



New Hire Product Schematics

GS Series, QS Series, QS3250r, & 3360 Printers



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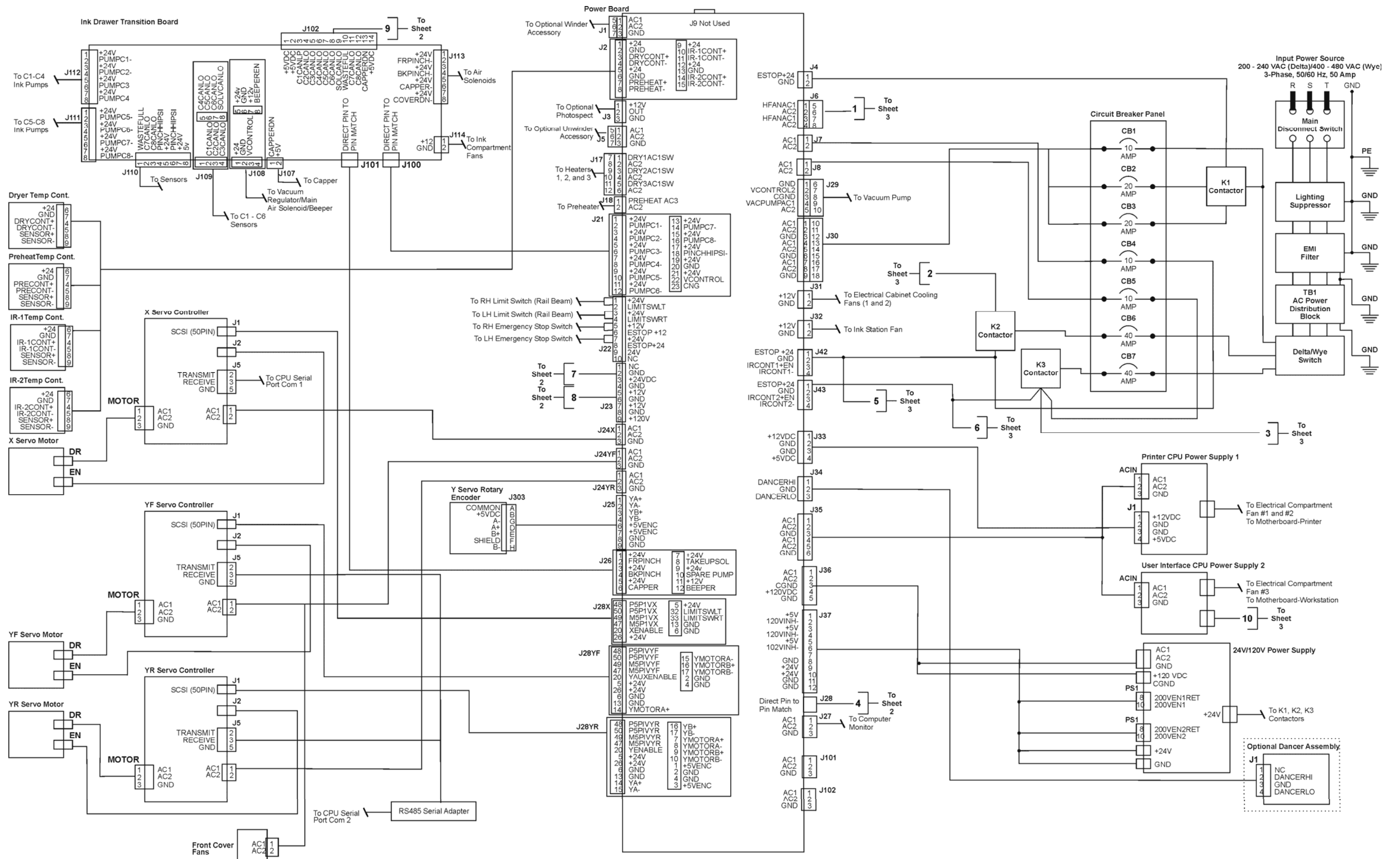
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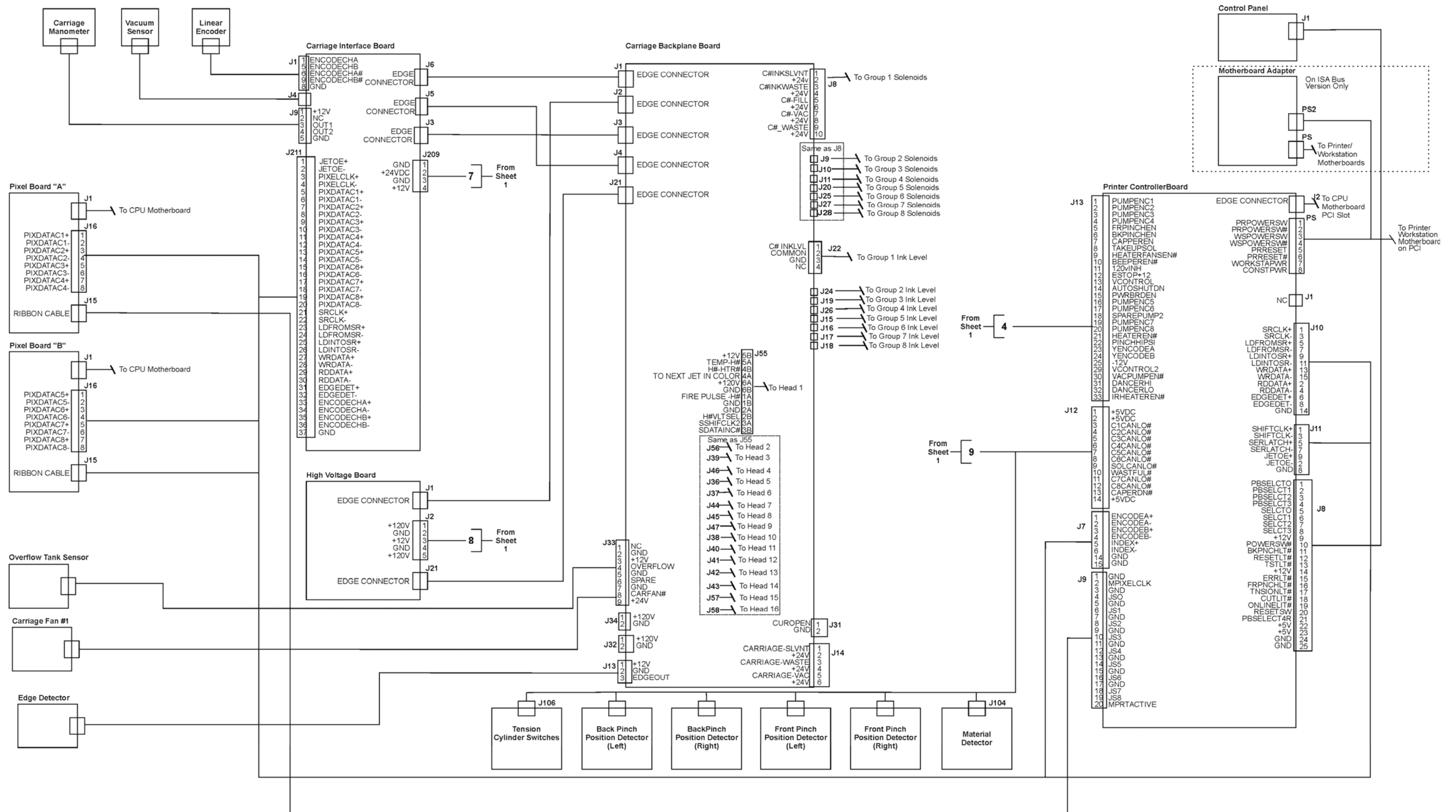
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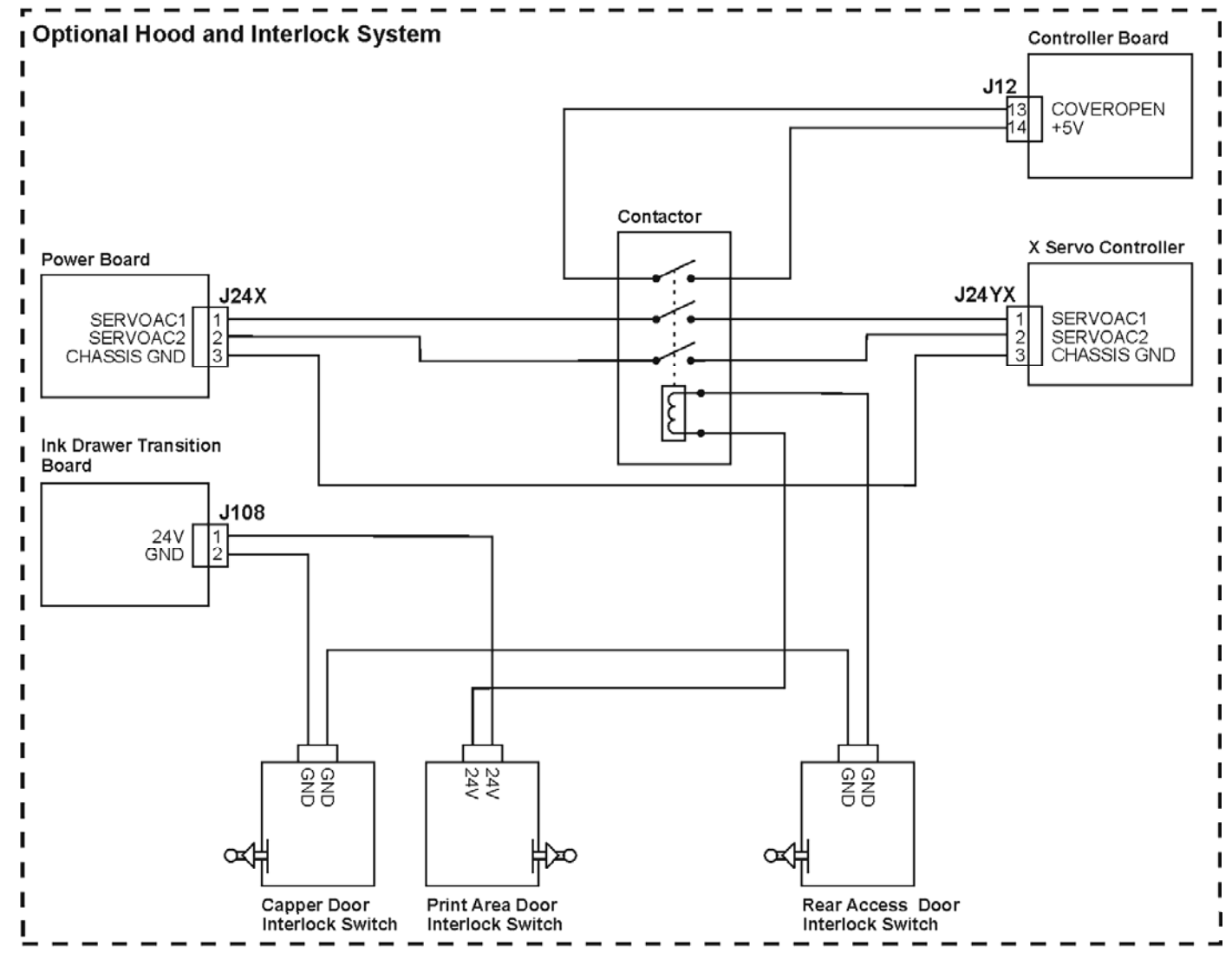
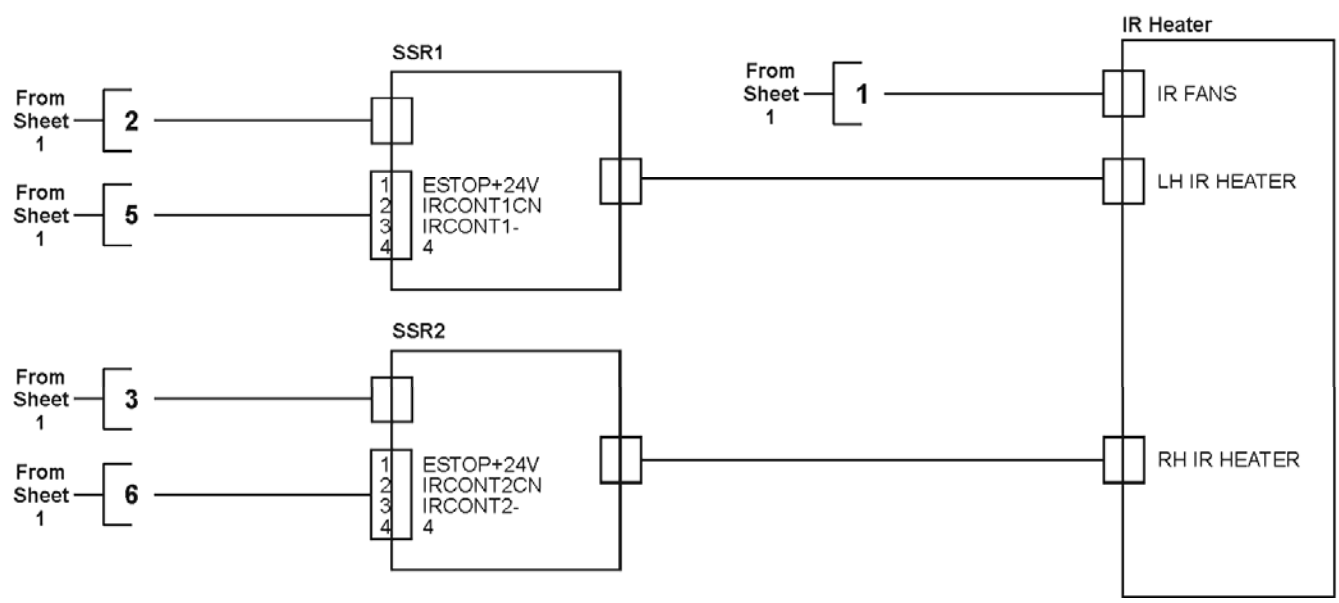
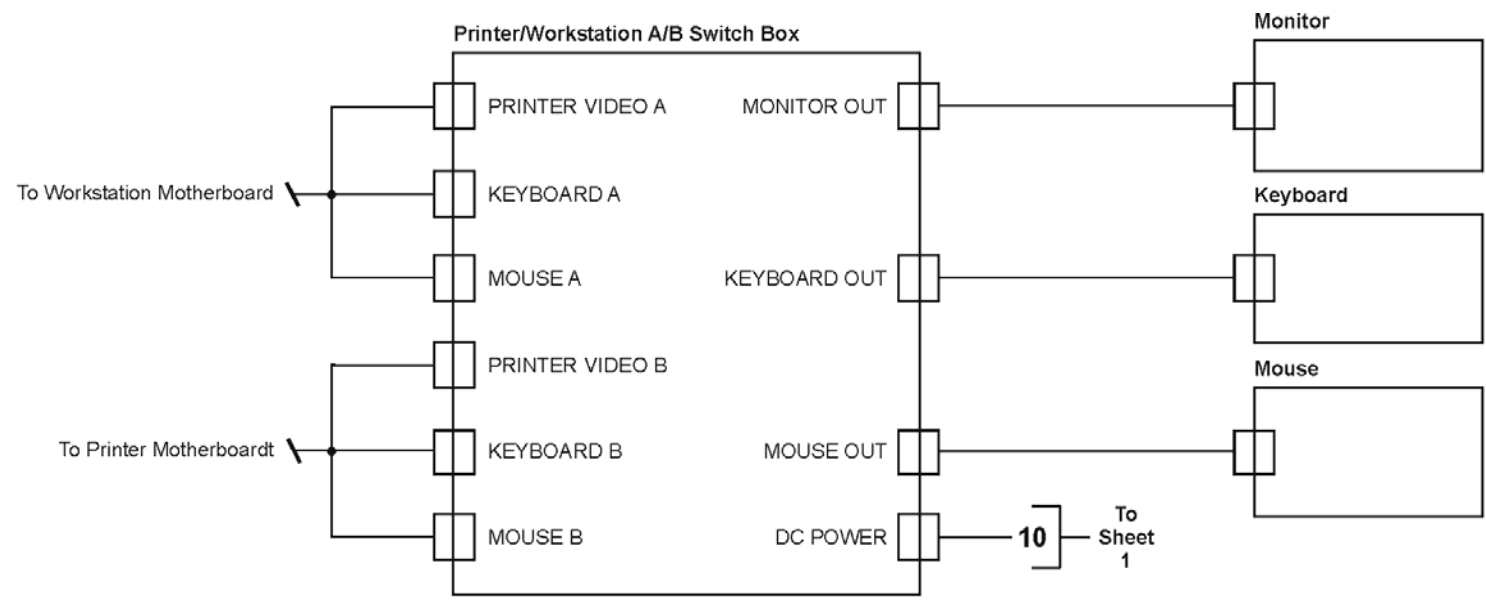
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English is the original language of this document.

This product may be covered by one or more of the following U.S. Patents 5,109,241, 5,150,454, 5,170,182, 5,212,546, 5,260,878, 5,276,490, 5,278,599, 5,335,040, 5,343,311, 5,398,107, 5,424,754, 5,442,429, 5,459,560, 5,467,446, 5,506,946, 5,517,334, 5,537,516, 5,543,940, 5,553,200, 5,563,689, 5,565,960, 5,583,623, 5,596,416, 5,615,314, 5,619,624, 5,625,712, 5,640,228, 5,666,436, 5,682,421, 5,729,665, 5,745,657, 5,760,913, 5,799,232, 5,818,645, 5,835,788, 5,859,711, 5,867,179, 5,937,153, 5,940,186, 5,959,867, 5,970,174, 5,982,937, 5,995,724, 6,002,795, 6,025,922, 6,035,103, 6,041,200, 6,065,041, 6,081,281, 6,112,665, 6,116,707, 6,122,407, 6,134,018, 6,141,120, 6,166,821, 6,173,286, 6,185,335, 6,201,614, 6,209,010, 6,215,562, 6,219,155, 6,219,659, 6,222,641, 6,224,048, 6,225,974, 6,226,419, 6,238,105, 6,239,895, 6,256,108, 6,269,190, 6,271,937, 6,278,901, 6,279,009, 6,289,122, 6,292,270, 6,299,063, 6,310,697, 6,321,133, 6,327,047, 6,327,050, 6,327,052, 6,330,071, 6,330,363, 6,331,899, 6,337,746, 6,340,975, 6,341,017, 6,341,018, 6,341,307, 6,347,256, 6,348,978, 6,356,359, 6,366,918, 6,369,895, 6,381,036, 6,400,443, 6,429,949, 6,449,393, 6,457,823, 6,476,927, 6,487,568, 6,490,696, 6,501,565, 6,519,053, 6,539,323, 6,543,871, 6,546,364, 6,549,294, 6,549,300, 6,550,991, 6,552,815, 6,559,958, 6,572,293, 6,590,676, 6,599,325, 6,606,165, 6,616,355, 6,618,157, 6,633,396, 6,636,326, 6,637,958, 6,643,317, 6,647,149, 6,657,741, 6,660,103, 6,662,199, 6,678,068, 6,679,640, 6,687,016, 6,707,563, 6,741,262, 6,748,471, 6,753,845, 6,757,436, 6,757,440, 6,778,700, 6,781,596, 6,786,578, 6,816,276, 6,825,943, 6,832,865, 6,836,342, 6,850,335, 6,856,428, 6,857,803, 6,859,832, 6,866,434, 6,874,860, 6,879,409, 6,885,477, 6,888,644, 6,905,189, 6,930,795, 6,950,110, 6,956,966, 6,962,449, 6,967,728, 6,974,269, 6,977,752, 6,978,299, 6,992,792, 7,002,700, 7,023,570, 7,027,187, 7,027,655, 7,031,015, 7,046,391, 7,054,015, 7,058,231, 7,064,153, 7,073,901, 7,081,969, 7,090,327, 7,093,046, 7,095,518, 7,095,528, 7,097,369, 7,099,027, 7,105,585, 7,116,444, 7,177,045, 7,177,049, 7,177,472, 7,204,484, 7,206,082, 7,212,312, 7,229,225, 7,233,397, 7,233,409, 7,239,403, 7,245,400, 7,248,752, 7,259,768, 7,259,893, 7,280,090, 7,296,157, 7,301,665, 7,301,667, 7,301,671, 7,302,095, 7,302,103, 7,304,753, 7,307,761, 7,342,686, 7,343,438, 7,349,124, 7,365,105, 7,367,060, 7,367,559, 7,389,452, 7,396,119, 7,396,864, 7,397,583, 7,397,961, 7,426,033, 7,431,436, 7,433,078, 7,453,596, 7,460,265, 7,460,721, 7,461,377, 7,463,374, 7,466,441, RE36,947, RE38,732, D341,131, D406,117, D416,550, D417,864, D419,185, D426,206, D426,206, D439,851, D444,793.

