BULLETIN 645-B

HELPFUL HINTS ON WIRING

1. Read the nameplate on your motor. See if it corresponds as to voltage, cycles, phase, etc. with the type of electrical supply in the shop where you are going to use it. Never attempt to operate a motor on a supply other than that specified on motor nameplate.

2. Check over your drum switch. Note whether it is a Cutler-Hammer or a Furnas switch, and select the motor specifications and switch combination on this sheet which corresponds with your equipment.

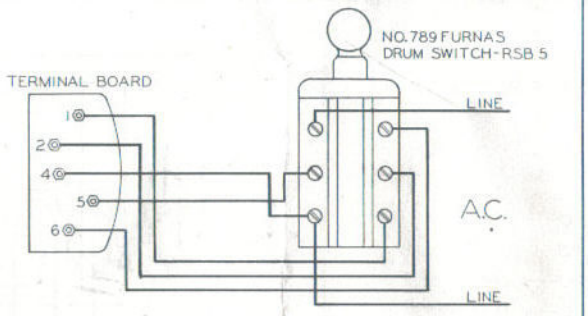
3. Wire the motor, switch and line wires exactly as shown on the diagram. Nearly all the diagrams on this sheet are schematic diagrams, which are the simplest to follow. It is essential that each wire be attached in exactly the position shown on the diagram.

4. Always test the result of your work by applying the current and operating the drum switch several times. If the motor rotates opposite to marking on switch, reverse the wires designated in note which applies to your combination.

The motor should come to speed instantly and operate freely and perfectly in both directions without heating above normal. See nameplate for allowable temperature rise. Stop motor immediately if it does not operate correctly.

5. Soldered connections are recommended as a final operation. All splices should be taped using rubber tape and friction tape over the rubber tape. Take the necessary precautions that no wire in any way is likely to short against another or to cause a short circuit by being pressed against a terminal post when the terminal box cover is reassembled and screwed down.

SOUTH BEND LATHE, INC.
South Bend 22, Indiana

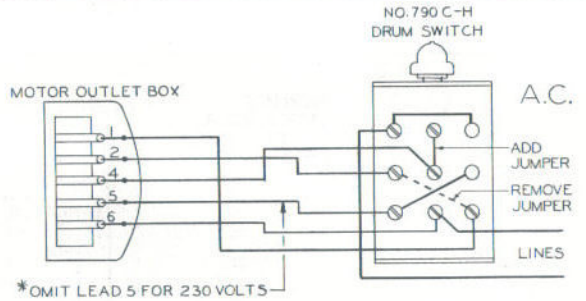


MOTOR-GEN. ELEC.-FORM "G"
TYPE-KC-INSTANT REVERSING
PHASE-SINGLE

INTERCHANGE LEADS 1&2 ALSO 4&6 AT SWITCH TO REVERSE ROTATION.

IF MOTOR HAS EXCESSIVE HUM, INTERCHANGE 1&2 AT SWITCH.

FIG. 1

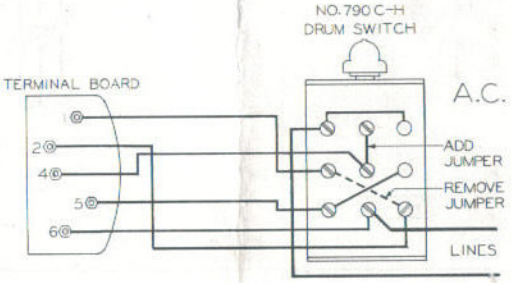


MOTOR-WEST.-CAPACITOR (5-WIRE)
INSTANT REVERSING
TYPE-FJ, VOLTS-115/*230
PHASE-SINGLE
H.P.-1/2

INTERCHANGE LEADS 1&2 ALSO 4&6 AT SWITCH TO REVERSE ROTATION.

IF MOTOR HAS EXCESSIVE HUM, INTERCHANGE 1&2 AT SWITCH.

