The Windy Nation Linear Actuator wireless remote control is a complete set of application configurable components to be used to control and complement the Windy Nation DC linear actuator line. **The Windy Nation Linear Actuator wireless remote control components are also compatible with other models of 12 volt DC motors that draw 5 amps of current or less.** The controller is very easy to use and offers stable performance with low power consumption.

Each receiving controller can work with multiple transmitters to offer remote push button operation for raising and lowering the actuator arm to precise limits or to control any DC motor that draws 5 amps of current or less.

**INSTALLATION**

1. Mount the actuator (not included) per the recommended procedure from the manufacturer.
2. Slide the 3mm heat-shrink tubing (included) over the red and black wires or the wireless remote control wires and connect the red wire to the red wire of the actuator connection cable (item #3) and the black wire to the black wire of the actuator connection cable.
3. Twist the two joined wired pairs together to secure them (soldering is strongly recommended but not required), slide the heat shrink back over each joined wire pair, and heat the heat shrink tubing with a hair dryer to shrink around wired connections. Note that soldering will provide a more secure connection which will reduce the risk of the wires from vibrating or “pulling loose” during operation.
4. Connect the actuator connection cable to the wireless remote receiver (item #2) and lock in place using the captive latching connector.

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**ITEM # | DESCRIPTION | PART # | NOTES**
---|---|---|---
1 | 12V – 5A Power Supply Unit | LIN-SPSU-12 | Includes item #3
2 | Wireless Remote Control Receiver | LIN-RCSW-WL | Includes Item #3 & #4
3 | Actuator Connection Cable | NA | Includes 2pc heat shrink
4 | Wireless Remote Control Transmitter | LIN-RCSW-WL | Includes Item #2 & #4
5 | Extension Cable (5M) | LIN-XCBL-15 | Optional
6 | Dual Actuator Adapter Cable | LIN-YCBL-01 | Optional; Includes item #3
7 | Linear Actuator (NOT INCLUDED)
5. Connect the wireless remote receiver (item #2) to the power supply unit (item #1) and lock in place using the captive latching connector. If a user supplied power supply is being used (e.g. a 12 volt battery or a third party power supply), then connect item #2 to that power supply.

**WARNING:** If the Windy Nation power supply (LIN-SPSU-12) is not used, a 12V power supply rated at 5A or larger must be used. The power supply will need to be connected directly to the control receiver by removing the latching connector preinstalled on the control receiver.

**Optional Equipment**
- If additional cable is required either between the power supply unit and the control receiver or between the control receiver and the actuator, Windy Nation offers a 5M extension cable (PN LIN-XCBL-15) for purchase.
- In order to control two (2) Actuators using one control unit, Windy Nation offers a dual actuator adapter cable that includes an additional actuator connection cable. The dual adapter cable will be wired in between the control receiver (item #2) and the actuator extension cables, as shown below.

**OPERATION**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SPECIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Voltage</td>
<td>12V DC</td>
</tr>
<tr>
<td>Operating Current</td>
<td>15mA</td>
</tr>
<tr>
<td>Operating Frequency</td>
<td>433.92M</td>
</tr>
<tr>
<td>Operating Distance</td>
<td>20~30M</td>
</tr>
</tbody>
</table>

1. Press “UP” key on the Remote Control Transmitter (item #4) to extend the linear actuator
2. Press “DOWN” key on the Remote Control Transmitter (item #4) to retract the linear actuator.
3. During any movement, press the other directional key to stop the actuator at its current location.

**NOTE:** If the actuator or motor moves DOWN when the UP KEY is pressed on the Remote Control Transmitter, simply switch the red and black wires that connect the Wireless Remote Receiver (Item #2) to the actuator or motor (Item #7).

**Pairing Instructions**
With power applied to the control receiver, press any key on the handset and hold for 3 seconds. The indicator light will blink 3 times and then the light will turn off indicating that pairing was successful.

The ‘paired’ handset will now work with the controller.

**TROUBLESHOOTING**
Unit will not extend/retract

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bad Connection</td>
<td>Inspect for broken or loose wires between each connection.</td>
</tr>
<tr>
<td>Power Supply is Bad</td>
<td>Measure the voltage from the power supply directly at the wired ends to ensure 12V is present.</td>
</tr>
<tr>
<td></td>
<td>To do this, use a voltmeter that is set to measure DC voltage.</td>
</tr>
<tr>
<td>Insufficient Current</td>
<td>Power may be reaching the motor, but with insufficient current to provide full load moving capacity. Use an amp meter to confirm that sufficient current is reaching the actuator.</td>
</tr>
<tr>
<td>Remote Control is not paired</td>
<td>Follow pairing instructions above to pair the remote control with the receiver unit.</td>
</tr>
</tbody>
</table>

**WARRANTY**
Windy Nation warrants the item to be free of manufacturing flaws for a period of one (1) year. Windy Nation is not responsible for any injuries and/or damages caused as a result of not complying with the specifications stated.