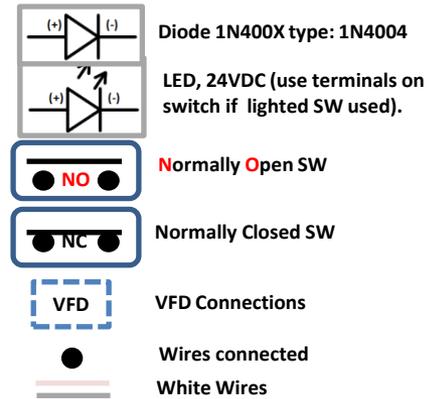
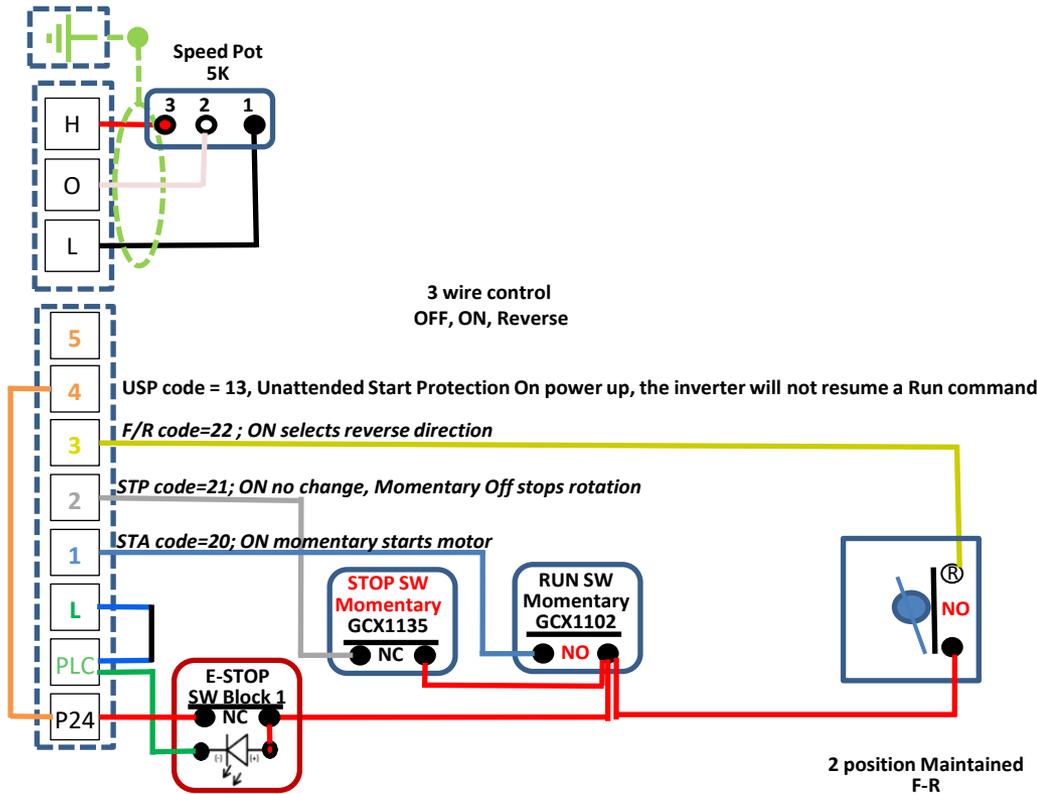


3 Wire Mill Control With Lighted ON E-Stop Switch with Start Protection

Hitachi WJ200 VFD must be wired for source logic
 Mill will NOT stop when running forward and reverse is activated