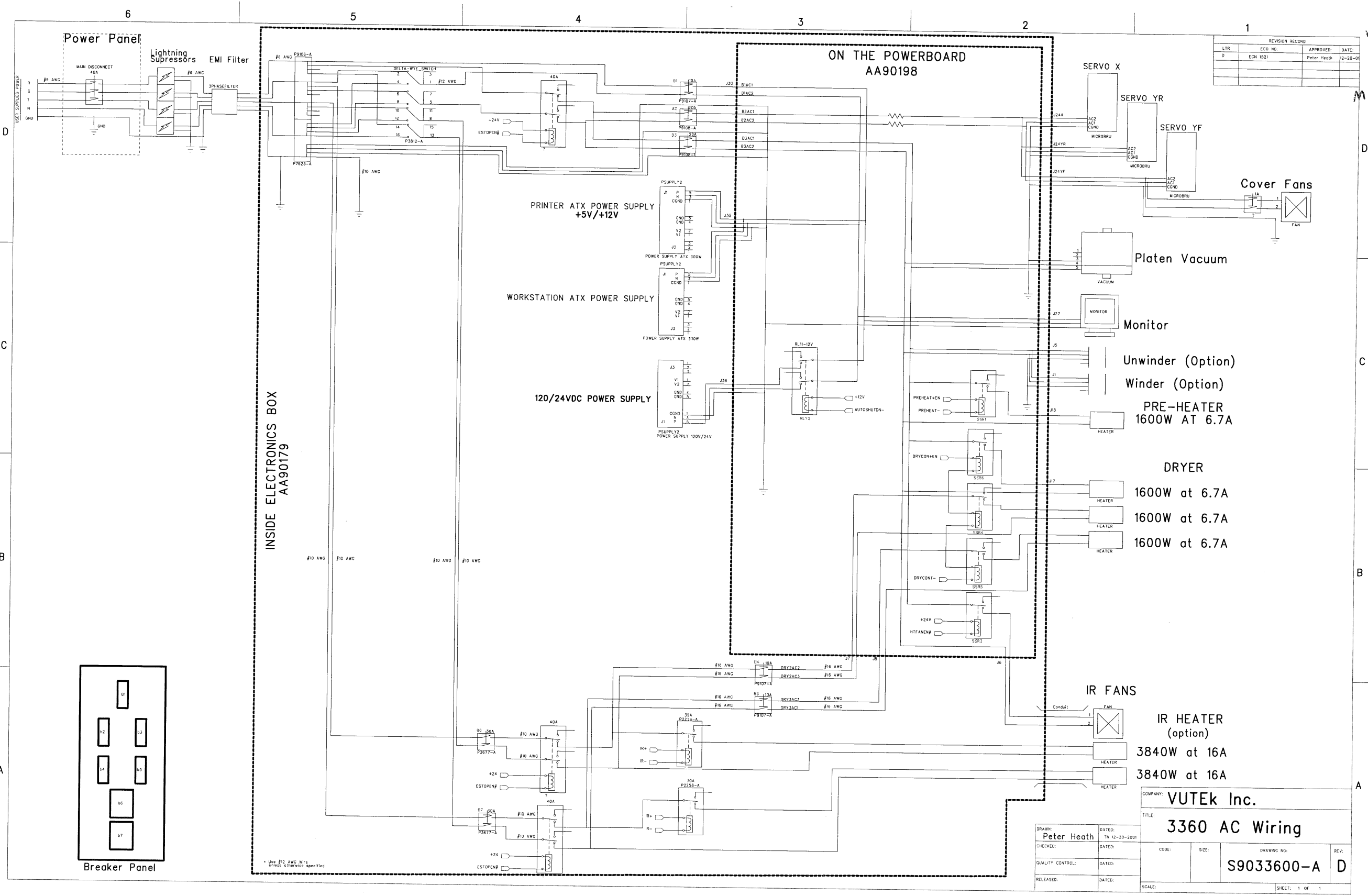




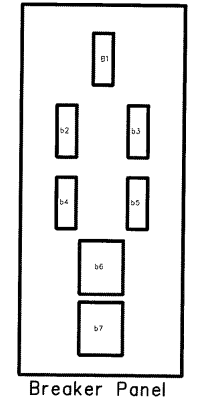


ADDIST3360-D, sch-1 - Thu Dec 20 12:50:17 2001

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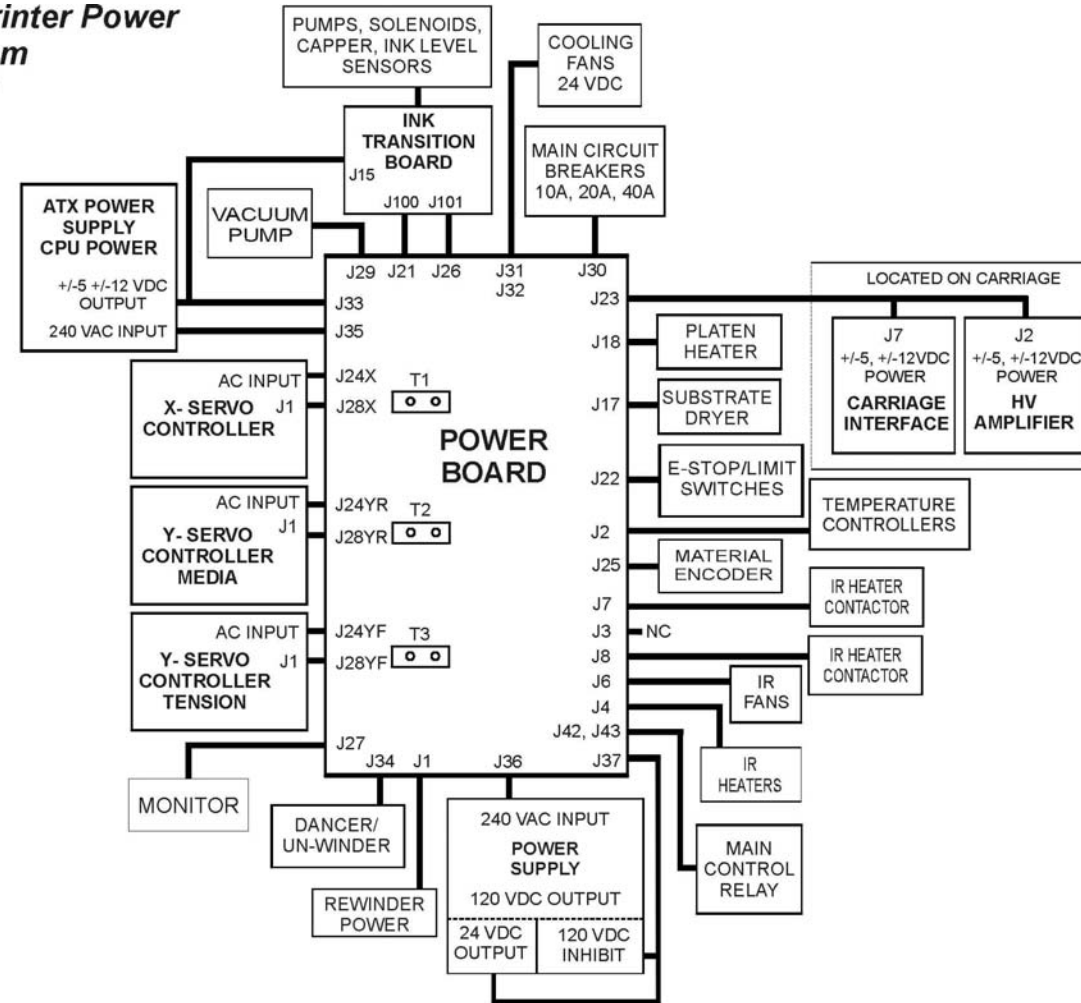


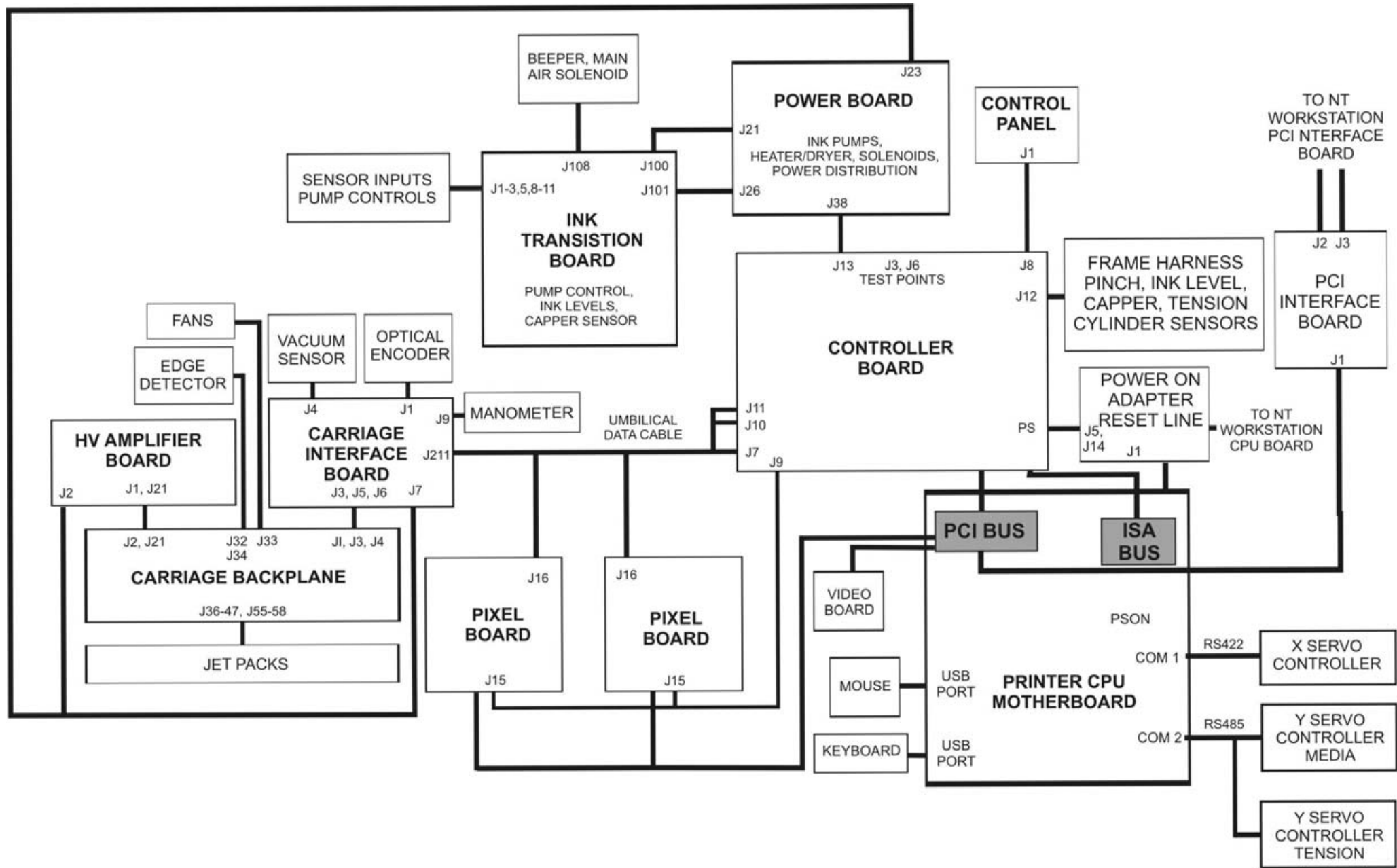
INSIDE ELECTRONICS BOX
AA90179



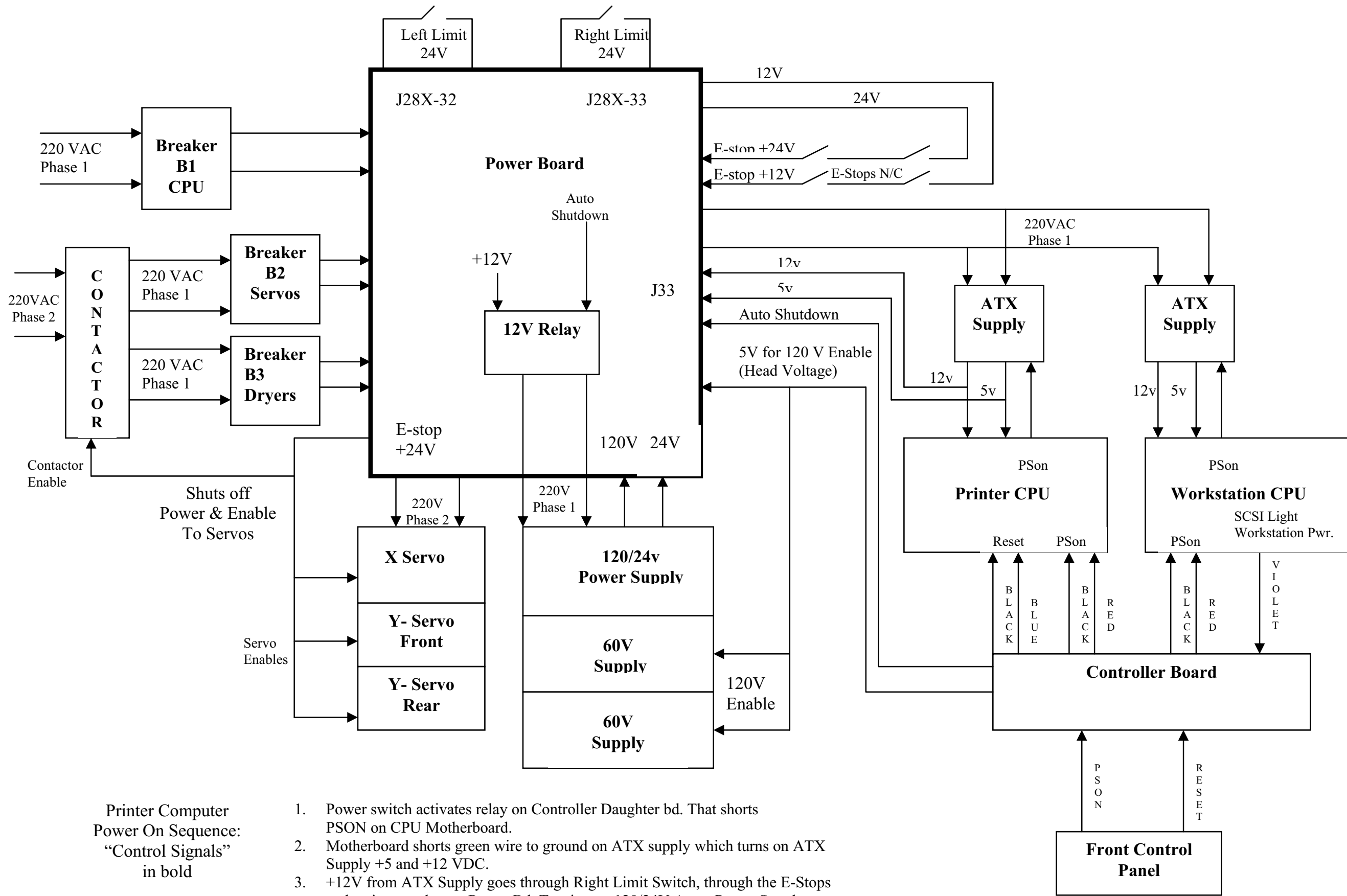
COMPANY: VUTEk Inc.			
TITLE: 3360 AC Wiring			
DRAWN: Peter Heath	DATED: 12-20-2001	CODE:	SIZE:
CHECKED:	DATED:	DRAWING NO: S9033600-A	REV: D
QUALITY CONTROL:	DATED:	SCALE:	SHEET: 1 OF 1
RELEASED:	DATED:		

UltraVu X360/2600 Printer Power System Block Diagram
 Power connections only shown



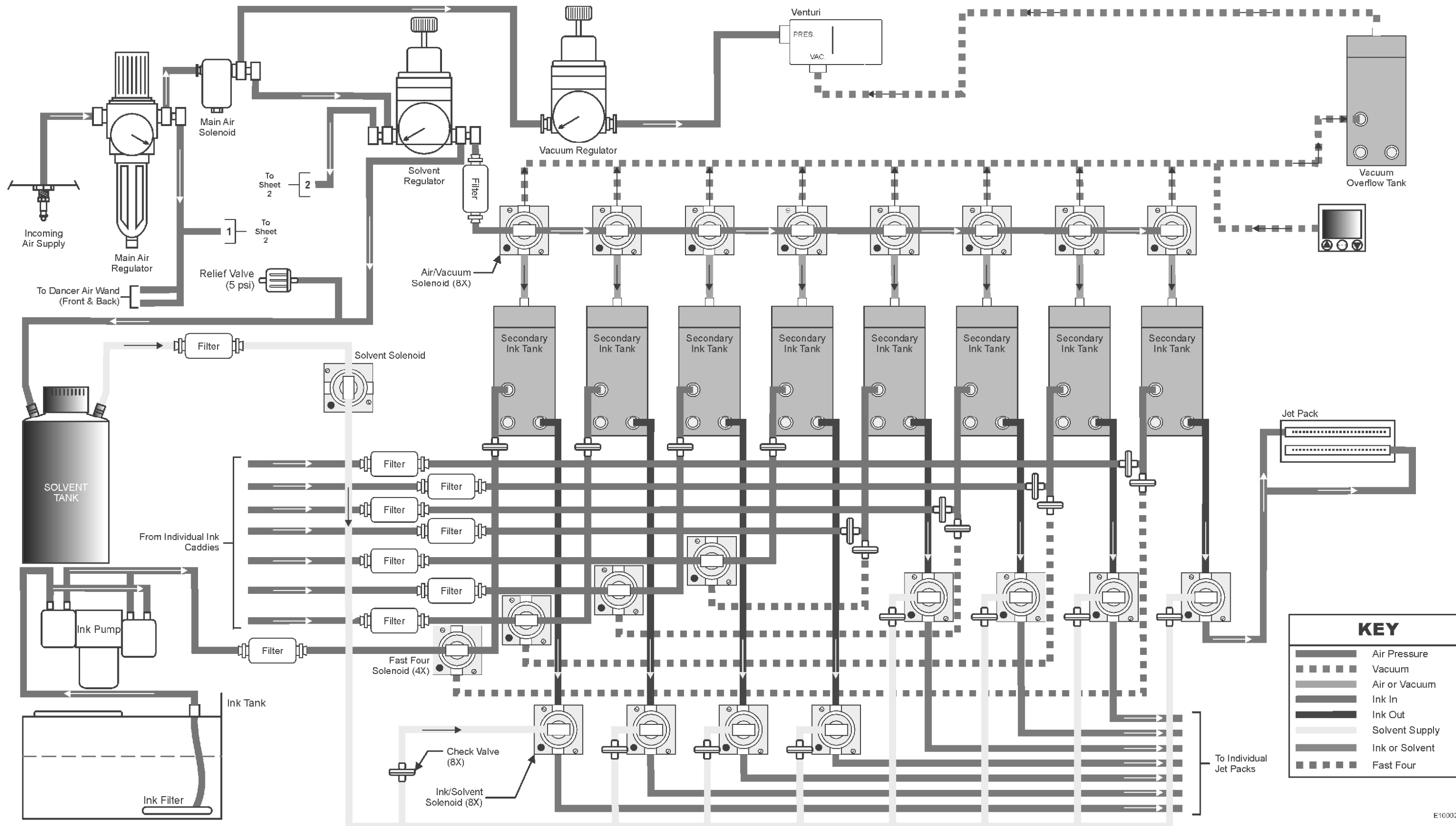


1100030



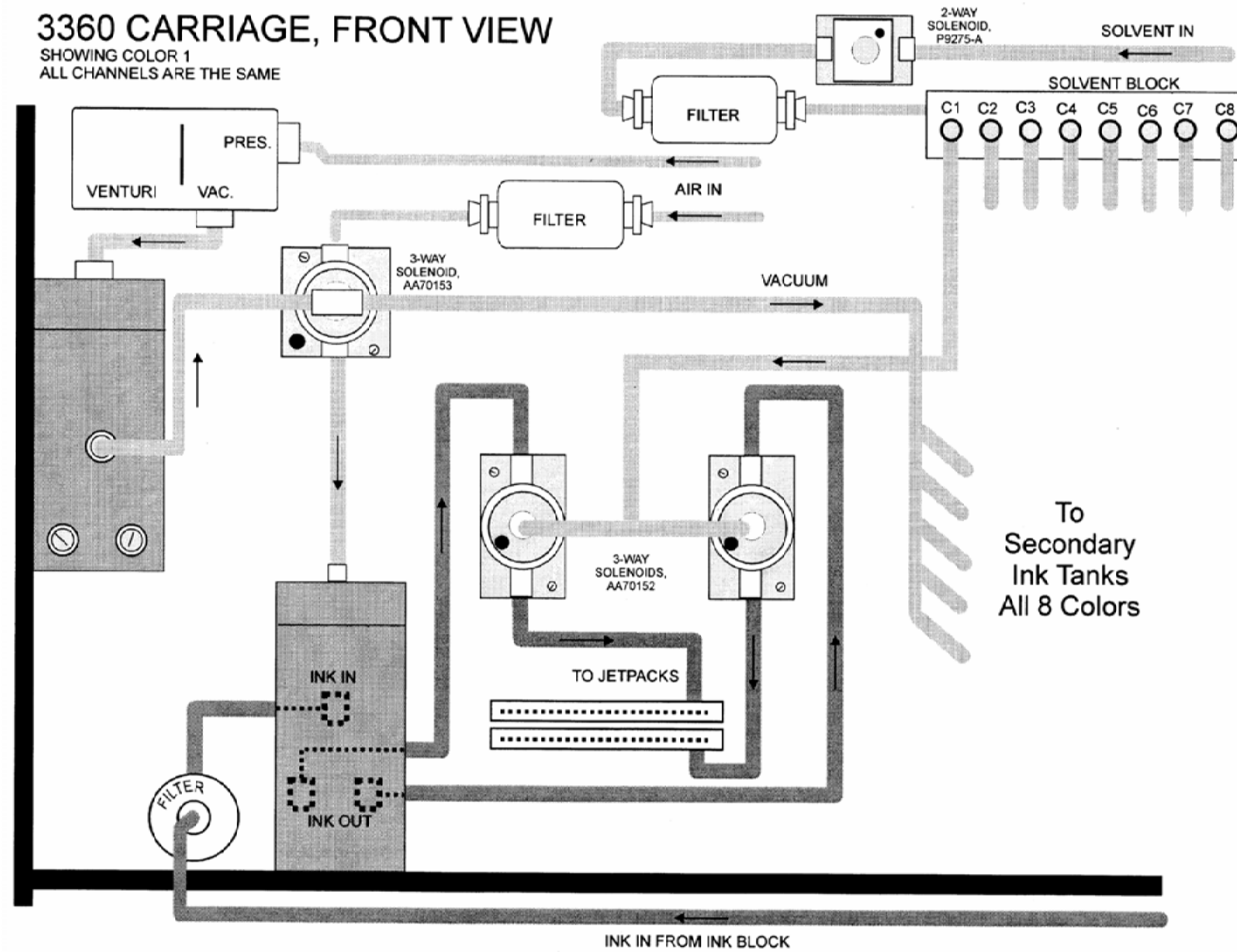
Printer Computer
Power On Sequence:
"Control Signals"
in bold

