Drive system output short circuit to Battery.	P2148
1639	31	Electrical Fan: Open Load / Short to Ground / Short to Battery	P0480
1639	6	Coolant fan low speed relay short to GND	P0693
1639	5	Coolant fan low speed relay short to battery	P0694
1639	4	Coolant fan high speed relay short to GND	P0695
1639	3	Coolant fan high speed relay short to battery	P0696
1762	4	Hydraulic pressure sensor signal too low	P0934
1762	3	Hydraulic pressure sensor signal too high	P0935
2791	13	EGR Cleaning failure (valve stuck open/poppet much lower than normal)	P0403
2791	14	EGR motor drive circuit invalid and/or battery tension	P0404
2791	7	EGR valve stick/initialization failure	P0488
2791	31	Exhaust Gas Recirculation Valve: Temperature failure	P2425
2791	2	EGR Valve Transmission and or received signal failure (for CAN)	U0411
2802	14	Check sum error - flash area	P0601
2802	11	Injector QR data Error in the ECU	P602
2802	12	CPU fault; main CPU fault	P0606
2802	31	CPU fault; watchdog IC fault	P0607
2802	13	Injector QR data in not written in the ECU	P1602

3349	9	TSC1 Time Out Error	U0107
3349	2	TSC1CS Checksum Test	U0408
3349	10	TSC1 RC Rolling Count Test	U0408
3509	4	Battery 5V reference 1 circuit low (5V power supply for sensor)	P0642
3509	3	Battery 5V reference 1 circuit high (5V power supply for sensor)	P0643
3510	4	Battery 5V reference 2 circuit low (5V power supply for sensor)	P0652
3510	3	Battery 5V reference 2 circuit high (5V power supply for sensor)	P0653
4082	4	Electric Lift Pump; Relay or Circuit Short to Ground	P0231
4082	3	Electric Lift Pump; Relay or Circuit Short to Battery	P0232