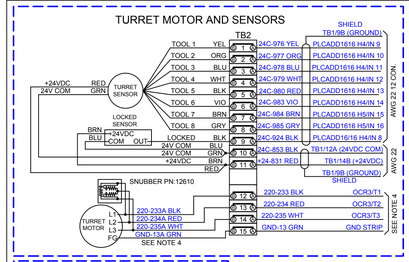
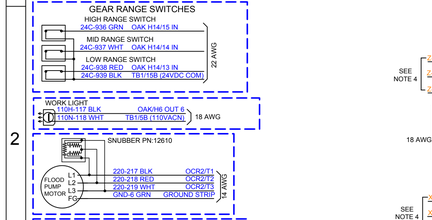
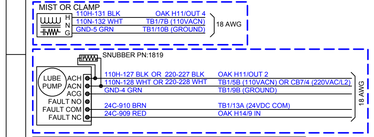


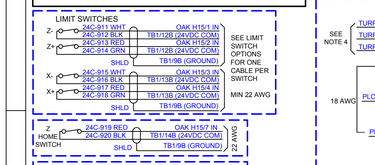


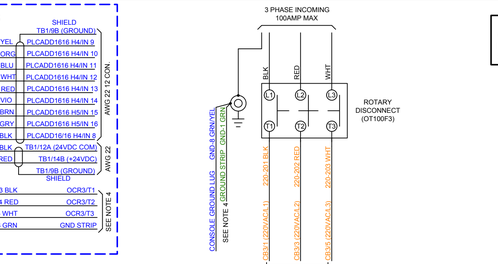


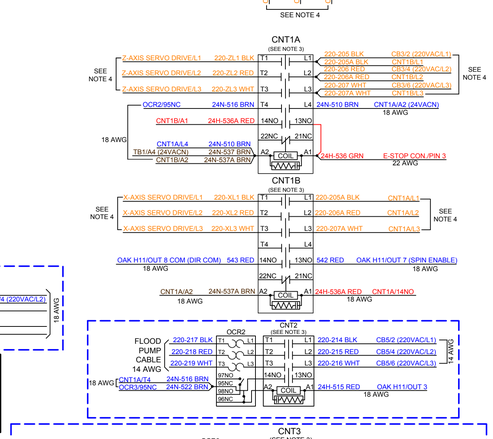
NOTE 2

110VAC LUBE PUMP
Wire 110H-126 BLK connects from TB1/2B to OAK H11/OUT 2 COM.
Wire 110H-127 BLK connects to OAK H11/OUT 2.
Wire 110N-128 WHT connects to TB1/5B.
Wire GND-4 GRN connects to GND STRIP.

220VAC LUBE PUMP
Wire 220-226 BLK connects from CB7/2 to OAK H11/OUT 2 COM.
Wire 220-227 BLK connects to OAK H11/OUT 2.
Wire 220-228 WHT connects to CB7/4.
Wire GND-4 GRN connects to GND STRIP.







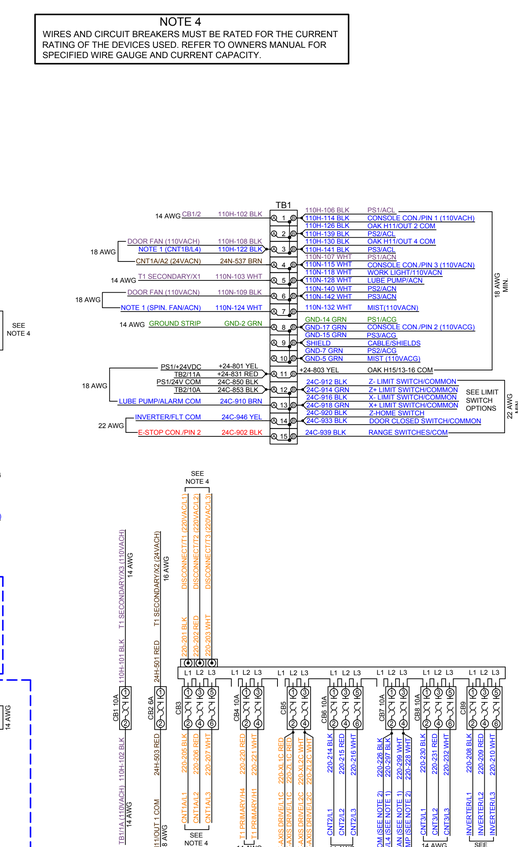
NOTE 3

ALL CONTACTOR COILS REQUIRE A SNUBBER, EITHER CONTACTOR MANUFACTURERS RECOMMENDED SNAP ON SNUBBER OR CENTROID PN:1819 EXTERNAL QUENCHARC SNUBBER.

