
BendPak Technical Service Bulletin

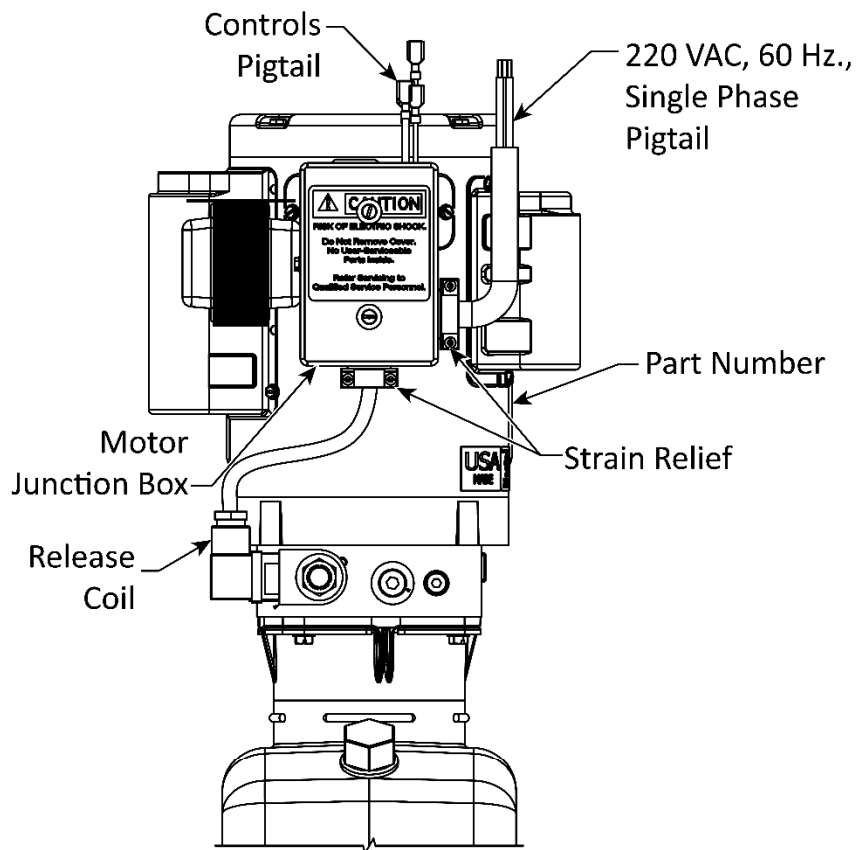
PL-6000DC - Wiring the 5585420 and 5585184 Power Unit

BendPak TSB 104-122022

The purpose of this Technical Service Bulletin is to clarify wiring and internal electrical connections on the PL-6000DC Lift Power Units. A simplified Wiring Diagram for two of the Power Units currently in use is provided as well as instructions for connecting to the Control Panel and Power.

Connecting the Power Unit P/N: 5585420 and 5585184

Verify the Power Unit part number. The label identifying the Power Unit is located on the motor housing. This Power Unit is provided with two Pigtails. The top Pigtail is the Controls input and the bottom right Pigtail is the 220 VAC, 60Hz power input. See Figure below.



⚠ DANGER

All wiring **must** be performed by a licensed, Electrician in accordance with national and local electrical codes. If someone who is not a certified Electrician attempts these tasks, they could be electrocuted, resulting in serious injury or death. **Do not perform any maintenance or installation on the Lift without first verifying that main electrical power has been disconnected from the Lift and cannot be re-energized until all procedures are complete.**

To connect 220 VAC Facility Power to the 5585420 and 5585184 Power Units:

NOTE: Wire nuts and strain reliefs or cord grips are not supplied with the Lift.