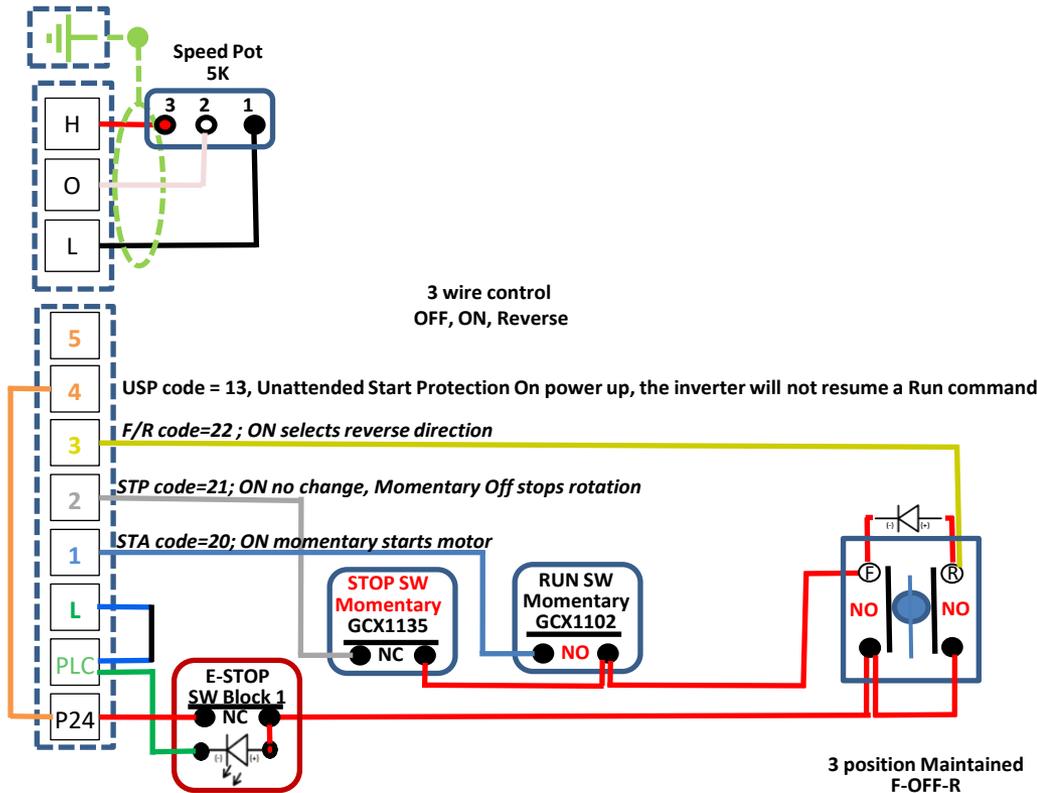
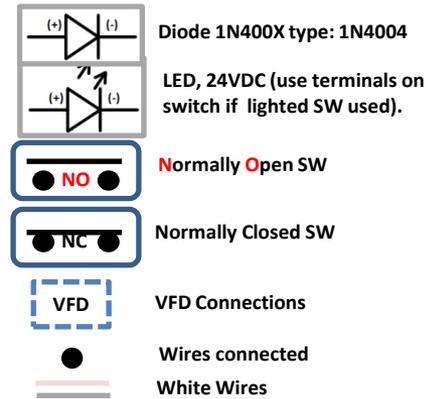
Lighted E-Stop AR22V0L-01E3R OR IDEC AVLW49911D-R-24V
 LED goes on with VFD power and E-Stop not pushed in
 LED in switches is not polarity sensitive
 Jumper cable L to PLC and to LED is fabricated
 Use crimp pins for all VFD logic and speed pot inputs

Machine will not start with switch in the F/R position must cycle through STOP

Use current motor direction control switch and rewire OR Switch GCX1300 Legend ECX1670A-B13

3 Wire Mill Control With Lighted ON E-Stop Switch with Start Protection

Hitachi WJ200 VFD must be wired for source logic
 Mill WILL stop when running forward and reverse is activated



