CODE	FUNCTION	FAILURES
01-16	**Air Filter** - Not Connected	
01-17	**Air Filter** - Plugged	
02-16	**Hydraulic Implement Filter** - Not Connected	
02-17	**Hydraulic Implement Filter** - Plugged	
03-09	**Battery Voltage** - Low	
03-10	**Battery Voltage** - High	
03-11	**Battery Voltage** - Extremely High	
03-14	**Battery Voltage** - Extremely Low	
03-22	**Battery Voltage** - Out of Range Low	
04-09	**Engine Oil Pressure** - Low	
04-14	**Engine Oil Pressure** - Extremely Low	
04-15	**Engine Oil Pressure** - In Shutdown	
04-21	**Engine Oil Pressure** - Out of Range High	
04-22	**Engine Oil Pressure** - Out of Range Low	
05-09	**Hydraulic Charge Pressure** - Low	
05-10	**Hydraulic Charge Pressure** - High	
05-11	**Hydraulic Charge Pressure** - Extremely High	
05-14	**Hydraulic Charge Pressure** - Extremely Low	
05-15	**Hydraulic Charge Pressure** - In Shutdown	
05-21	**Hydraulic Charge Pressure** - Out of Range High	
05-22	**Hydraulic Charge Pressure** - Out of Range Low	
06-10	**Engine Speed** - High	
06-11	**Engine Speed** - Extremely High	
06-13	**Engine Speed** - No Signal	
06-15	**Engine Speed** - In Shutdown	
06-18	**Engine Speed** - Out of Range	
07-10	**Hydraulic Oil Temperature** - High	
07-11	**Hydraulic Oil Temperature** - Extremely High	
07-15	**Hydraulic Oil Temperature** - In Shutdown	
07-21	**Hydraulic Oil Temperature** - Out of Range High	
07-22	**Hydraulic Oil Temperature** - Out of Range Low	
08-10	**Engine Coolant Temperature** - High	
08-11	**Engine Coolant Temperature** - Extremely High	
08-15	**Engine Coolant Temperature** - In Shutdown	
08-21	**Engine Coolant Temperature** - Out of Range High	
	Engine Coolant	

13-06	**Fuel Shutoff Hold Solenoid**	- Short to Ground
13-07	**Fuel Shutoff Hold Solenoid**	- Open Circuit
14-02	**Fuel Shutoff Pull Solenoid**	- Error On
14-03	**Fuel Shutoff Pull Solenoid**	- Error Off
15-02	**Traction Lock Pull Solenoid**	- Error On
15-03	**Traction Lock Pull Solenoid**	- Error Off
16-05	**Traction Lock Hold Solenoid**	- Short to Battery
16-06	**Traction Lock Hold Solenoid**	- Short to Ground
16-07	**Traction Lock Hold Solenoid**	- Open Circuit
17-05	**Hydraulic Lock Valve Solenoid**	- Short to Battery
17-06	**Hydraulic Lock Valve Solenoid**	- Short to Ground
17-07	**Hydraulic Lock Valve Solenoid**	- Open Circuit
18-05	**Spool Lock Solenoid**	- Short to Battery
18-06	**Spool Lock Solenoid**	- Short to Ground
18-07	**Spool Lock Solenoid**	- Open Circuit
19-02	**Bucket Positioning Solenoid**	- Error On
19-03	**Bucket Positioning Solenoid**	- Error Off
20-02	**Two Speed Solenoid**	- Error On
20-03	**Two Speed Solenoid**	- Error off
21-02	**Glow Plugs**	- Error On
21-03	**Glow Plugs**	- Error Off
22-02	**Starter**	- Error On
22-03	**Starter**	- Error Off
23-02	**Rear Base Solenoid**	- Error On
23-03	**Rear Base Solenoid**	- Error Off
24-02	**Rear Rod Solenoid**	- Error On
24-03	**Rear Rod Solenoid**	- Error Off
25-02	**Rear Auxiliary Relief Solenoid**	- Error On
25-03	**Rear Auxiliary Relief Solenoid**	- Error Off
26-02	**Front Base Solenoid**	- Error On
26-03	**Front Base Solenoid**	- Error Off
27-02	**Front Rod Solenoid**	- Error On
27-03	**Front Rod Solenoid**	- Error Off
28-02	**Diverter Solenoid**	- Error On
28-03	**Diverter Solenoid**	- Error Off
29-02	**High Flow Solenoid**	- Error On
29-03	**High Flow Solenoid**	- Error Off
30-28	**Controller Memory**	- Failure
	Interrupted Power (also occurs after software	

32-41 **AHC** - No communication
32-49 **ACS** - Lift actuator short to ground
32-50 **ACS** - Tilt actuator short to ground
32-51 **ACS** - Lift actuator short to battery
32-52 **ACS** - Tilt actuator short to battery
32-53 **ACS** - Lift handle/pedal short to ground
32-54 **ACS** - Tilt handle/pedal short to ground