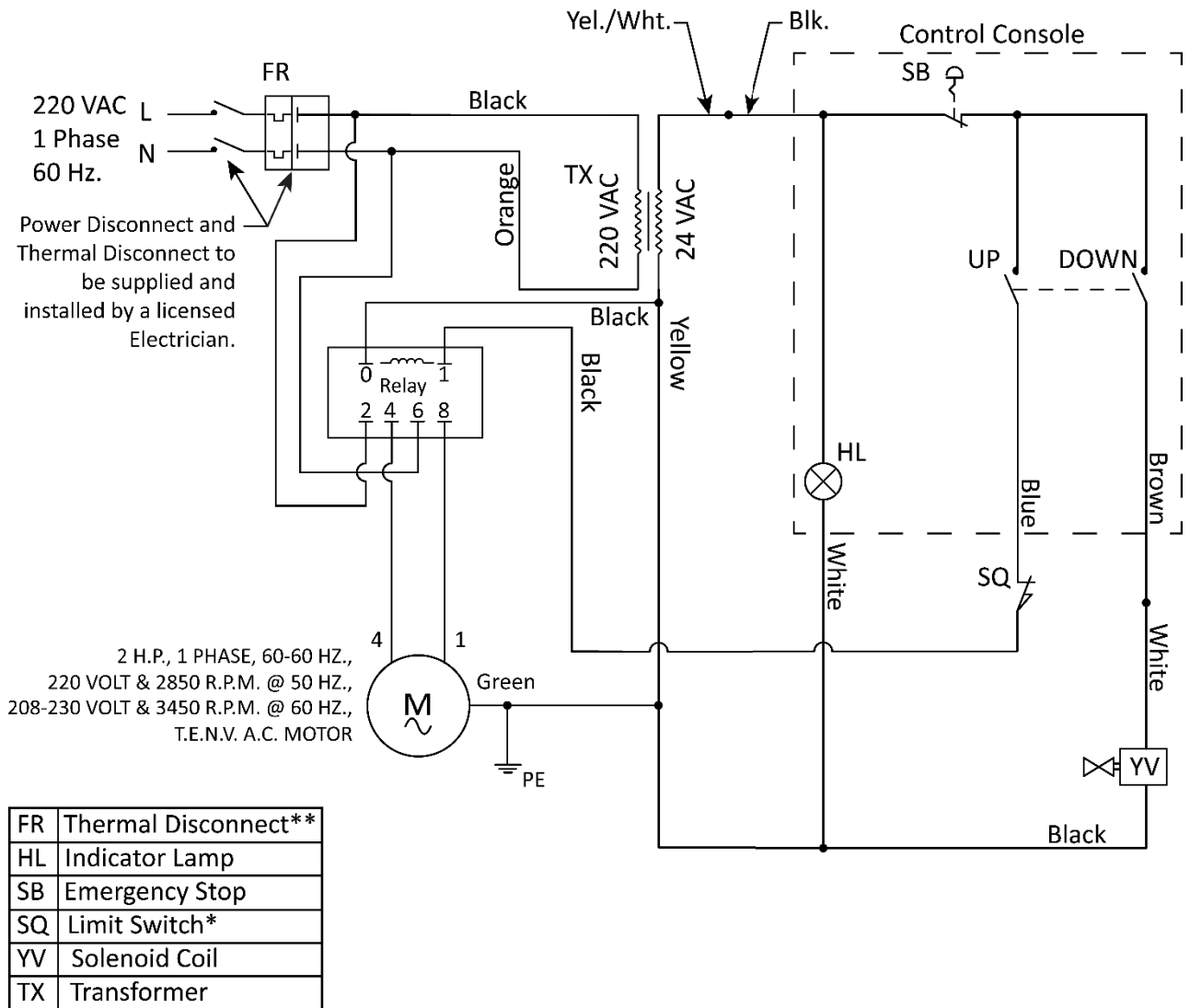
1. Always wear OSHA-approved (publication 3151) Personal Protective Equipment: Verify the power has been locked out cannot be re-energized while you are working on the Lift.
2. Install Power and Thermal Disconnects in accordance with all national and local electrical codes.
3. Carefully remove the cover from the Motor Junction Box by removing the two fasteners on the side of the Junction Box and lifting the cover away. The Relay is mounted on the cover of the Junction Box. Retain the fasteners.
4. Loosen the Cord Grip on the 220 VAC Pigtail and pull the wiring back into the Motor Junction Box.
5. Feed the 220 VAC Facility Power Wiring from the Disconnects through the Strain Relief and into the Motor Junction Box leaving enough wire to provide for a small service loop.
6. Remove the Wire Nuts from the 220 VAC Pigtail. Discard the Pigtail.
7. Strip the insulation back on all facility power wires. Strip back enough insulation to provide for a good connection in the Wire Nut but leave no exposed copper.
8. Using appropriately sized Wire Nuts, connect L1 to the White Wire, L2 to the Black Wire and Ground to the Green Wire. Verify connections as detailed in the wiring diagram on the following pages.
9. Tighten and secure the Strain Relief.

To connect the Control Panel on the 5585420 and 5585184 Power Unit:

1. Pull the Controls Pigtail wiring back into the Motor Junction Box.
2. Refer to the Installation Manual to run the Four-Conductor Cable through the Control Arm and up the Lift Post to the Power Unit.
3. Install an appropriate Strain Relief or Cord Grip in the Junction Box opening.
4. Insert the Four-Conductor Cable through the strain relief and into the Junction Box.
5. Strip back the insulator on all four wires. Strip back enough insulation to provide a good connection in the Wire Nut but leave no exposed copper.
6. Find the Black and White Pigtail Wires leading from the Orange Wire Nut with a Yellow/White Wire (24VAC) from the Transformer. Remove and discard the Black and White Pigtail Wires, then connect the Black Wire (24VAC) from the Four-Conductor cable to the Yellow/White Wire using the Orange Wire Nut just removed.
7. Find the Orange Wire Nut connected to a Yellow Wire (Common) from the Transformer, a Black Wire from the "0" Terminal of the Relay and a Black Wire from the Solenoid. Connect the White Wire from the four-conductor cable to this group. It may require using a larger Yellow Wire Nut.
8. Find the White Wire leading from the Solenoid and connect to the Brown Wire (Down) from the four-conductor cable using an Orange Wire Nut.
9. Find the Black Wire connected to the "1" Terminal on the Relay. Connect to one side of the two-conductor cable from the Limit Switch mounted on the Lift Post using an Orange Wire Nut.
10. Connect the other wire from the two-conductor Limit Switch Cable to the Blue Wire (Up) from the four-conductor cable.
11. Secure all strain reliefs and verify the wiring and connections match the diagrams in this bulletin.
12. Replace the Junction Box Cover and secure using the fasteners.