Lighted E-Stop AR22V0L-01E3R OR IDEC AVLW49911D-R-24V
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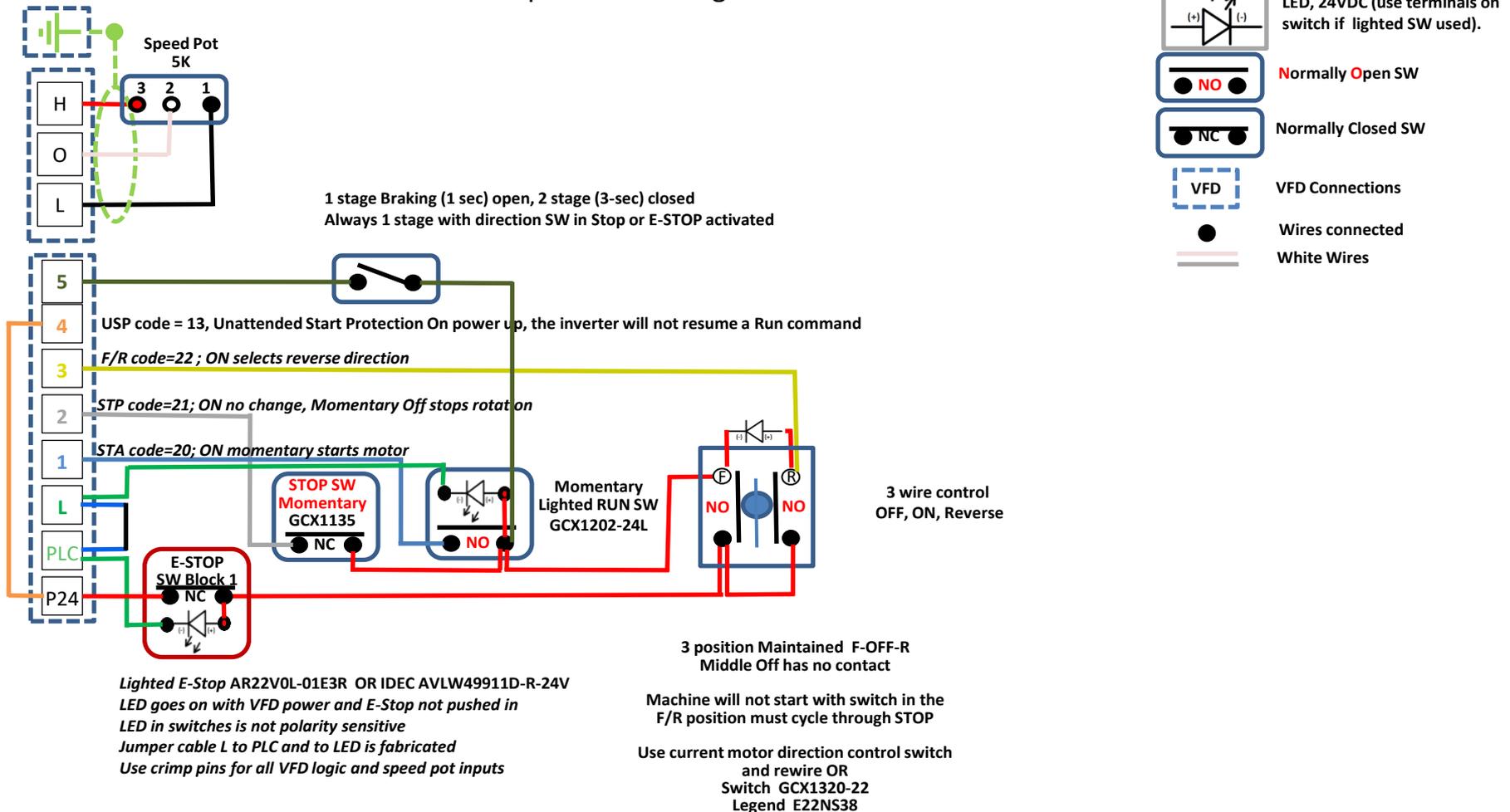
Machine will not start with switch in the F/R position must cycle through STOP

Use current motor direction control switch and rewire OR
 Switch GCX1320-22
 Legend E22NS38

3 Wire Mill Control With Lighted ON E-Stop Switch with Start Protection

Momentary Green Run light is ON when RUN selector in F/R Position, 1 or 2 Stage Braking

