SPINDLE FAN
2882 RED — TB2/1C (GP OUT 10)
2371 WHT — TB2/2C (230VAC/L2)

SPINDLE MOTOR
L1 — 24 RED — INVERTER/T1
L2 — 25 WHT — INVERTER/T2
L3 — 26 BLK — INVERTER/T3
FG — GND YEL/GRN — INVERTER/G

WORK LIGHT
1231 BRN — TB2/6C (GP OUT 11)
1503 BLU — TB2/9C (110VACN)
GND YEL/GRN — TB2/12C (GROUND)
18 AWG

DOOR CLOSED
8217 WHT — TB2/27C (24V COM)
8641 RED — TB2/23C (GP 14 IN)

CLAMPED
8731 RED — TB2/31C (ADD 3 IN)
8321 WHT — TB2/39C (24V COM)
SHLD — TB2/42C (GROUND)

UNCLAMPED
8741 RED — TB2/32C (ADD 4 IN)
8321 WHT — TB2/39C (24V COM)
SHLD — TB2/42C (GROUND)

RELEASE
8751 RED — TB2/33C (ADD 5 IN)
8322 WHT — TB2/39D (24V COM)
SHLD — TB2/42C (GROUND)

TOOL COUNTER
10-30VDC COM OUT — BRN — 8121 YEL — TB2/41C (+24VDC)
BLU — 8323 BLU — TB2/40C (24V COM)
BLK — 8791 BLK — TB2/35C (ADD 9 IN)
8801 WHT — TB2/36C (ADD 10 IN)
8811 RED — TB2/37C (ADD 11 IN)
SHLD — TB2/42D (GROUND)

CAROUSEL OUT
10-30VDC COM OUT — BRN — BLU — BLK

CAROUSEL OUT
10-30VDC COM OUT — BRN — BLU — BLK

TOOL UNCLAMP
1261 BRN — TB2/44C (GP/OUT 14)
1511 BLU — TB2/47C (110VACN)
GND YEL/GRN — TB2/49C (GROUND)

CAROUSEL OUT
1281 BRN — TB2/45C (ADD/OUT 5)
1512 BLU — TB2/47D (110VACN)
GND YEL/GRN — TB2/49D (GROUND)

CAROUSEL IN
1291 BRN — TB2/46C (ADD/OUT 4)
1513 BLU — TB2/48C (110VACN)
GND YEL/GRN — TB2/50C (GROUND)

LUBE PUMP
1221 BLK — TB2/4C (GP OUT 2)
102B RED — TB2/5C (110VACH)
1502 WHT — TB2/8D (110VACN)
GND GRN — TB2/11D (GROUND)
FAULT NO
FAULT COM — 8312 BRN — TB2/24D (24V COM)
FAULT NC — 8591 YEL — TB2/21C (GP 9 IN)

LIMIT SWITCHES
X- — 8511 BLK — TB2/15C (GP 1 IN)
8313 WHT — TB2/25C (24V COM)
X+ — 8521 RED — TB2/16C (GP 2 IN)
8313 GRN — TB2/25C (24V COM)
TB2/29C (GND)
Y- — 8531 BLK — TB2/17C (GP 3 IN)
8314 WHT — TB2/25D (24V COM)
Y+ — 8541 RED — TB2/18C (GP 4 IN)
8314 GRN — TB2/25D (24V COM)
TB2/29D (GND)
Z- — 8551 BLK — TB2/19C (GP 5 IN)
8315 WHT — TB2/26C (24V COM)
Z+ — 8561 RED — TB2/20C (GP 6 IN)
8315 GRN — TB2/26C (24V COM)
TB2/30C (GND)

LOW AIR
8831 BLK — TB2/38C (ADD 13 IN)
8122 WHT — TB2/41D (+24VDC)
SHLD — TB2/43C (GROUND)

SPINDLE CHILLER
L1 — 70A RED
L2 — 71A WHT
L3 — 72A BLK
FG — GND GRN
14 AWG
NC — SHLD
C — WHT
NO — RED
AT PRESURE
22 AWG

FLOOD PUMP MOTOR
L1 — 61A RED
L2 — 62A WHT
L3 — 63A BLK
FG — GND GRN

T1
TB1/5B (230VAC/L2) — 222 WHT — 0
200
220
240
F21/B (230VAC/L1) — 261 RED — TB2/7B — 150 WHT
110VAC: 0, 100 BLK, 110
24VAC: 0, 551 BRN, 24
F31/A — TB1/9A — F51/A — 500 RED — GND STRIP — GND GRN — G