32-55 **ACS** - Lift handle/pedal short to battery
32-56 **ACS** - Tilt handle/pedal short to battery
32-57 **ACS** - Lift actuator reduced performance
32-58 **ACS** - Tilt actuator reduced performance
32-59 **ACS** - Lift actuator wrong direction
32-60 **ACS** - Tilt actuator wrong direction
32-61 **ACS** - Handle lock short to ground
32-62 **ACS** - Handle lock short to battery
32-63 **ACS** - Pedal lock short to ground
32-64 **ACS** - Pedal lock short to battery
32-65 **ACS** - Sensor supply voltage out of range
32-66 **ACS** - Battery voltage out of range
32-67 **ACS** - Switch flipped while operating
32-68 **ACS** - Lift handle information error
32-70 **ACS** - Right hand drive short to ground
32-71 **ACS** - Right hand drive short to battery
32-74 **ACS** - Left Joystick X-Axis Out of Range
32-75 **ACS** - Interrupted unswitched power
33-23 **Main Controller (Bobcat Controller)** - Not Programmed
34-04 **Deluxe Panel** - In Error
35-02 **Hydraulic Fan** - Error On
35-03 **Hydraulic Fan** - Error Off
36-48 **ACD (Attachment control device)** - Multiple
37-02 **Two speed secondary** - Error On
37-03 **Two speed secondary** - Error Off
38-04 **AWS/SJC** - No communication from Joystick Controller
38-05 **AWS/SJC** - Left joystick X axis not in neutral
38-06 **AWS/SJC** - Right joystick X axis not in neutral
38-07 **AWS/SJC** - Left joystick Y axis not in neutral
38-08 **AWS/SJC** - Right joystick Y axis not in neutral
38-09 **SJC** - Control pattern switch short to ground or battery
38-11 **AWS/SJC** - Lift actuator not in neutral
38-12 **AWS/SJC** - Tilt actuator not in neutral
38-13 **AWS/SJC** - Lift actuator fault
38-14 **AWS/SJC** - Tilt actuator fault
38-15 **AWS/SJC** - Right wheel speed fault
38-16 **AWS/SJC** - Left wheel speed fault
38-17 **AWS/SJC** - Tilt actuator reduced performance
38-18 **AWS/SJC** - Lift actuator reduced performance
38-19 **AWS/SJC** - Left joystick X axis out of range high
38-20 **AWS/SJC** - Right joystick X axis out of range high
38-21 **AWS/SJC** - Left joystick Y axis out of range high

38-37 **AWS/SJC** - 5 volt sensor supply 1 out of range low
38-38 **AWS/SJC** - 5 volt sensor supply 2 out of range low
38-39 **AWS/SJC** - Lift actuator short to ground / out of range low
38-40 **AWS/SJC** - Tilt actuator short to ground / out of range low
38-41 **AWS/SJC** - Tilt actuator wrong direction
38-42 **AWS/SJC** - Lift actuator wrong direction
38-43 **AWS/SJC** - Left forward drive solenoid error ON
38-44 **AWS/SJC** - Left reverse drive solenoid error ON
38-45 **AWS/SJC** - Right Forward Drive Solenoid Error On
38-46 **AWS/SJC** - Right Reverse Drive Solenoid Error On
38-47 **AWS** - Front Right Steering Solenoid Error On
38-48 **AWS** - Front Left Steering Solenoid Error On
38-49 **AWS** - Rear Right Steering Solenoid Error On
38-50 **AWS** - Rear Left Steering Solenoid Error On
38-51 **AWS** - Steering Pressure Solenoid Error On
38-52 **AWS/SJC** - Backup Alarm Error On
38-53 **AWS/SJC** - Left Forward Drive Solenoid Error Off
38-54 **AWS/SJC** - Left Reverse Drive Solenoid Error Off
38-55 **AWS/SJC** - Right Forward Drive Solenoid Error Off
38-56 **AWS/SJC** - Right Reverse Drive Solenoid Error Off
38-57 **AWS** - Front Right Extend Steering Solenoid Error Off
38-58 **AWS** - Front Right Retract Steering Solenoid Error Off
38-59 **AWS** - Front Left Extend Steering Solenoid Error Off
38-60 **AWS** - Front Left Retract Steering Solenoid Error Off
38-61 **AWS** - Rear Right Extend Steering Solenoid Error Off
38-62 **AWS** - Rear Right Retract Steering Solenoid Error Off
38-63 **AWS** - Rear Left Extend Steering Solenoid Error Off
38-64 **AWS** - Rear Left Retract Steering Solenoid Error Off
38-65 **AWS** - Steering Pressure Solenoid Error Off
38-66 **AWS/SJC** - Backup Alarm Error Off