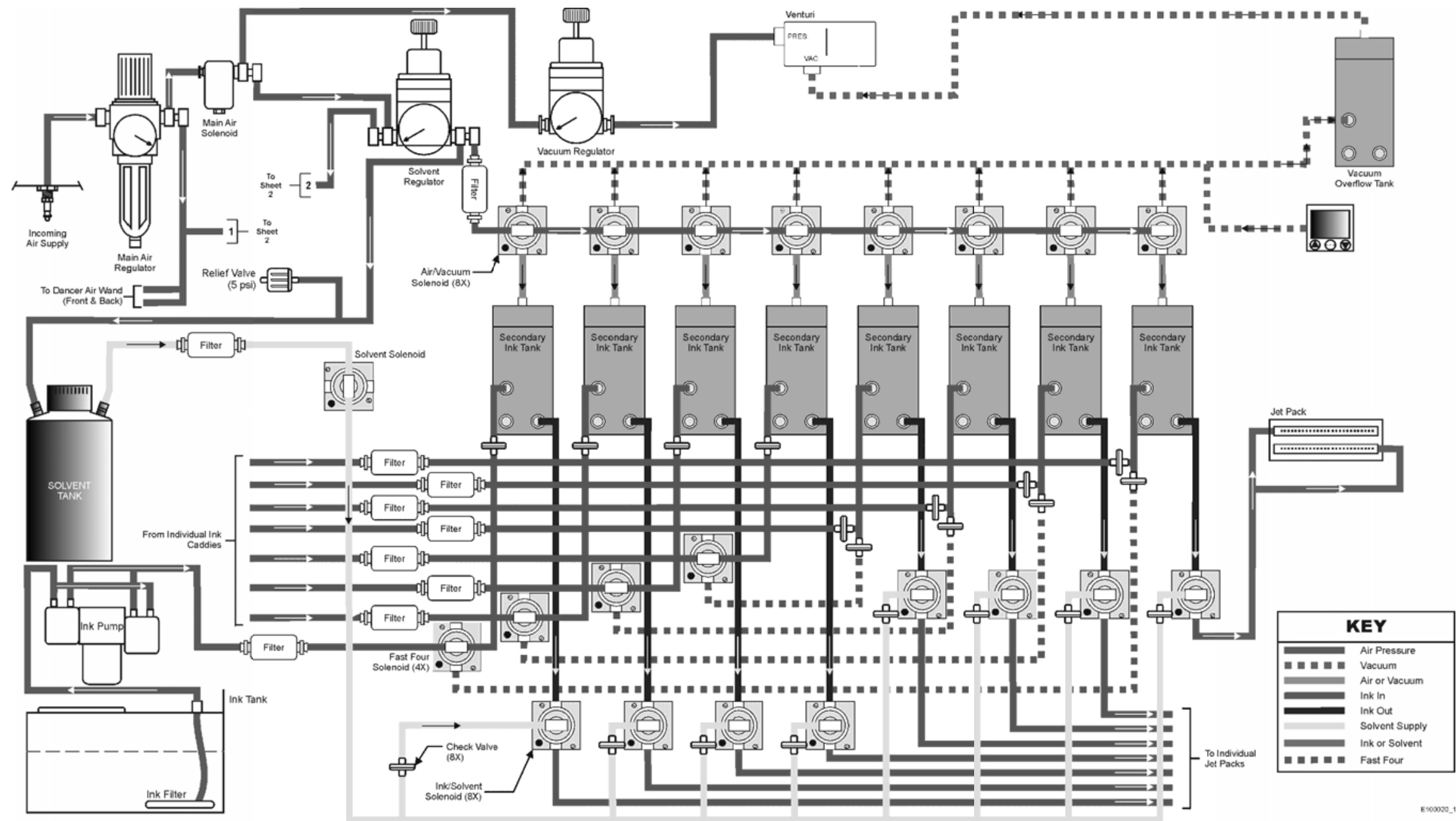
1. Power switch activates relay on Controller Daughter bd. That shorts PSON on CPU Motherboard.
2. Motherboard shorts green wire to ground on ATX supply which turns on ATX Supply +5 and +12 VDC.
3. +12V from ATX Supply goes through Right Limit Switch, through the E-Stops and activates relay on Power Bd. Turning on 120/24V Aztec Power Supply.
4. 24V from Aztec Power Supply goes through Left Limit Switch through E-Stops and activates Contactor #1 and Supplies Servo enables.



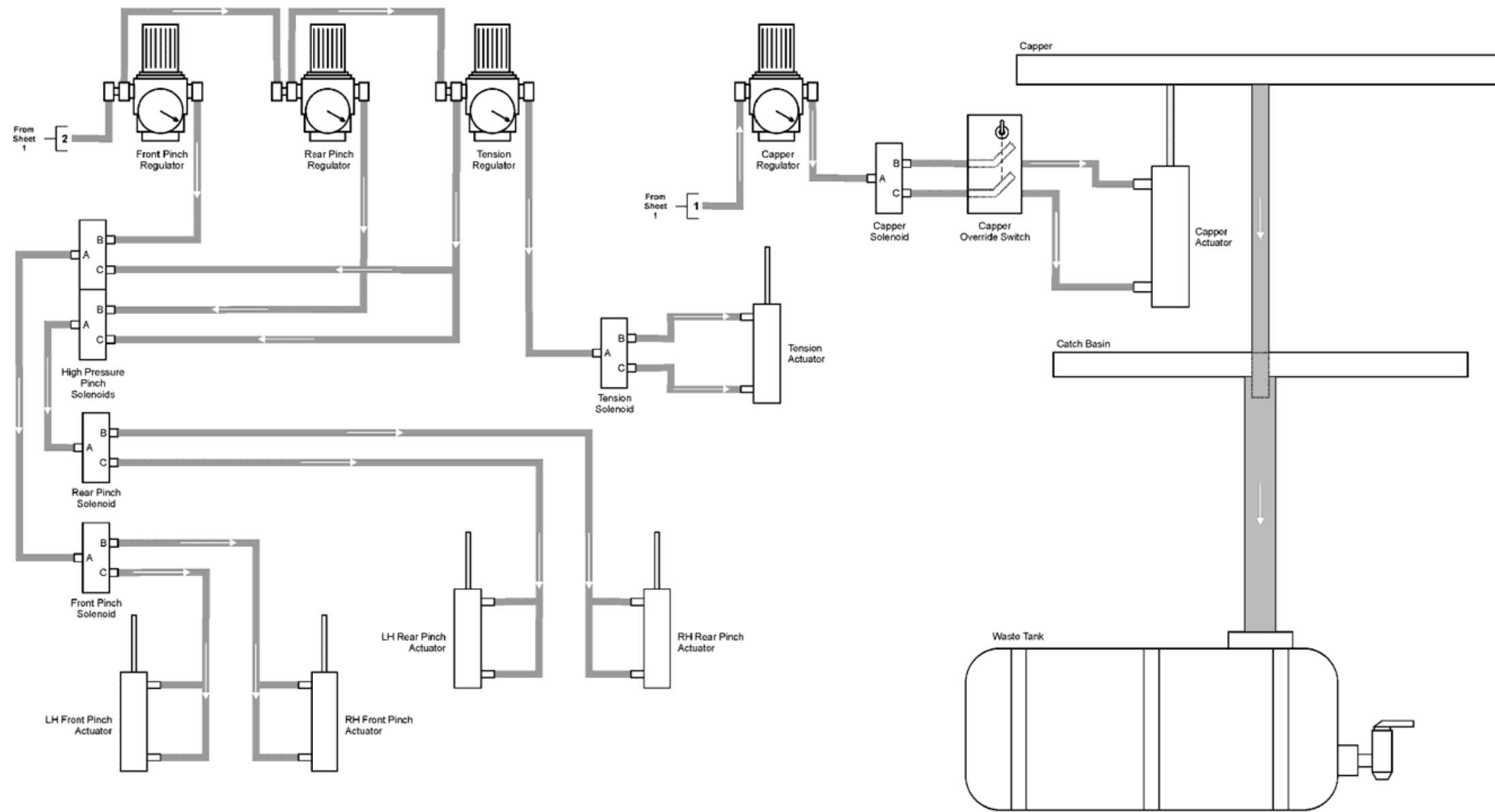
E100020_1

3360 CARRIAGE, FRONT VIEW
 SHOWING COLOR 1
 ALL CHANNELS ARE THE SAME

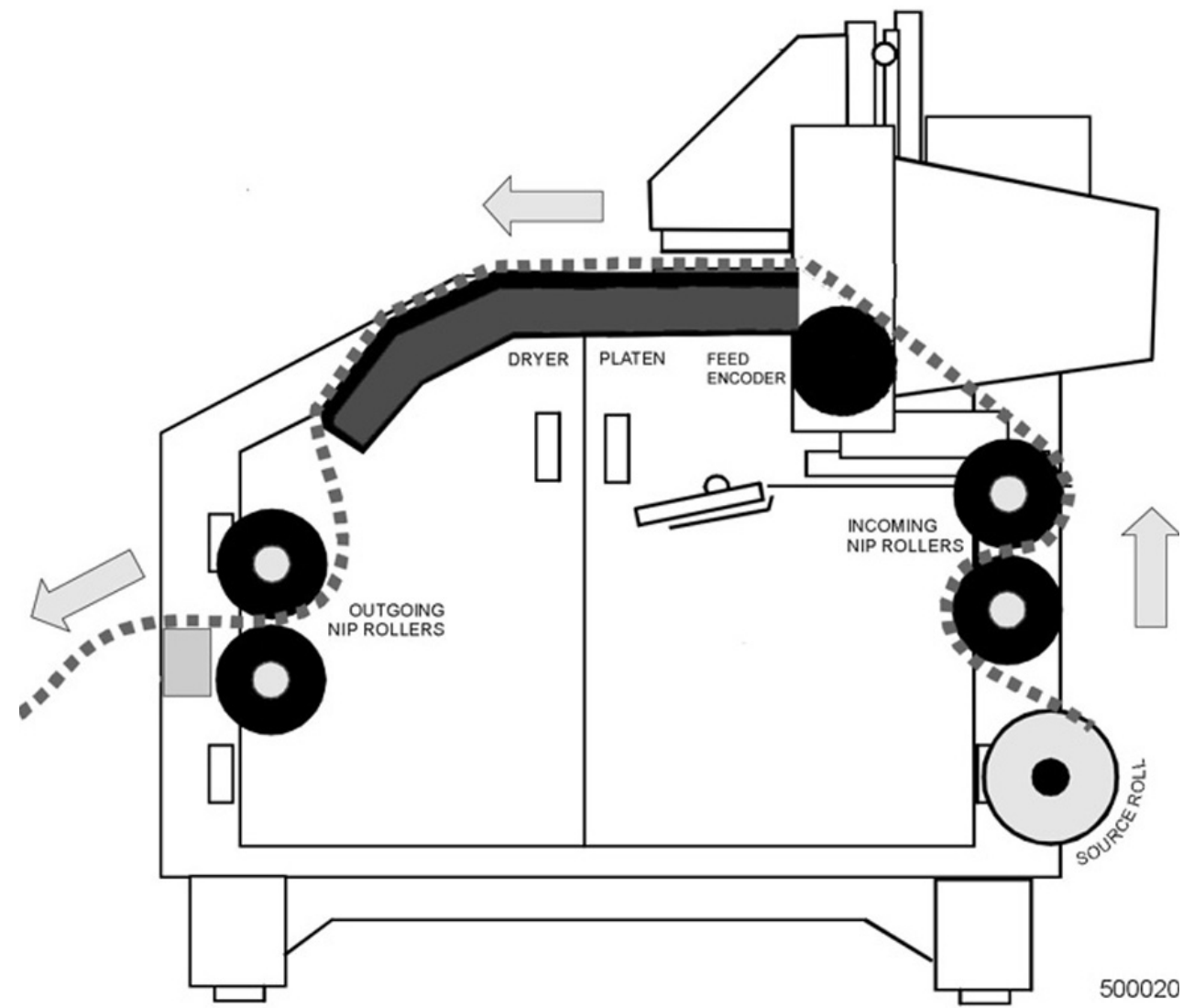




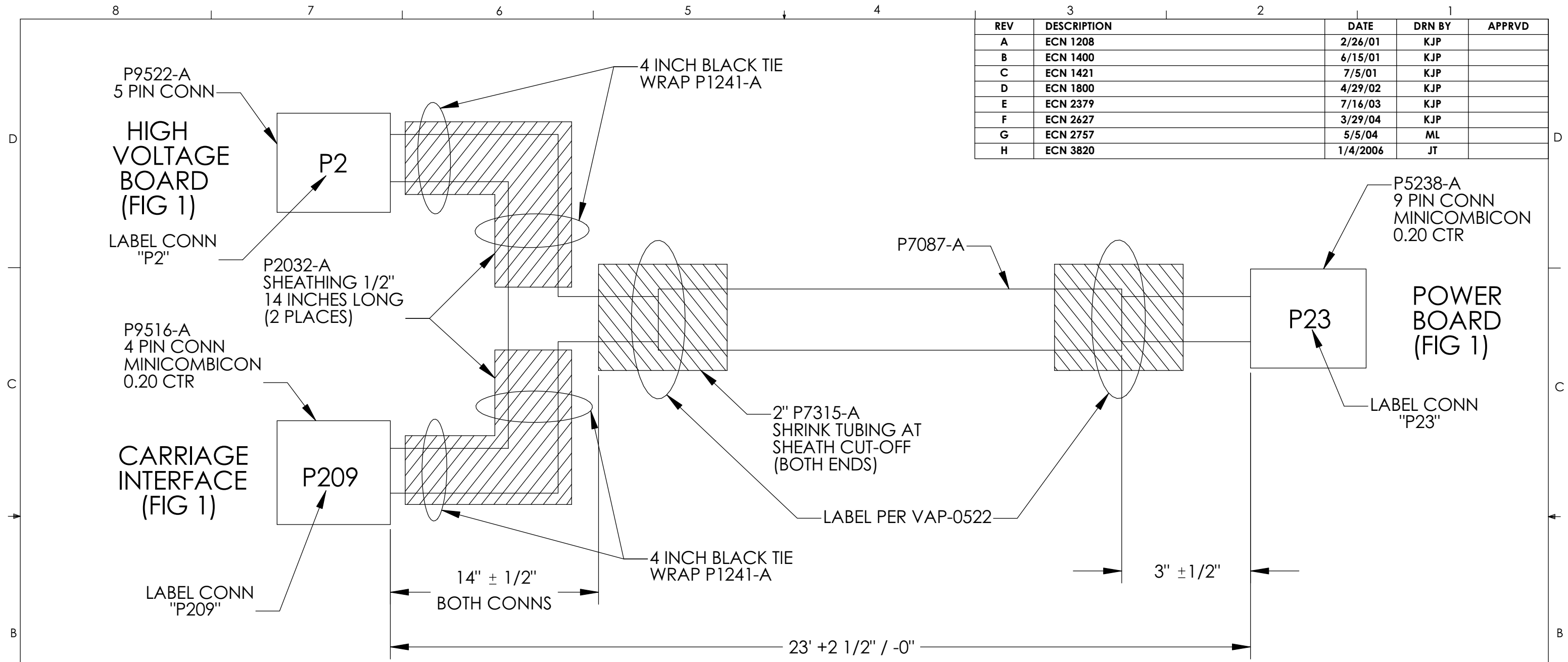
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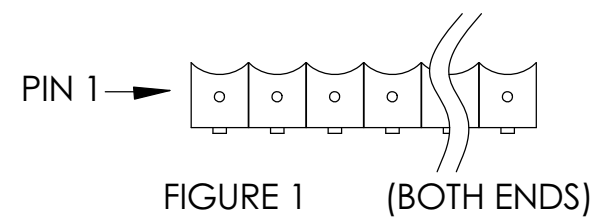
E190020_2



REV	DESCRIPTION	DATE	DRN BY	APPRVD
A	ECN 1208	2/26/01	KJP	
B	ECN 1400	6/15/01	KJP	
C	ECN 1421	7/5/01	KJP	
D	ECN 1800	4/29/02	KJP	
E	ECN 2379	7/16/03	KJP	
F	ECN 2627	3/29/04	KJP	
G	ECN 2757	5/5/04	ML	
H	ECN 3820	1/4/2006	JT	



SIGNAL NAME	FROM P209/P2		TO P23		WIRE COLOR	FERRULE
	PIN NO.	CONDUCTOR NO.	PIN NO.	CONDUCTOR NO.		
N/C			1		---	
GND	P209-1	2	2	2	BLACK	P4599-A
+24VDC	P209-2	3	3	3	BLACK	P4599-A
GND	P209-3	4	4	4	BLACK	P4599-A
+12V	P209-4	5	5	5	BLACK	P4599-A
GND	P2-2	6, 10	6	6, 10	BLACK, BLACK	P4598-A
+12V	P2-3	7	7	7	BLACK	P4599-A
GND	P2-4	8, 11	8	8, 11	BLACK	P4598-A
HV	P2-5	9	9	9, 1	BLACK, BLACK	P4598-A
HV	P2-1	1	9			
CHASSIS GND	GND LUG		GND LUG			

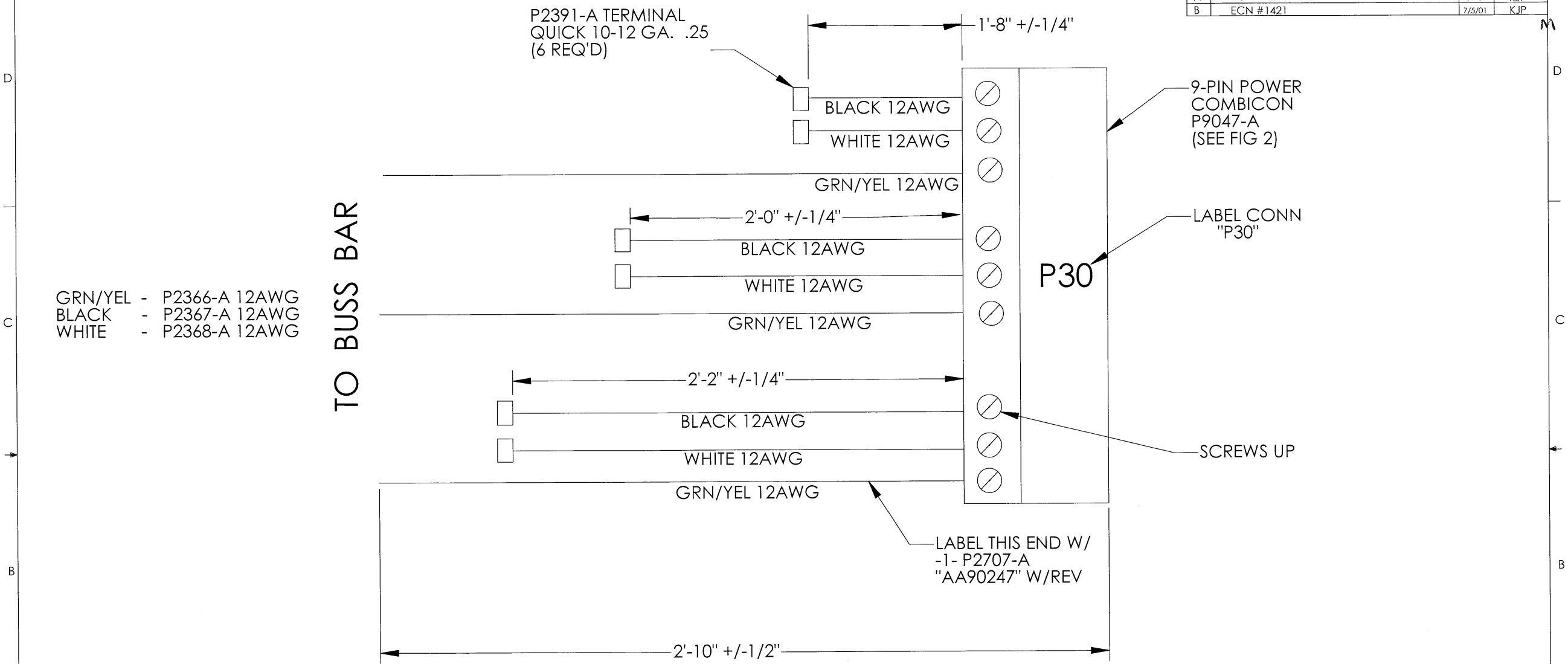


NOTES: 1. LABEL ALL WIRES WITH PANDUIT LABELS.
2. LABEL PER VAP-0522

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FOR CABLES WITH OVERALL LENGTH < 5 FT: +1.00 - 0	CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING		VUTEK INC. ONE VUTEK PLACE MEREDITH, N.H. 03253 VUTEK STANDARD CABLE DRAWING	
	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK, INC. IS PROHIBITED.			
FOR CABLES WITH OVERALL LENGTH > 5 FT: +3.00 - 0	DRAWN K.J.PORTER DATE 10/24/03	DESIGNED X DATE X	TITLE ASSY CABLE 3360 CARR. POWER P209 TO P23 AA90186	
MATERIAL SEE ABOVE	CAD FILE: AA90186 ASSY CABLE VAP-0492	SIZE B	DWG. NO. VAP-0492	REV. H
FINISH SEE ABOVE	SCALE 1:1	PROJECT: Cables Assy	SHEET 1 OF 1	29

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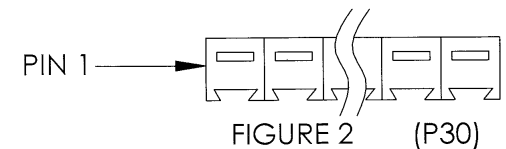
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	PROTOTYPE RELEASE	10/27/00	
A	ECN #1208	2/20/01	KJP
B	ECN #1421	7/5/01	KJP



GRN/YEL - P2366-A 12AWG
 BLACK - P2367-A 12AWG
 WHITE - P2368-A 12AWG

TO BUSS BAR

SIGNAL NAME	FROM P30	TO	WIRE COLOR
B1 AC1	1		BLACK
B1 AC2	2		WHITE
GND	3		GRN/YEL
B2 AC1	4		BLACK
B2 AC2	5		WHITE
GND	6		GRN/YEL
B3 AC1	7		BLACK
B3 AC2	8		WHITE
GND	9		GRN/YEL



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±.015 .XX ±.015 ±1 .XXX ±.005	CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE		VUTEK INC.	
	APPROVALS	DATE		
MATERIAL	DRAWN WINONA	10/27/00	ASSY CABLE CIRCUIT BREAKER POWER, 3360	
FINISH	CHECKED MLL	RESP ENG		
DO NOT SCALE DRAWING	PROJECT: 3360	SCALE 1:1	CAD FILE	SIZE B DWG. NO. AA90247 REV. B

