J. Trouble Shooting Guide

Controller beeps one time, repeatedly.
- **Low Battery:** Check for low battery by pulling breakaway pin. Voltage should drop from 12 volts DC to 10-11 volts DC. If drop is larger, charge or replace battery.

Controller beeps two times, repeatedly.
- **Open Circuit:** Pull breakaway pin. Make sure brakes are working. If not, check for loose or broken connections.

Controller beeps three times, repeatedly.
- **Short Circuit:** Check for bare wire or loose connections in ground. Also check for power wires making contact with each other or grounded surface.

Controller beeps four times, repeatedly.
- **Overload:** Check for too many running lights, or too many axles (more than three heavy duty).

Controller beeps five times, repeatedly.
- **Turn Lights On:**
  - Make sure that the trailer running lights are on.
  - Make sure the in-cab controller is plugged into the cigarette lighter receptacle (not an accessory power receptacle).
  - Check for bad connections in plugs on the trailer and towing vehicle.
  - Make sure plug pins are tight and not worn from use or dragging on the ground.
  - Make sure there is no corrosion. Check ground connections. Make sure trailer is grounded to towing vehicle and trailer battery.

Brakes are not aggressive enough (all green lights are illuminated).
- Make sure brake system is bled properly. (see Section G. Installation Check Procedures / Bleeding the Brakes)
- If drum brakes, adjust brakes.
- Loosen or remove attaching bolts. Remount the unit with the rear end of the Hydrastar XL™ elevated approximately 2 inches.

Unit is not putting out pressure.
- Make sure brake system is bled properly. (see Section G. Installation Check Procedures / Bleeding the Brakes)
- With no power to the unit, remove the filler cap. Place a finger in the reservoir. A screened tube, fixed in place, should be felt. If this tube is not felt, or it moves around, the unit needs repaired.
- Remove the attaching bolts. Have a second person depress the brake pedal on the towing vehicle, and hold it down. Have a second person slowly lift the rear end of the Hydrastar XL™ unit. The pitch of the motor should change as the unit is lifted higher and higher. If this does not occur, the unit need repaired.

Brakes do not apply when pressing on the brake pedal, and vehicle and trailer are not moving.
- When the vehicle and trailer are not moving, the brakes will not activate when you press on the brake pedal. Raise the gain setting until all six green lights are illuminated. Apply and HOLD the red button on the in-cab controller. All red lights will come on for an instant and then drop to one to three red lights.

Trailer “jerks” when brakes are first applied.
- Turn gain setting down, so fewer green lights are illuminated.
- If the trailer has drum brakes, back off of the brake adjustment slightly on all trailer wheels.

Trailer lights flicker.
- Battery charger in the Hydrastar XL™ is cycling on and off. This may be eliminated by running a brown wire directly from the trailer plug to the brown wire on the Hydrastar XL™ unit.