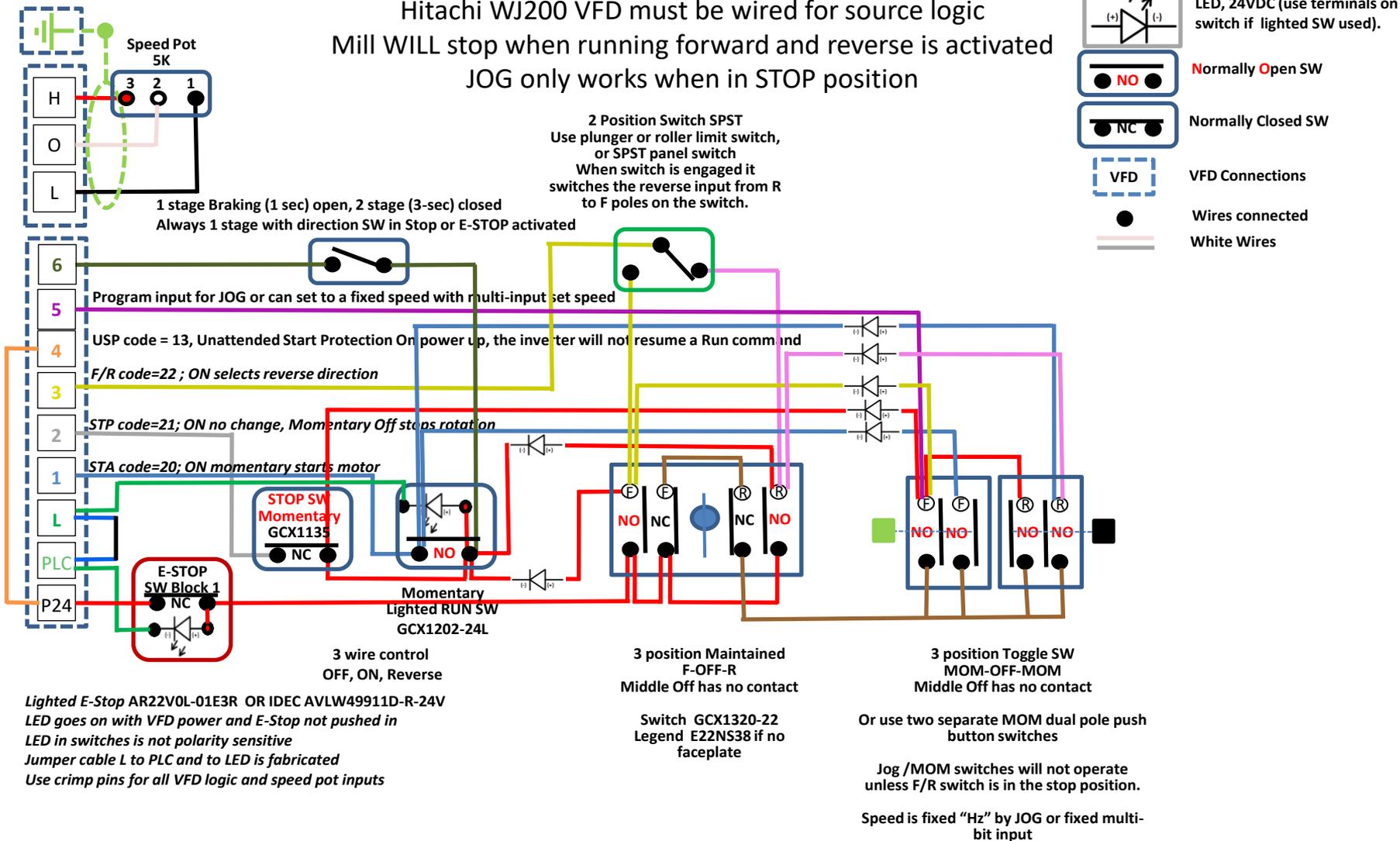
Hitachi WJ200 VFD must be wired for source logic
 Mill WILL stop when running forward and reverse is activated



3 Wire Mill Control With Lighted ON E-Stop Switch with Start Protection

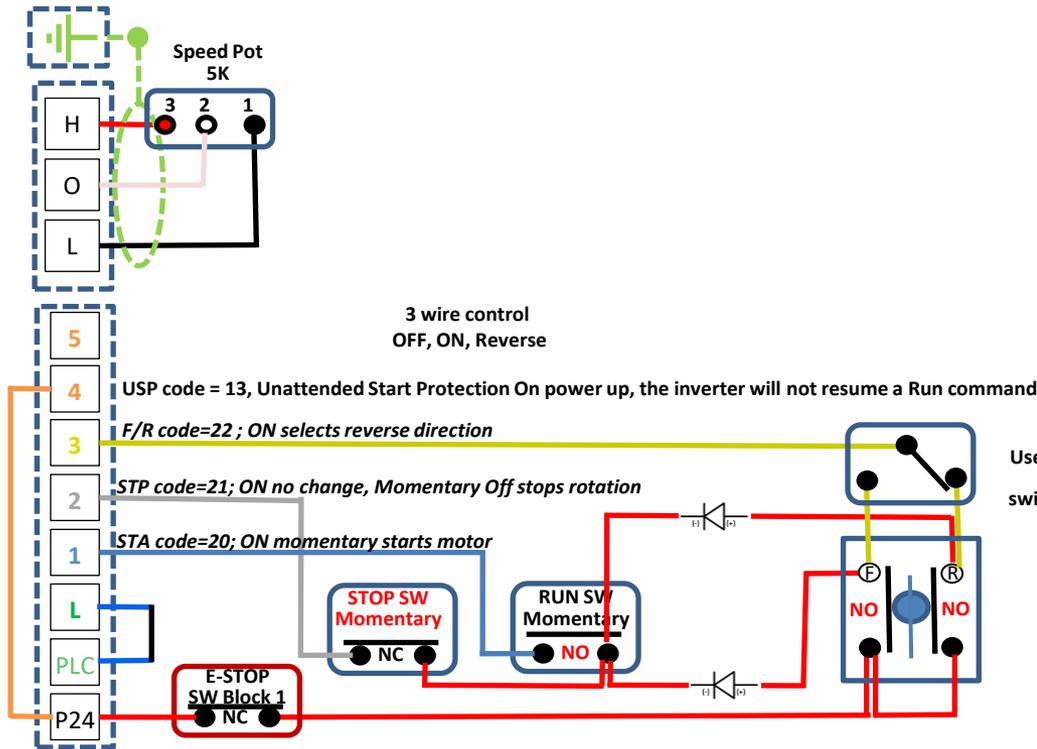
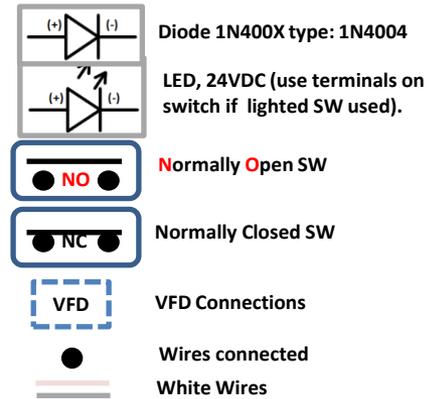
Momentary Green Run light is ON when RUN selector in F/R Position, 1 or 2 Stage Braking, Momentary JOG F/R, Back gear SW

