Overspeed Governor Test in the Field — Rave Stair Lift

To test the overspeed safety device, the lift needs to travel approximately 52 fpm in the down direction. To do this, remove the motor wires (marked M1 and M2) and brake wires from the circuit board (marked B1 and B2) and apply 24VDC to the brake wires.

The illustrations on this page indicated the run and tripped position of the governor (you will not be able to see this in the field).

With a rated load of 350 pounds, the device will set very quickly upon the brake releasing (within 2” of travel). In the event the device fails to set, remove the power to the brake to stop the lift. *The brake is not polarity sensitive.*

After the test, remove the power from the brake and reconnect the brake to the circuit board. Run the lift in the up direction to reset the device.

**Overspeed Notes:**
- Governor pawl is attached to the down hill side of the worm gear and actuates off of centrifugal force.
- When downward speed reaches ~48 to 52 fpm, the pawl is forced away from the cent of rotation, catching on one of two stainless steel screws that are secured in the worm box frame, stopping the lift immediately.
- Motion of the lift in the up direction will release and reset the pawl.
- During normal operation, a torsion spring holds the pawl in the run position. Safety will set at any speed in the down direction if the spring fails.
### BILL OF MATERIALS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART #</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
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<td>530-00147</td>
<td>LEVER ASSEMBLY</td>
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<tr>
<td>9</td>
<td>1</td>
<td>75042</td>
<td>PIN, WORM CENTER</td>
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<tr>
<td>8</td>
<td>3</td>
<td>10013</td>
<td>Washer, Flat, #8</td>
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<tr>
<td>7</td>
<td>3</td>
<td>10707</td>
<td>Screw, BHHS, 8-32x3/8&quot; BO</td>
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<td>6</td>
<td>1</td>
<td>79077</td>
<td>ASSY, Sub, Worm Shaft</td>
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<td>5</td>
<td>1</td>
<td>130-00130</td>
<td>RAVE, WORM/OSG ASSEMBLY</td>
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<td>4</td>
<td>1</td>
<td>450-00003</td>
<td>RAVE, BALL NOSE SPRING PIN</td>
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<td>3</td>
<td>1</td>
<td>10756</td>
<td>Thrust Bearing, 5/8x1-1/8&quot;</td>
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<tr>
<td>2</td>
<td>2</td>
<td>10757</td>
<td>THRUST WASHER, 5/8 x 1-1/8 x .032&quot;</td>
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<tr>
<td>1</td>
<td>1</td>
<td>3301</td>
<td>WORM GEAR BOX</td>
</tr>
</tbody>
</table>

### NOTES:

1. LUBRICATE THRUST BEARING WITH SUPERLUBE.
2. PRESS WORM SHAFT INTO WORM WITH TOOL.
3. SECURE SCREW (ITEM #7) WITH BLUE LOCTITE (3X).
4. SECURE SPRING PIN (ITEM #4) WITH RED LOCTITE.

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**AmeriGlide, Inc.**

**ASSY, RAVE WORM BOX W/ OSG**

**REV A**

**DWG NO. 130-00147**

**DESCRIPTION**

**SCALE** NTS

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**CONFIDENTIAL INFORMATION**

**INTERPRET DRAWING AND TOL.**

**UNLESS OTHERWISE SPECIFIED**

**DIMENSIONS ARE IN INCHES. TOLERANCES ARE:**

- DECIMALS ± 0.1
- XX ± 0.02
- XXX ± 0.010
- ANGLES ± 3

- DO NOT MEASURE FROM DRAWING.