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Troubleshoot Guide

3016934 SaltDogg Controller

Troubleshoot Procedures (Revision 1.2)

Controller Symptom	Problem and Resolution
Controller is turned on but no LEDs on the front panel light up.	If, when the POWER switch is first turned on, you do not see any LEDs light up on the front panel, then the input power to the controller may not be present or may be reversed in polarity. Check the 2 red wires and 1 black wire which provide power input to the controller. The 2 red wires should both be connected to +12 volts and the black wire should be connected to the battery negative terminal.
ERROR LED is ON	Whenever the ERROR LED is on, an error in the spreader has been detected. This may either be a fatal or non-fatal error depending on the error number. Count the number of flashes produced by the FLASH NUMBER LED to determine what the error code number is and use the table below to find out the meaning of this error code number.

ERROR LED	FLASH NUMBER LED	Problem and Resolution (Note: non-fatal errors mean that the controller continues working in spite of the error. Fatal errors means that the controller will shut itself down.)
OFF	OFF	NO PROBLEMS. NO ERRORS. This is the normal state of the controller.
ON	OFF	MOTOR OVERLOAD. This is a non-fatal error. An electrical overload has occurred in either the AUGER or SPINNER motor. The controller is trying to un-jam the appropriate motor using its un-jamming algorithm and will turn off the ERROR LED if it is successful in eliminating this motor overload condition.
ON	1 flash	LOW BATTERY VOLTAGE. This is a non-fatal error. The input voltage to the controller has been measured to be less than 10 volts. You may want to check the input voltage connection to the controller or the battery voltage.
ON	2 flashes	BLOWN FUSE. This is a non-fatal error. One of the internal controller fuses was found to be blown after power was first applied to the controller. If the AUGER dial light is off, the AUGER fuse is blown. If the SPINNER dial light is off, the SPINNER fuse is blown. If, when the VIBRATOR switch is turned on, the VIBRATOR switch LED is off, the VIBRATOR fuse is blown. If the AUGER, SPINNER, or VIBRATOR fuse is not blown, then it is the AUXILIARY fuse that is blown. Do not replace fuses with the controller connected to power.
ON	4 flashes	OVERLOADED SPINNER MOTOR. This is a fatal error. The SPINNER motor is continuously drawing greater than 40 amps of current and cannot be un-jammed by the controller. Turn off the controller and physically check that the SPINNER motor is not jammed.
ON	5 flashes	OVERLOADED AUGER MOTOR. This is a fatal error. The AUGER motor is continuously drawing greater than 60 amps of current and cannot be un-jammed by the controller. Turn off the controller and physically check that the AUGER motor is not jammed.
ON	6 flashes	EXTERNAL SHORT CIRCUIT TO GROUND. This is a fatal error. After power was first applied to the controller, the controller measured a short circuit to ground in one of the +12 Volt wires leaving the controller. This short is from either the RED AUGER +12 volt wire to ground, or it is from the YELLOW SPINNER +12 volt wire to ground. Turn off the controller. Disconnect the AUGER and SPINNER motors from the cable harness and then turn on the controller again. If this error then goes away, the short is in the cable harness. If this error does not go away after disconnecting the AUGER and SPINNER motors and power cycling the controller, then the controller needs to be replaced.
ON	7 flashes	MISSING BATTERY VOLTAGE. This is a fatal error. The +12 volts coming into the controller on the red 10 AWG wire was measured to be less than 5 volts after power was first applied to the controller. Check the 12 volt input to this controller for low voltage or for a poor connection.