CNT12/L1 — 1 RED — CNT1/L1 — 4 RED — TB1/2A — 201 RED
CNT12/L2 — 2 WHT — CNT1/L2 — 5 WHT — TB1/5A — 221 WHT
CNT12/L3 — 3 BLK — CNT1/L3 — 6 BLK
INVERTER/G — GND YEL/GRN
GND STRIP — GND YEL/GRN

DOOR FAN 1
1041 BLK — TB2/7C (110VACH)
1509 BLK — TB2/10C (110VACN)

DOOR FAN 2
1042 BLK — TB2/7D (110VACH)
1510 BLK — TB2/10D (110VACN)

CNT2 — DISCONNECT/T1 — 7 RED — DISCONNECT/T2 — 8 WHT — DISCONNECT/T3 — 9 BLK — GPIO4D H1/OUT 3 — 522 RED
CNT3 — 525 RED
CNT6 — 528 RED
CNT14
OCR2 FLOOD — 61 RED — 62 WHT — 63 BLK — FLOOD PUMP CON/PIN A — FLOOD PUMP CON/PIN B — FLOOD PUMP CON/PIN C
CNT1A/14NO — 571 BRN
OCR3/95NC — 572 BRN
OCR3 CAROUSEL MOTOR — TB3/11C (CAROUSEL MTR./L1) — 64 RED
TB3/11B (CAROUSEL MTR./L2) — 65 WHT
TB3/12B (CAROUSEL MTR./L3) — 66 BLK
OCR2/95NC — 572 BRN
OCR6/95NC — 574 BRN
CNT4/A2 — 582 BRN
PLCADD1616 H1/OUT 8 NO — 523O RED
PLCADD1616 H1/OUT 8 NC — 523C RED
OCR3/96NC — 582 BRN
OCR6 CHILLER — CHILLER CON/PIN A — 70 RED — CHILLER CON/PIN B — 71 WHT — CHILLER CON/PIN C — 72 BLK
OCR3/95NC — 574 BRN — 564 BRN

+V (+24 VDC) — 801 YEL — TB1/12A
-V (24V COM) — 821 BLU — TB1/17A
ACG — GND GRN — GND STRIP
PS4 ACN — 225 WHT — TB1/7A (230VAC/L2)
ACL — 205 RED — TB1/3A (230VAC/L1)

PS2
GND STRIP — GND GRN — ACG
TB1/6A (230VAC/L2) — 223 WHT — ACN
TB1/2A (230VAC/L1) — 203 RED — ACL
-12 VDC — VIO
12V COM — GRY
12V COM — GRY
+12 VDC — ORG
5V COM — BLK
5V COM — BLK
+5VDC — RED
+5VDC — RED
DC POWER TO MPU11

PS3
GND STRIP — GND GRN — ACG
TB1/6B (230VAC/L2) — 224 WHT — ACN
TB1/2B (230VAC/L1) — 204 RED — ACL
-12 VDC — VIO
12V COM — GRY
12V COM — GRY
+12 VDC — ORG
5V COM — BLK
5V COM — BLK
+5VDC — RED
+5VDC — RED
DC POWER TO GPIO4D

DELTA VFD-VE W/PG-02L
A0 VA0 B0 VB0 Z0 VZ0 — A1 VA1 B1 VB1 Z1 VZ1 DCM VP A2 VA2 B2 VB2
GPIO4D H6/ANALOG COMMON — 945 WHT
GPIO4D H6/SPINDLE ANALOG — 944 RED
GPIO4D H1/OUT 5 — 941 GRN
GPIO4D H1/OUT 8 NO — 942 WHT
PLCADD1616 H5/2 IN (ORIENTED) — 950 PNK
TB1/17B (24V COM) — 822 BLU
MRA RA RC — MRC RB — MO1 MO2 DCM REV — MI1 MI2 MI3 MI4 MI5 MI6 — DFM +10V AVI ACI AFM AUI ACI GND
GPIO4D H9/10 IN — 947 ORG
PLCADD1616 H5/1 IN (ZERO SPEED) — 948 RED
GPIO4D H1/OUT 5 COM — 940 BLU
GPIO4D H1/OUT 8 NC — 943 BLK
GPIO4D H2/OUT 12 (ORIENT) — 949 BRN
FG — R/L1 S/L2 T/L3 — +1 +2/B1 B2 — U/T1 V/T2 W/T3 FG
GND LUG — GND YEL/GRN
CNT12/T1 — 1A RED
CNT12/T2 — 2A WHT
CNT12/T3 — 3A BLK
BRAKING RESISTOR
B1 BLK — B2 WHT
24 RED — 25 WHT — 26 BLK — GND YEL/GRN
SPINDLE MOTOR CABLE