6

5

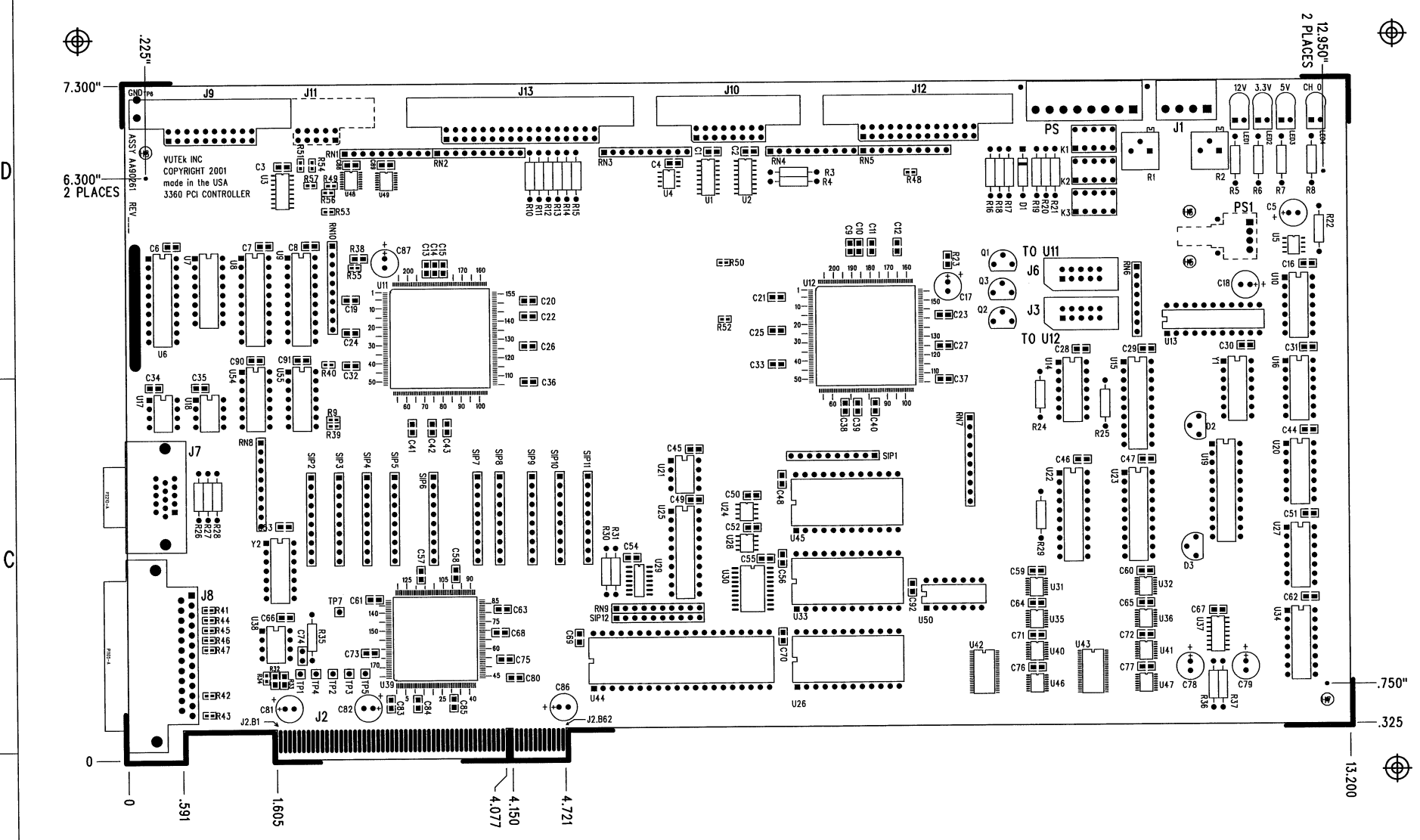
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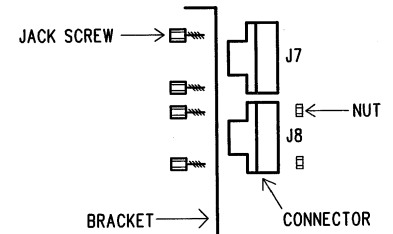
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REVISION RECORD		
DATE:	ECN #:	APP:



ASSEMBLY NOTES :

- (1) SECURE CONNECTOR J8 TO BOARD W/ 2 EACH :
 H1102-A 4-40x3/8 SCREW
 H1502-A #4 FLAT WASHER
 H1401-A 4-40 K-NUT
- (2) SECURE BRACKET TO CONNECTORS J7 & J8 W/ 2 EACH H1750-A
 J7 = JACK SCREWS ONLY J8 = JACK SCREWS & NUTS ONLY
 FLAT WASHERS & LOCK WASHERS ARE NOT USED



- (3) APPLY RED LOCTITE TO JACK SCREW, BLUE LOCTITE TO ALL OTHER SCREWS
- (4) SECURE PS1 & PS TO BOARD W/BUSS WIRE SOLDERED IN THRU HOLES
- (5) J11, PS1 & TP6 MOUNT ON BOTTOM SIDE OF BOARD
- (6) U13 & U19 ARE UNPOPULATED
- (7) ASSEMBLE PER IPC-610-C CLASS 2
 UNLESS OTHERWISE SPECIFIED

DRAWN: RICHE CORSO	DATED: 05/08/01	COMPANY: VUTEK Inc	1 VUTEK PLACE MEREDITH, NH 03253
SCHEME: A LAHUT	S8869-A	TITLE: 3360 PCI CONTROLLER	
BOARD: P9869-A			
ASSY #: AA90261	DRAWING: OP-AA90261	REV: 31	4
Mechanical Rev:		ASSEMBLY DRAWING	

6

5

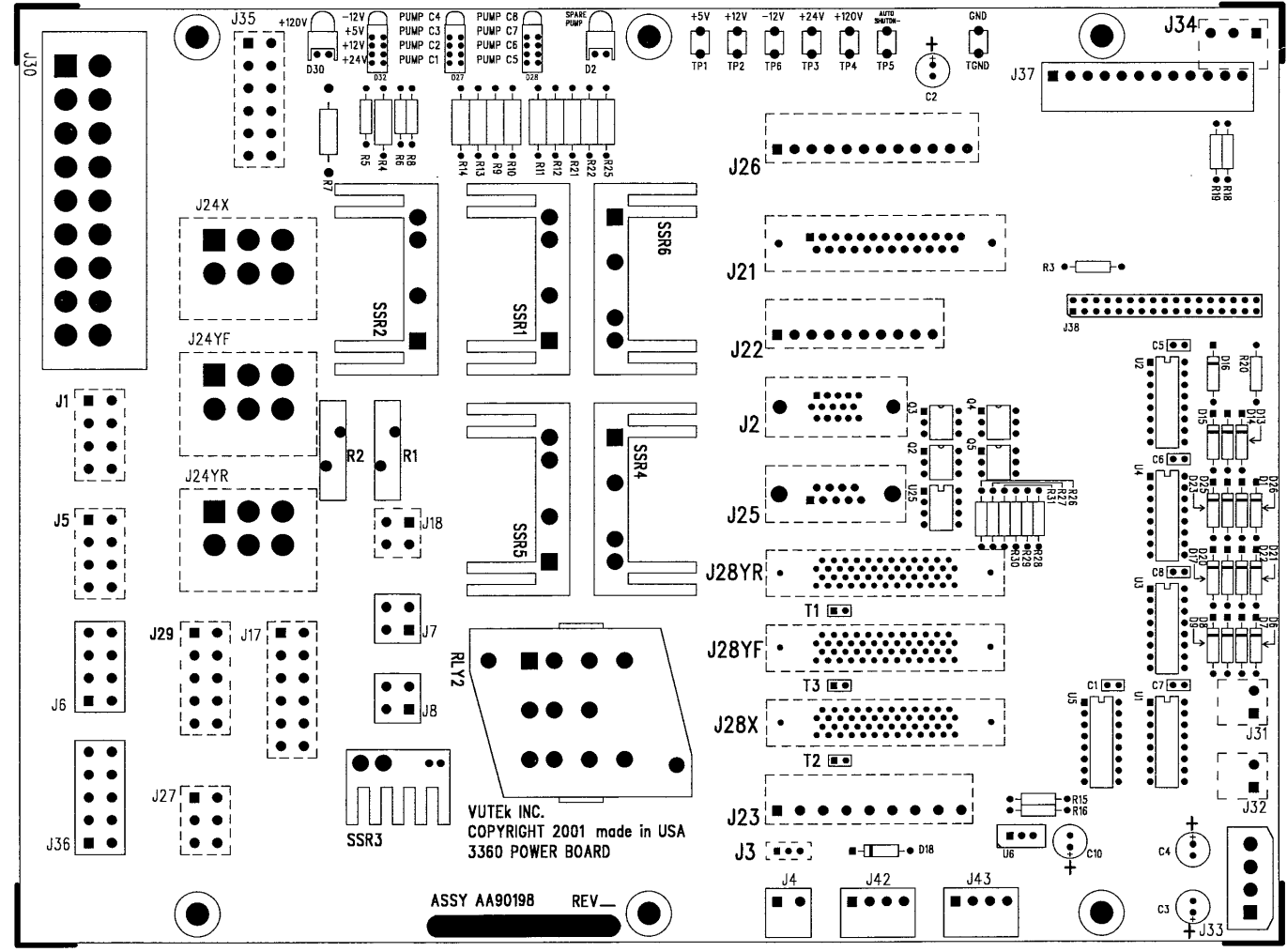
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3

2

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REVISION RECORD		
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01/29/01	ECN 1157	
01/31/01	ECN 1208	



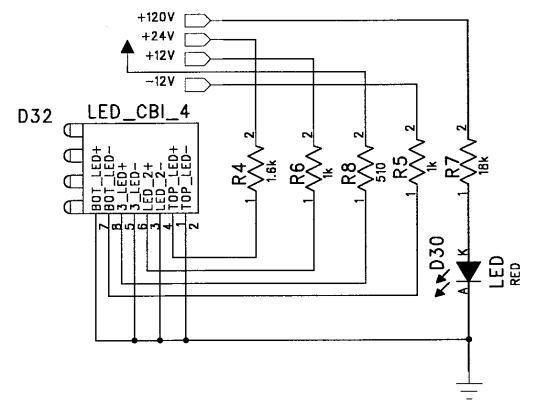
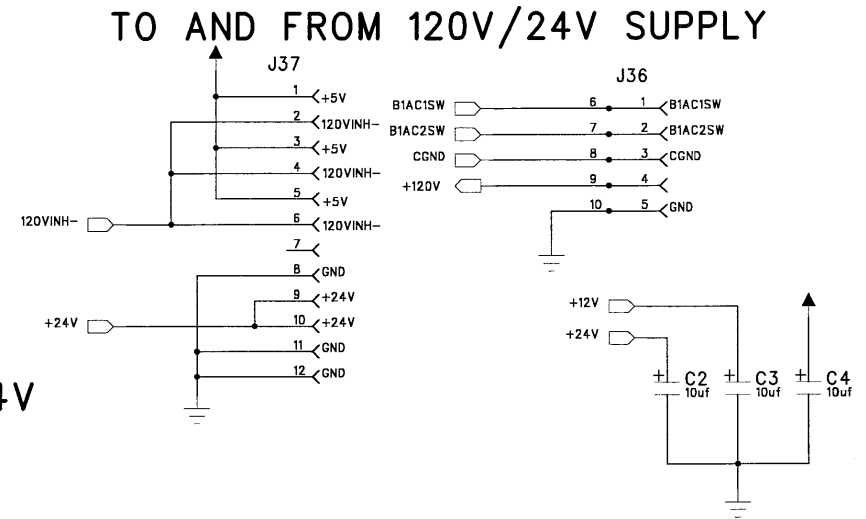
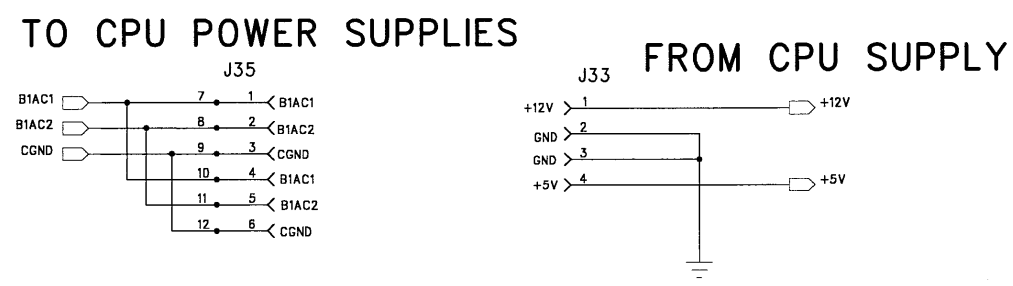
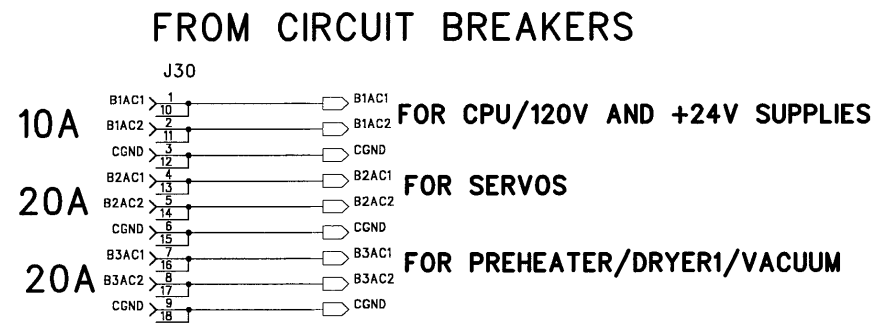
- FABRICATION NOTES :
- (1) BOARD THICKNESS = .093"
 - TOLERENCE - 10x OR .007, WHICH EVER IS GREATEST
 - (2) BOARD SIZE = 11.000" x 8.250"
 - TOLERANCE : +/- .010 @ .xx , .005 @ .xxx
 - (3) CONDUCTOR THICKNESS = 108u (3 oz./sq.ft.)
 - (4) 2 LAYER
 - (5) THRU HOLE ONLY
 - (6) MIN TRACE WIDTH = 12 mils
 - (7) 928 HOLES @ 12 SIZES SMALLEST HOLE = .035"
 - TOLERANCE - +/- .003
 - (8) SAME SOLDER MASK, TOP & BOTTOM SIDES, LPI GREEN
 - (9) WHITE SILKSCREEN ON COMPONENT SIDE

ASSY AA90198 REV _____

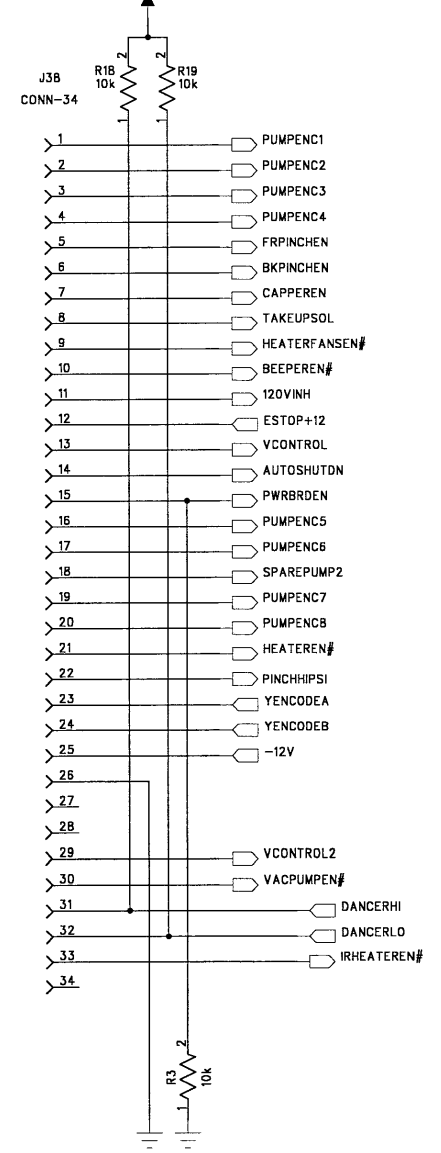
DRAWN: RICHE CORSO	DATED: 07/09/00	COMPANY: VUTEk Inc 189 WAIKEMAN STREET MEREDITH, NH 03253
SCHEME: POW3360A.SCH	S9621-A	TITLE: 3360 POWER BOARD
BOARD: 3360 POW A.PCB	P9621-A	
ASSY #: AA90198	DRAWING: P9621-A	REV: A
Mechanical Rev:	FAB DRAWING	

6 5 4 3 2 1

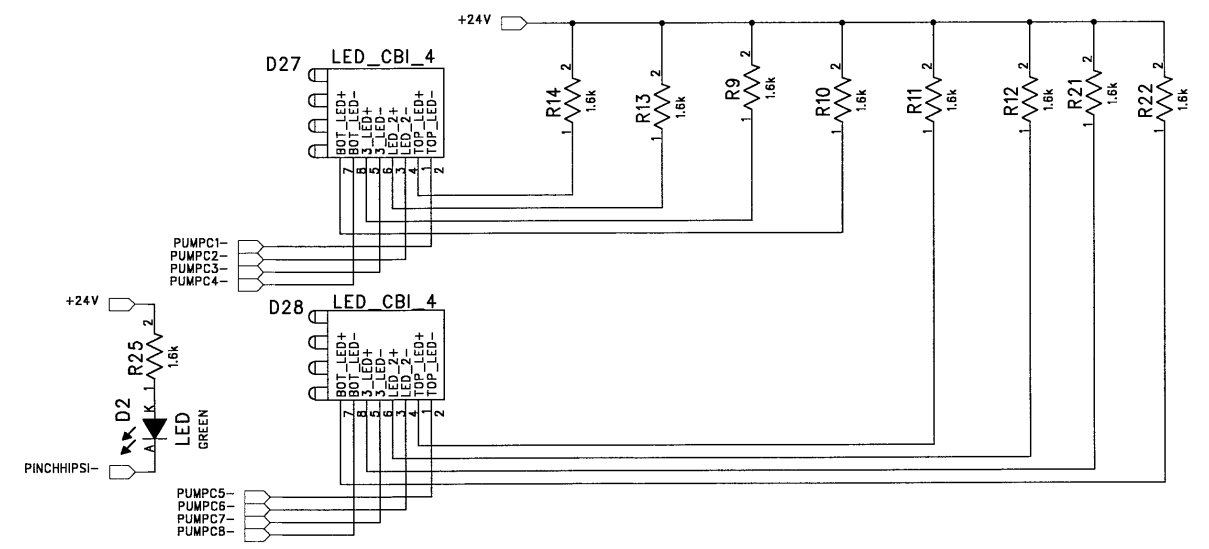
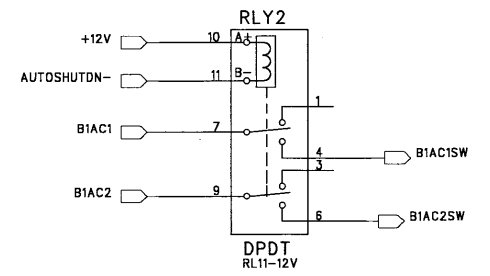
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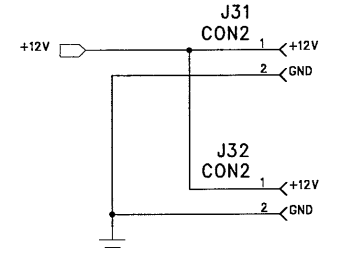
FROM CONTROL BOARD (Inside)



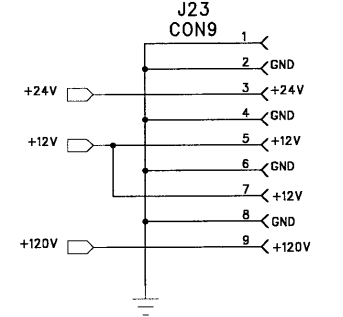
RELAY TO TURN ON 120V/24V



TO COOLING FANS



UMBILICAL POWER



COMPANY:	VUTEK INC. 189 WAUKEWAN STREET MEREDITH, NH 03253		
TITLE:	3360 POWER BOARD POW3360rA.SCH		
DRAWN:	Adam Lahut	DATED:	
CHECKED:		DATED:	
QUALITY CONTROL:		DATED:	
RELEASED:		DATED:	
SCALE:		DRAWING NO:	S9621-A
		REV:	A
SHEET: 1 OF 4			

