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CNC Router Systems

HOW-TO CHANGE BECKER PUMP VOLTAGE

***IMPORTANT!* READ THIS SETUP THOROUGHLY BEFORE RUNNING THE MACHINE. DISCONNECT ALL POWER TO THE MACHINE BEFORE BEGINNING.**

I. WIRING BECKER PUMPS

The following instructions provide you with the basic information needed to switch the voltage on your 10HP Becker Pump from 440V to 220V or 220V to 440V AC 3 Phase Power.

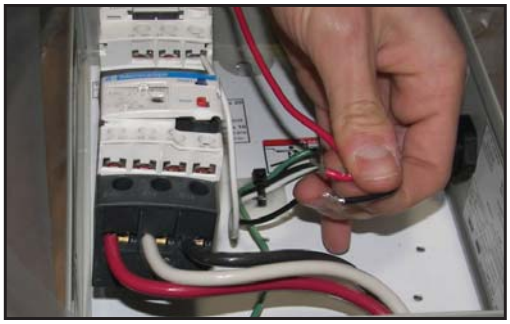
STEP 1: Disconnect all power to the Pump before continuing.

STEP 2: Unscrew the Pump Wiring box so the jumpers are visible. Carefully switch the jumpers to the appropriate settings.

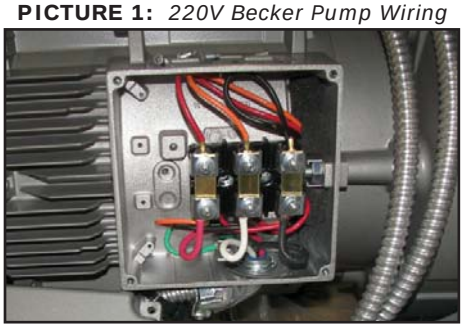
*220V Pumps will be wired like **Picture 1**, with the jumpers vertically placed. 440V Pumps will be wired like **Picture 2**, with the jumpers horizontally placed on the top row. A change in pump voltage wiring requires a new Overload Relay Switch in the Pump's Starter Box. 440V Pumps need the H90Z16-RYA018-01 Overload Relay and 220V Pumps need the H90Z16-RYA032-01 Overload Relay.*

STEP 3: Open the Starter Box Cover. Unscrew the three middle screws on the Overload Relay Switch. Refer to ***Picture 3: Detaching the Overload Relay***, for a visual reference.

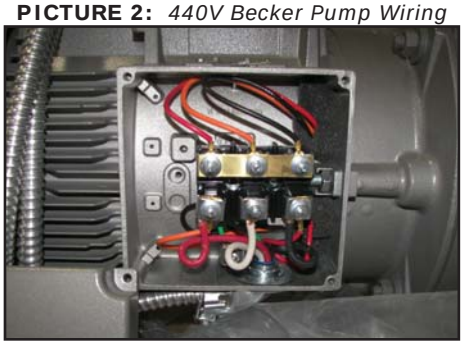
STEP 4: Next remove the N0196 (red) and NU195 (black) wires that connect to the bottom of the Overload Relay, refer to ***Picture 4: Disconnecting Relay Wires for a visual***. Using a screw driver, loosen the screws that hold the wires in place and gently pull the wires from the switch. See picture below.



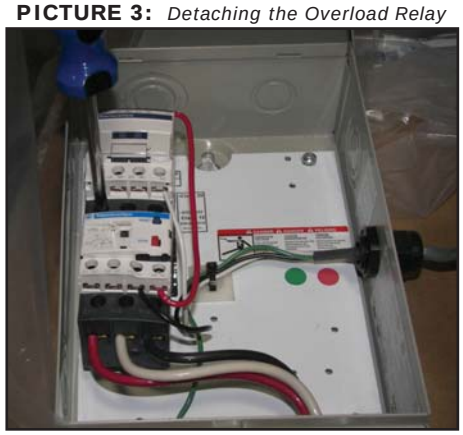
PICTURE 1: *220V Becker Pump Wiring*



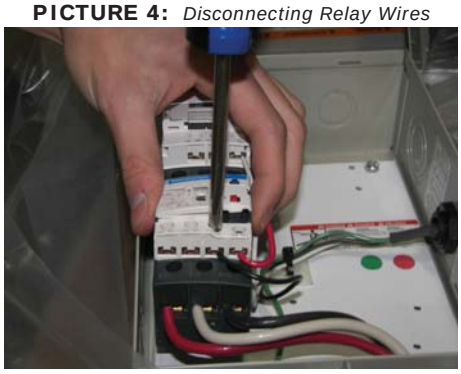
PICTURE 2: *440V Becker Pump Wiring*



PICTURE 3: *Detaching the Overload Relay*



PICTURE 4: *Disconnecting Relay Wires*



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STEP 5: Carefully replace the Overload Relay Switch with the new one. Once connected, remove the T1, T2, and T3 wires from the old switch and connect them to the new one in the same order. Refer to ***Picture 5: Reconnecting Relay*** for a visual.

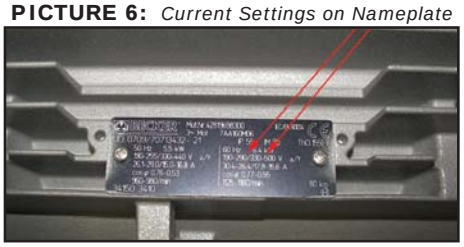
STEP 6: Reconnect the N0196 (red) and NU195 (black) wires into the Overload Relay.

STEP 7: Locate the Pump Nameplate and view the correct "Current" settings for the Voltage you have just updated. Using a screw driver, carefully lift the cover of the Overload Relay and turn the amperage dial to the appropriate settings from the Pump Nameplate. Refer to ***Picture 7: Accessing Amperage Dial*** and ***Picture 8: Changing Amperage Dial Settings*** for a visual.

STEP 8: Close all cover plates on the pump and reconnect power. If the pump is not working correctly disconnect power and check all connections.

PICTURE 5: *Reconnnecting Relay*

PICTURE 6: *Current Settings on Nameplate*



PICTURE 7: *Accessing Amperage Dial Settings*

PICTURE 8: *Changing Amerpage Dial Settings*