GND STRIP
GND YEL/GRN — GND LUG
GND YEL/GRN — X AXIS SERVO DRIVE E/G
GND YEL/GRN — Y AXIS SERVO DRIVE E/G
GND YEL/GRN — Z AXIS SERVO DRIVE E/G
GND GRN — TB1/9B
GND GRN — PS2/ACG
GND GRN — PS3/ACG
GND GRN — PS4/ACG
GND GRN — T1/G

CNT1A — 216 RED — CNT12/A1 (INV.)
57NO — 58NO — TIMER — 66NC — 65NC
TB1/3D (220VAC/L2)
4 RED — DISCONNECT/T1 — X AXIS DRIVE/R — 41 RED
5 WHT — DISCONNECT/T2 — X AXIS DRIVE/S — 42 WHT
6 BLK — DISCONNECT/T3 — X AXIS DRIVE/T — 43 BLK
OCR2/95NC — 571 BRN
TB1/9C — 561 BRN
TB2/14B — 541 RED — TB1/9B — 552 BRN
542 RED
951 BLU — GPIO4D H1/OUT 5 COM — GPIO4D H2/OUT 12 COM — 954 BLU
543 RED
CNT1B — Y AXIS DRIVE/R — 44 RED
Y AXIS DRIVE/S — 45 WHT
Y AXIS DRIVE/T — 46 BLK
GPIO4D H1/OUT 7 COM — 952 BLU
TB1/10A — 553 BRN
CNT1C — Z AXIS DRIVE/R — 47 RED
Z AXIS DRIVE/S — 48 WHT
Z AXIS DRIVE/T — 49 BLK
TB1/10B — 554 BRN
CNT12 — INVERTER/L1 — 1A RED
INVERTER/L2 — 2A WHT
INVERTER/L3 — 3A BLK
DISCONNECT/T1 — 1 RED
DISCONNECT/T2 — 2 WHT
DISCONNECT/T3 — 3 BLK
CNT1/58NO — 14 AWG — 216A RED — 236 WHT
F10/LOAD (220VAC/L3) — 14 AWG