6

5

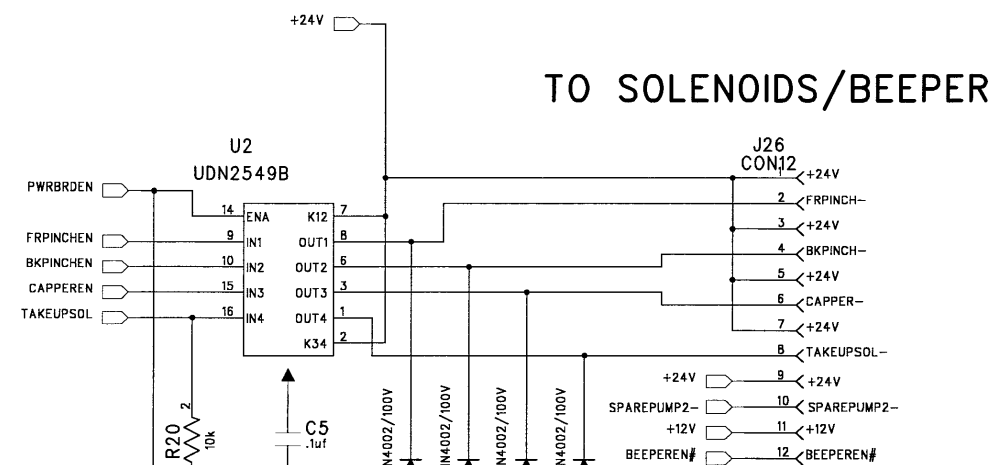
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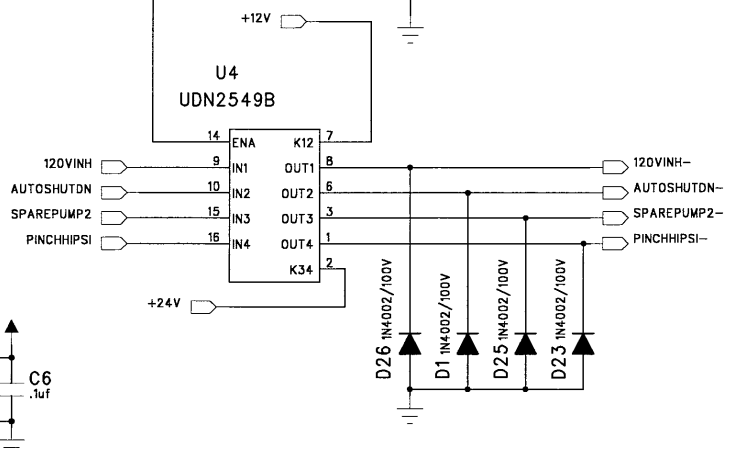
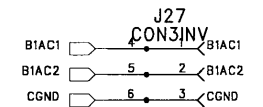
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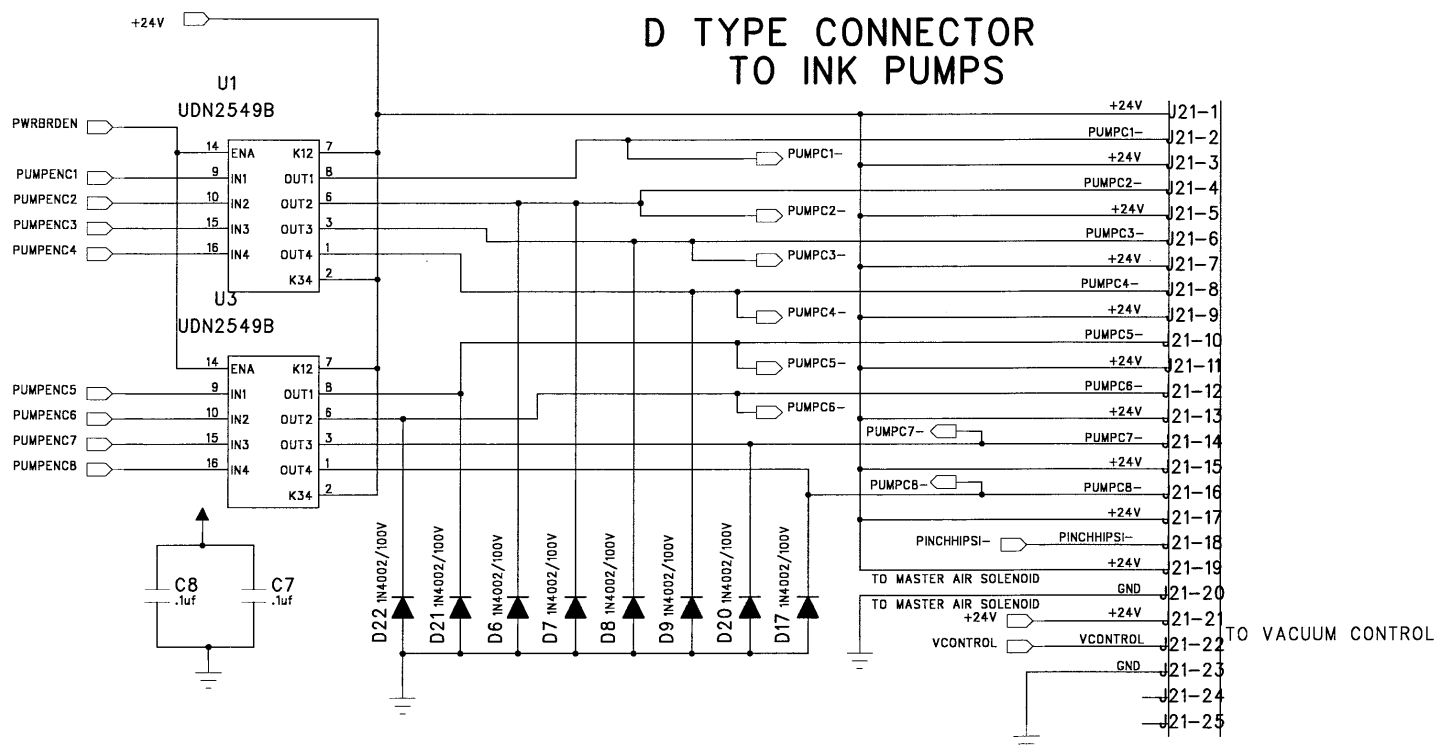
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:
	ECN 120B	01/31/01	



TO MONITOR POWER



D TYPE CONNECTOR TO INK PUMPS



Do Not Stuff

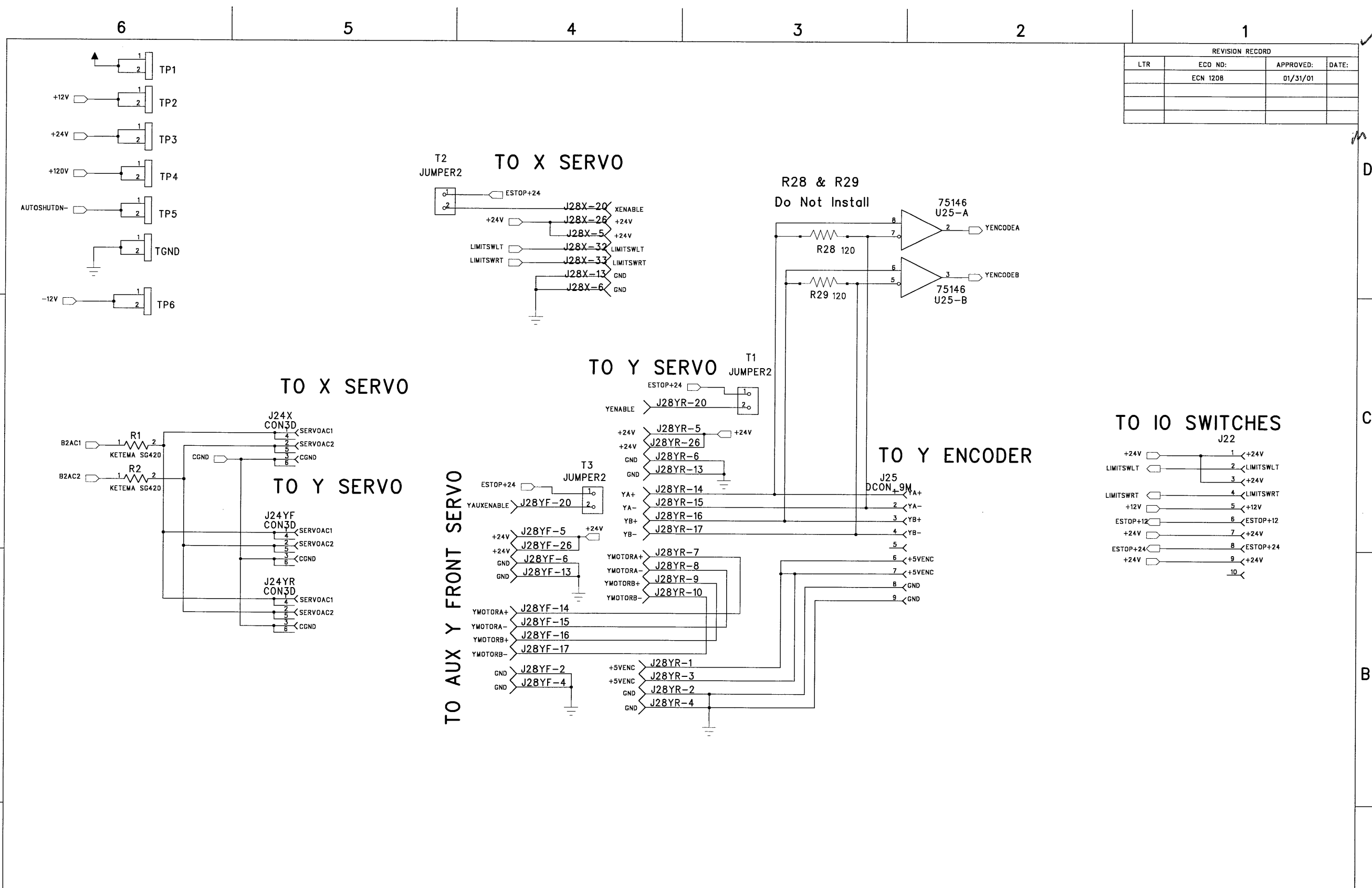
COMPANY: **VUTEK INC.** 189 WAUKEWAN STREET
MEREDITH, NH 03253

TITLE: **3360 POWER BOARD**
POW3360rA.SCH

DRAWN: Adam Lohut	DATED:
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:

CODE:	SIZE:	DRAWING NO:	REV:
		S9621-A	A
SCALE:	SHEET: 2 OF 4		

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:
	ECN 1208	01/31/01	



DRAWN: Adam Lahut		DATED:		COMPANY: VUTEK INC. 189 WAUKEWAN STREET MEREDITH, NH 03253			
CHECKED:		DATED:		TITLE: 3360 POWER BOARD POW3360rA.SCH			
QUALITY CONTROL:		DATED:		CODE:	SIZE:	DRAWING NO:	REV:
RELEASED:		DATED:		S9621-A			A
SCALE:						SHEET: 3 OF 4	

6

5

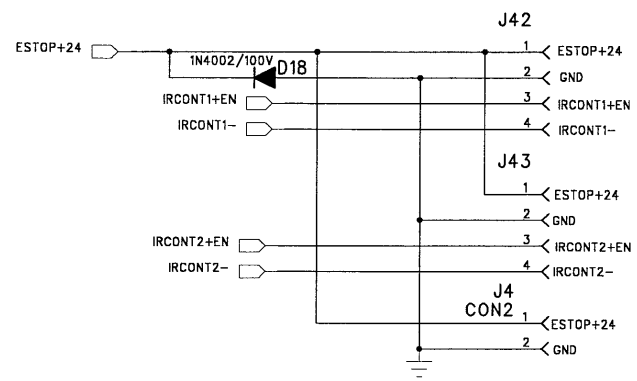
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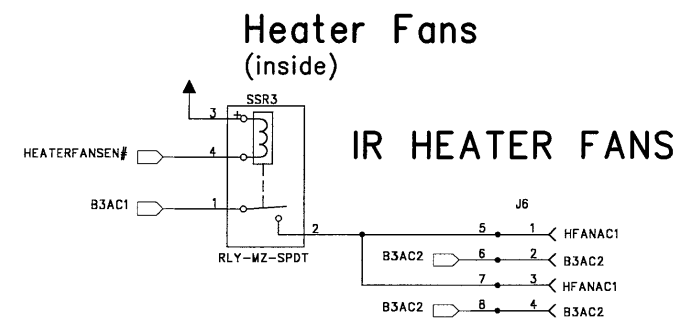
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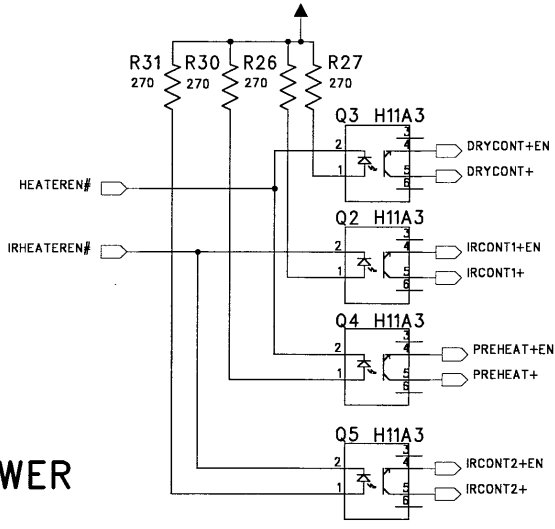
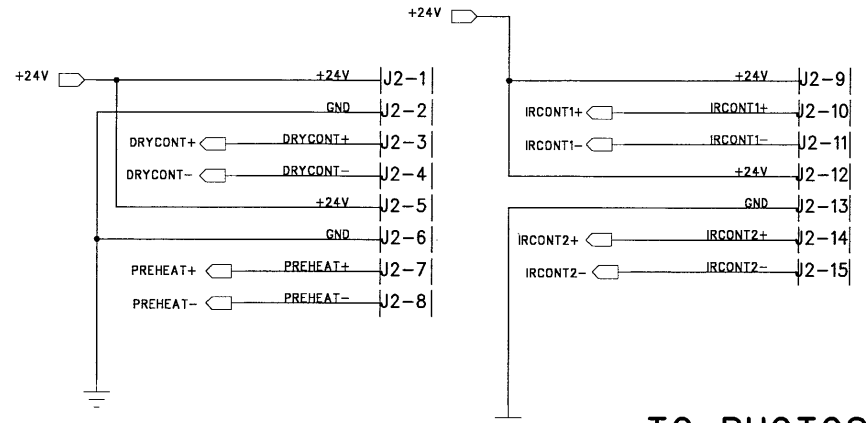
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LTR	ECO NO:	APPROVED:	DATE:
	ECN 1208	01/31/01	



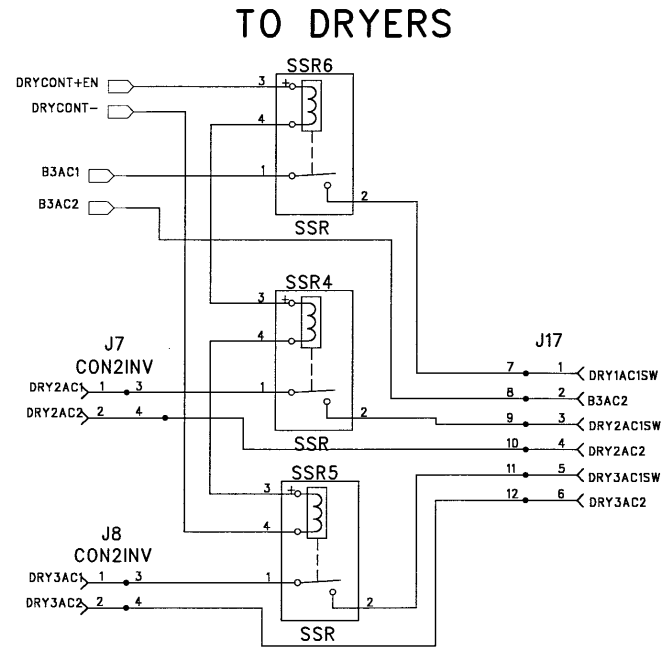
TO IR HEATER SSR/RELAY
TO MAIN CONTROL RELAY



TO TEMP. CONTROLLERS
D TYPE CONNECTOR

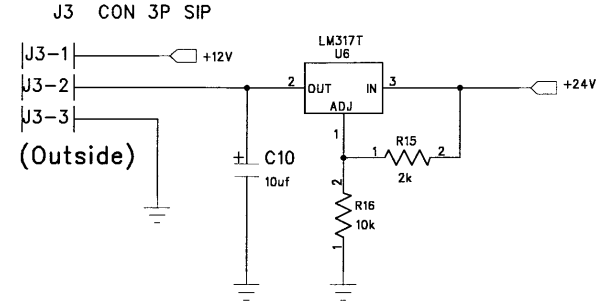
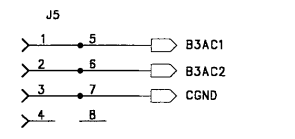


TO PHOTOSPECT POWER

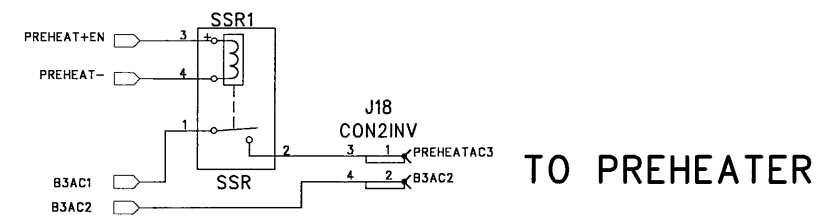


TO DRYERS

TO DANCER
(Outside)

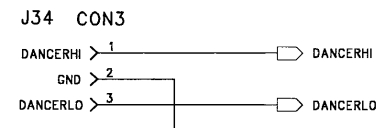


(Outside)

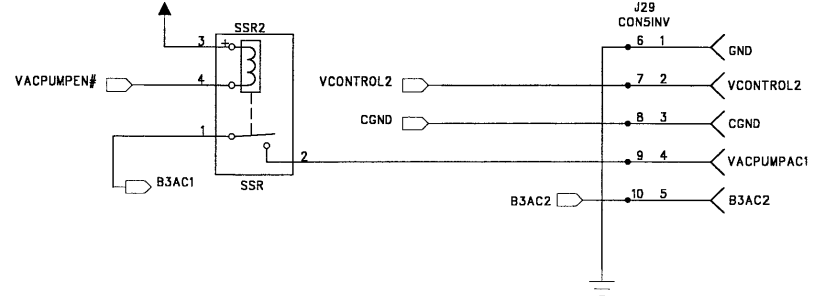


TO PREHEATER

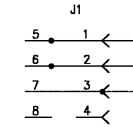
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(Outside)



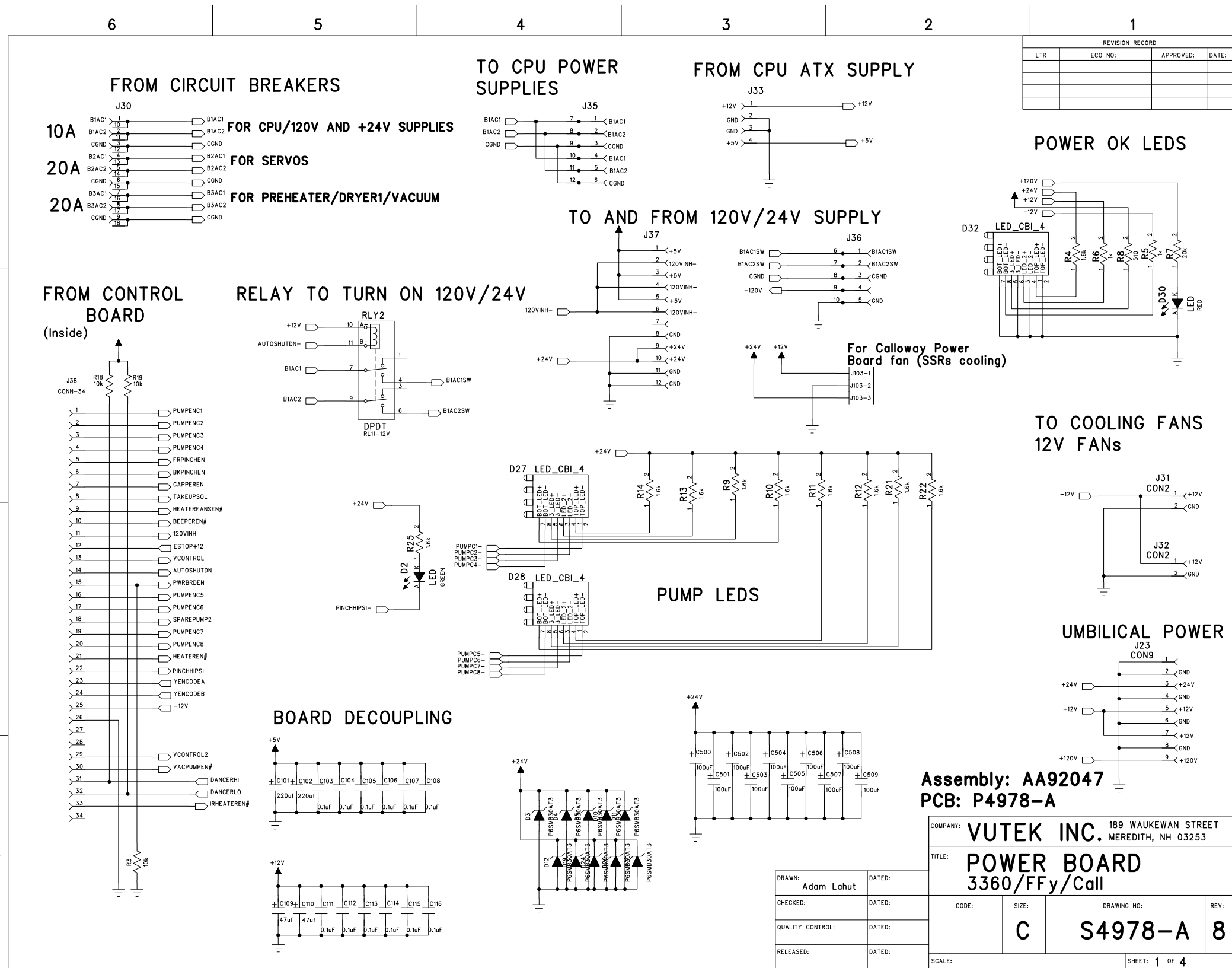
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(Outside)

