



Electric Levelers Troubleshooting Guide

<http://powergearus.com>

Solutions Are Listed in Sequential Order. Please Follow Solutions In the Order Listed When Troubleshooting

Problem	Check/Inspect	Probable Cause	Solution
1. On/Off Light will not Turn On	Ignition Signal	Key Turned Off	Turn on Ignition Key
	White Wire w/ Red Tracer at Controller	No 12 VDC	Repair Wire or Replace Fuse
	Ground Wire at Controller	Poor Connection	Repair Connection
	Continuity of Black Wire on the 4 Pin Connector at Controller (See Photo A)	Open Wire	Repair Open Wire
	No Problem Found on Previous Inspections	Defective Touchpad	Replace Touchpad
2. All LED's On for 2 Seconds and then Go Out	No Problem	System is in Prove Out Mode	Normal Operation
3. On/Off Light is On and Park Brake Light is Flashing	Parking Brake	Parking Brake Not Set	Set Parking Brake
4. On/Off Light and Wait Light are Flashing	Gear Shift Position	Gear Shift in the Wrong Position	Gasoline Coach should be in Park
			Diesel Coach should be in Neutral
5. Wait Light is Flashing	No Problem	Jacks are Extending or Retracting in Auto Mode	Normal Operation
6. Manual, Auto and Two Diamond Lights Flashing - "Error Mode"	Flashing Lights Will Indicate Which Leveler Circuit is the Problem	Sensor Circuit Is Open or Defective Motor Circuit	1. Depress On/Off Button to Stop Alarm
			2. While in Error Mode, Partially Extend All Jacks with the Errant Jack Extended the Furthest. (See Page 4 in the Operator's Manual Automatic Electric Jack Leveling available at www.powergearus.com)
			3. Exit Error Mode by Pressing All 4 Diamond Buttons Simultaneously.
			4. Press Retract All Button to Retract Jacks
	Operate System to Verify Condition. Did Error Occur on the Same Jack?	Sensor Circuit (Does Jack Motor Labor at the End of the Stroke) Inspect Jacks to see if Retracted too Far - Should Stop at 1/4 in. Before Hitting the Foot. (See Photo B)	If the Sensor Circuit Spider Harness is Black, Replace the Harness (See Photo C)
Check Jack Harness Power Distribution (See Photo D)			
Troubleshoot Jack Motor Replace Jack			



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Problem	Check/Inspect	Probable Cause	Solution
6A. Troubleshooting Jack Motor	Is the Motor Getting 12 VDC	Harness not Supplying 12 VDC or Jack Motor Not Responding	If 12 VDC is Being Supplied and Motor Not Running, Replace the Motor If No, Check Continuity on the Communication Harness (See Photo E)
	Unplug Harness From Jack Motor and Supply 12 VDC and Ground to the Two Wires (See Photo F)	Defective Controller, Defective Motor Power Distribution Harness, Defective Motor, or Defective Jack	If Motor Turns, Replace Controller
			If Motor Does not Turn, Replace the Motor If Motor Turns, but Jack does not Extend, Replace the Jack.
6B. Manual, Auto and Two Diamond Lights Flashing - "Error Mode"	Did Error Occur on a Different Jack?	Sensor Circuit Spider Harness (See Photo C)	If the Sensor Circuit Spider Harness is Black, Replace the Harness
		Sensor Circuit Spider Harness (See Photo G)	Verify that the Sensor Circuit Spider Harness is Connected Correctly to the Controller. (RR, RF, LR, LF) (See Photo H)
6C. Manual, Auto and Two Diamond Lights Flashing - "Error Mode"	Did No Error Occur?	Unknown	Check All Connections
			Cycle Jacks Several Times to Verify the Jacks Work Properly
7. Low Voltage LED is ON	Battery Condition	Low Batteries	Recharge Batteries and Start Engine
8. On/Off LED is On, No other Response	Check for 12 VDC at the Controller Positive Terminal	No 12 VDC	Reset 100 amp. In-Line Breaker
9. All Touchpad LED's are Flashing and an Audible Beeper.	Park Brake	System is in the Emergency Auto Retract Mode	Re-engage Park Brake
	Transmission has been Shifted out of Park or Neutral		Shift Back into Park or Neutral
10. Levelers will not Extend, Stall in Cold Weather or Will Not Retract	Controller Revision	Early Controllers Would Not Show Error Mode - Controller Revision is Earlier than OG	Replace Controller with an OG or Newer Revision - See Fleetwood Service Bulletin SBA 0271. After Replacing Controller, System May Go Into Error Mode (Refer to 6 through 6C)
11. System will Operate in Manual or Auto Mode, but will not Achieve Level	Front, Left, Right, Rear and Center Power Gear Logo LED's are Flashing	Excessive Slope Mode	Move Coach to a Different Location

