

Magnetic Starter - 30A, 120 or 240V Coil

Wiring Guide



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Contact Red Jacket Technical Support for additional troubleshooting information at 800-323-1799.

DAMAGE GOODS/LOST EQUIPMENT

Thoroughly examine all components and units as soon as they are received. If any cartons are damaged or missing, write a complete and detailed description of the damage or shortage on the face of the freight bill. The carrier's agent must verify the inspection and sign the description. Refuse only the damaged product, not the entire shipment.

VR must be notified of any damages and/or shortages within 30 days of receipt of the shipment, as stated in our Terms and Conditions.

VEEDER-ROOT'S PREFERRED CARRIER

1. Fax Bill of Lading to V/R Customer Service at 800-234-5350.
2. Call V/R Customer Service at 800-873-3313 with the specific part numbers and quantities that were received damaged or lost.
3. VR will file the claim with the carrier and replace the damaged/missing product at no charge to the customer. Customer Service will work with production facility to have the replacement product shipped as soon as possible.

CUSTOMER'S PREFERRED CARRIER

1. Customer files claim with carrier.
2. Customer may submit a replacement purchase order. Customer Service will work with production facility to have the replacement product shipped as soon as possible.
3. If "lost" equipment is delivered at a later date and is not needed, VR will allow a Return to Stock without a restocking fee.
4. VR will NOT be responsible for any compensation when a customer chooses their own carrier.

RETURN SHIPPING

For the parts return procedure, please follow the instructions in the "General Returned Goods Policy" pages of the "Policies and Literature" section of the Veeder-Root North American Red Jacket Mechanical Products Price Book. Veeder-Root will not accept any return product without a Return Goods Authorization (RGA) number clearly printed on the outside of the package.





Magnetic Starter Wiring Diagrams for 30 Amp, 120 or 240 Volt Coil

Introduction

This Magnetic Starter is a 3 phase, full voltage across the line starter with the coil factory wired for 110–120 volts (Figure B) or 208–240 volts (Figure E). Check with the local power company to see if their power source is adequate for your requirements. Wiring diagrams are provided to show typical wiring schemes depending upon the pump model and coil voltage rating.

Safety Precautions

The following safety symbols are used throughout this manual to alert you to important safety hazards and precautions.

 <p>EXPLOSIVE Fuels and their vapors are extremely explosive if ignited.</p>	 <p>FLAMMABLE Fuels and their vapors are extremely flammable.</p>
 <p>ELECTRICITY High voltage exists in, and is supplied to, the device. A potential shock hazard exists.</p>	 <p>TURN POWER OFF Live power to a device creates a potential shock hazard. Turn Off power to the device and associated accessories when servicing the unit.</p>

⚠ WARNING



This magnetic starter is to be installed in systems operating near locations where highly combustible fuels or vapors may be present.

Fire or explosion resulting in serious injury or death could result if the equipment is improperly installed or modified. Serious contamination of the environment may also occur.

Read and follow all instructions in this manual, including all safety warnings.

Comply with all applicable codes including the National Electrical Code (NFPA70); Code for Motor Fuel Dispensing Facilities and Repair Garages (NFPA 30A); federal, state, and local codes; and other applicable safety codes.



This magnetic starter contains high voltages which can be lethal. It is also connected to low power devices that must be kept intrinsically safe.

Do not connect the Magnetic Starter AC power supply wires at the breaker until all devices are installed.

Connecting power wires to a live circuit can cause electrical shock that may result in serious injury or death.

These starters are designed to be used with copper wire - **DO NOT USE ALUMINUM WIRE!**



Explosive vapors or flammable liquids could be present near locations where fuels are stored or being dispensed. The Magnetic Starter is not explosion proof. Do not install this device in a volatile, combustible, or explosive atmosphere.

An explosion or fire resulting in serious injury or death, property loss and equipment damage could occur if the Magnetic Starter is installed in a volatile, combustible, or explosive atmosphere (Class I, Division 1 or 2).