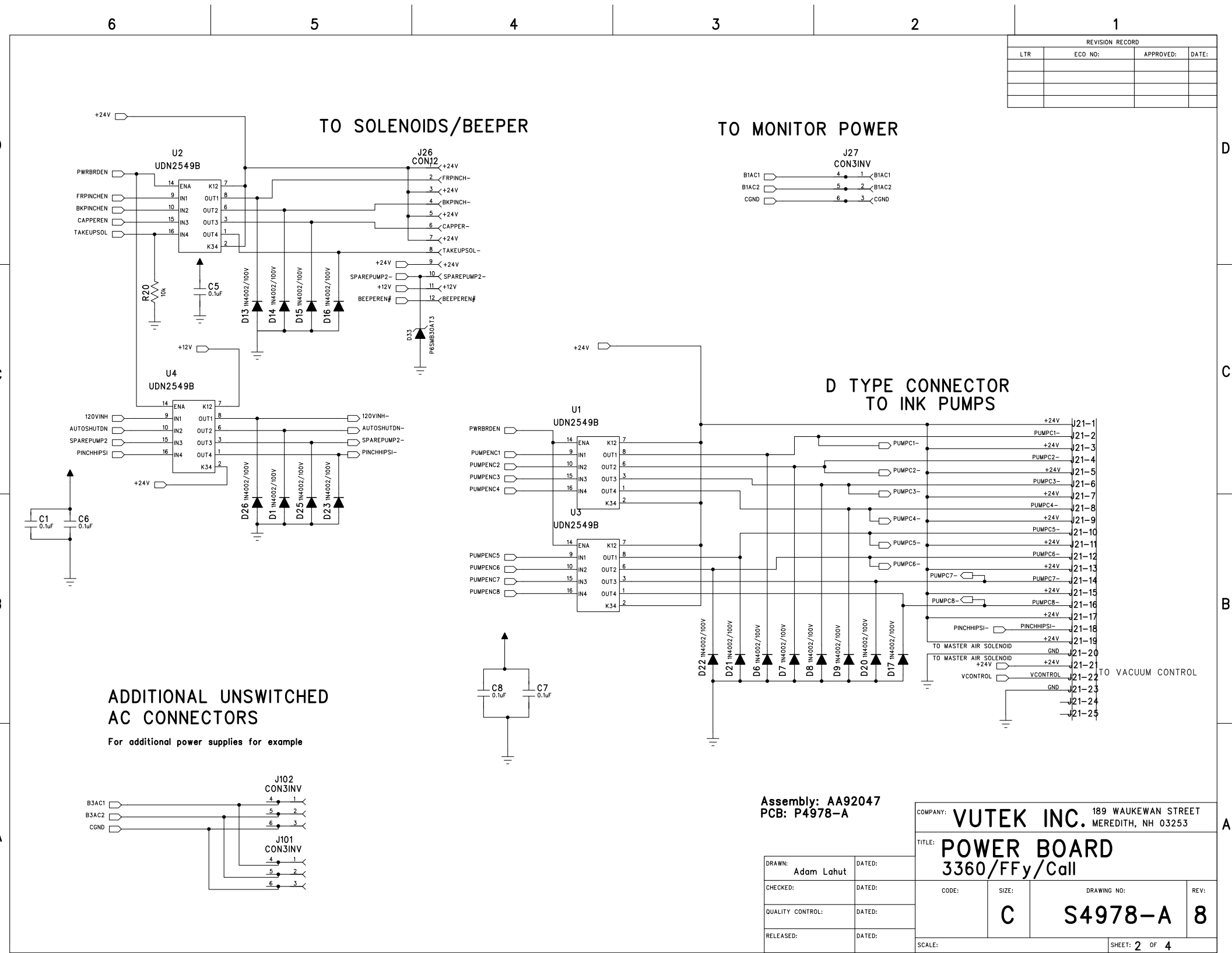


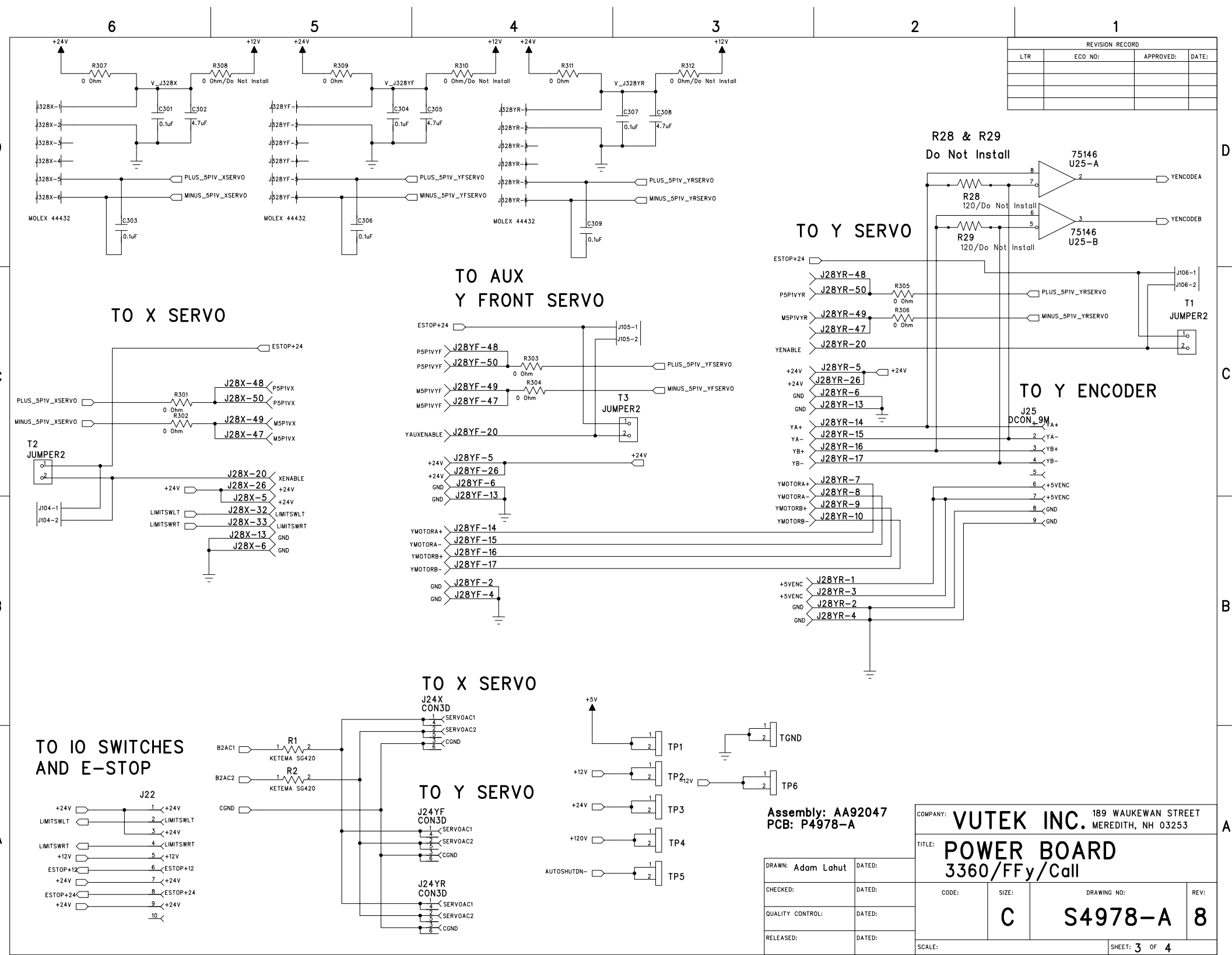
TO TAKEUP
(Outside)



COMPANY: VUTEK INC. 189 WAUKEWAN STREET MEREDITH, NH 03253	
TITLE: 3360 POWER BOARD POW3360rA.SCH	
DRAWN: PeteH	DATED: Th1-4-01
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:
CODE:	SIZE:
DRAWING NO: S9621-A	
REV: A	
SCALE:	
SHEET: 4 OF 4	







REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

R28 & R29
Do Not Install

TO Y SERVO

TO Y ENCODER

TO AUX
Y FRONT SERVO

TO X SERVO

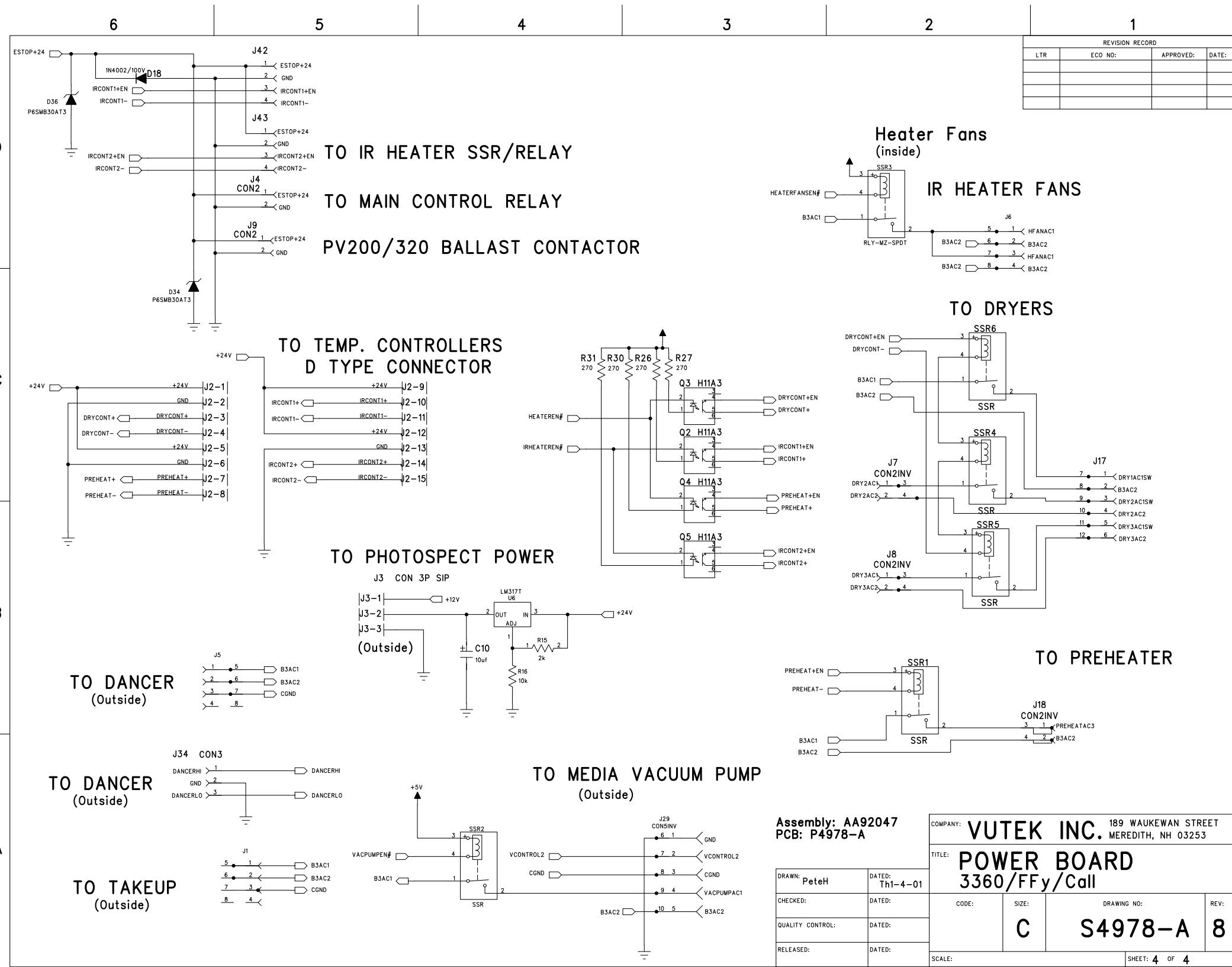
TO X SERVO

TO Y SERVO

TO IO SWITCHES
AND E-STOP

Assembly: AA92047
PCB: P4978-A

COMPANY: VUTEK INC. 189 WAUKEWAN STREET MEREDITH, NH 03253			
TITLE: POWER BOARD 3360/FFy/Call			
CHECKED:	DATED:	CODE:	SIZE:
QUALITY CONTROL:	DATED:	DRAWING NO:	REV:
RELEASED:	DATED:	C	S4978-A
SCALE:		SHEET: 3 OF 4	



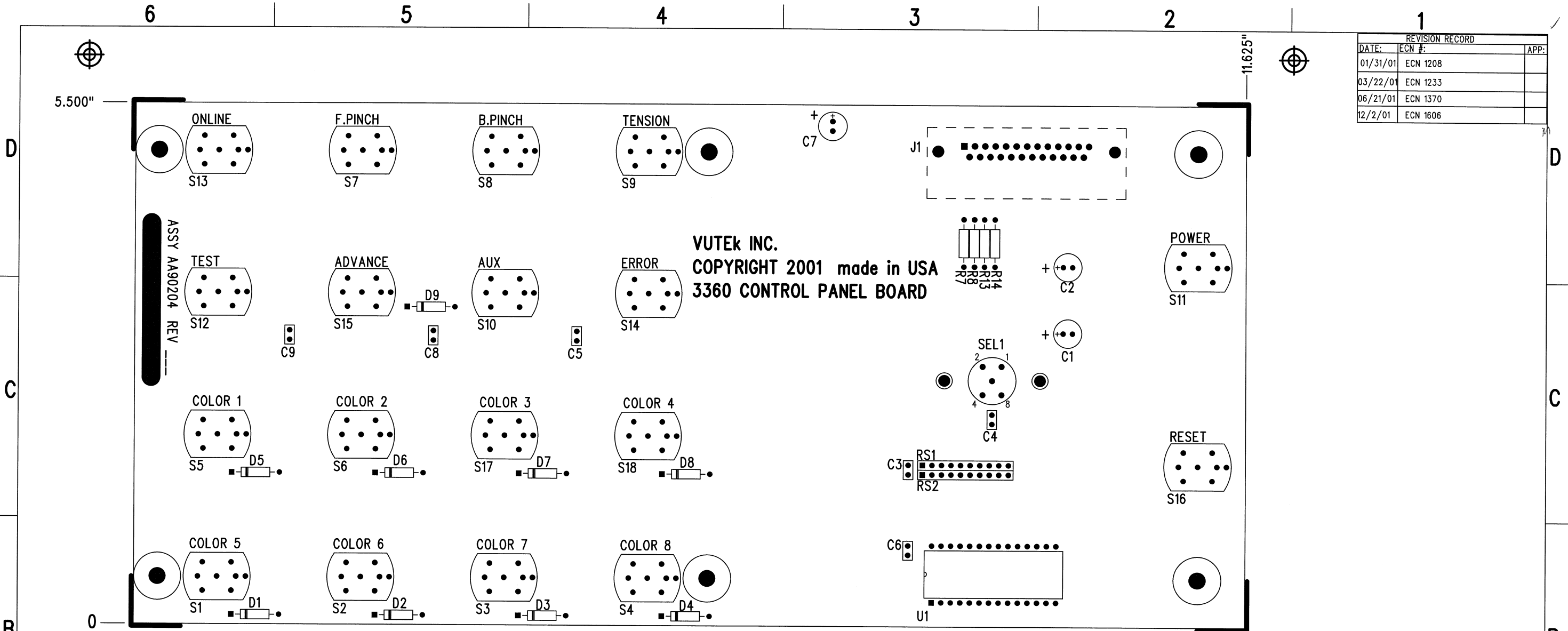
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

Assembly: AA92047
PCB: P4978-A

COMPANY: VUTEK INC. 189 WAUKEWAN STREET MEREDITH, NH 03253			
TITLE: POWER BOARD 3360/FFy/Call			
DRAWN: PeteH	DATED: Th1-4-01	CODE:	SIZE:
CHECKED:	DATED:	DRAWING NO: S4978-A	REV: 8
QUALITY CONTROL:	DATED:	SCALE:	SHEET: 4 OF 4
RELEASED:	DATED:		

REVISION RECORD		
DATE:	ECN #:	APP:
01/31/01	ECN 1208	
03/22/01	ECN 1233	
06/21/01	ECN 1370	
12/2/01	ECN 1606	

VUTEK INC.
 COPYRIGHT 2001 made in USA
 3360 CONTROL PANEL BOARD



ASSEMBLY NOTES :

- (1) J1 CAN BE SUPPLIED IN 3 DIFFERENT STYLES.
REFER TO FIGURE 2 TO APPLY PROPER HARDWARE
- (2) CONNECTOR J1 MOUNTS ON SOLDER SIDE

- (3) SECURE SWITCH SEL1 TO BOARD WITH:
BRACKET A70253-A, 4-40x3/8 SCREWS H1102-A, 4-40 KNUTS H1401-A,
LOCK WASHER & NUT(SUPPLIED W/SWITCH) (FIGURE 1)
- (4) SECURE EXTENSION ADAPTOR A70264-A TO SEL1
& APPLY RED LOCTITE TO SHAFT & ADAPTOR.
DO NOT GET LOCTITE IN SWITCH
- (5) ASSEMBLE PER IPC-610-C CLASS 2
UNLESS OTHERWISE SPECIFIED

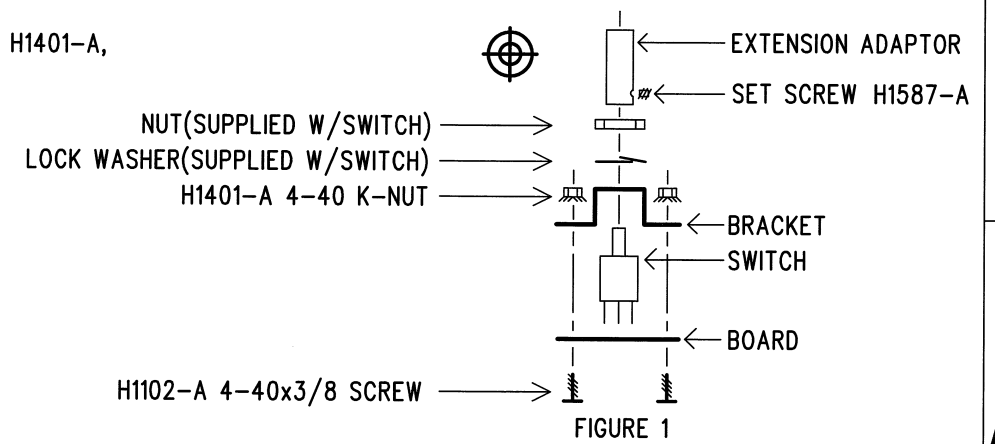
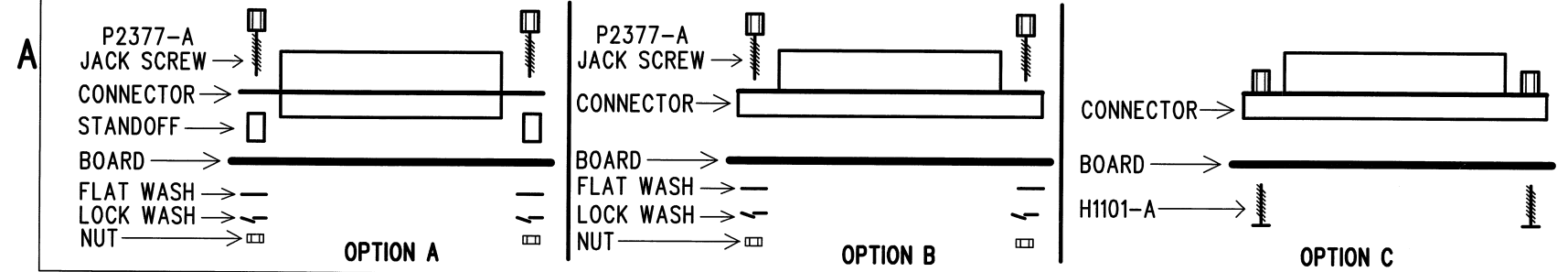


FIGURE 2



DRAWN: RICHE CORSO	DATED: 07/09/00	COMPANY: VUTEk Inc 189 WAUKEWAN STREET MEREDITH, NH 03253
SCHEME: P HEATH PANF3360 C.SCH	TITLE: S9635-A P9635-A	TITLE: 3360 CONTROL PANEL
BOARD: 3360 PAN C.PCB	ASSY #: AA90204	DRAWING: OP-AA90204 P9635-A
Mechanical Rev: 0		REV: ASSEMBLY DRAWING C1

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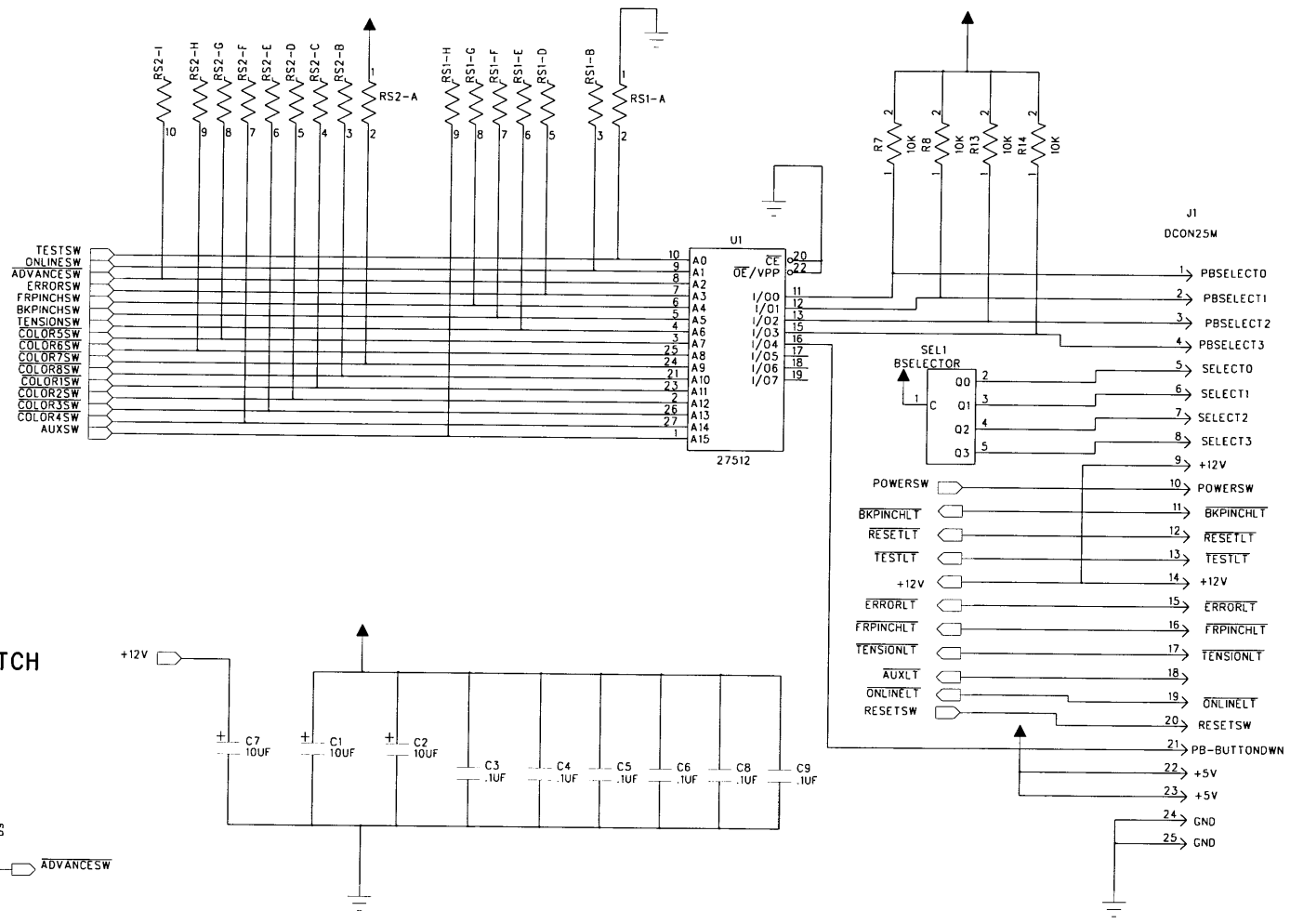
2