Hitachi WJ200 VFD must be wired for source logic
 Mill WILL stop when running forward and reverse is activated
 JOG only works when in STOP position



Basic 3 Wire Mill Control With E-Stop Switch, no indicator ON light

Hitachi WJ200 VFD must be wired for source logic
 Backgear switch reverses the connections to input 3 (reverse)

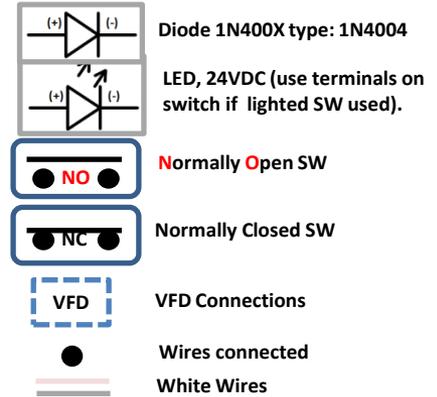
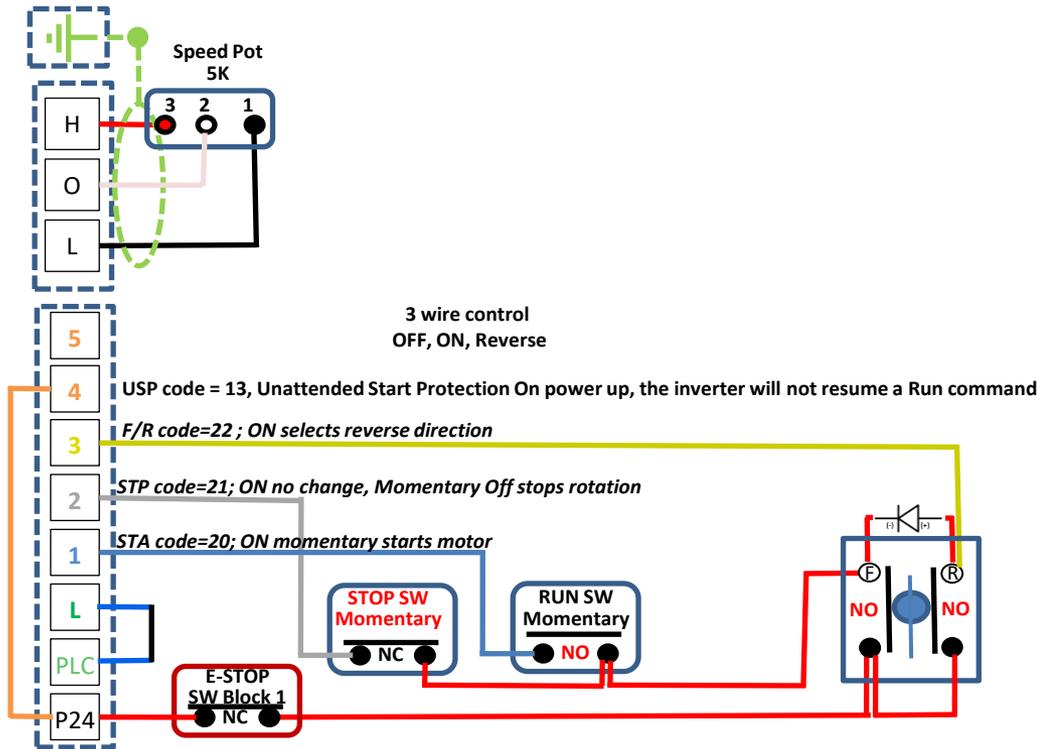


