Bridgeport "J" (Step Pulley) Head Single Phase Motor Installation

- 1. Disconnect power to the head and lock out.
- 2. Remove the Drum Switch from the side of the head
- 3. Remove the Motor Locknuts from the bottom of the motor and remove the motor from the head.
- 4. Loosen the set screw in the Motor Pulley and remove the pulley from the motor shaft.
- 5. Remove the two Motor Locknut Studs from the old motor.
- 6. Insert the two Motor Locknut Studs into the new Motor Flange.
- 7. Bolt the Motor Flange to the bottom of the new Motor using the 4 Hex Head Bolts and 4 Locking Washers provided.
- 8. Attach the provided motor switch plate to the New Motor using the 4 provided Socket Head Screws.
- 9. Attach the Drum Switch to the Motor Switch Plate by removing the 4 Hex Nuts, Installing the Drum Switch and locking down using the 4 Hex Nuts. NOTE: YOU MAY BE REQUIRED TO INSERT A HOLE INTO THE BACK OF YOUR DRUM SWITCH IF YOU DO NOT HAVE ONE THAT MATCHES UP WITH THE HOLE IN THE MOTOR SWITCH PLATE.
- 10. Follow the instructions provided in the hardware bag for wiring the switch to the new motor.
- 11. See below for instructions to modify you existing Motor Pulley for use on the new motor.
- 12. Install the Motor Pulley onto the motor shaft of the New Motor.
- 13. Install the new Motor onto the top of the head.
- 14. Reinstall the Motor Locknuts onto the motor studs.
- 15. Reconnect the power to the mill.

If you run into any problems or need additional parts please call:

Barry Walker H&W Machine Repair and Rebuilding Inc. 2119 Meyer Road Fort Wayne, IN 46803 (800) 285-5271

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Motor to existing Drum Reversing Switch. Directions for wiring Baldor Single Plase

to the drum switch, or run a short, flexable conduit hole in the drum switch to pass wires from the motor from the motor to the switch. Use the adaptor plate as a pattern and drill a 3/4"

the adaptor plate to the motor connection box. Mount Pull the motor wires through the adaptor plate. Mount cord using corresponding numbers on the motor numbered motor leads to the drum switch and power the drum switch to the adaptor plate then connect the diagram.

3 - Orange 4 - Yellow 2 - White 1 - Blue as as follows: Baldor wire numbers are Black

Switch 230

CCW

White L2

Black L1

Power cord (not supplied) 14 Ga. 9 Amp @ 220 VAC

> 230 VAC

Blue

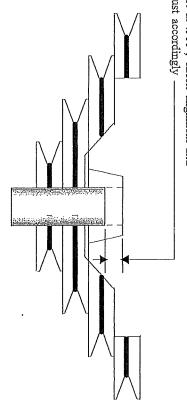
VAC 230

VAC 230

> your pulley for \$50.00.) For technical assistance, call (800) 285-5271. .8755 - .8765. and the keyway needs to be broched. Your old pulley may need to be bored to fit the 7/8" shaft. (We can bore and broch We recommend

We have seen several different pulleys on the J-head mills and there are of your old pulley. Below is a good starting point for aligning your pulley. the proper vertical spacing. probably more out there, so you will have to install and check yours, then set IMPORTANT! The new motor output shaft will not completely fill the bore

adjust accordingly Start at .900", check alignment and



CW

VAC

Cutler Hammer

Drum

I - Baldor motor - VL3514T Parts List:

6 Lead Motor

- 4 10/32 nuts I - Switch adapter plate w/screws attached 1 - Motor adapter plate
- 4 3/8"-16 x 1" hex head bolt

4 - 8/32 x 1/2" flat head screw

4 - 3/8" lock washers Blue wire terminals

Hi-Voltage

H&W Machine Repair and Rebuilding

220 VAC

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www.machinerypartsdepot.com handwtool@gmail.com

230 VAC

SP2SP Conversion 230 VAC w/Cutler Hammer Switch - 4/4/13

Motor to existing Drum Reversing Switch. Directions for wiring Baldor Single Plase

from the motor to the switch. to the drum switch, or run a short, flexable conduit hole in the drum switch to pass wires from the motor Use the adaptor plate as a pattern and drill a 3/4"

