

TROUBLESHOOTING GUIDE

CONTROL/CABLE/PLOW MODULE TEST

CONDITION	POSSIBLE CAUSE	CORRECTIVE ACTION
Control power light is not on.	Snowplow is not connected	<ul style="list-style-type: none"> Make sure grille plugs between snowplow and truck are properly connected.
	Incomplete harness connection(s) or damaged harness(es)	<ul style="list-style-type: none"> With the vehicle switched accessory ON, test the 4-pin connector inside the cab. If pin 1 does not have 12V and/or if pin 4 does not have ground, use the electrical schematic in this guide to trace the wires from the connector back to their source. Look for incomplete connections or damaged wires. Complete connections or repair/replace damaged wires and harnesses as needed.
Control power light is blinking (slow flash).	Single-pin connector on vehicle snowplow lighting harness is not connected	<ul style="list-style-type: none"> Make sure single-pin connector on vehicle snowplow lighting harness is properly connected.
	Harnesses connected to isolation module incorrectly	<ul style="list-style-type: none"> Using the electrical schematic in this guide, verify that isolation module and harnesses are properly connected.
Control power light is blinking (fast).	Control fuse is blown	<ul style="list-style-type: none"> Replace all blown fuses in under-hood electrical harnesses.
	Poor connection between control and module, damaged control, or damaged plow module	<ul style="list-style-type: none"> Make sure all plugs (control, between the snowplow and truck, on the snowplow, etc.) are properly connected. Check continuity of twisted pair wiring between control connector and plow module connector. If all plugs are properly connected, install a properly working control. If problem is corrected, replace PC board and/or coiled cord in damaged control.
Control power light is on, but snowplow does not respond.	Snowplow is locked	<ul style="list-style-type: none"> If problem is not corrected with properly working control, replace plow module. Enter 4-digit security code to unlock snowplow.
	Harnesses connected to isolation module incorrectly	<ul style="list-style-type: none"> Using the electrical schematic in this guide, verify that isolation module harnesses are properly connected.
Control power light is on, but snowplow does not respond.	Blown fuse or damaged plow module	<ul style="list-style-type: none"> Replace all blown fuses on truck and snowplow.
	Damaged harness(es) or cable(s)	<ul style="list-style-type: none"> If fuses are all okay, check for 12V at all coils and primary terminal of motor relay. If 12V is missing from any coil or relay, replace plow module. If 12V is present, go to next possible cause. Perform a Solenoid Coil Activation Test (SCAT) according to the instructions in this guide. Replace/repair any damaged harnesses and cables.
	Damaged control or plow module	<ul style="list-style-type: none"> Install a properly working control. If problem is corrected, replace PC board and/or coiled cord in damaged control. If problem is not corrected with properly working control, replace plow module.

To Safely Handle PCB:

▲ CAUTION
 Circuit board may be damaged by static electricity. Always touch ground before handling PC board.

Before disassembling control and touching the PC board, be sure to remove any static charge from yourself. Static charge can build up as a technician works on the control. Best practice is to work at a properly grounded work station with a grounded wrist strap attached to the technician. In place of proper work station, the technician should work in an oil- and solvent-free area and touch a good ground each time before touching the PC board while servicing the unit.

Handle the PC board by the edges only. Do not touch the carbon (black) areas of the keypad. Skin oils will deteriorate the contact area.