3 position Maintained
F-OFF-R
Middle Off has no contact

Use current motor direction
control switch and rewire OR
Switch GCX1320-22
Legend E22NS38

3 Wire Mill Control With E-Stop Switch, no indicator ON light, with Start Protection

Hitachi WJ200 VFD must be wired for source logic



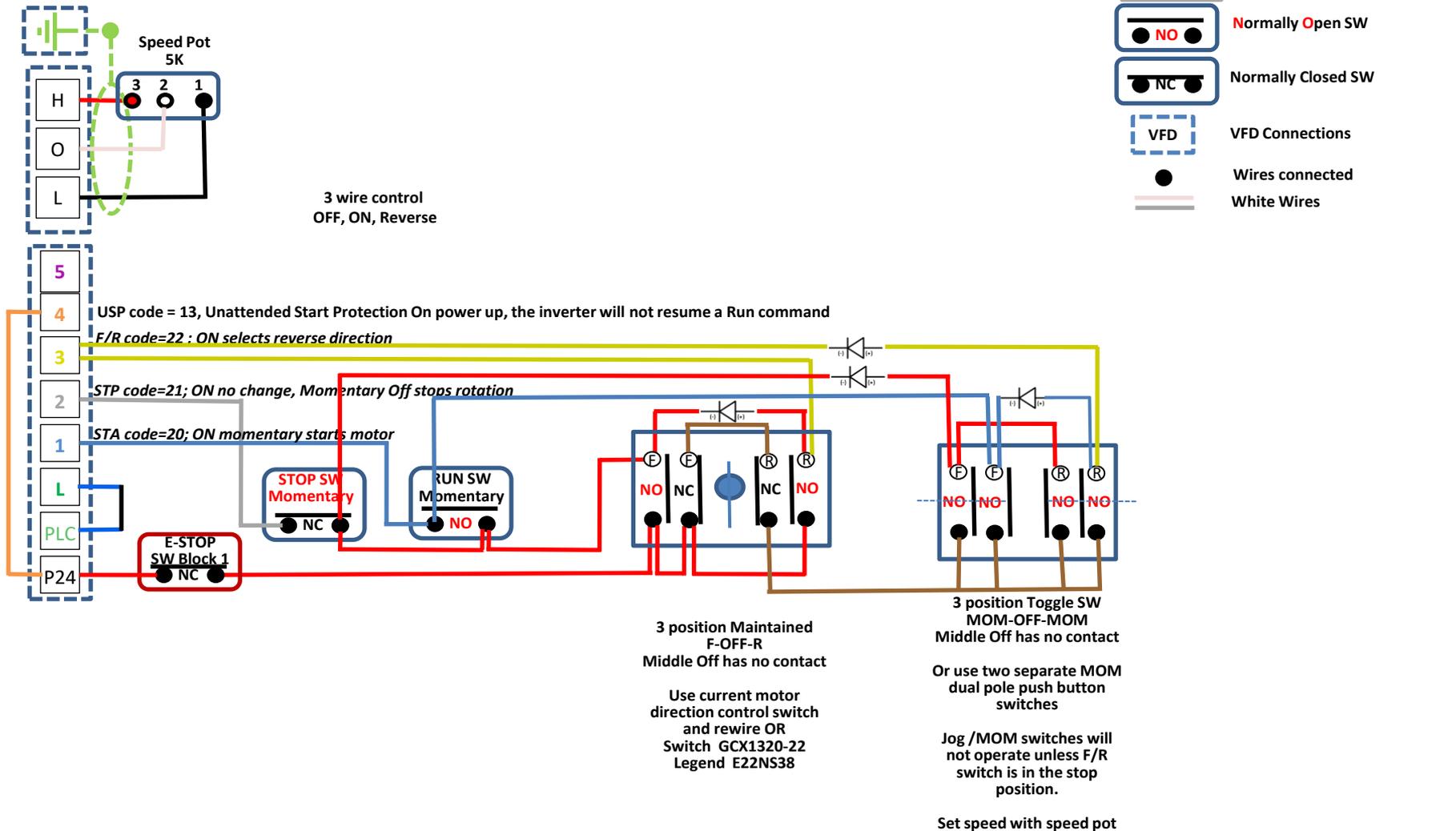
3 position Maintained
F-OFF-R
Middle Off has no contact

Machine will not start with
switch in the F/R position
must cycle through STOP

Use current motor
direction control switch
and rewire OR
Switch GCX1320-22
Legend E22NS38