120

VAC

diagram. Pull the motor wires through the adaptor plate. Mouni cord using corresponding numbers on the motor numbered motor leads to the drum switch and power the drum switch to the adaptor plate then connect the the adaptor plate to the motor connection box. Mount

3 - Orange 2 - White 4 - Yellow 1 - Blue as as follows: Baldor wire numbers are 8 - Red Black

CA CCW Switch Hammer Cutler Drum 120 VAC

120

VAC

Yel

radom

White L2

Black L1

Power cord (not supplied)

12 Ga.

7a. 18 Amp @ 120 VAC C

120

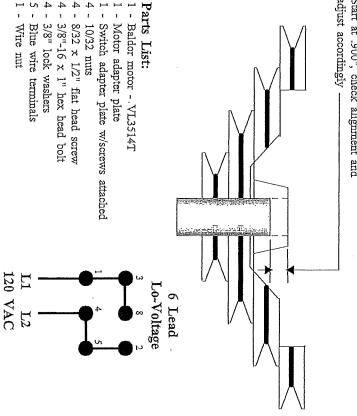
adjust accordingly

VAC

120

We have seen several different pulleys on the J-head mills and there are of your old pulley. your pulley for \$50.00.) For technical assistance, call (800) 285-5271. probably more out there, so you will have to install and check yours, then set .8755 - .8765. and the keyway needs to be broched. the proper vertical spacing. IMPORTANT! Your old pulley may need to be bored to fit the 7/8" shaft. The new motor output shaft will not completely fill the bore Below is a good starting point for aligning your pulley. (We can bore and broch We recommend

Start at .900", check alignment and



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Green

SP2SP Conversion 120 VAC - Cutler Hammer Switch - 4/4/13

Directions Motor to Grainger Drum Switch. for wiring Baldor Single Plase

Pull adapter plate to the junction box on the side of the using the four 8/32 x 1/2" flat head screws, attach the the motor wires through the adaptor plate, then.

motor diagram. and power cord using corresponding numbers on the adapter plate using the two 1/4-20 button head screws of the drum switch. Pull the motor wires through the hole in the bottom Connect the numbered motor leads to the drum switch Attach the drum switch to the

Orange 3 Granger Drum Switch # 2X441A 3 - Orange as follows: 2 - White Baldor wire numbers are 4 - Yellow 1 - Blue Black 5 5 - Black CW Drum Switch Grainger

120VAC SINGLE PHASE

CCW

120 VAC SINGLE PHASE

Start at .900", check alignment and

the proper vertical spacing.

adjust accordingly

of your old pulley. Below is a good starting point for aligning your pulley.

IMPORTANT! The new motor output shaft will not completely fill the bore

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.8755 - .8765. and the keyway needs to be broched.

(We can bore and broch

Your old pulley may need to be bored to fit the 7/8" shaft. We recommend

6 Lead

- I Motor adapter plate

4 - 3/8"-16 x I" hex head bolt

- I Wire nut

Lo-Voltage

12 Ga. 18 Amp (not supplied) Power cord

@ .120 VAC

Black LI

Yellow 4

White 2

Green

- 1 Baldor motor VL3514T
- Switch adapter plate
- 4 10/32 nuts 2 - 1/4"-20 button head screws
- 4 3/8" lock washers 5 - Blue wire terminals

120 VAC L L2

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SP2SP Conversion 120 VAC - Grainger Switch - 4/4/13

Directions for wiring Baldor Single Plase Motor to Grainger Drum Switch.

adapter plate to the junction box on the side of the using the four 8/32 x 1/2" flat head screws, attach the the motor wires through the adaptor plate, then.

motor diagram. and power cord using corresponding numbers on the adapter plate using the two 1/4-20 button head screws of the drum switch. Pull the motor wires through the hole in the bottom Connect the numbered motor leads to the drum switch Attach the drum switch to the

Granger Drum Switch # 2X441A 4 - Yellow 3 - Orange 2 - White as follows Baldor wire numbers are 1 - Blue 8 - Red Black CW W W30 Grainger Drum Switch

230VAC

Green

Start at .900", check alignment and

the proper vertical spacing.

adjust accordingly

of your old pulley. Below is a good starting point for aligning your pulley.