38-67 **AWS/SJC** - No communication from Bobcat controller
38-68 **AWS** - Wheel angles (alignment) not calibrated
38-69 **AWS/SJC** - Lift & Tilt Actuators Not Calibrated
38-70 **AWS/SJC** - Interrupted Power (also occurs after update)
38-71 **AWS/SJC** - Battery out of range
38-72 **AWS/SJC** - Drive pump not calibrated
38-73 **AWS/SJC** - Steering mode switch flipped while operating
38-74 **AWS/SJC** - Right Wheel Speed Uncommanded Motion
38-75 **AWS/SJC** - Left Wheel Speed Uncommanded Motion
38-76 **AWS** - Undercurrent-steer pressure solenoid
38-77 **AWS** - Undercurrent-front right extend steer solenoid
38-78 **AWS** - Undercurrent-front right retract steer solenoid
38-79 **AWS** - Undercurrent-front left extend steer solenoid
38-80 **AWS** - Undercurrent-front left retract steer solenoid
38-81 **AWS** - Undercurrent-rear right extend steer solenoid
38-82 **AWS** - Undercurrent-rear right retract steer solenoid
38-83 **AWS** - Undercurrent-rear left extend steer solenoid
38-84 **AWS** - Undercurrent-rear left retract steer solenoid
38-85 **AWS/SJC** - 5 Volt sensor supply 1 out of range high
38-86 **AWS/SJC** - 5 Volt sensor supply 2 out of range high
38-87 **AWS/SJC** - Front right steering error
38-88 **AWS/SJC** - Front left steering error
38-89 **AWS/SJC** - Rear right steering error
38-90 **AWS/SJC** - Rear left steering error
38-91 **AWS/SJC** - Right speed sensor missing pulses

47-21 **8 Volt Sensor Supply** - Out of Range High
47-22 **8 Volt Sensor Supply** - Out of Range Low
48-02 **Front Light Relay** - Error On
48-03 **Front Light Relay** - Error Off
49-02 **Rear Light Relay** - Error On
49-03 **Rear Light Relay** - Error Off
50-1 **Drive** - Travel pedal OORH
50-2 **Drive** - Travel pedal OORL
50-3 **Drive** - Travel pedal not calibrated
50-4 **Drive** - Brake pedal OORH
50-5 **Drive** - Brake pedal OORL
50-6 **Drive** - Brake pedal Not Calibrated
50-7 **Drive** - Drive selector switch no signal
50-8 **Drive** - Drive selector switch multiple inputs
50-9 **Drive** - Front wheel speed OORH
50-10 **Drive** - Front wheel speed OORL
50-11 **Drive** - Rear wheel speed OORH
50-12 **Drive** - Rear wheel speed OORL
50-13 **Drive** - Front wheel speed sensor no signal
50-14 **Drive** - Rear wheel speed sensor no signal
50-15 **Drive** - Dual wheel speed sensor fault
50-24 **Drive** - Battery voltage over voltage
50-27 **Drive** - 5V sensor #1 over voltage
50-28 **Drive** - 5V sensor #1 under voltage
50-29 **Drive** - 5V sensor #2 over voltage
50-30 **Drive** - 5V sensor #2 under voltage
50-31 **Drive** - Front PWM error on
50-33 **Drive** - Front PWM no signal
50-34 **Drive** - Front PWM not calibrated
50-35 **Drive** - Front forward error on
50-36 **Drive** - Front forward error off
50-37 **Drive** - Front reverse error on
50-38 **Drive** - Front reverse error off
50-39 **Drive** - Rear PWM error on
50-41 **Drive** - Rear PWM no signal
50-42 **Drive** - Rear PWM not calibrated
50-43 **Drive** - Rear forward error on
50-44 **Drive** - Rear forward error off
50-45 **Drive** - Rear reverse error on
50-46 **Drive** - Rear reverse error off
50-47 **Drive** - Two speed error off
50-48 **Drive** - Two speed error on
50-49 **Drive** - Brake solenoid error on
50-50 **Drive** - Brake solenoid error off
50-51 **Drive** - Brake solenoid no signal
50-52 **Drive** - Brake light relay error on
50-53 **Drive** - Brake light relay error off
50-54 **Drive** - Differential lock error on
50-55 **Drive** - Differential lock error off
50-56 **Drive** - CAN communications fault
50-57 **Drive** - Drive controller not calibrated
50-59 **Drive** - Front speed sensor missing pulses
50-60 **Drive** - Rear speed sensor missing pulses
50-63 **Drive** - Front angle sensor Not Cal
