SACKETT material handling SYSTEMS, INC
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DESIGN & MANUFACTURE OF MATERIAL HANDLING EQUIPMENT

Upgrade to Hall Effect Joystick 7097A

The Hall Effect Joystick does not have the mechanical electrical contact that a potentiometer type joystick does, so provides longer, more consistent performance. Upgrading also eliminates the need to use the Pulse Width Modulator power supply for joystick power, as the Hall Effect version uses 24VDC input power to output the 0 to 5 VDC signal required. The Hall Effect joystick replaces the terminals of the pot version with 12" color coded leads. The Blue and White leads of the Hall Effect joystick are not used and should be taped off to eliminate any shorting hazard. Wire nuts can be used to connect to existing wiring. The rubber boot of the Hall Effect joystick extends through the mounting hole, so the old boot with hose clamp can be used or the mounting hole needs to be enlarged to 1-1/2" - mounting screw holes are located the same.

Lead	Description
Red	24VDC power to joystick
Black	DC Common to joystick
Yellow	0 to 5 VDC signal back to Pulse Width Modulator card (D805125) or PLC (806830)
Blue, White	Not used.

Two wiring diagrams showing both 7097 (potentiometer) and 7097A (Hall Effect) details are provided. The D805125 series Rexroth controller schematic is for LTPC style Hydra Handlers that were built prior to mid 2005. The 806830 series Centurion schematic applies to Hydra Handlers with PLC based controls.

7097 (potentiometer version)

7097A (Hall Effect version)
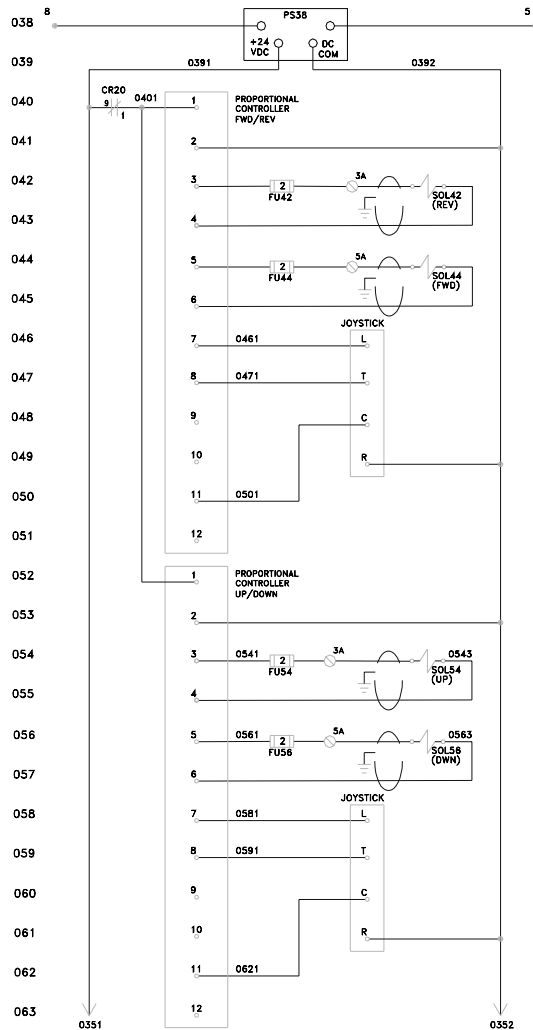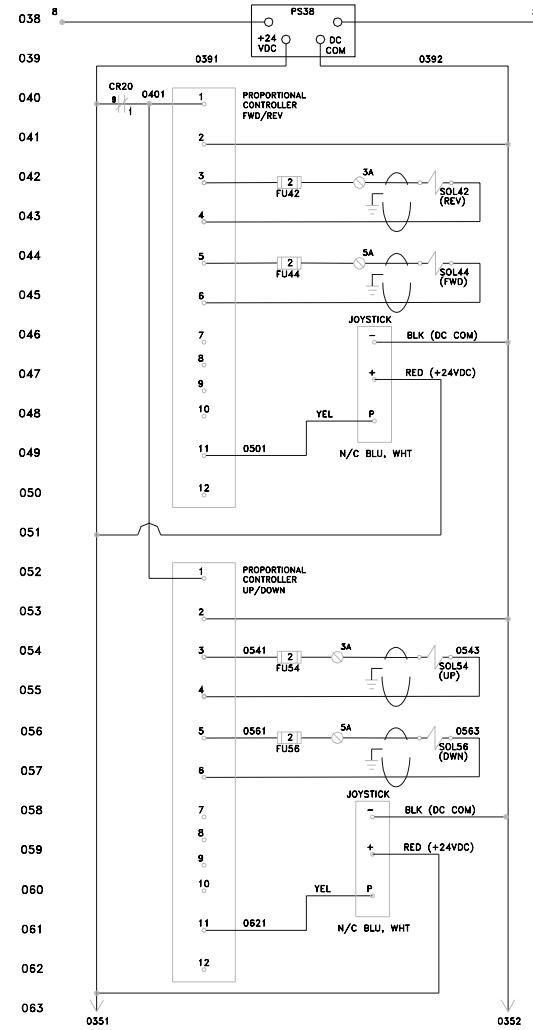