DC POWER FROM PS3
H6-1 RED — H6-2 BLK — H6-3 ORG — H6-4 VIO — H6-5 GRY
H6
+5 VDC — 5V COM — +12 VDC — -12 VDC — 12V COM — DC IN
944 RED — INVERTER/AVI
945 WHT — INVERTER/ACM
SPINDLE ANALOG — ANALOG COMMON
H2
N/C — N/C — N/C — FAULT NC — FAULT NO — FAULT COM — OUT 16 — OUT 16 COM — OUT 15 — OUT 15 COM — OUT 14 — OUT 14 COM — OUT 13 — OUT 13 COM — OUT 12 — OUT 12 COM — OUT 11 — OUT 11 COM — OUT 10 — OUT 10 COM — OUT 9 NC — OUT 9 NO — OUT 9 COM — OUT 8 NC — OUT 8 NO — OUT 8 COM — OUT 7 — OUT 7 COM — OUT 6 — OUT 6 COM — OUT 5 — OUT 5 COM — OUT 4 — OUT 4 COM — OUT 3 — OUT 3 COM — OUT 2 — OUT 2 COM — OUT 1 — OUT 1 COM
TB2/13B — 521 RED
GPIO4D H1/OUT 1 — 501A RED
TB2/44B (TOOL UNCLAMP) — 126 BLK
F36/B (110VACH) — 106 BLK
CNT6/A1 (CHILLER) — 525 RED
F54/B (24VACH) — 505 RED
INVERTER/MI4 (ORIENT) — 949 BRN
CNT1B/14NO — 954 BLU
TB2/4B (WORK LIGHT) — 123 BLK
F34/B (110VACH) — 103 BLK
TB2/1A (SPINDLE FAN) — 282 RED
F22/LOAD (220VAC/L1) — 262 RED
FIBER OPTIC CABLES FROM MPU11 — 3 — 1
H1
OUT 9 NC — OUT 9 NO — OUT 9 COM — OUT 8 NC — OUT 8 NO — OUT 8 COM — OUT 7 — OUT 7 COM — OUT 6 — OUT 6 COM — OUT 5 — OUT 5 COM — OUT 4 — OUT 4 COM — OUT 3 — OUT 3 COM — OUT 2 — OUT 2 COM — OUT 1 — OUT 1 COM
INVERTER/DI1 (FWD) — 942 WHT
INVERTER/DI2 (REV) — 943 BLK
953 BLU — 953 BLU
CNT1B/14NO — 952 BLU
INVERTER/MI5 (RESET) — 941 GRN
CNT1B/13NO — 951 BLU
INVERTER/DCM — 940 BLU
CNT2/A1 (FLOOD) — 522 RED
F52/B (24VACH) — 502 RED
TB2/4B (LUBE) — 122 BLK
F32/B (110VACH) — 102 BLK
GPIO4D H2/FAULT COM — 501A RED
F51/B (24VACH) — 501 RED
H3 H4 H7 H8
H9
OPTOS — SIP 5 — 17 IN — 18 IN — 19 IN — 20 IN — 17-20 COM — AXIS FAULT INPUTS
COMMON — OUTPUT — AXIS BRAKE ENABLE OUTPUTS
AXIS ANALOG OUT — +12V — ANALOG OUT — -12V — ANALOG COM

AXIS 1
AXIS ANALOG 1
ANALOG COMMON
FAULT INPUT AXIS 1 (IN 17)
FAULT COMMON
ENABLE OUTPUT AXIS 1 (OUT 17)
BRAKE OUTPUT 1 (OUT 17)
OUTPUT COMMON
H14

AXIS 2
AXIS ANALOG 2
ANALOG COMMON
FAULT INPUT AXIS 2 (IN 18)
FAULT COMMON
ENABLE OUTPUT AXIS 2 (OUT 18)
BRAKE OUTPUT 2 (OUT 18)
OUTPUT COMMON
H13

AXIS 3
AXIS ANALOG 3
ANALOG COMMON
FAULT INPUT AXIS 3 (IN 19)
FAULT COMMON
ENABLE OUTPUT AXIS 3 (OUT 19)
BRAKE OUTPUT 3 (OUT 19)
OUTPUT COMMON
H12

AXIS 4
AXIS ANALOG 4
ANALOG COMMON
FAULT INPUT AXIS 4 (IN 20)
FAULT COMMON
ENABLE OUTPUT AXIS 4 (OUT 20)
BRAKE OUTPUT 4 (OUT 20)
OUTPUT COMMON
H11

H10
OPTOS — SIP 4
1 IN — 851 BLK — TB2/15B (X- LIMIT)
2 IN — 852 BRN — TB2/16B (X+ LIMIT)
3 IN — 853 RED — TB2/17B (Y- LIMIT)
4 IN — 854 ORG — TB2/18B (Y+ LIMIT)
1-4 COM — 807 YEL — TB1/15A (+24VDC)
OPTOS — SIP 3
5 IN — 855 YEL — TB2/19B (Z- LIMIT)
6 IN — 856 GRN — TB2/20B (Z+ LIMIT)
7 IN — 857 BLU — N/C
8 IN — 958 VIO — N/C
5-8 COM — 808 YEL — TB1/15B (+24VDC)
OPTOS — SIP 2
9 IN — 859 GRY — TB2/21B (LOW LUBE)
10 IN — 947 ORG — INVERTER/RB (FAULT)
11 IN — 861 PNK — TB2/22B (E-STOP)
12 IN — 862 L-GRN — N/C
9-12 COM — 809 YEL — TB1/16A (+24VDC)
OPTOS — SIP 1
13 IN — 863 L-BLU — N/C
14 IN — 864 BLK/RED — TB2/23B (DOOR CLOSED)
15 IN — 865 BLK/WHT — N/C
16 IN — 866 BLK/GRN — N/C
13-16 COM — 810 YEL — TB1/16B (+24VDC)