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	ECN 1208	01/31/01	
	ECN 1370	06/22/01	

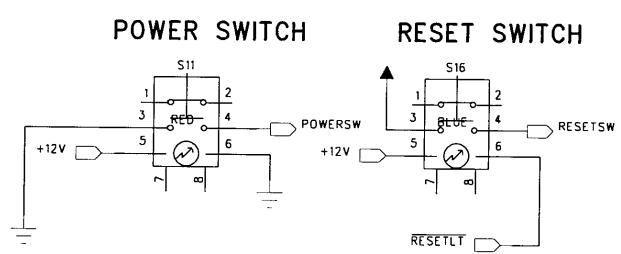
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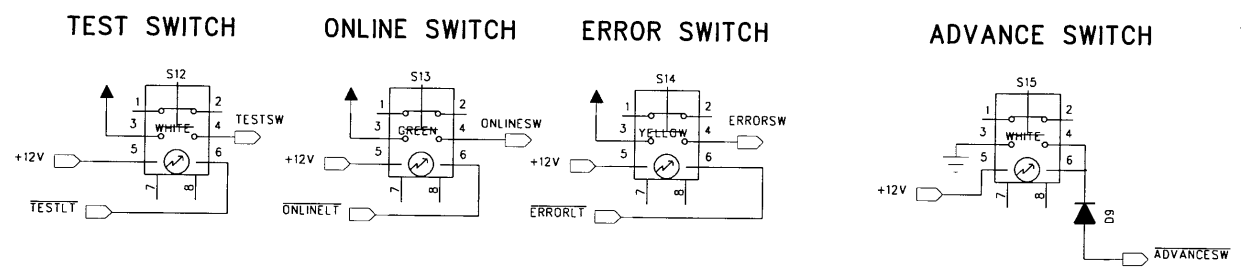
C

C



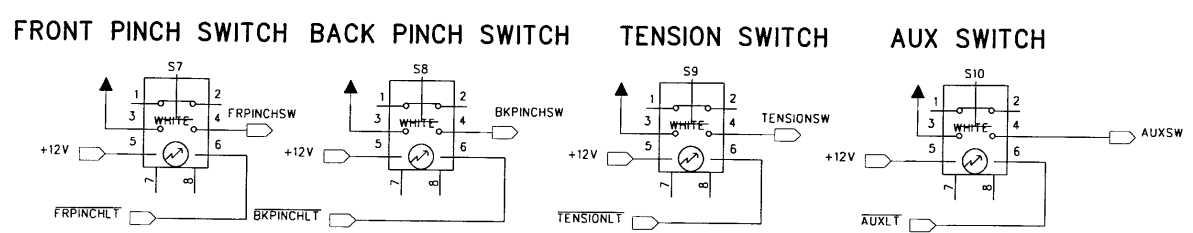
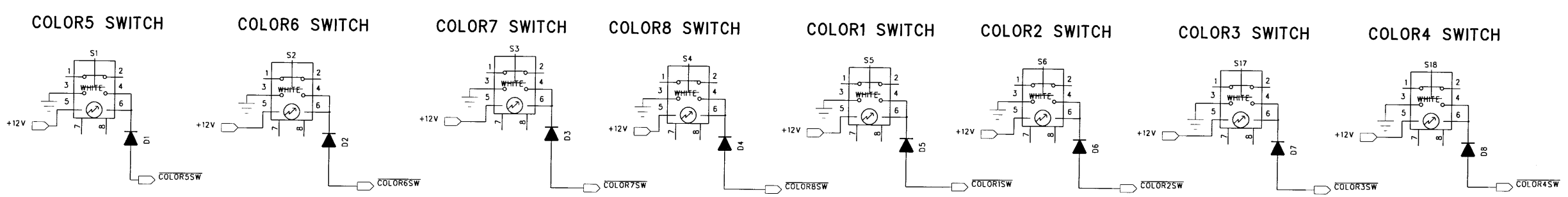
B

B



A

A



COMPANY: **VUTEK INC**

TITLE: **CONTROL PANEL 3360**

DRAWN: **R Moren** DATED: **6/22/2000**

CHECKED: DATED:

QUALITY CONTROL: DATED:

RELEASED: DATED:

SCALE:

PANF3360 C

CODE: SIZE: DRAWING NO: REV:

S9635-A C

SHEET: 1 OF 1

1 2 3 4 5 6 7 8 9 10

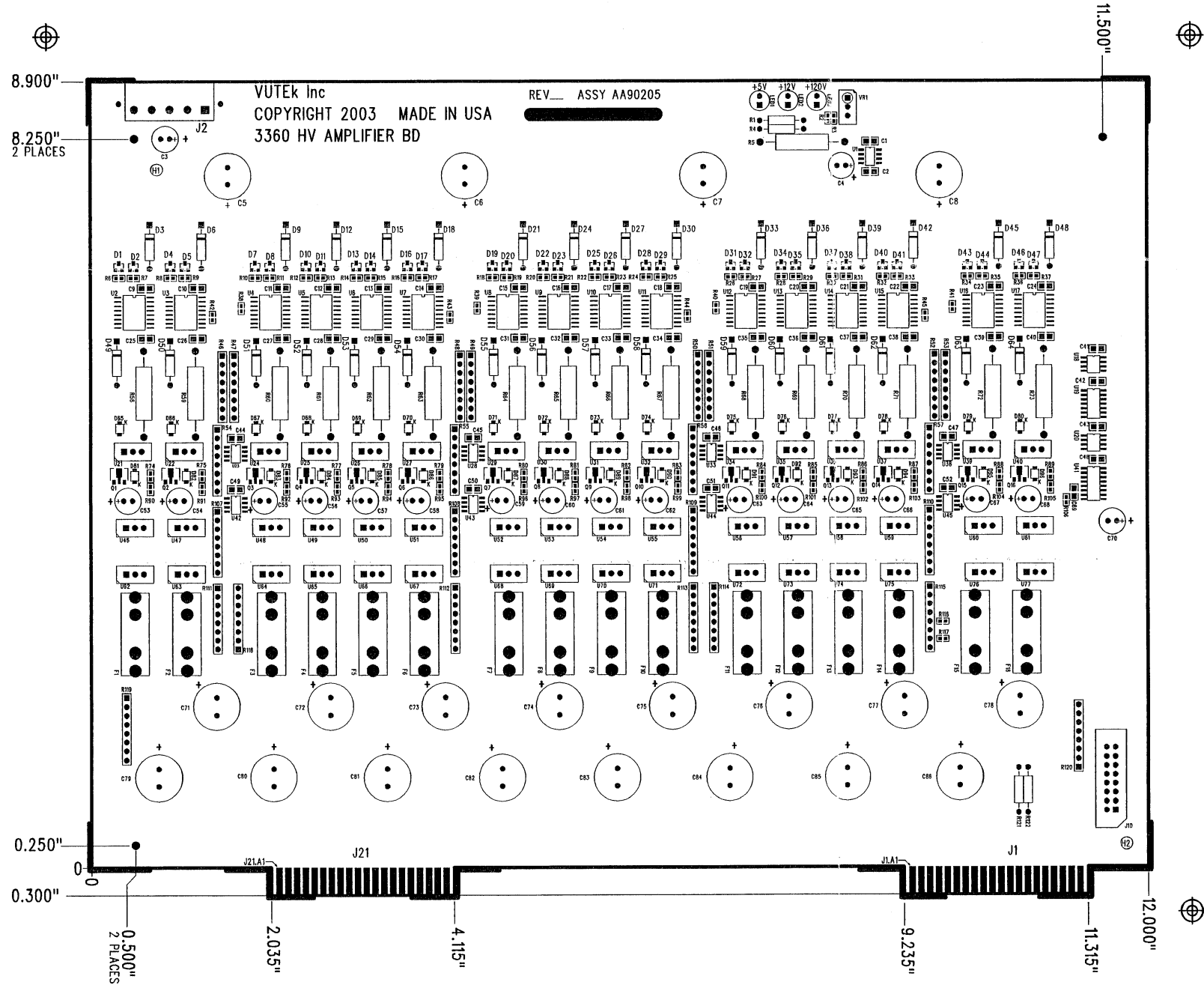
REVISION RECORD				
REV	DESCRIPTION	DATE	CHECKED	APPROVED
A	ECN 1208	2/5/01		
B	ECN 1931	9/11/02		
C	ECN 2210	4/1/03		
D	ECN 2235	4/15/03		

ASSEMBLY NOTES :

- (1) SECURE J2 TO BOARD W/ BUS WIRE SOLDERED IN THRU HOLES
- (2) ASSEMBLE PER IPC-610-C CLASS 2 -UNLESS OTHERWISE SPECIFIED-

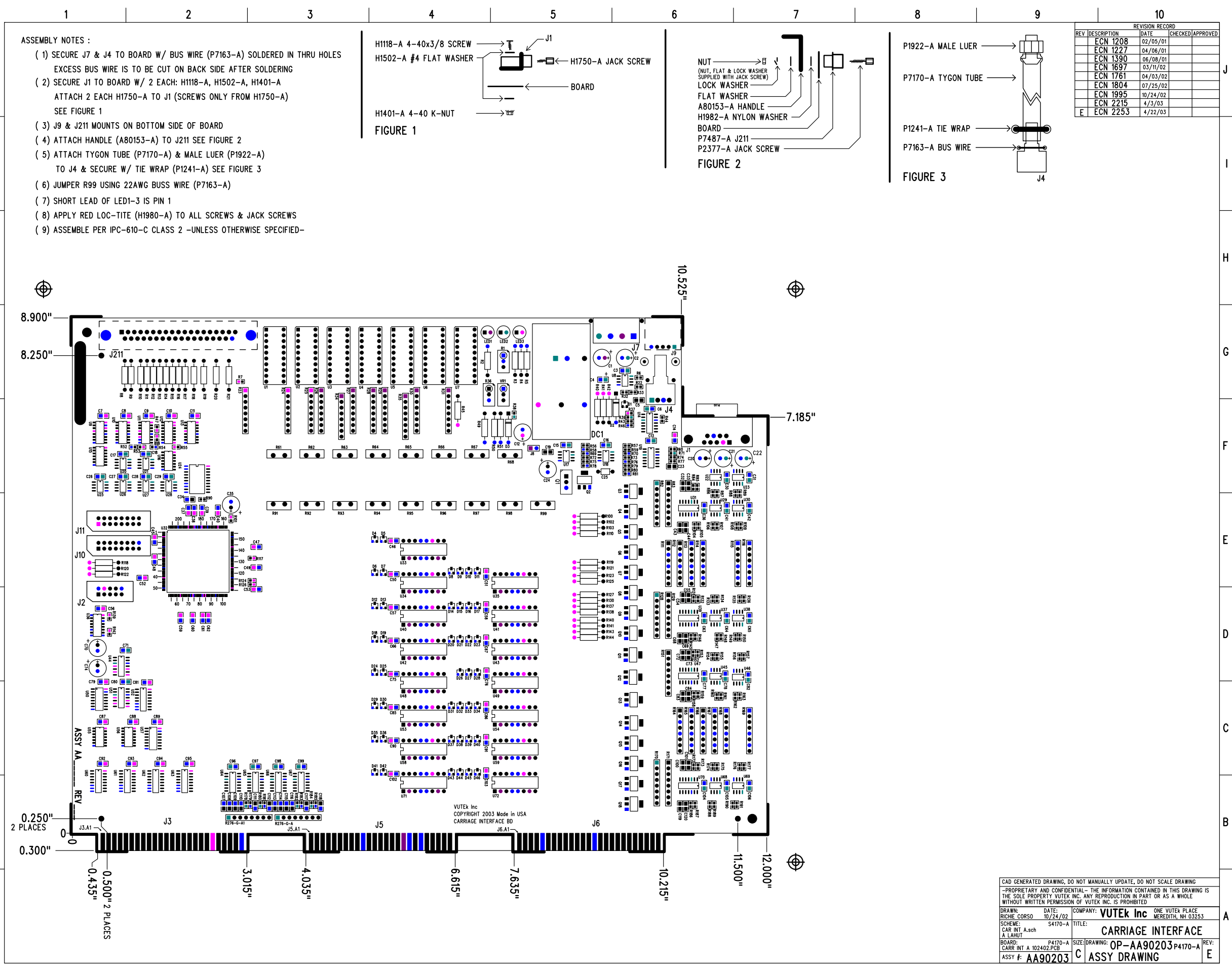
J
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VUTEk Inc
 COPYRIGHT 2003 MADE IN USA
 3360 HV AMPLIFIER BD
 REV_ ASSY AA90205

CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE DRAWING			
-PROPRIETARY AND CONFIDENTIAL- THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK INC. IS PROHIBITED			
DRAWN: RICHE CORSO	DATE: 09/11/02	COMPANY: VUTEk Inc	ONE VUTEK PLACE MEREDITH, NH 03253
SCHEME: 9636-A	TITLE: 3360 HV AMPLIFIER B.d	SIZE: C	DRAWING: OP-AA90205 P0636-A
BOARD: 9636-A	ASSY: AA90205	REV: D	ASSY DRAWING



ASSEMBLY NOTES :

- (1) SECURE J7 & J4 TO BOARD W/ BUS WIRE (P7163-A) SOLDERED IN THRU HOLES
EXCESS BUS WIRE IS TO BE CUT ON BACK SIDE AFTER SOLDERING
- (2) SECURE J1 TO BOARD W/ 2 EACH: H1118-A, H1502-A, H1401-A
ATTACH 2 EACH H1750-A TO J1 (SCREWS ONLY FROM H1750-A)
SEE FIGURE 1
- (3) J9 & J211 MOUNTS ON BOTTOM SIDE OF BOARD
- (4) ATTACH HANDLE (A80153-A) TO J211 SEE FIGURE 2
- (5) ATTACH TYGON TUBE (P7170-A) & MALE LUER (P1922-A)
TO J4 & SECURE W/ TIE WRAP (P1241-A) SEE FIGURE 3
- (6) JUMPER R99 USING 22AWG BUSS WIRE (P7163-A)
- (7) SHORT LEAD OF LED1-3 IS PIN 1
- (8) APPLY RED LOC-TITE (H1980-A) TO ALL SCREWS & JACK SCREWS
- (9) ASSEMBLE PER IPC-610-C CLASS 2 -UNLESS OTHERWISE SPECIFIED-

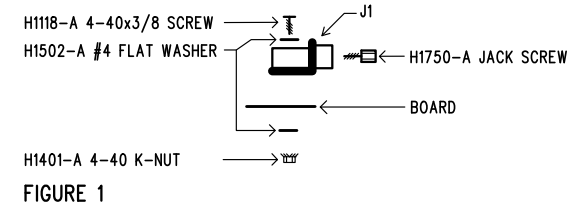


FIGURE 1

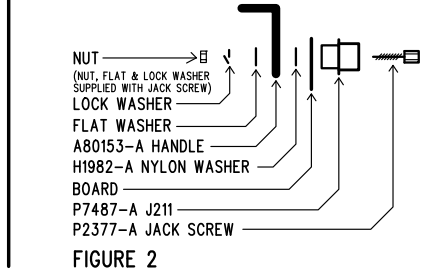


FIGURE 2

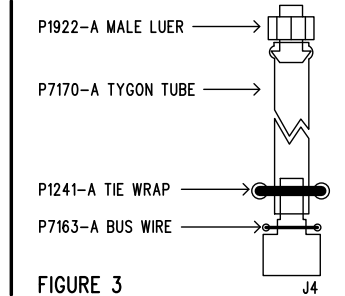


FIGURE 3

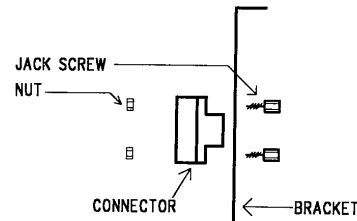
REVISION RECORD			
REV	DESCRIPTION	DATE	CHECKED/APPROVED
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	ECN 1227	04/06/01	
	ECN 1390	06/08/01	
	ECN 1697	03/11/02	
	ECN 1761	04/03/02	
	ECN 1804	07/25/02	
	ECN 1995	10/24/02	
	ECN 2215	4/3/03	
E	ECN 2253	4/22/03	

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DRAWN: RICHEL CORSO	DATE: 10/24/02	COMPANY: VUTEK Inc	ONE VUTEK PLACE MERIDITH, NH 03253
SCHEME: CAR INT A.sch A LAHUJ	S4170-A	TITLE: CARRIAGE INTERFACE	
BOARD: CARR INT A 102402.PCB	P4170-A	SIZE: DRAWING: OP-AA90203	P4170-A
ASSY #: AA90203	C	ASSY DRAWING	REV: E

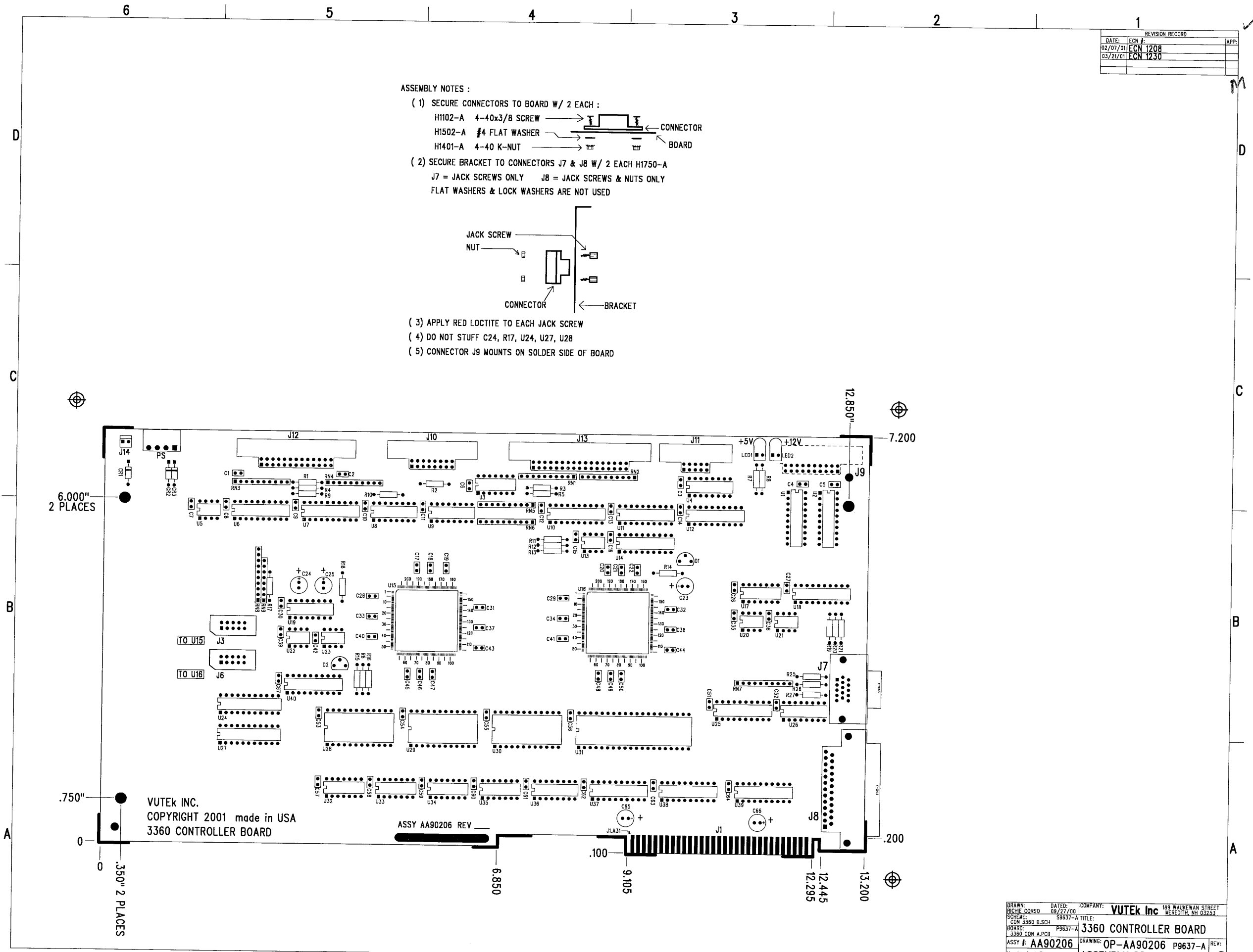
REVISION RECORD		
DATE:	ECN #:	APP:
02/07/01	ECN 1208	
03/21/01	ECN 1230	

ASSEMBLY NOTES :

- (1) SECURE CONNECTORS TO BOARD W/ 2 EACH :
 H1102-A 4-40x3/8 SCREW
 H1502-A #4 FLAT WASHER
 H1401-A 4-40 K-NUT
- (2) SECURE BRACKET TO CONNECTORS J7 & J8 W/ 2 EACH H1750-A
 J7 = JACK SCREWS ONLY J8 = JACK SCREWS & NUTS ONLY
 FLAT WASHERS & LOCK WASHERS ARE NOT USED



