

**ES SERVICE BULLETIN****Affected Equipment:** YPAL Rooftop Units - All Mod "D"  
Built Prior to March 2006**Subject:** Erratic Keypad and Display Operation**Issue Date:** 02/28/06**Withdrawal Date:** 12/31/06**Data Control Level:** C**Materials Needed:** Electrical Snap Bushings**Tools Required:** Greenly Punch Set or Stepped Drill, Hand Tools**Estimated Time Required:** 3 hours**Warranty:** Yes**Revision Notes:** N/A**Problem:**

On YPAL Mod "D" 50 to 105 ton units with a IPU control, the keypad and display exhibit erratic operation when the VFD for the exhaust or return fan is energized.

**Cause:**

When a VFD is in operation it can generate electrical noise on the load side electrical conductors. In the YPAL unit the load side electrical conductors are routed from the blower bulkhead to the return section of the unit, where the exhaust or return fan is located. The sensor and control wiring for the unit is routed in the same wire bundle as the power wires. The electrical noise generate in the VFD power wiring can be picked up by the control wiring resulting in the erratic operation of the keypad and display.

**Solution:**

The power wiring is currently routed on the left side of the unit. Remove the VFD power wiring harness from the wire bundle and reroute the wires on the right hand side of the unit. In order to do this, openings will have to be made in the intermediate bulkheads between the blower compartment and the return air section of the unit. Either a stepped drill or a Greenly Punch Set can be used to form these openings. In most cases this will require an opening sized for a 3/4 inch electrical connector (1.093 OD). Use plastic electrical snap bushing or other means to protect the wires where they pass through these openings. The open in the panel of the evaporator coil support and filter section support must be sealed to prevent bypass air. These openings can be sealed with caulk, permagum, or mastic sealing tape.

**Production:**

All units built in March of 2006 and after (serial number prefix RCRM) will be built with this modification and will not experience the problem.

**Warranty:**

Claims for repairs must be made using the standard procedures. The "Problem Description" section of the warranty claim must contain a reference to Service Bulletin SB0069.

Work on this equipment should only be done by properly trained personnel who are qualified to work on this type of equipment. Failure to comply with this requirement could expose the worker, the equipment and the building and its inhabitants to the risk of injury or property damage.

The instructions on this service bulletin are written assuming the individual who will perform this work is a fully trained HVAC & R journeyman or equivalent, certified in refrigerant handling and recovery techniques, and knowledgeable with regard to electrical lock out/tag out procedures. The individual performing this work should be aware of and comply with all national, state and local safety and environmental regulations while carrying out this work. Before attempting to work on any equipment, the individual should be thoroughly familiar with the equipment by reading and understanding the associated service literature applicable to the equipment. If you do not have this literature, you may obtain it by contacting a York Service Office.

Should there be any question concerning any aspect of the tasks outlined in this bulletin, please consult a York Service Office prior to attempting the work. Please be aware that this information may be time sensitive and that York reserves the right to revise this information at any time. Be certain you are working with the latest information. The York Service office nearest you may be found on the Internet at [www.york.com](http://www.york.com).