GPIO4D

TB1
X AXIS DRIVE/L1C — 211 RED — DISCONNECT/T1
X AXIS DRIVE/L2C — 212 RED — F1/A
Z AXIS DRIVE/L1C — 213 RED — PS2/ACL (MPU11)
CNT1/57NO — 216 RED — PS3/ACL (GPIO4D)
PS4/ACL (LOGIC 24VDC)
X AXIS DRIVE/L2C — 231 WHT — DISCONNECT/T2
Z AXIS DRIVE/L2C — 233 WHT — T1 PRIMARY/0
PS2/ACN (MPU11)
CNT12/A2 — 236 WHT — PS3/ACN (GPIO4D)
TB2/2B — 237 WHT — PS4/ACN (LOGIC 24VDC)
CNT1A/13NO — 561 BRN — T1 24VAC SECONDARY/0
552 BRN — CNT1A/A2
553 BRN — CNT1B/A2
554 BRN — CNT1C/A2
TB2/28B — 811 YEL — PS4/+V (+24VDC)
TB2/41B — 812 YEL
PLCADD1616 H5/1-4 COM — 817 YEL — GPIO4D H10/1-4 COM
PLCADD1616 H5/5-8 COM — 818 YEL — GPIO4D H10/5-8 COM
GPIO4D H9/9-12 COM
GPIO4D H9/13-16 COM
TB2/24B — 831 BLU — PS4/ACOM (GPIO4D)
TB2/39B — 832 BLU — INVERTER/CM (ACOM)
PLCADD1616 H4/9-12 COM — 839 BLU — X AXIS OPTIC1 H1/+24VDC
PLCADD1616 H4/13-16 COM — 840 BLU — Y AXIS OPTIC1 H1/+24VDC
Z AXIS OPTIC1 H1/+24VDC
X AXIS OPTIC1 H1/COM
Y AXIS OPTIC1 H1/COM
Z AXIS OPTIC1 H1/COM

220VAC
T1 PRIMARY/240 — 261 RED — F21
GPIO4D H2/OUT 10 COM — 262 RED — F22
TB1/1B (230VAC/L1) — 202 RED
110VAC SECONDARY/110
TB1/3B (CONSOLE/ACH) — 101 BLK — F31 — LUBE ON
GPIO4D H1/OUT 2 COM — 102 BLK — F32 — LUBE PWR
TB2/5B — 102A BLK — F33
GPIO4D H2/OUT 11 COM — 103 BLK — F34 — WORK LIGHT
TB2/8B — 104 BLK — F35 — DOOR FANS
GPIO4D H2/OUT 14 COM — 106 BLK — F36 — TOOL UNCLAMP
PLCADD1616 H1/OUT 5 COM — 108 BLK — F37 — CAROUSEL IN
PLCADD1616 H1/OUT 4 COM — 109 BLK — F38 — CAROUSEL OUT
24VAC SECONDARY/24
GPIO4D H1/OUT 1 COM — 501 RED — F51
GPIO4D H1/OUT 3 COM — 502 RED — F52
PLCADD1616 H1/OUT 7 COM — 503 RED — F53
GPIO4D H2/OUT 13 COM — 505 RED — F54