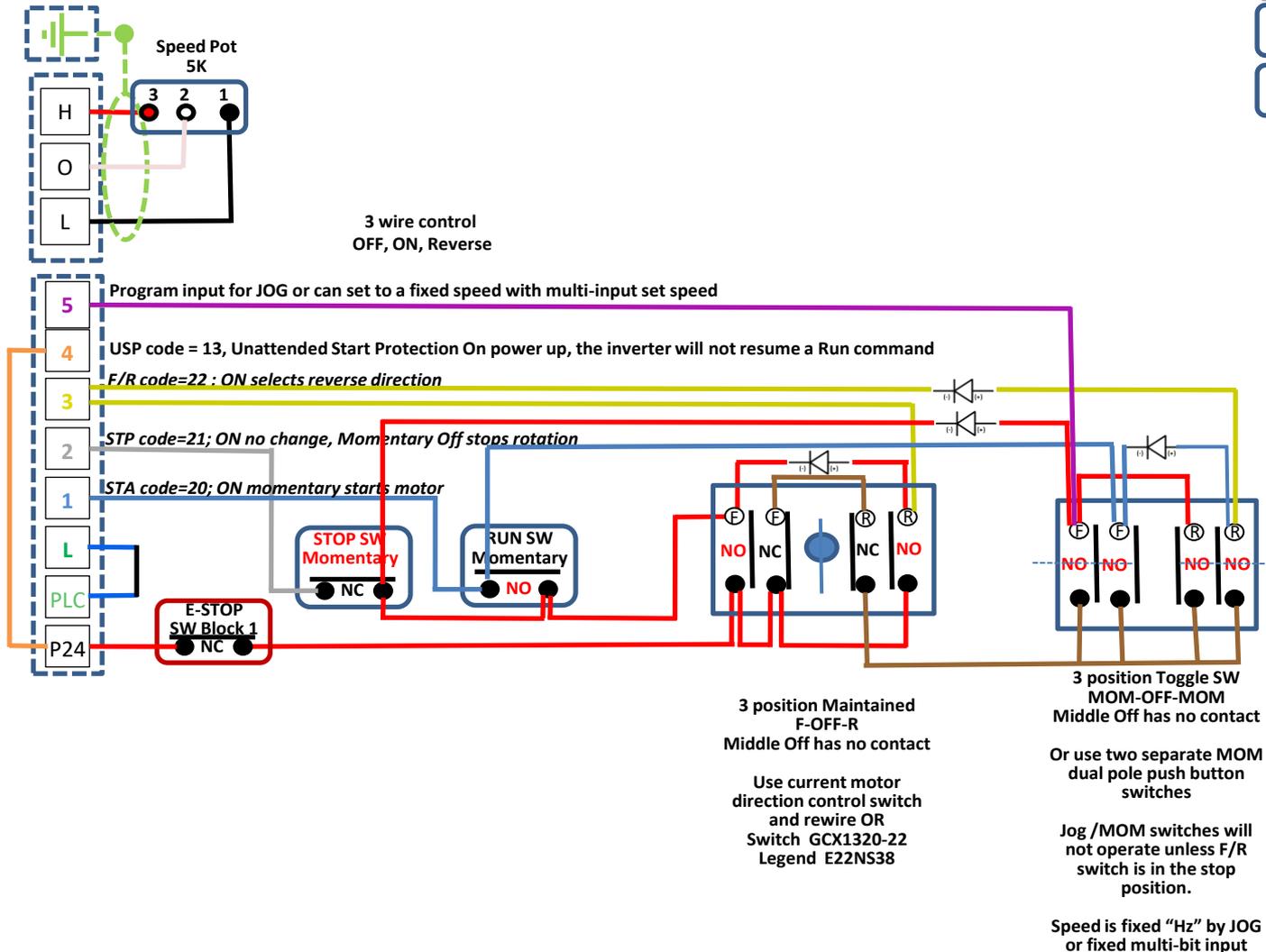
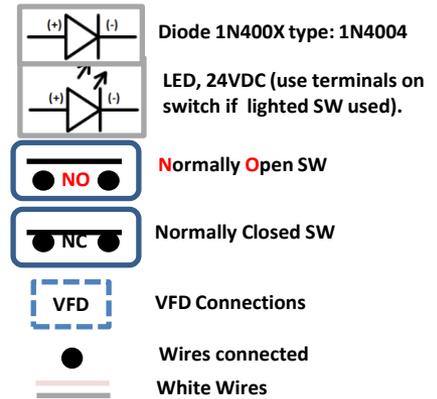
3 Wire Mill Control With E-Stop Switch, no indicator ON light with Start Protection