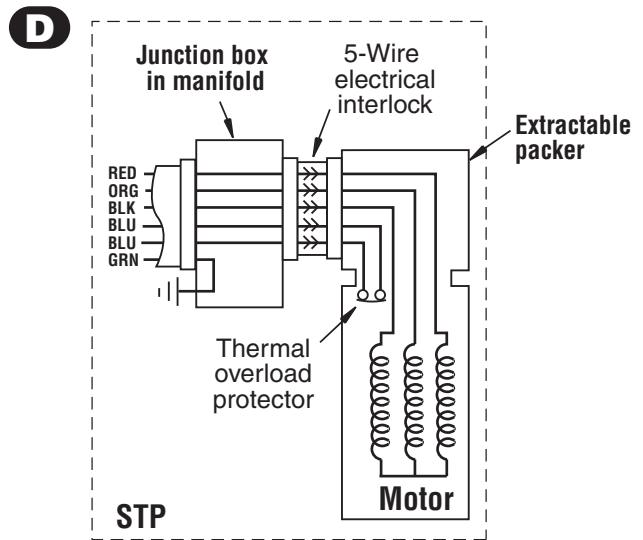
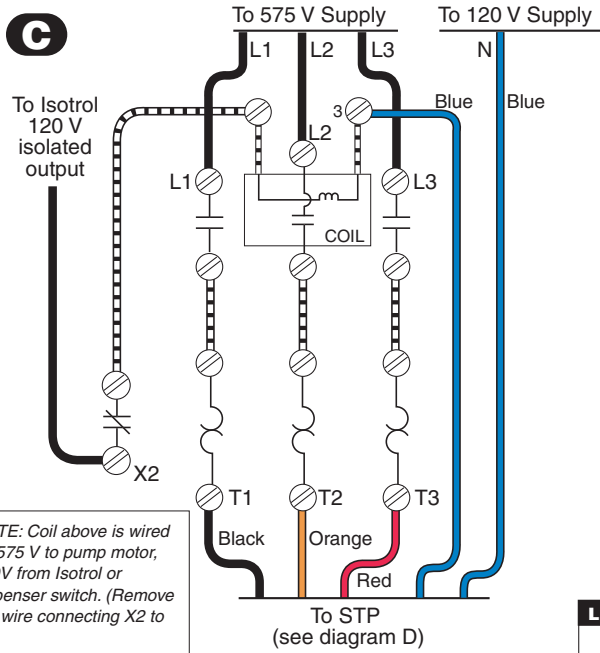
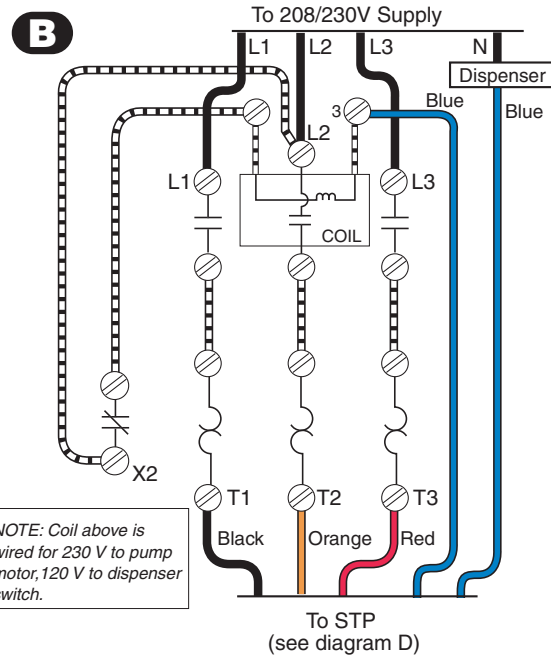
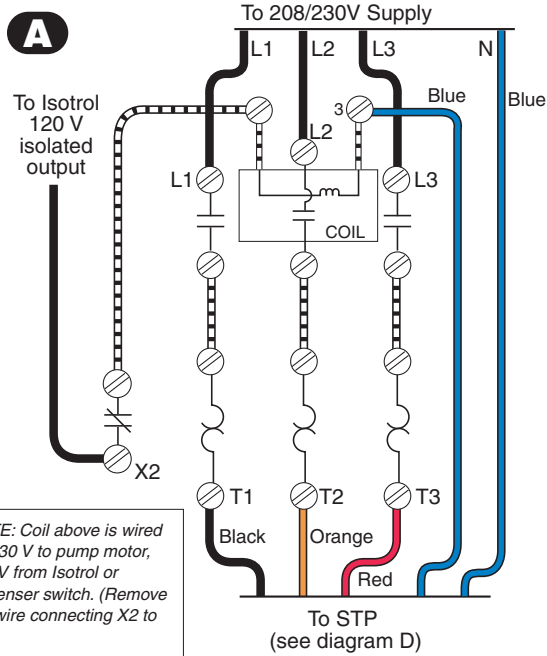
Troubleshooting the Installation



WARNING! Lockout and tag power before performing either of these two procedures.