PLCADD1616
REV 090306
H3 — J1 — 1 2 3
H6
N/C — N/C — N/C — +5VDC — +5VDC — 5V COM — 5V COM
H2
NC — NC — NC — NC — NC — NC — OUT 16 — OUT 16 COM — OUT 15 — OUT 15 COM — OUT 14 — OUT 14 COM — OUT 13 — OUT 13 COM — OUT 12 — OUT 12 COM — OUT 11 — OUT 11 COM — OUT 10 — OUT 10 COM — OUT 9 NC — OUT 9 NO — OUT 9 COM — OUT 8 NC — OUT 8 NO — OUT 8 COM — OUT 7 — OUT 7 COM — OUT 6 — OUT 6 COM — OUT 5 — OUT 5 COM — OUT 4 — OUT 4 COM — OUT 3 — OUT 3 COM — OUT 2 — OUT 2 COM — OUT 1 — OUT 1 COM
H1
CNT4/22NC (CAROUSEL FWD) — 523C RED
CNT3/22NC (CAROUSEL REV) — 523O RED
523 RED — 523 RED
F53/B (24VACH) — 503 RED
TB2/45B (CAROUSEL IN) — 128 BLK
F37/B (110VACH) — 108 BLK
TB2/46B (CAROUSEL OUT) — 129 BLK
F38/B (110VACH) — 109 BLK
SIP 4
1 IN — 948 RED — INVERTER/MO2 (ZERO SPEED)
2 IN — 950 PNK — INVERTER/MRA (ORIENTED)
3 IN — 873 RED — TB2/31B (TOOL CLAMPED)
4 IN — 874 ORG — TB2/32B (TOOL UNCLAMPED)
1-4 COM — 817 YEL — TB1/15C (+24VDC)
SIP 3
5 IN — 875 YEL — TB2/33B (TOOL RELEASE)
6 IN — 876 GRN — TB2/34B (CHILLER ON)
7 IN — 877 BLU — N/C
8 IN — 878 VIO — N/C
5-8 COM — 818 YEL — TB1/15D (+24VDC)
SIP 2
9 IN — 879 GRY — TB2/35B (TOOL COUNTER)
10 IN — 880 WHT — TB2/36B (CAROUSEL OUT)
11 IN — 881 PNK — TB2/37B (CAROUSEL IN)
12 IN — 882 L-GRN — N/C
9-12 COM — 839 BLU — TB1/21C (24V COM)
SIP 1
13 IN — 883 L-BLU — TB2/38B (LOW AIR)
14 IN — 884 BLK/RED — N/C
15 IN — 885 BLK/WHT — N/C
16 IN — 886 BLK/GRN — N/C
13-16 COM — 840 BLU — TB1/21D (24V COM)
H1 — H4

ENCODER 6 ENCODER 5 ENCODER 4 ENCODER 3 ENCODER 2 ENCODER 1 ENCODER ETHER NET
MPG
ETHERNET CABLE FROM CONSOLE
FIBER OPTIC CABLES TO GPIO4D
FIBER OPTIC CABLES TO X AXIS OPTIC DIRECT
MPU11
PROBE
JOG
JOG PANEL CABLE FROM CONSOLE
PWR
DC POWER FROM PS2