Hitachi WJ200 VFD must be wired for source logic
Momentary F/R using speed pot for RPM



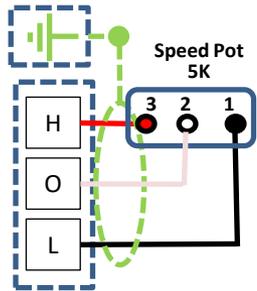
3 Wire Mill Control With E-Stop Switch, no indicator ON light with Start Protection

Hitachi WJ200 VFD must be wired for source logic
Momentary F/R using jog or multispeed input



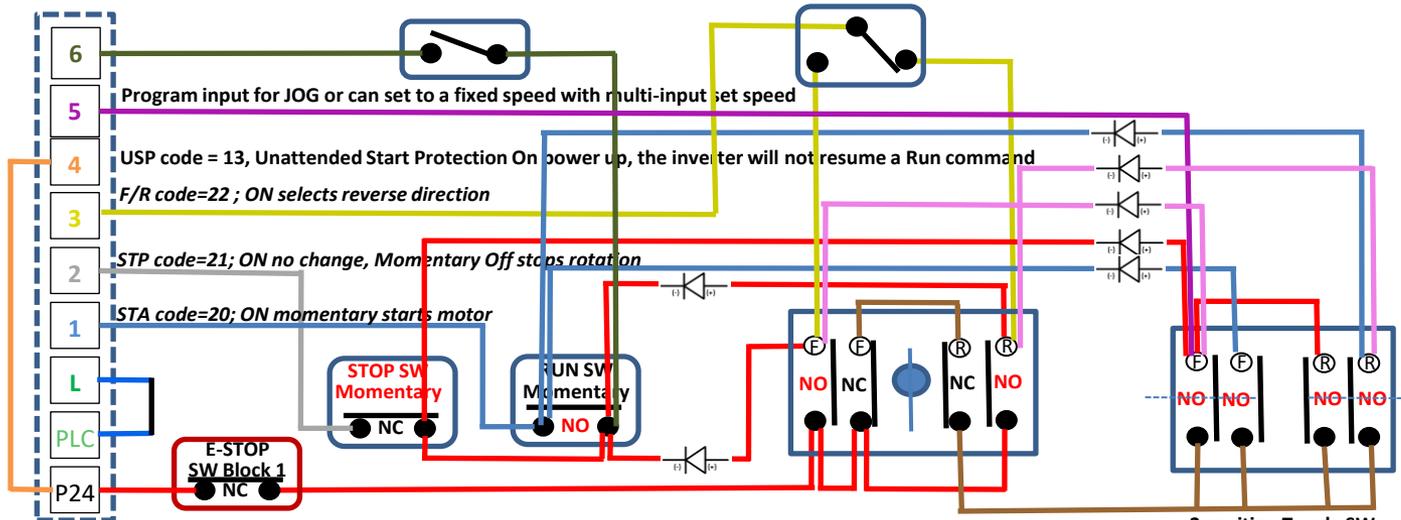
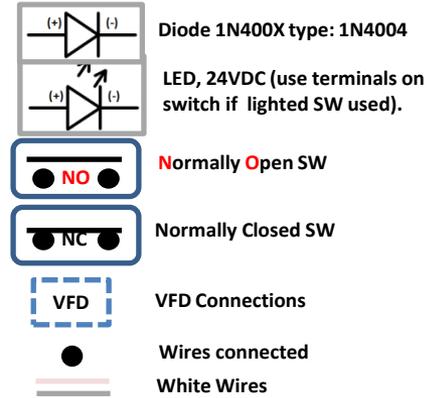
3 Wire Mill Control With E-Stop Switch, no indicator ON light with Start Protection

Hitachi WJ200 VFD must be wired for source logic
 Momentary F/R, Backgear SW, 1/2 Stage Braking
 No Indicator Lights



1 stage Braking (1 sec) open, 2 stage (3-sec) closed
 Always 1 stage with direction SW in Stop or E-STOP activated

Use plunger or roller limit switch,
 When switch is engaged it
 switches the reverse input from R
 to F poles on the switch.



3 wire control
 OFF, ON, Reverse

3 position Maintained
 F-OFF-R
 Middle Off has no contact

Use current motor
 direction control switch
 and rewire OR
 Switch GCX1320-22
 Legend E22NS38

3 position Toggle SW
 MOM-OFF-MOM
 Middle Off has no contact

Or use two separate MOM
 dual pole push button
 switches

Jog /MOM switches will
 not operate unless F/R
 switch is in the stop
 position.

Speed is fixed "Hz" by JOG
 or fixed multi-bit input