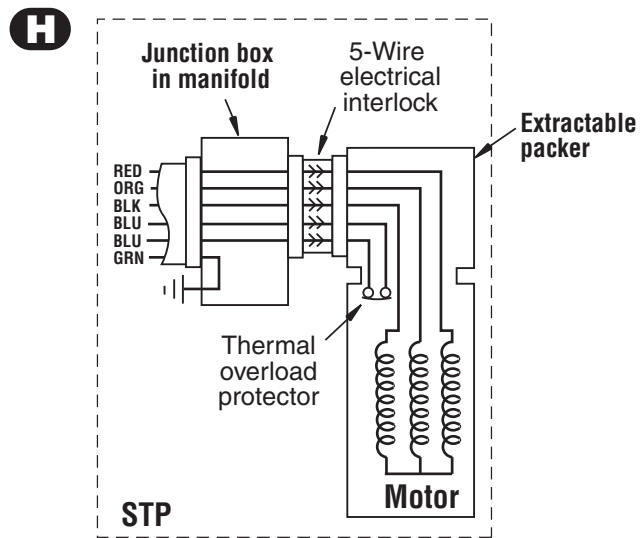
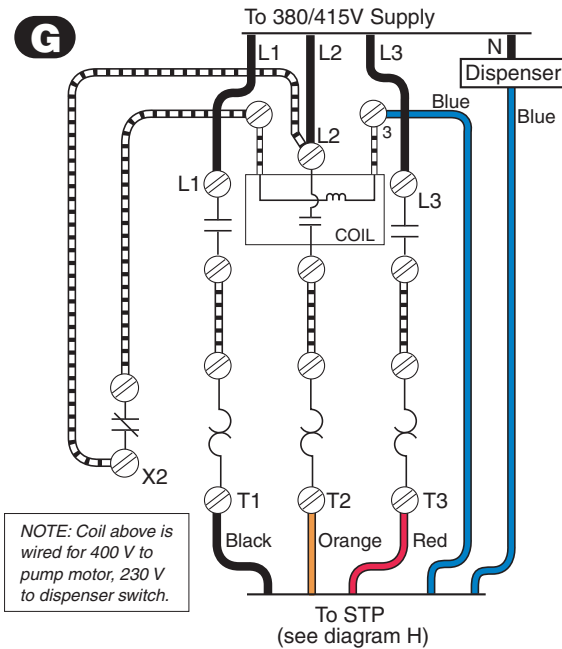
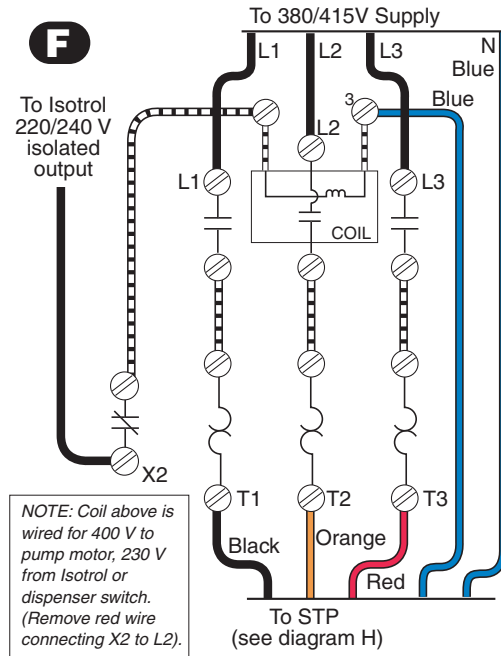
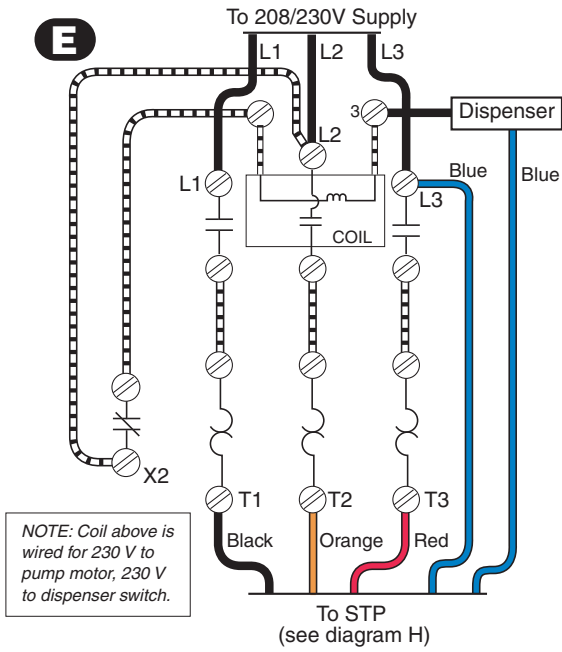
1. If nuisance tripping occurs, check for proper heaters, loose connections, and severe arcing or pitting of contacts.
2. If the pump rotates backwards as evidenced by low pressure and flow, correct rotation by reversing any two of the three power wires to the pump.