SPINDLE FAN/ACH — 2882 RED — PLCADD1616 H2/OUT 12
SPINDLE FAN/ACN — 2371 WHT — TB1/8C (220VAC/L2)
CONSOLE/ACH — 1011 BRN — F31/B (110VACH)
LUBE PUMP/ON — 1221 BLK — GPIO4D H1/OUT 2
LUBE PUMP/ACH — 102B RED — F33/B (110VACH)
WORK LIGHT/ACH — 1231 BRN — GPIO4D H2/OUT 11
DOOR FAN 1/ACH — 1041 BLK
DOOR FAN 2/ACH — 1042 BLK
CONSOLE/ACN — 1502 WHT
LUBE PUMP/ACN — 1502 WHT — T1 110VAC SECONDARY/0
WORK LIGHT/ACN — 1503 BLU
DOOR FAN 1/ACN — 1509 BLK — TB2/47B
DOOR FAN 2/ACN — 1510 BLK
CONSOLE/ACG — GND YEL/GRN — GND GRN — GND STRIP
LUBE PUMP/ACG — GND YEL/GRN
WORK LIGHT/ACG — GND YEL/GRN — GND GRN — TB2/29B
E-STOP SWITCH/PWR — 5211 RED — GPIO4D H2/FAULT NO
E-STOP SWITCH/PWR — 5411 GRN — CNT1A/A1
X- LIMIT SWITCH/NC — 8511 BLK — GPIO4D H1/0 IN
X+ LIMIT SWITCH/NC — 8521 RED — GPIO4D H10/2 IN
Y- LIMIT SWITCH/NC — 8531 BLK — GPIO4D H10/3 IN
Y+ LIMIT SWITCH/NC — 8541 RED — GPIO4D H10/4 IN
Z- LIMIT SWITCH/NC — 8551 BLK — GPIO4D H10/5 IN
Z+ LIMIT SWITCH/NC — 8561 RED — GPIO4D H10/6 IN
LUBE ALARM/NC — 8591 YEL — GPIO4D H9/9 IN
E-STOP SWITCH/NC — 8611 BLK — GPIO4D H9/11 IN
DOOR CLOSED/NO — 8641 RED — 864 BLK/RED — GPIO4D H9/14 IN
E-STOP SWITCH/COM — 8317 WHT
LUBE ALARM/COM — 8312 BRN — TB1/17C (24VDC COM)
X LIMIT SWITCHS/COM — 8313 WHT-BRN
Y LIMIT SWITCHS/COM — 8314 WHT-GRN
Z LIMIT SWITCHS/COM — 8315 WHT-GRN
DOOR CLOSED/COM — 8317 WHT
X LIMIT SWITCHS CABLE — SHIELD — GND GRN — TB2/12B (GROUND)
Y LIMIT SWITCHS CABLE — SHIELD
Z LIMIT SWITCHS CABLE — SHIELD — GND GRN — TB2/42B
TOOL CLAMPED/NO — 8731 RED — PLCADD1616 H5/3 IN
TOOL UNCLAMPED/NO — 8741 RED — PLCADD1616 H5/4 IN
TOOL RELEASE/NO — 8751 RED — PLCADD1616 H5/5 IN
CHILLER CON/PIN E — 8761 RED — PLCADD1616 H5/6 IN
TOOL COUNTER — 8791 BLK — PLCADD1616 H4/9 IN
CAROUSEL OUT — 8801 RED — PLCADD1616 H4/10 IN
CAROUSEL IN — 8811 RED — PLCADD1616 H4/11 IN
LOW AIR/NO — 8831 BLK — PLCADD1616 H4/13 IN
TOOL SWITCHES/COM — 8312 WHT-WHT
TOOL/CHILLER SWITCHES/COM — 8322 WHT-WHT — TB1/17D (24VDC COM)
CAROUSEL SENSORS/COM — 8323 BLU
CAROUSEL SENSORS/10-30VDC — 8121 YEL — TB1/12D (+24VDC)
LOW AIR/COM — 8122 WHT
TOOL/CHILLER SWITCHES CABLES — SHIELD — GND GRN — TB2/30B (GROUND)
CAROUSEL SENSORS CABLE — SHIELD
LOW AIR SWITCH CABLE — SHIELD — GND GRN — TB2/49B
TOOL UNCLAMP SOL/H — 1261 BRN — GPIO4D H2/OUT 14 — 126 BLK
CAROUSEL OUT SOL/H — 1281 BRN — BLU — PLCADD1616 H1/OUT 5 — 128 BLK
CAROUSEL IN SOL/H — 1291 BRN — BLU — PLCADD1616 H1/OUT 4 — 128 BLK
TOOL UNCLAMP SOL/N — 1511 BLU — TB2/10B (110VACN) — 151 WHT
CAROUSEL OUT SOL/N — 1512 BLU
CAROUSEL IN SOL/N — 1513 BLU — BLU
TOOL UNCLAMP SOL/G — GND YEL/GRN
CAROUSEL OUT SOL/G — GND YEL/GRN — TB2/43B (GROUND)
CAROUSEL IN SOL/G — GND YEL/GRN

PART	LOCATION
CNT1	C2
CONSOLE	B8
DISCONNECT	A4
DOOR FANS	F7
E-STOP SWITCH	A8
GND LUG	A4
GND STRIP	E3,F3
GPIO4D	E4,E5,F4,F5
INVERTER	F2
LIMIT SWITCHES	A2
LUBE PUMP	A2
MPU11	F3,F4
PROBE CONNECTOR	A2
PS2	E3
PS3	E3
PS4	E2
RLY1	C2
RLY2	D2
SPINDLE COOLING FAN	A1
SPINDLE MOTOR	A1
T1	B3
TB1	B4,C4
TB2	C5,D5
X AXIS SERVO DRIVE	B6,B7
X AXIS OPTIC DIRECT	B6,B7
Y AXIS SERVO DRIVE	C6,C7
Y AXIS OPTIC DIRECT	D6,D7
Z AXIS SERVO DRIVE	E6,E7
Z AXIS OPTIC DIRECT	E6,E7

