

## VIBRATORY FEEDER BOWLS

PROBLEM	POSSIBLE CAUSE	CORRECTION
<b>UNIT HUMS BUT DOES NOT VIBRATE</b>	<ul style="list-style-type: none"> <li>- Defective controller</li> <li>- Controller not properly set</li> </ul>	<p>Replace.</p> <p>Check to see controller is set properly for type of drive unit.</p> <p>R.C. Units - "Half Wave / 60" A.C. Units - "Full Wave /120"</p>
<b>UNIT STRIKING</b>	<ul style="list-style-type: none"> <li>- Air gap set too close</li> <li>- Bowl or inline too close together</li> </ul>	<p>Adjust spacing as close as possible without striking under load. Ensure armature and core faces are parallel across entire area.</p> <p>Move bowl back using the clearance in mounting feet of the bowl.</p>
<b>COIL HEATING UP - EXCESSIVE CURRENT DRAW</b>	<ul style="list-style-type: none"> <li>- Air gap set too wide</li> <li>- Improper tune on feeder bowl causing controller to be turned up too high</li> </ul>	<p>Under normal operation coil will run warm but NEVER too hot to touch. Adjust air gap closer but not too close as to cause striking.</p> <p>Tune drive unit. (See Tuning PDF)</p>
<b>UNIT DOES NOT OPERATE</b>	<ul style="list-style-type: none"> <li>- Lack of power supply to controller or between controller and unit.</li> <li>- Voltage and frequency not as per name plate.</li> <li>- Coil burned out or grounded.</li> <li>- High level track sensor blocked.</li> </ul>	<p>Check wiring, fuses, loose components in Controller, etc. Correct as required.</p> <p>Check for magnetism using a thin scale between coil and striker plate - replace if defective.</p> <p>Clear interrupted signal. Check for damaged sensor. Check for dirty fibre optic sensor.</p>

**FEEDER BOWL OPERATING BELOW CAPACITY - FEED RATE LOW BUT SPEED O.K.**

- Overloaded feeder bowl.
- Worn out feeder bowl or worn "rate making" areas.
- Incorrect manifold air pressure.
- Orienting features not adjusted correctly.
- "Rate making" air jets broken or position changed

See Operating and Installation Section. Repair or replace as required. \*Should be performed by Crown.

Unless otherwise specified air pressure should be set at 50 psi.

Position properly and tighten.

Position properly or replace broken parts.

**DECREASED FEEDER BOWL OUTPUT**

- Low voltage.
- Feeder bowl touching rigid surface.
- Defective or dirty leaf springs.
- Spring clamping bolts improperly torqued.
- Feeder bowl or bowl mounting arm cracked
- Unit improperly tuned
- Air Gap set too wide
- Orienting features altered or damaged
- Bowl surface too smooth - eliminating friction needed to transfer parts

Repair as required. Reposition correctly.

Clean or replace.

Ensure torqued to 140 inch-pounds.

Repair or replace as required.

Adjust to correct. (See Tuning PDF)

Adjust to correct. (See Air Gap Adjustment PDF)

Check for loose hardware and tighten. \*Should be performed by Crown.

Grind bowl tracks and bowl bottom. (Call us before performing any repairs)

**SOME ISSUES ARE JUST MORE COMPLICATED...**

Need help with your "Vibratory Feeder Bowl" or other issues. Reach out to us today.

**GO TO [CROWNFEEDERS.COM/CONTACT](https://www.crownfeeders.com/contact)**