Wiring Diagrams for Starters with 110–120 volt Coil



LEGEND					
Overload heater	Normally closed contact	Normally open contact	Screw terminal	Wire added by installer	Wire added by manufacturer

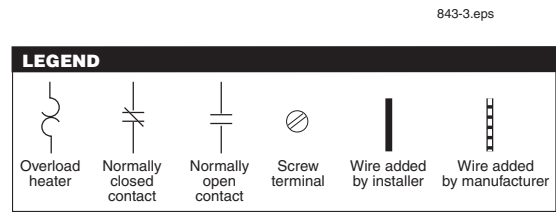
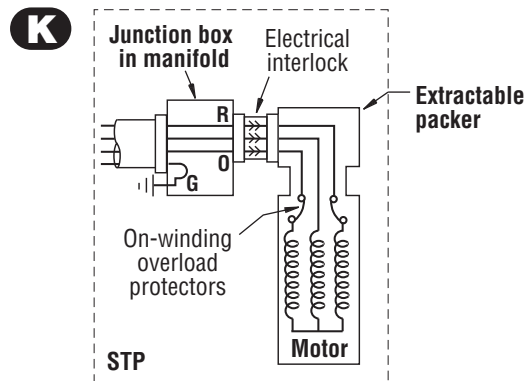
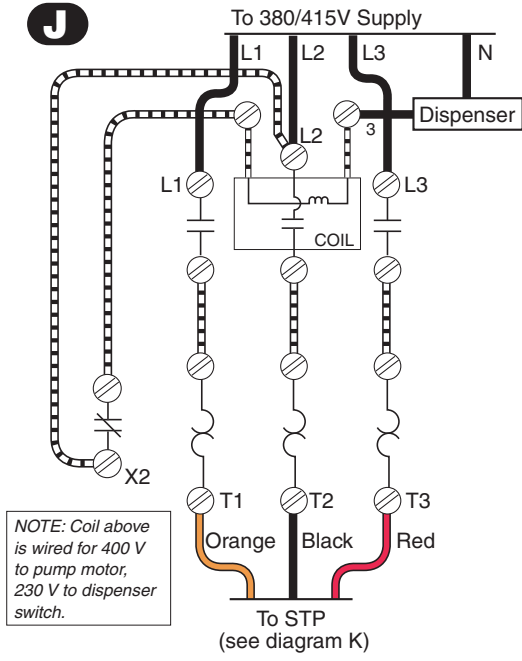
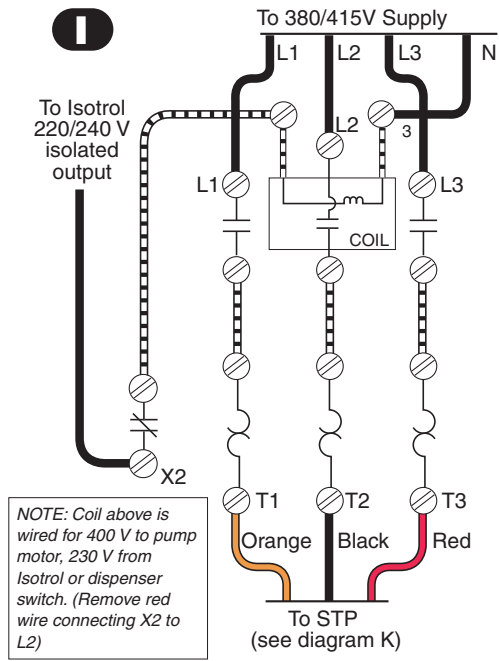
Wiring Diagrams for Starters with 208–240 volt Coil



LEGEND

Overload heater	Normally closed contact	Normally open contact	Screw terminal	Wire added by installer	Wire added by manufacturer

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other assistance, please visit:
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A blue rectangular box with a white globe icon at the top. Below the globe, the text "For technical support, sales or other assistance, please visit:" is followed by the website address "www.veeder.com".