IMPORTANT! The new motor output shaft will not completely fill the bore

We have seen several different pulleys on the J-head mills and there are

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(We can bore and broch

shaft.

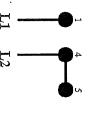
We recommend

230 VAC SINGLE PHASE

SINGLE PHASE

- Parts List: - Baldor motor - VL3514T
- Motor adapter plate Switch adapter plate
- 2 1/4"-20 button head screws
- 4 3/8"-16 x 1" hex head bolts 4 - 10-32 nuts
- 4 3/8" lock washers 7 - Blue wire terminals
- Wire nut

Hi-Voltage 6 Lead



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2200 VAC

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2P2SP Conversion 230 VAC - Grainger Switch - 4/4/13

Power cord (not supplied) 14 Ga. 9 Amp @ 230 VAC E-mail: handwtool@gmail.com

KRAUS A NAIMER

your pulley for \$50.00.) For technical assistance, call (800) 285-5271.

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(We can bore and broch

Directions Motor to Grainger Drum Switch. for wiring Baldor Single Plase

Pull the motor wires through the adaptor plate, then. motor. adapter plate to the junction box on the side of the using the four $8/32 \times 1/2$ " flat head screws, attach the

Pull the motor wires through the hole in the bottom motor diagram. and power cord using corresponding numbers on the Connect the numbered motor leads to the drum switch adapter plate using the two 1/4-20 button head screws. of the drum switch. Attach the drum switch to the

3 - Orange 4 - Yellow 1 - Blue 2 - White Baldor wire numbers are as follows 5 - Black 8 - Red

LENZA Drum OFF PHASE

230 VACSINGLE

Start at .900", check alignment and adjust accordingly .the proper vertical spacing.

Hi-Voltage 6 Lead

SINGLE

Parts List: - Baldor motor - VL3514T

OEM VZNETTEIO

4 - 3/8"-16 x 1" hex head bolts 4 - 10-32 nuts 2 - 1/4"-20 button head screws - Motor adapter plate - Switch adapter plate

7 - Blue wire terminals 4 - 3/8" lock washers

CCW

Switch

VAC

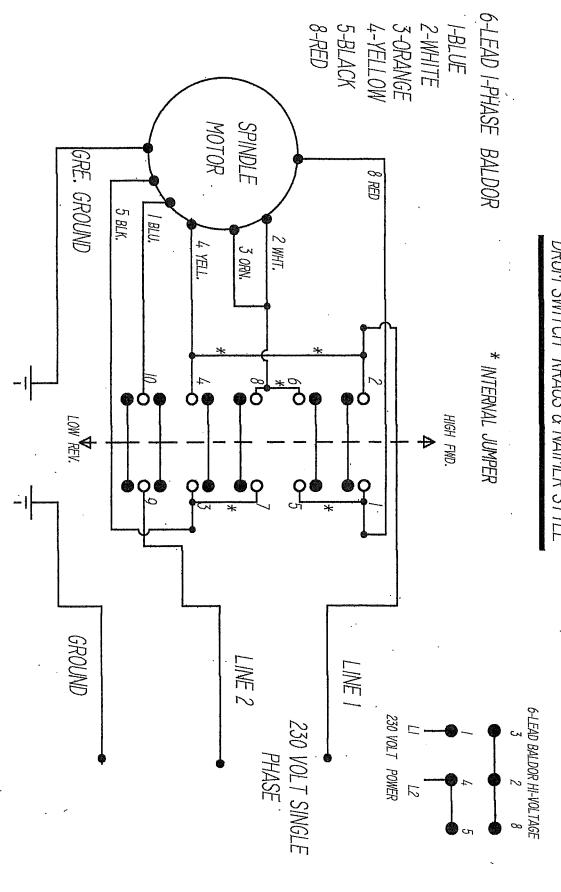
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14 Ga. 9 Amp @ 230 VAC Power cord (not supplied)

Green

2P2SP Conversion 230 YAC - Grainger Switch - 4/4/13

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H Machine Repair