13. Remove the Control Panel Cover (four fasteners).
14. Connect the 4-Conductor cable in the Control Panel as shown in the diagram below.
15. Replace the Control Panel Cover and secure with fasteners.

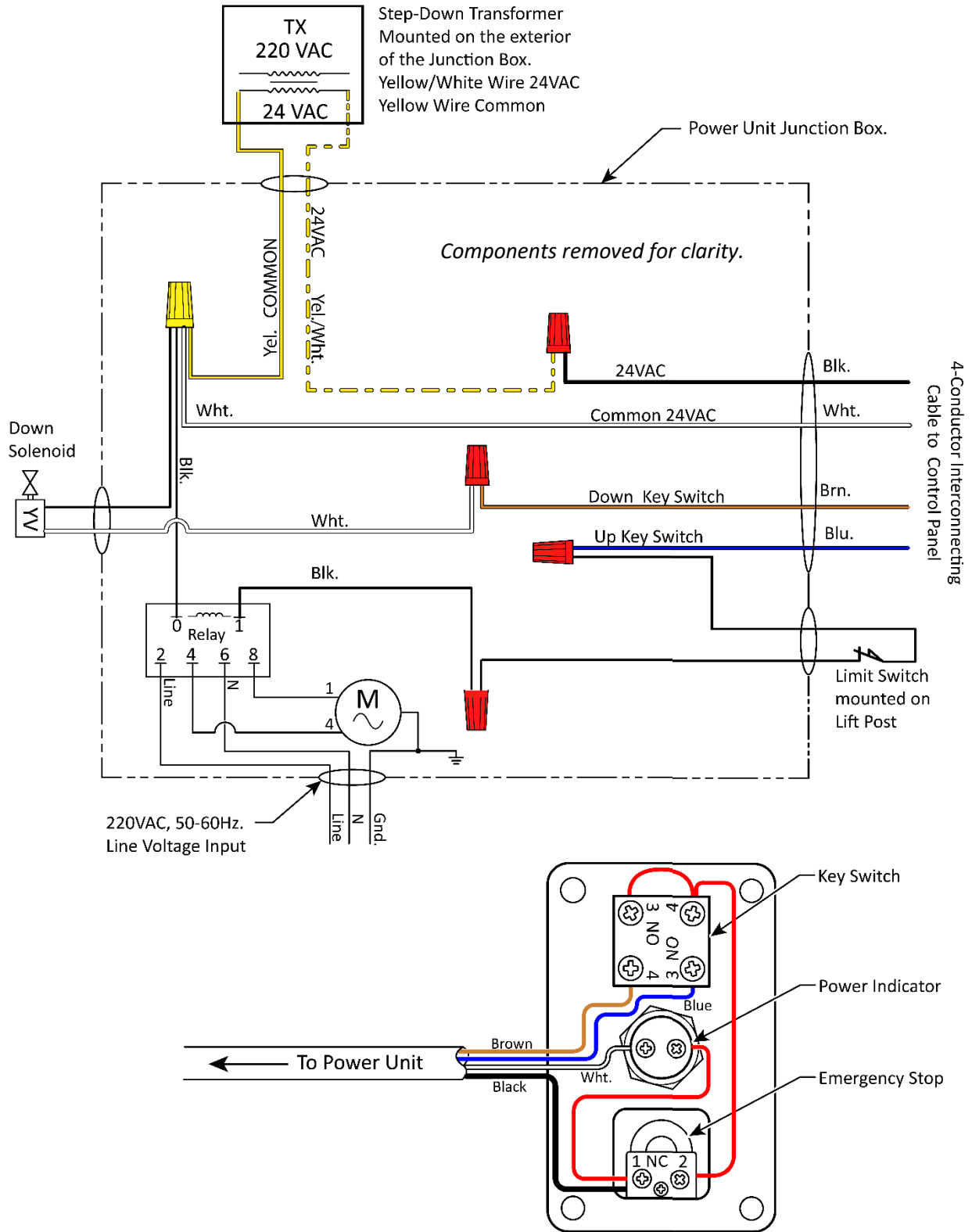
Electrical Schematic



*Limit switch is supplied with the Lift, but must be connected to the Power Unit by a licensed Electrician.

**Power and Thermal Disconnect must be supplied and installed by a licensed electrician, in accordance with all local, state and national electrical codes.

Controls Wiring Diagram



If you have questions about your BendPak Lift, go to Bendpak.com/support, email support@bendpak.com, or call (805) 252-2363 ext. 196.