LTPC style HHA

Centurion HHA

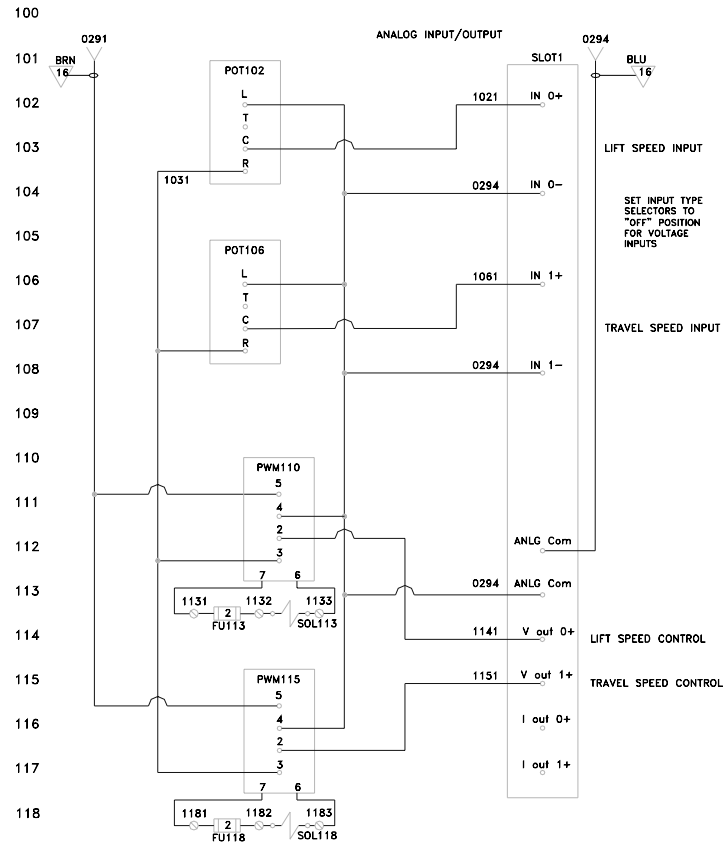# D805125 SERIES REXROTH LTPC CONTROLLERS

7097 JOYSTICK

7097A JOYSTICK

806830 SERIES CENTURION CONTROLLERS

7097 JOYSTICK

ANALOG INPUT/OUTPUT

POT102
L
T
C
R

1031

POT106
L
T
C
R

SLOT1

0291
BRN
16

0294
BLU
16

1021 IN 0+   LIFT SPEED INPUT
0294 IN 0−   SET INPUT TYPE SELECTORS TO "OFF" POSITION FOR VOLTAGE INPUTS
1061 IN 1+
0294 IN 1−   TRAVEL SPEED INPUT

PWM110
5
4
2
3
7 6

1131 1132 1133
2
FU113   SOL113

PWM115
5
4
2
3
7 6

1181 1182 1183
2
FU118   SOL118

ANLG Com
0294 ANLG Com
1141 V out 0+   LIFT SPEED CONTROL
1151 V out 1+   TRAVEL SPEED CONTROL
I out 0+
I out 1+

7097A JOYSTICK

ANALOG INPUT/OUTPUT

HE101
−
+
P
N/C BLU and WHT

HE104
−
+
P
N/C BLU and WHT

SLOT1

0281
BRN
16

0294
BLU
16

RED   BLK
      YEL

RED   BLK
      YEL

1021 IN 0+   LIFT SPEED INPUT
0294 IN 0−
1051 IN 1+
0294 IN 1−   TRAVEL SPEED INPUT

SET INPUT TYPE SELECTORS TO "OFF" POSITION FOR VOLTAGE INPUTS

ON
1 2

PWM110
5
4
2
3
7 6

1131 1152 1133
2
FU113   SOL113

PWM115
5
4
2
3
7 6

1181 1182 1183
2
FU118   SOL118

ANLG Com
0294 ANLG Com
1141 V out 0+   LIFT SPEED CONTROL
1151 V out 1+   TRAVEL SPEED CONTROL
I out 0+
I out 1+