FIG. 4

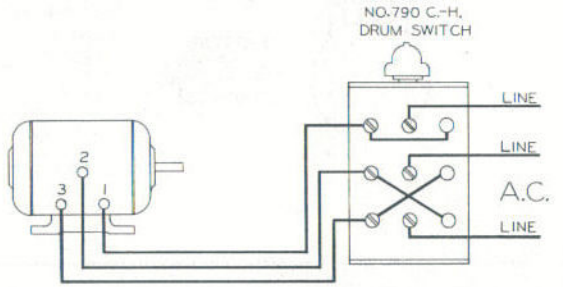


MOTOR-GEN. ELEC.-FORM "G"
TYPE-KC-INSTANT REVERSING
PHASE-SINGLE

INTERCHANGE LEADS 1&2 ALSO 4&6 AT SWITCH TO REVERSE ROTATION.

IF MOTOR HAS EXCESSIVE HUM, INTERCHANGE 1&2 AT SWITCH.

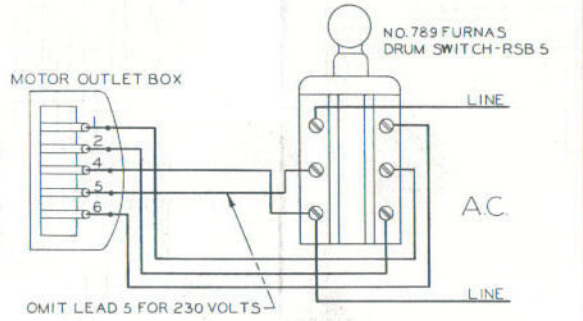
FIG. 2



MOTOR-THREE PHASE
H.P.-1/4 TO 2 INCLUSIVE
SEE DIAGRAM ON MOTOR PLATE
FOR DESIRED OPERATING VOLTAGE.

INTERCHANGE LEADS 2&3 AT SWITCH TO REVERSE ROTATION.

FIG. 5

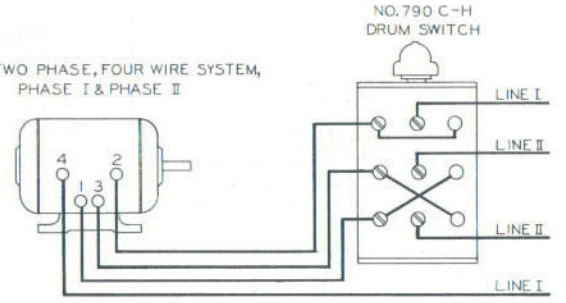


MOTOR-WEST.-CAPACITOR
INSTANT REVERSING
TYPE-FJ, VOLTS-115/*230
PHASE-SINGLE
H.P.-1/2

INTERCHANGE LEADS 1&2 ALSO 4&6 AT SWITCH TO REVERSE ROTATION.

IF MOTOR HAS EXCESSIVE HUM, INTERCHANGE 1&2 AT SWITCH.

FIG. 3



MOTOR-TWO PHASE, FOUR WIRE
SEE DIAGRAM ON MOTOR PLATE
FOR DESIRED OPERATING VOLTAGE.

INTERCHANGE LEADS 1&3 AT SWITCH TO REVERSE ROTATION.

