



1217 E. 7<sup>th</sup> Street  
 Mishawaka, IN 46544  
 Phone: 1-800-334-4712  
 1-888-339-2539  
 Fax: 574-256-6743

# ***T.I.P. Troubleshooting Information on Power Gear***

## **Error Codes for Power Gear Leveling Control** **Part # 140-1178 with touch pad 500629**

**Note:** An *error code* is indicated by certain lights (on the touch pad) flashing 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:** It is possible to have a combination of 2 or more error codes flashing at the same time. If the error code you are seeing is not listed here, look for a combination of 2 error codes. For example, if On/Off & Wait & the Power Gear Logo are all flashing, there are 2 modes at the same time (Already Level mode and Transmission mode)

<b>Indication</b> (flashing lights)	<b>Mode</b>
Up, Right, Down & Left flash in a clockwise pattern	Diagnostic Check
Power Gear Logo	Already Level
Any two of the Up/Down/Left/Right lights	Slightly out of level
Park Brake	Park Brake
Wait & On/Off	Transmission
Wait	Wait
Low Voltage	Low Voltage
All of the lights are flashing (and a buzzer is on and the jacks are retracting)	Emergency Retract
All of the lights are flashing (no buzzer)	Zero Mode
Left, Right, Front, Rear & Power Gear Logo all flashing	Out of Level Tolerance
All of the lights are on solid constantly	Internal Error
On/Off, Jacks Down & Park Brake	Panel Communication Error
Left, Right & Power Gear Logo	Failure Mode



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### Mode: **Diagnostic Check**

#### Indication:

For approx 5 seconds...The Up, Right, Down & Left lights flash in a clockwise pattern. The Power Gear logo is also flashing.

#### Cause:

This is a self diagnostic check and is normal anytime the ignition is turned on.

#### Fix:

The control will turn back off after the check is complete, or another error code will flash

### Mode: **Already Level**

#### Indication:

Power Gear Logo is flashing

#### Cause:

Coach is already level

#### Fix:

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

### Mode: **Slightly out of Level**

#### Indication:

Any two of the Up/Down/Left/Right lights (they could be flashing or ON solid or both)

#### Cause:

Coach is slightly out of Level

#### Fix:

This is normal anytime the coach is not already level. The arrows flashing or solid indicate which side(s) of the coach would need to be raised to reach level if manual mode were to be used.

### Mode: **Park Brake**

#### Indication:

Park Brake light is flashing

#### 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 lights are flashing 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: **Wait**

#### Indication:

The Wait light is flashing

#### Cause:

The control is busy. The light will stop flashing in less than one minute



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### Mode: **Low Voltage**

#### Indication:

The Low Voltage light is flashing

#### 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: **Emergency Retract**

#### Indication:

Buzzer is on, all of the lights are flashing, and the jacks are retracting. **Note:** *the buzzer will stop sounding after 10 seconds*

#### Cause:

While the jacks are extended 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)

### Mode: **Zero Mode**

#### Indication:

All lights are flashing together (no buzzer)

#### Cause:

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

#### Fix:

See Tip Sheet #153 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

**Note:** *If the buzzer was sounding for the first 10 seconds while all the lights were flashing, then you are in "Emergency Retract" mode, not zero mode. See "Emergency Retract" mode above*

### Mode: **Out of Level Tolerance**

#### Indication:

The following light's are flashing 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 Sheet #153



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### Mode: **Internal Error**

#### Indication:

All of the light's are on solid indefinitely

#### Cause:

This is an internal error

#### Fix:

A new control box is needed. However, a new touch pad *is not* needed

### Mode: **Panel Communication Error**

#### Indication:

The following lights are flashing 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 (turn the ignition off and back on again) to reset. If that does not work, try replacing components individually, starting with the wire harness (between the touch pad and the control box), then try the touch pad, and lastly the control

### Mode: **Failure mode**

#### Indication:

The following light's are flashing together: Left, Right, and All Level

#### Cause:

Retract timeout— when retract is active for 2 minutes and the pressure switch does not indicate jacks retracted

#### OR

Auto Leveling timeout — There are several internal timers that could trip. These timers are built-in to protect the coach from being damaged by overextension of the jacks

#### OR

An internal failure — could be caused by a poor connection or faulty component(s)

#### Fix:

Check to make sure that all connections are tight and properly connected. Cycle power to reset. If the error occurred during the retracting of the jacks, then check the pressure switch for proper operation (open circuit when jacks retracted—closed circuit when jacks extended). If the error occurred during the extending of the jacks, try moving the 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 Sheet #153). Lastly, if that does not work, try replacing components individually, starting with the wire harnesses, then the touch pad, and lastly the control