



T.I.P. Troubleshooting Information on Power Gear

Auxiliary Output Pin Voltage Levels On Power Gear Leveling Controls

The pins referred to in this Tip Sheet are based on the diagram below. This is a view looking at the Mate-N-Lok Connector mounted on the control itself (not the wire harness).



The following voltages apply to controls 500645, 500647, 500536 & 500548:

Jack Actuation	Pin 1	Pin 2	Pin 3	Pin 4
Extend	12V	Ground	12V	Open
Retract	12V	Open	12V	Ground
Idle	12V	Open	12V	Ground

The following voltages apply to controls 500630, 500674 & 500731:

Jack Actuation	Pin 1	Pin 2	Pin 3	Pin 4
Extend	12V	Ground	Ground	Ground
Retract	Ground	Ground	12V	Ground
Idle	Ground	Ground	Ground	Ground

It is important to note that regardless of which control you have (see exception below), the following chart is correct:

Jack Actuation	Pin 1	Pin 2	Pin 3	Pin 4
Extend	12V	Ground		
Retract			12V	Ground

Note: There was a small batch of 500630 controls and 500674 controls with different voltage levels manufactured in early 2001. The change was made to the present voltage levels soon after its initial release. In order to tell if your control is one of these initial few, check for continuity between pins 1 & 2 with the controller off and all wires disconnected. (Similarly, there could be continuity between pins 3 & 4). If continuity exists, then your control has the following voltage levels:

Jack Actuation	Pin 1	Pin 2	Pin 3	Pin 4
Extend	Ground	Ground	12V	12V
Retract	12V	12V	Ground	Ground