4 Pin Harness
Black Wire

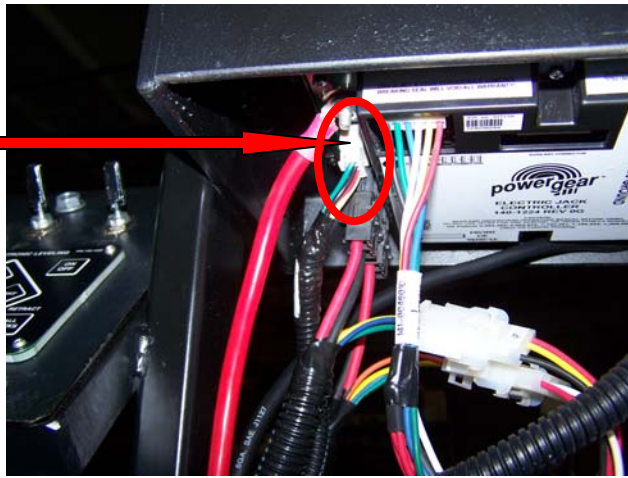
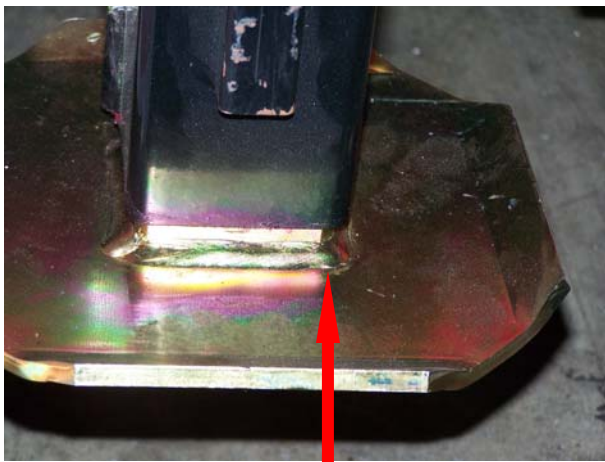
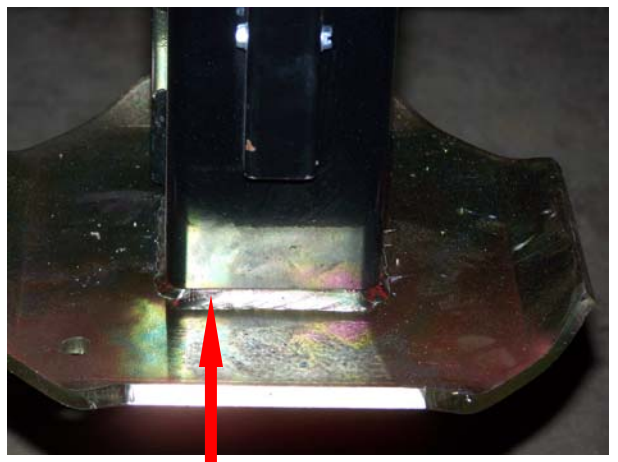