OPTIONAL CONSOLE
E-STOP/FEEDRATE
BLK/RED — BLK/RED
BLK/GRN — GRN
BLK/BLU — BLU
SHLD — BLK/BLU — BLU — BLK/GRN — GRN — RED — BLK/RED
MPU11 JOG PANEL CONNECTOR
KB — MOUSE
BLK — GRN — WHT
1011 BRN — TB2/3C (110VACH)
GND YEL/GRN — TB2/11C (GND)
1501 BLU — TB2/8C (110VACN)
DB15HD VGA
USB1 USB2 RJ45 MPG
USB2 USB1
USB4 USB3 RJ45
ETHERNET CABLE TO MPU11
AUDIO
FLASH CARD
RJ45
E-STOP SWITCH
BLK — 8611 BLK — TB2/22C (SIG)
BLK — 8311 WHT — TB2/24C (SIG)
BLK — 5211 RED — TB2/13C (PWR)
BLK — 5411 GRN — TB2/14C (PWR)

X AXIS DELTA ASDA-A2 1 KW
CN7 CN5 CN6 CN1 CN2 CN3 CN4
TB1/1C (220VAC/L1) — 211 RED
TB1/5C (220VAC/L2) — 231 WHT
CNT1A/T1 — 41 RED
CNT1A/T2 — 42 WHT
CNT1A/T3 — 43 BLK
L1c L2c R S T 220VAC
X-U RED — X-V WHT — X-W BLK — X-G GRN — U V W MOTOR
X AXIS MOTOR CABLE
P D C Resistor
BRAKING RESISTOR
GND STRIP — GND YEL/GRN — 12 AWG
OPTIC DIRECT — RPT — IN — YAS — DEL
REV 111011
P-OT COM N-OT BRK RLY2 BRK RLY1 COM +24VDC H1
823 BLU — TB1/18A (24VDC COM)
803 YEL — TB1/13A (+24VDC)

Y AXIS DELTA ASDA-A2 1 KW
CN7 CN5 CN6 CN1 CN2 CN3 CN4
TB1/1D (220VAC/L1) — 212 RED
TB1/5D (220VAC/L2) — 232 WHT
CNT1B/T1 — 44 RED
CNT1B/T2 — 45 WHT
CNT1B/T3 — 46 BLK
L1c L2c R S T 220VAC
Y-U RED — Y-V WHT — Y-W BLK — Y-G GRN — U V W MOTOR
Y AXIS MOTOR CABLE
P D C Resistor
BRAKING RESISTOR
GND STRIP — GND YEL/GRN — 14 AWG
OPTIC DIRECT — RPT — IN — YAS — DEL
REV 111011
P-OT COM N-OT BRK RLY2 BRK RLY1 COM +24VDC H1
824 BLU — TB1/18B (24VDC COM)
804 YEL — TB1/13B (+24VDC)

Z AXIS DELTA ASDA-A2 1 KW
CN7 CN5 CN6 CN1 CN2 CN3 CN4
TB1/2C (220VAC/L1) — 213 RED
TB1/6C (220VAC/L2) — 233 WHT
CNT1C/T1 — 47 RED
CNT1C/T2 — 48 WHT
CNT1C/T3 — 49 BLK
L1c L2c R S T 220VAC
Z-U RED — Z-V WHT — Z-W BLK — Z-G GRN — U V W MOTOR
Z AXIS MOTOR CABLE
P D C Resistor
BRAKING RESISTOR
GND STRIP — GND YEL/GRN — 14 AWG
OPTIC DIRECT — RPT — IN — YAS — DEL
REV 111011
P-OT COM N-OT BRK RLY2 BRK RLY1 COM +24VDC H1
FIBER OPTIC CABLES FROM MPU11
9111 YEL — RLY2/PIN 14
911 YEL — TB1/22C (+24VDC)
825 BLU — TB1/19A (24VDC COM)
805 YEL — TB1/14A (+24VDC)

FLOOD CONNECTOR
61 RED — OCR2/T1
62 WHT — OCR2/T2
63 BLK — OCR2/T3
GND GRN — GND STRIP

CHILLER CONNECTOR
70 RED — OCR6/T1
71 WHT — OCR6/T2
72 BLK — OCR6/T3
GND GRN — GND STRIP
14 AWG
SHIELD — TB2/42C (GROUND)
8761 RED — TB2/34C (ADD 6 IN)
8322 WHT — TB2/39D (24V COM)

Title	M400, MPU11, GPIO4D, PLCADD1616, Delta drives, 220vac, TW Built For CE E320
Size	D
Number	
Rev	A
Date	131218
Drawn by	RRJ
Filename	S13407.TCW
Sheet	1 of 1