PART	(MFG PN:)	LOCATION
CB1	(NB1-D10-1P)	C3
CB2	(NB1-D6-1P)	C3
CB3	(SEE NOTE 4)	C3
CB4,CB7	(NB1-D10-2P)	D3
CB5	(SEE NOTE 4)	D3
CB6, CB8	(NB1-D10-3P)	D3
CB9	(SEE NOTE 4)	D3
CNT1A,CNT1B	(LC1D7408B7)	B2
CNT2	(LC1K0610B7)	B3
CNT3, CNT4	(LC2K0601B7)	B3:B4
DISCONNECT	(OT100F3)	B1
DOOR CLOSED SWITCH		A4
DOOR FAN		H4
E-STOP CONNECTOR		B5
E-STOP CON. PENDANT		E6
E-STOP SWITCH		B5
E-STOP SWITCH CONSOLE		B6
FLOOD PUMP MOTOR		A2
GROUND LUG		B1
GROUND STRIP		B4
GEAR RANGE SWITCHES		A2
INVERTER		H1
OPERATOR CONTROL PANEL		E6
LIMIT SWITCHES		A3
LIMIT SWITCH OPTIONS		G6
LUBE PUMP		A3
MIST OR CLAMP SOLENOID		A2
MPG CABLE		E6,F6
NOTE 1		H2
NOTE 2		A3
NOTE 3		B2
NOTE 4		C1
NUC	(PN:8520)	B6
OAK	(PN:13135)	E1-F4
OCR2	(LR2K0310)	B2
OCR3	(SEE NOTE 4)	B3
PC	(PN:11084)	B6,C6
PLCADD1616	(PN:11025)	G2 - H4
PROBE CABLE	(PN:11211)	F6
PS1	(RQ-65D)	E4
PS2	(S-25-24)	E5
PS3	(RT-50B)	A4
SERVO DRIVES		F4-G5
SNUBBER FOR CNT1	(LAD4RCE)	B2
SNUBBER FOR CNT2	(LAD4KE1B)	B3
SPINDLE COOLING FAN		H2
SPINDLE MOTOR		H1
T1	(PN:4953)	C4
TB1		D1,D2
TURRET MOTOR AND SENSORS		A1
WORK LIGHT		A2
X-AXIS BRAKE CONNECTOR		E5
Z-HOME SWITCH		A4

NOTE 4

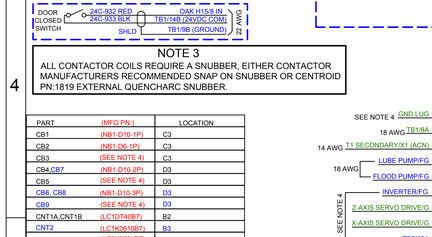
WIRES AND CIRCUIT BREAKERS MUST BE RATED FOR THE CURRENT RATING OF THE DEVICES USED. REFER TO OWNERS MANUAL FOR SPECIFIED WIRE GAUGE AND CURRENT CAPACITY.