FIG. 6

Form 645-B — Rev. 5-63

These wiring diagrams generally used on larger lathes

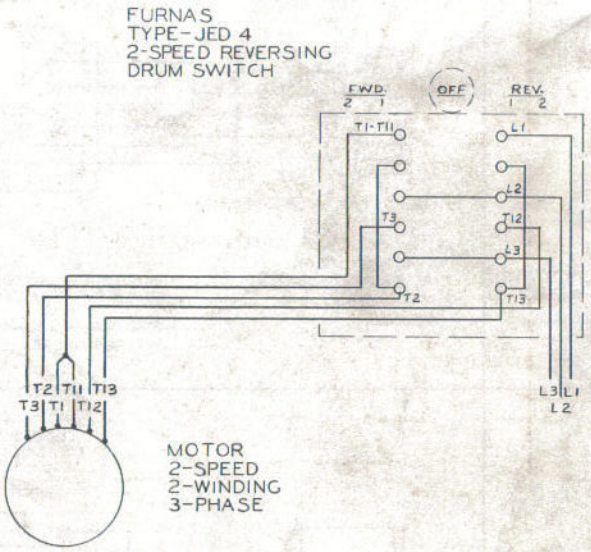


FIG.-7

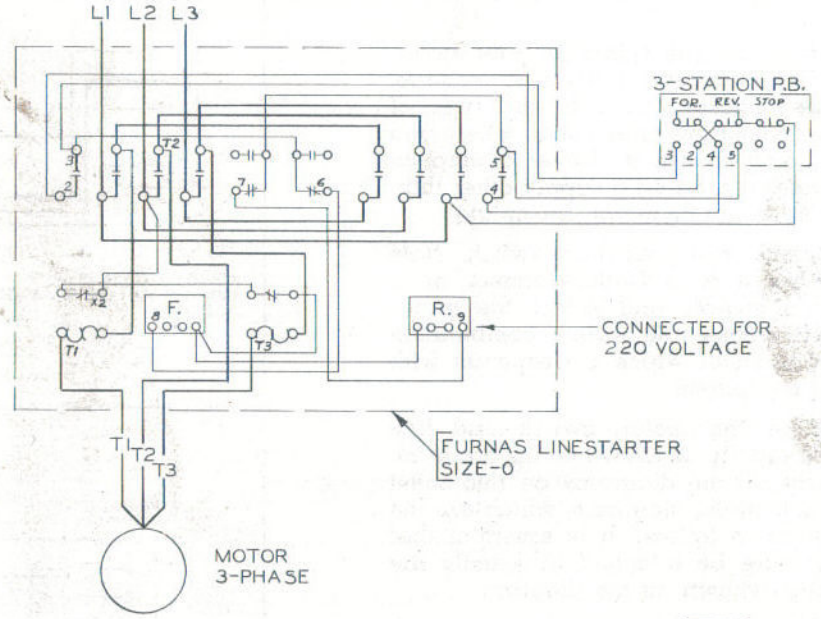
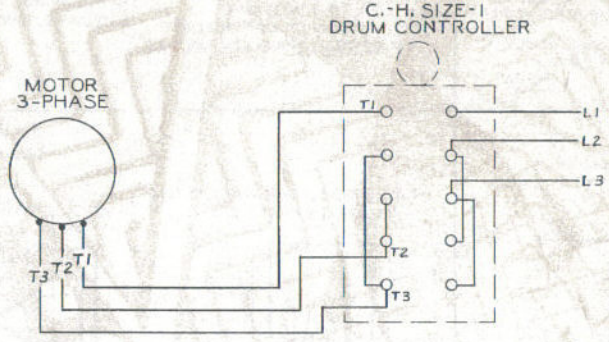


FIG.-9



SEE DIAGRAM ON MOTOR PLATE
FOR DESIRED OPERATING VOLTAGE

INTERCHANGE LEADS 2 & 3 AT
SWITCH TO REVERSE ROTATION

FIG.-8

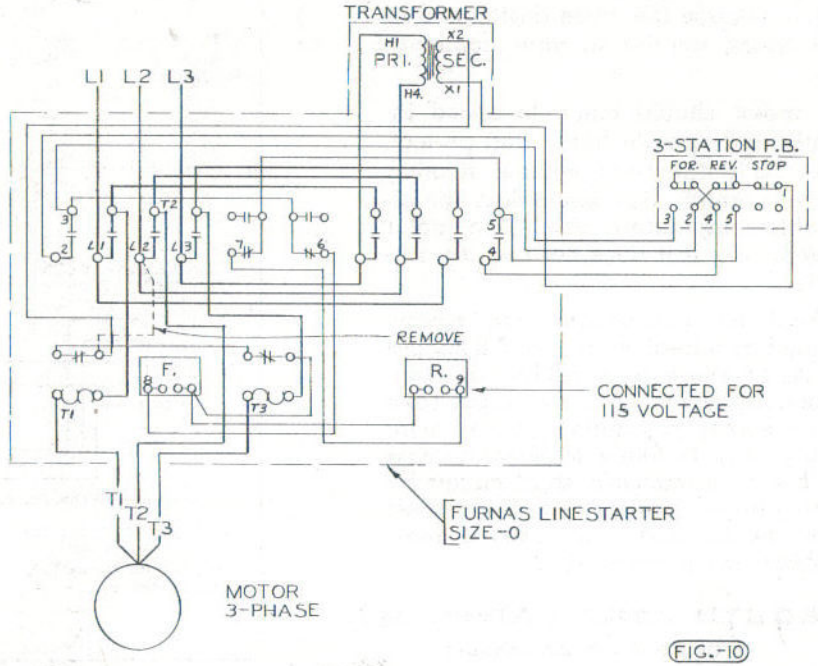


FIG.-10