Photo A

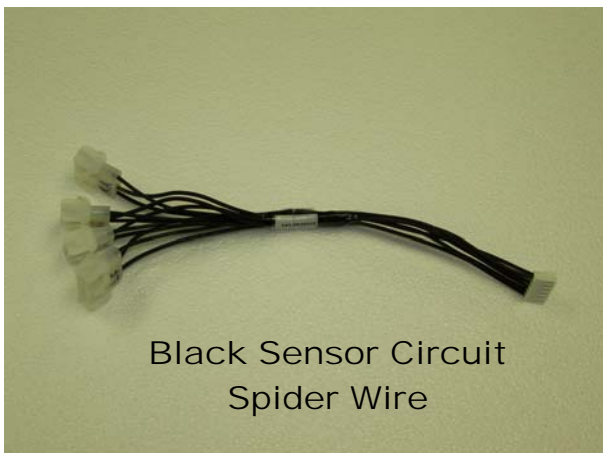


Retracted Correctly -
1/8" to 1/4" Above Weld

Photo B



Retracted too Far - Tight
Against Bottom Weld



Black Sensor Circuit
Spider Wire

Photo C



Photo D Red & Black
Wires Between
Motor and
Controller

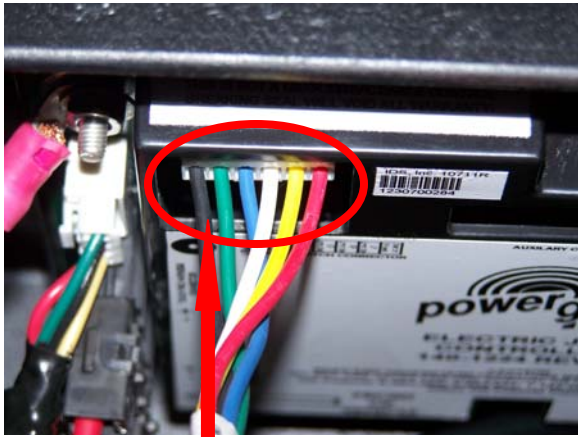


Photo E

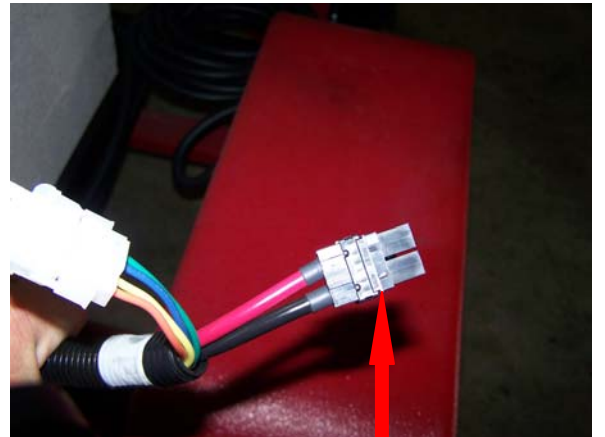


Photo F

Supply
12 VDC and
Ground

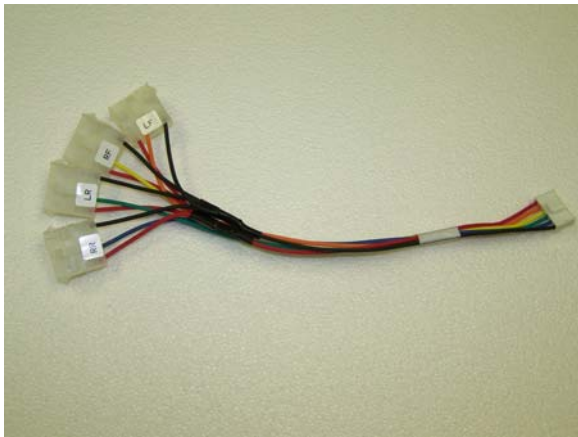


Photo G

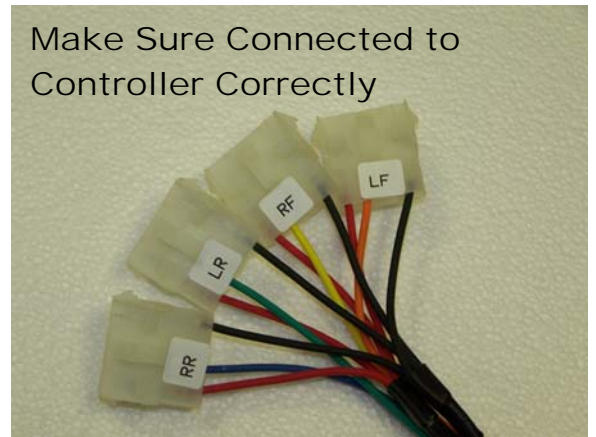


Photo H