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T.I.P. Troubleshooting Information on Power Gear

Power Gear Leveling Controls 500630 (Rev. 2) & 500674 (Rev. 1) Error Codes

Note: An *error code* is indicated by certain LEDs (on the touch pad) blinking in a given pattern. Find the pattern you are seeing (under “Indication”) in the chart below to find the mode. Then find the Mode in the paragraphs that follow to find a fix for the problem.

Note: The 500630 control is used with the 500629 touch pad. The 500674 control is used with the 500675 touch pad.

Note: Any reference to the *All Level* LED refers to the green “Power Gear” LED in the center of the diamond pattern. During normal operation, this LED comes on to indicate that the coach is level.

Indication (blinking LEDs)	Mode
All Level	Already Level
On/Off, Jacks Down & Park Brake	Panel Communication Error
Park Brake	Park Brake
Wait & On/Off	Transmission
All of the LEDs are blinking (and a buzzer is on and the jacks are retracting)	Emergency Retract
All of the LEDs are blinking	Zero Mode
Left, Right, Front, Rear & All Level	Out of Level Tolerance
Wait	Wait
Low Voltage	Low Voltage
Left, Right & All Level	Failure Mode



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Mode: **Already Level**

Indication:

All Level LED is blinking

Cause:

Coach is already level

Fix:

Coach is already level. However, leveling can still be executed as normal (to stabilize the coach)

Mode: **Panel Communication Error**

Indication:

The following LEDs are blinking together: On/Off, Jacks Down & Park Brake

Cause:

Poor connection between components or faulty component

Fix:

Check to make sure that all connections are tight and properly connected. Cycle power to reset. If that does not work, try replacing components individually, starting with the wire harness, then the touch pad, and lastly the control

Mode: **Park Brake**

Indication:

Park Brake LED is blinking

Cause:

Park brake is not engaged OR improper wiring of the parking brake wire

Fix:

Engage park brake. If that does not work, check the wiring of the park brake wire

Mode: **Transmission**

Indication:

The following LEDs are blinking together: Wait and On/Off

Cause:

Transmission is in gear OR improper wiring of the neutral safety switch wires

Fix:

Put transmission into park (or neutral for a diesel coach). If that does not work, check the wiring of the neutral safety switch wires

Mode: **Emergency Retract**

Indication:

Buzzer is on, all of the LEDs are blinking, and the jacks are retracting

Cause:

While the jacks are down and the ignition is in the run position, the coach is put into gear and/or the parking brake is disengaged

OR

Improper wiring of the neutral safety switch and/or the parking brake wire(s)

OR

Low fluid in the reservoir

Fix:

Engage park brake and make sure coach is not in gear while the jacks are down or while extending jacks. Check the fluid level in the reservoir. If problem persists, check the wiring of the neutral safety switch and/or the parking brake wire(s)



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Mode: **Zero Mode**

Indication:

All LEDs are blinking together

Cause:

Unit is brand new OR user put system into this mode. Unit is waiting for a programmed level position

Fix:

See Tip Sheets (#152 for semi-automatic 500674 and #153 for automatic 500630) on how to set a new level position. If unit is not brand new, and you want to keep the previously stored level position, cycle the key off and then back on

Mode: **Out of Level Tolerance**

Indication:

The following LED's are blinking together: Left, Right, Front, Rear, and All Level

Cause:

Coach is SO FAR out of level that jacks won't help

OR

Control was previously programmed at a position that was not level

OR

Control was not securely fastened in place when level was programmed

Fix:

Move coach to ground that is more level. If you know you are on fairly level ground, then re-program a new level position -- See Tip Sheets #152 for semi-automatic (500674) and #153 for automatic (500630)

Mode: **Wait**

Indication:

The Wait LED is blinking

Cause:

The control is busy. The LED will stop blinking in less than one minute

Mode: **Low Voltage**

Indication:

The Low Voltage LED is blinking

Cause:

The voltage is low at the control

Fix:

Charge or replace the battery. *If a leveling procedure is being attempted, the coach should be running to ensure a good voltage supply at the control*

Mode: **Failure mode**

Indication:

The following LED's are blinking together: Left, Right, and All Level

Cause:

Retract timeout— when retract is active for 2 minutes and float switch does not indicate jacks up

OR

Any internal failure — could be caused by a poor connection or faulty component

Fix:

Check the fluid level in the reservoir. Check to make sure that all connections are tight and properly connected. Cycle power to reset. If that does not work, try replacing components individually, starting with the wire harness, then the touch pad, and lastly the control