50-66 **Drive** - Rear angle sensor Not Cal

65-05 Workgroup lockout - Short to Battery
65-06 Workgroup lockout - Short to Ground
65-07 Workgroup lockout - Open Circuit
66-05 Pilot Pressure Short to Battery
66-06 Pilot Pressure Short to Ground
Main Controller (Bobcat
74-72 **Controller)** - In Boot Code
75-4 **Drive** - No Communication from Drive Controller
75-5 **Drive** - Left Joystick X-Axis Not in Neutral
75-7 **Drive** - Left Joystick Y-Axis Not in Neutral
75-8 **Drive** - Right Joystick Y-Axis Not in Neutral (H-pattern only)
75-9 **Drive** - ISO/H Pattern Switch Short to Ground or Battery
75-17 **Drive** - Left Swash Plate Not in Neutral
75-18 **Drive** - Right Swash Plate Not in Neutral
75-19 **Drive** - Left Joystick X-Axis Out of Range High
75-21 **Drive** - Left Joystick Y-Axis Out of Range High
75-22 **Drive** - Right Joystick Y-Axis Out of Range High (H-pattern only)
75-27 **Drive** - Left Swash Plate Out of Position
75-28 **Drive** - Right Swash Plate Out of Position
75-29 **Drive** - Left Joystick X-Axis Out of Range Low
75-31 **Drive** - Left Joystick Y-Axis Out of Range Low
75-32 **Drive** - Right Joystick Y-Axis Out of Range Low (H-pattern only)
75-37 **Drive** - 5 Volt Sensor Supply 1 Out of Range Low
75-39 **Drive** - Left Swash Plate Sensor Out of Range High
75-40 **Drive** - Left Swash Plate Sensor Out of Range Low
75-41 **Drive** - Right Swash Plate Sensor Out of Range High
75-42 **Drive** - Right Swash Plate Sensor Out of Range Low
75-43 **Drive** - Left Forward Drive Solenoid Error On
75-44 **Drive** - Left Reverse Drive Solenoid Error On
75-45 **Drive** - Right Forward Drive Solenoid Error On
75-46 **Drive** - Right Reverse Drive Solenoid Error On
75-52 **Drive** - Backup Alarm Error On
75-53 **Drive** - Left Forward Drive Solenoid Error Off
75-54 **Drive** - Left Reverse Drive Solenoid Error Off
75-55 **Drive** - Right Forward Drive Solenoid Error Off
75-56 **Drive** - Right Reverse Drive Solenoid Error Off
75-66 **Drive** - Backup Alarm Error Off
75-67 **Drive** - No Communication from Bobcat Controller
75-69 **Drive** - Battery Voltage Out of Range High
75-70 **Drive** - Interrupted Power (also occurs after software updates)
75-71 **Drive** - Battery Voltage Out of Range Low
75-72 **Drive** - Drive Pump Not Calibrated
75-73 **Drive** - ISO/H Pattern Switch Flipped While Operating
75-74 **Drive** - Right Wheel Speed Uncommanded Motion
75-75 **Drive** - Left Wheel Speed Uncommanded Motion
75-76 **Drive** - No Communication from ACS Controller
75-77 **Drive** - Left Speed Sensor Out of Range High
75-78 **Drive** - Right Speed Sensor Out of Range High
75-79 **Drive** - Left Speed Sensor Out of Range Low
75-80 **Drive** - Right Speed Sensor Out of Range Low
75-85 **Drive** - 5 Volt Sensor Supply 1 Out of Range High
75-91 **Drive** - Left Swash Sensor Reversed
75-92 **Drive** - Right Swash Sensor Reversed
75-93 **Drive** - Unresponsive Right Speed Sensor
75-94 **Drive** - Unresponsive Left Speed Sensor

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82-03	**ACD output C**	- Error Off
83-02	**ACD output D**	- Error On
83-03	**ACD output D**	- Error Off
84-02	**ACD output E**	- Error On
84-03	**ACD output E**	- Error Off
85-02	**ACD output F**	- Error On
85-03	**ACD output F**	- Error Off
86-02	**ACD output G**	- Error On
86-03	**ACD output G**	- Error Off
87-02	**ACD output H**	- Error On
87-03	**ACD output H**	- Error Off
90-02	**Service tool output C**	- Error On
90-03	**Service tool output C**	- Error Off
91-02	**Service tool output D**	- Error On
91-03	**Service tool output D**	- Error Off
92-02	**Service tool output E**	- Error On
92-03	**Service tool output E**	- Error Off
93-02	**Service tool output F**	- Error On
93-03	**Service tool output F**	- Error Off