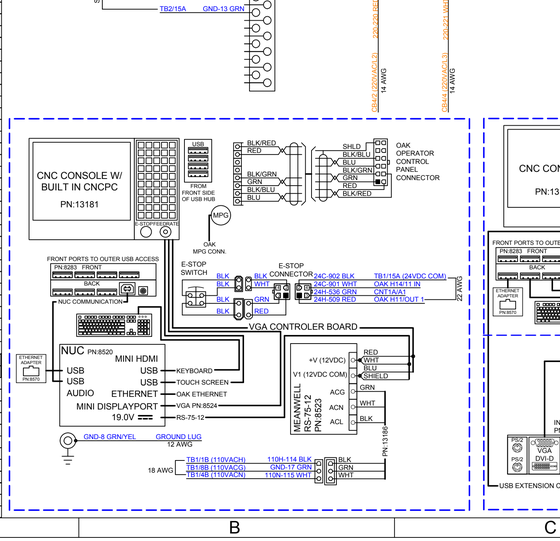


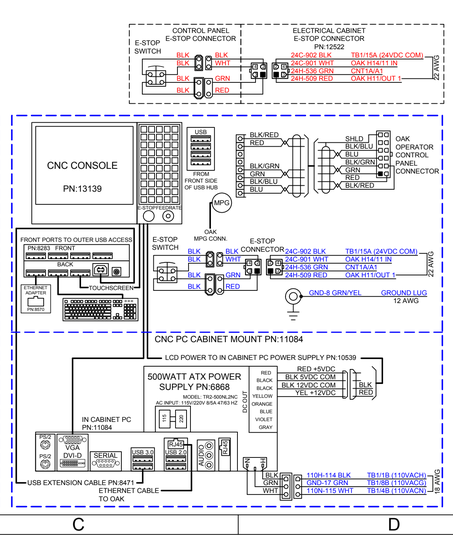
NOTE 1

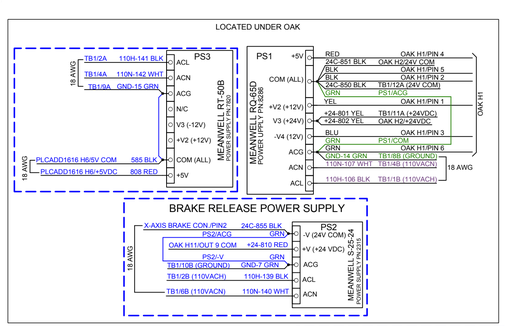
110VAC SPINDLE COOLING FAN
110H-122 BLK connects from PLCADD1616 H1/OUT 3 COM to TB1/3A. Wire 110H-123 BLK connects to PLCADD1616 H1/OUT 3. Wire 110N-124 WHT connects to TB1/7A.

220VAC SPINDLE COOLING FAN
220-297 BLK connects from CB7/2 to PLCADD1616 H1/OUT 3 COM. Wire 220-298 BLK connects to PLCADD1616 H1/OUT 3. Wire 220-299 WHT connects to CB7/4.









E-STOP CONNECTIONS ARE SHOWN IN RED
OPTIONAL CONNECTIONS ARE SHOWN IN BLUE
GROUND CONNECTIONS ARE SHOWN IN GREEN
110VAC CONNECTIONS ARE SHOWN IN VIOLET
3 PHASE CONNECTIONS ARE SHOWN IN ORANGE
24VAC CONNECTIONS ARE SHOWN IN BROWN

SUGGESTED WIRE CURRENT CAPACITY
STRANDED MTW OR EQUIVALENT

18 AWG - UP TO	6A
16 AWG - UP TO	8A
14 AWG - UP TO	15A
12 AWG - UP TO	20A
10 AWG - UP TO	30A
8 AWG - UP TO	40A
6 AWG - UP TO	60A

LIMIT SWITCH OPTIONS

ONE CABLE PER SWITCH		ONE CABLE PER AXIS	
X- LIMIT	RED	X- LIMIT	WHITE
X- COMMON	BLACK	X- COMMON	BLACK
X+ LIMIT	RED	X+ LIMIT	WHITE
X+ COMMON	BLACK	X+ COMMON	GREEN
Z- LIMIT	WHITE	Z- LIMIT	WHITE
Z- COMMON	BLACK	Z- COMMON	BLACK
Z+ LIMIT	RED	Z+ LIMIT	RED
Z+ COMMON	BLACK	Z+ COMMON	GREEN

All limit switch cables minimum 22AWG shielded. All shields grounded

REV	DATE	DESCRIPTION	BY
1	10-06-2016	INITIAL RELEASE	CEM

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Title
Lathe, 220VAC, OAK, Yaskawa Drives, Generic Inverter (VFD), 8 Tool Electric Turret

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