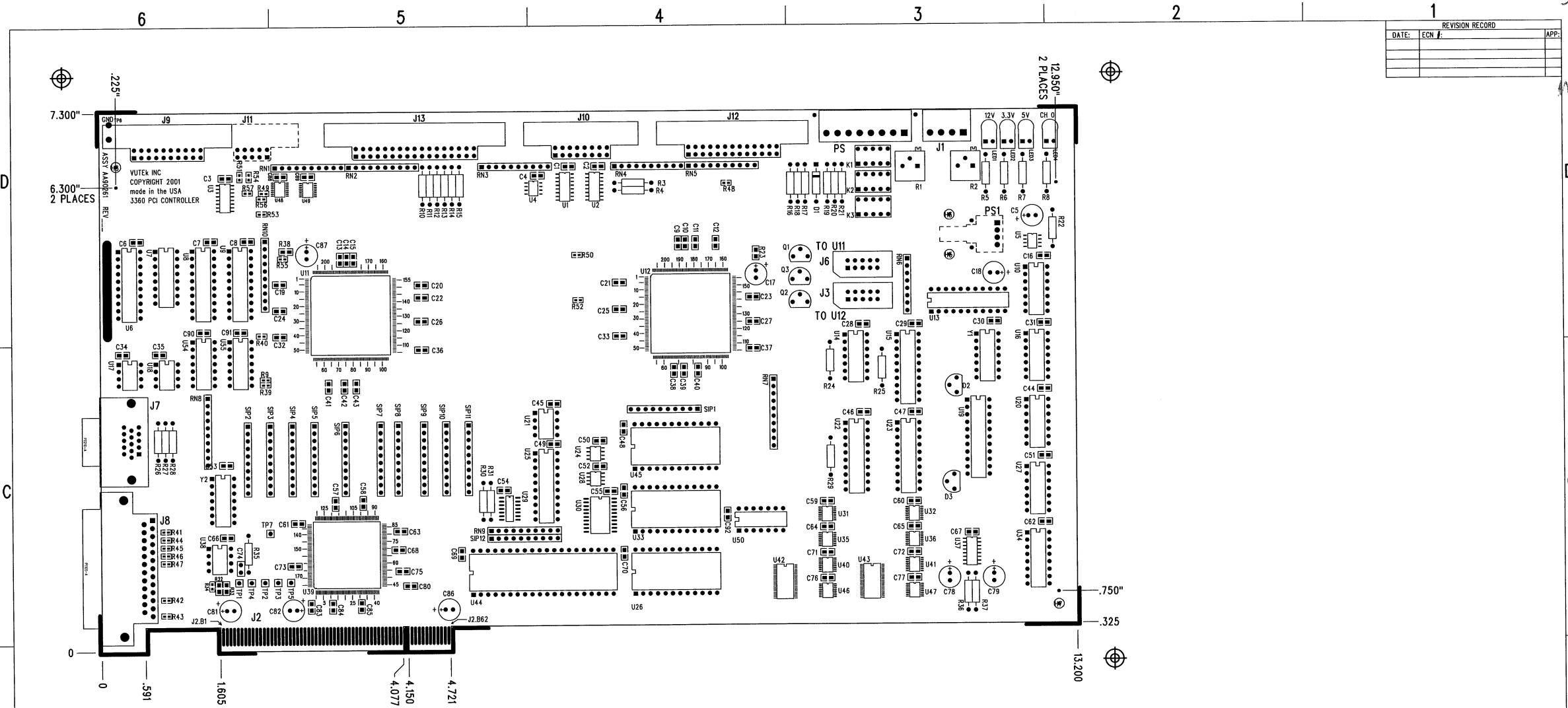
- (3) APPLY RED LOCTITE TO EACH JACK SCREW
- (4) DO NOT STUFF C24, R17, U24, U27, U28
- (5) CONNECTOR J9 MOUNTS ON SOLDER SIDE OF BOARD



VUTEK INC.
 COPYRIGHT 2001 made in USA
 3360 CONTROLLER BOARD

ASSY AA90206 REV

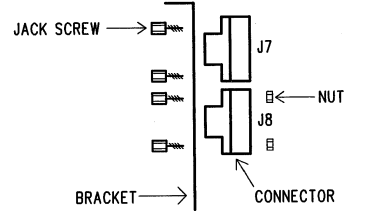
DRAWN: RICHIE CORSO	DATE: 09/27/00	COMPANY: VUTEK Inc	189 WAUKEGAN STREET MERCERVILLE, OH 43053
SCHEME: C30N 3360 B.SCH	S9637-A	TITLE: 3360 CONTROLLER BOARD	
BOARD: 3360 CON A.PCB	P9637-A	DRAWING: OP-AA90206 P9637-A	REV: B
ASSY #: AA90206		Mechanical Rev:	



REVISION RECORD		
DATE:	ECN #:	APP:

ASSEMBLY NOTES :

- (1) SECURE CONNECTOR J8 TO BOARD W/ 2 EACH :
 - H1102-A 4-40x3/8 SCREW
 - H1502-A #4 FLAT WASHER
 - H1401-A 4-40 K-NUT
- (2) SECURE BRACKET TO CONNECTORS J7 & J8 W/ 2 EACH H1750-A
 - J7 = JACK SCREWS ONLY J8 = JACK SCREWS & NUTS ONLY
 - FLAT WASHERS & LOCK WASHERS ARE NOT USED



- (3) APPLY RED LOCTITE TO JACK SCREW, BLUE LOCTITE TO ALL OTHER SCREWS
- (4) SECURE PS1 & PS TO BOARD W/BUSS WIRE SOLDERED IN THRU HOLES
- (5) J11, PS1 & TP6 MOUNT ON BOTTOM SIDE OF BOARD
- (6) U13 & U19 ARE UNPOPULATED
- (7) ASSEMBLE PER IPC-610-C CLASS 2 UNLESS OTHERWISE SPECIFIED

DRAWN: RICHE CORSO	DATED: 05/08/01	COMPANY: VUTEK Inc	1 VUTEK PLACE MERRIDEN, NH 03253
SCHEME: A LAHUT		TITLE: 3360 PCI 4 PCB	
BOARD: P9869-A		3360 PCI CONTROLLER	
ASSY #: AA90261	DRAWING: OP-AA90261	P9869-A	REV: 4
Mechanical Rev:	ASSEMBLY DRAWING		

REVISION RECORD			
REV	DESCRIPTION	DATE	CHECKED/APPROVED
ECN 1808		03/02/01	
ECN 1806		04/12/02	
A	ECN 1806	06/19/02	
	ECN 1846	07/16/02	
	ECN 1938	10/10/02	

- ASSEMBLY NOTES:
- (1) CONNECTORS J12-14, 31-34, 36-47, 55-58
MOUNT TO BOTTOM SIDE OF BOARD
 - (2) TO IDENTIFY PIN 1 ON CONNECTORS J8-14,20,25,27,28,31-34
SEE FIGURE 1
 - (3) TO IDENTIFY PIN 1 ON CONNECTORS J15-19,22,24,26
SEE FIGURE 2
 - (4) APPLY 4 LAYERS OF URETHANE CONFORMAL COATING TO SILKSCREEN
SIDE OF BOARD URETHANE CONFORMAL COATING MUST MEET THE
REQUIREMENTS OF MIL-I-46058C TYPE UR
 - (5) ASSEMBLE PER IPC-610-C CLASS 2 -UNLESS OTHERWISE SPECIFIED-

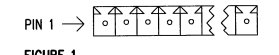


FIGURE 1

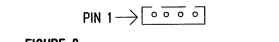
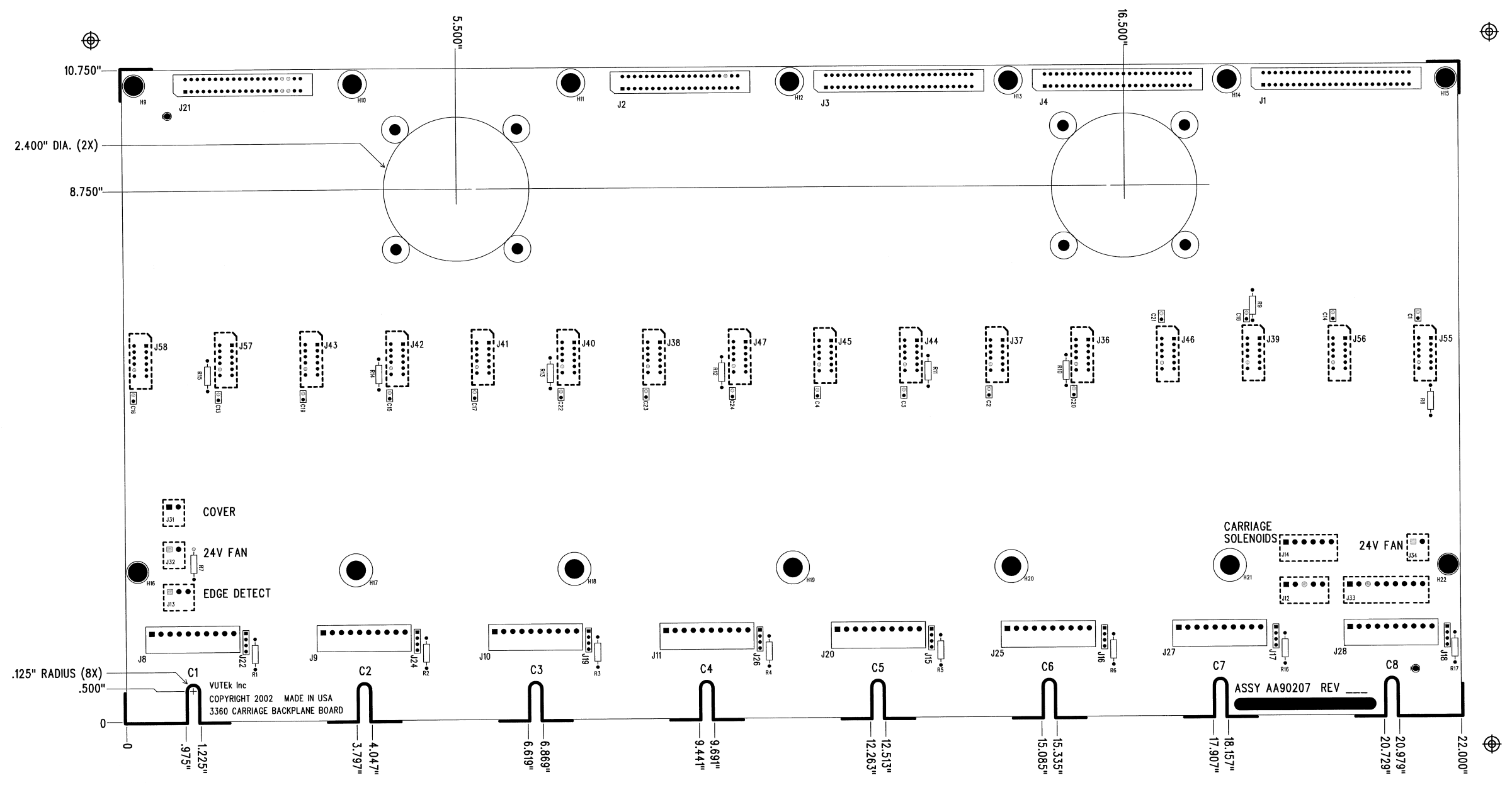


FIGURE 2



CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE. DO NOT SCALE DRAWING			
-PROPRIETARY AND CONFIDENTIAL- THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK INC. IS PROHIBITED.			
DRAWN: BOHNE CORSD	DATE: 06/19/02	COMPANY: VUTEK Inc	ONE VUTEK PLACE MERIDITH, NH 03253
SCHEME: 3360BACKPLA.SCH	DATE: 06/19/02	TITLE: 3360 BACKPLANE BD	
ENGINEER NAME: 3360 BACK PLANE B.PCB	SIZE: P9638-A	ASSY # AA90207	REV: 1
BOARD: 3360 BACK PLANE B.PCB	SIZE: P9638-A	ASSY # AA90207	REV: 1
ASSY # AA90207	SIZE: P9638-A	ASSY # AA90207	REV: 1

x360 DEFAULT.DAT

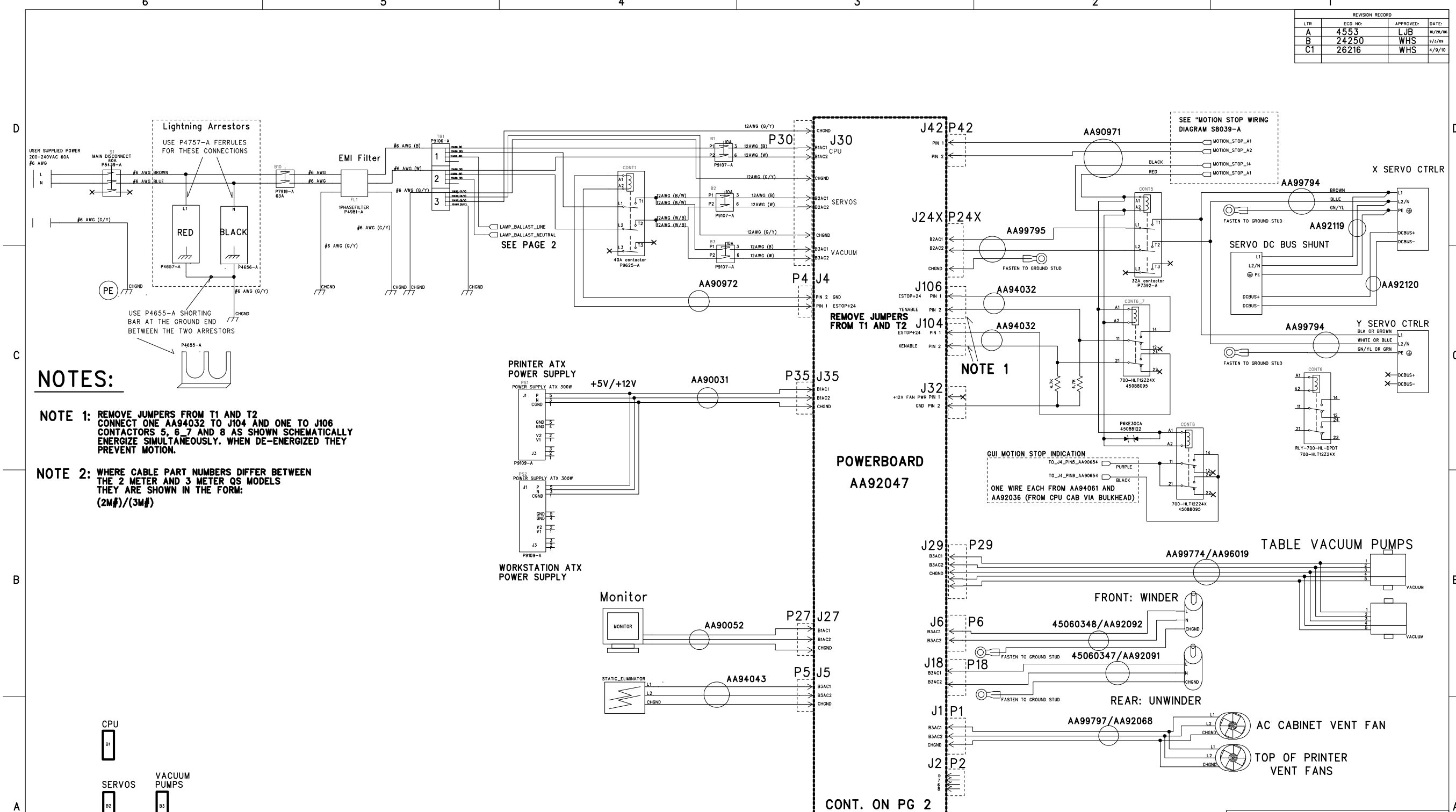
FirmwareVersion 002.000
Model 3360
WeepTimeout 320
WeepCount 10
colorbits 255
EdgeOffset 121665
SpituneCount 1
JunkFloatLine 2.805000
SPEED[QUALITY] 20.000000
AlignnumInches[QUALITY] 1.125900
AccDist[QUALITY] 3.750000
SPEED[STANDARD] 40.000000
AlignnumInches[STANDARD] 1.111000
AccDist[STANDARD] 6.250000
SPEED[MAXIMUM] 60.000000
AlignnumInches[MAXIMUM] 1.121900
AccDist[MAXIMUM] 8.750000
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EncMove 2.811000
CarLen 171.500000
PlatenLength 129.000000
PlatenStart 10.875000
PlatenOffset 3.000000
CapperPosition 7.000000
SpitunePosition 8.750000
doublesidedoffset 5.000000
FeedOffset 39.138000
DriveRatio 15.000000
PitchDiam 3.815000

EncoderSyncTol 0.100000
Upgrade

PURGEOFF 0.000000
WIPEOFF 0.000000
PumpFillTimeMultiplier 2.000000
EncWatchTolerance 0.000000
EncWatchOverride 0
PlatVacSetting 30
PlatVacMode 0
NumberJets 510
NumberChannels 8
NumberColors 8
PulseWidth 63
Overrides 2
useEncFeedMode 1
MaxMediaAccuracy 0
ReverseTension 0
useUnidirection 0
unidir L
PumpFillTime 1750
useAutoTestPattern 1
useCarriageAlignPattern 0
useLogicSeek 0
hasFabriVuExternalHeater 0
maxinkfiltercount 10
CARDIR 00
useRapidReturn 0
usePixelStagger 1
check_OverflowDelay 0
useLogFile 1
Fast4InkTime 0
Debug 0

EncoderSyncTol 0.250000 Change for NEW White Belt

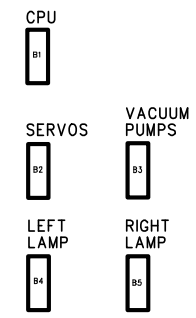
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A	4553	LJB	10/28/98
B	24250	WHS	9/3/99
C1	26216	WHS	4/9/10



NOTES:

NOTE 1: REMOVE JUMPERS FROM T1 AND T2 CONNECT ONE AA94032 TO J104 AND ONE TO J106 CONTACTORS 5, 6, 7 AND 8 AS SHOWN SCHEMATICALLY ENERGIZE SIMULTANEOUSLY. WHEN DE-ENERGIZED THEY PREVENT MOTION.

NOTE 2: WHERE CABLE PART NUMBERS DIFFER BETWEEN THE 2 METER AND 3 METER QS MODELS THEY ARE SHOWN IN THE FORM: (2M#)/(3M#)

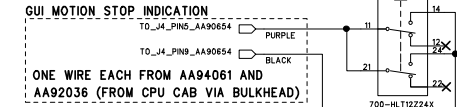


Breaker Panel

* Use #12 AWG 600V Wire Unless otherwise specified

**POWERBOARD
AA92047**

CONT. ON PG 2



COMPANY: VUTEk Inc.	
TITLE: QS AC CAB WIRING 2M/3M	
DRAWN: J SCHOFIELD	DATED: 08MAR06
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:
CODE: D	SIZE: S9060630-A
DRAWING NO: C1	REV: C1
SCALE:	SHEET: 1 OF 2

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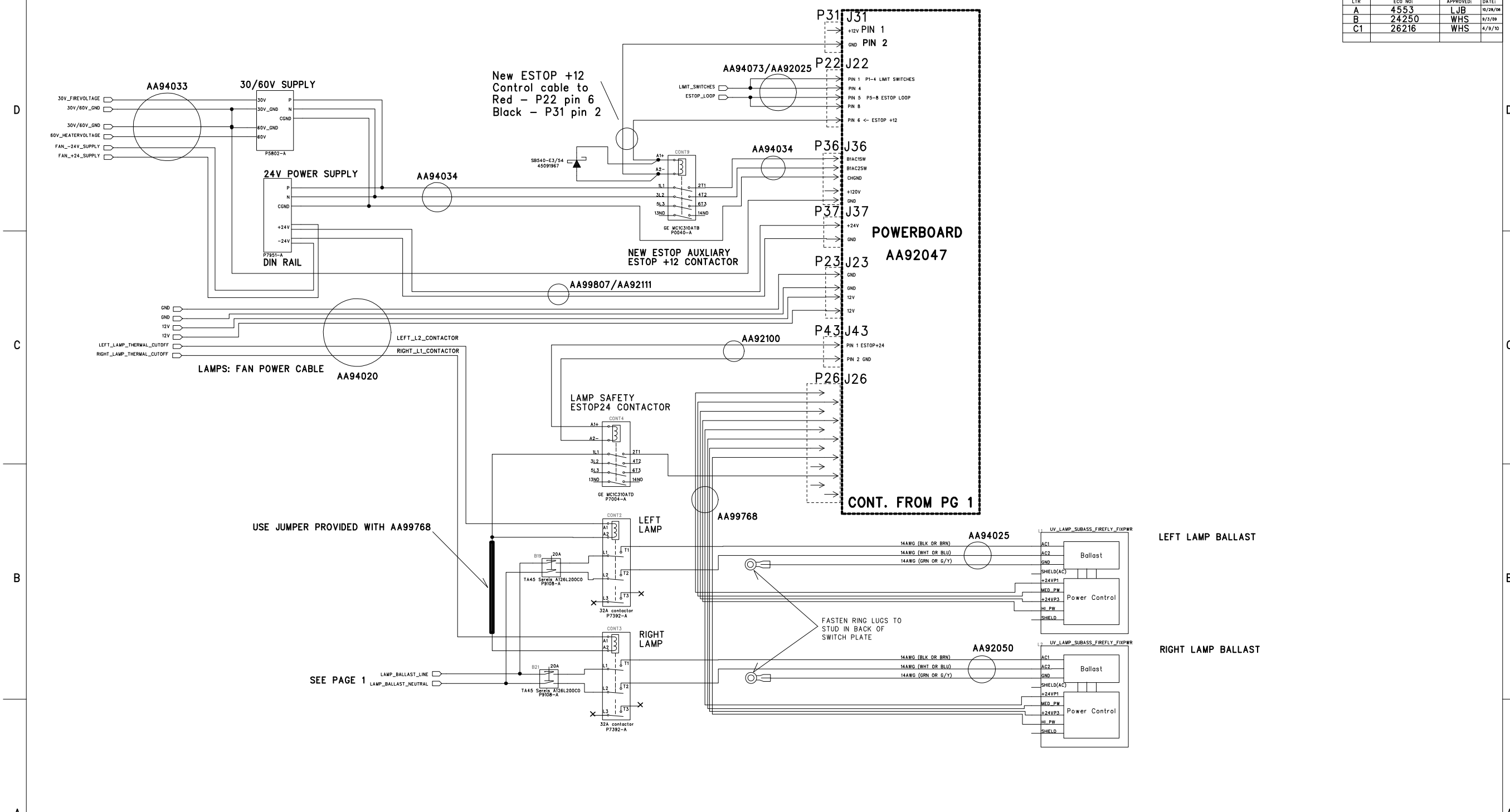
4

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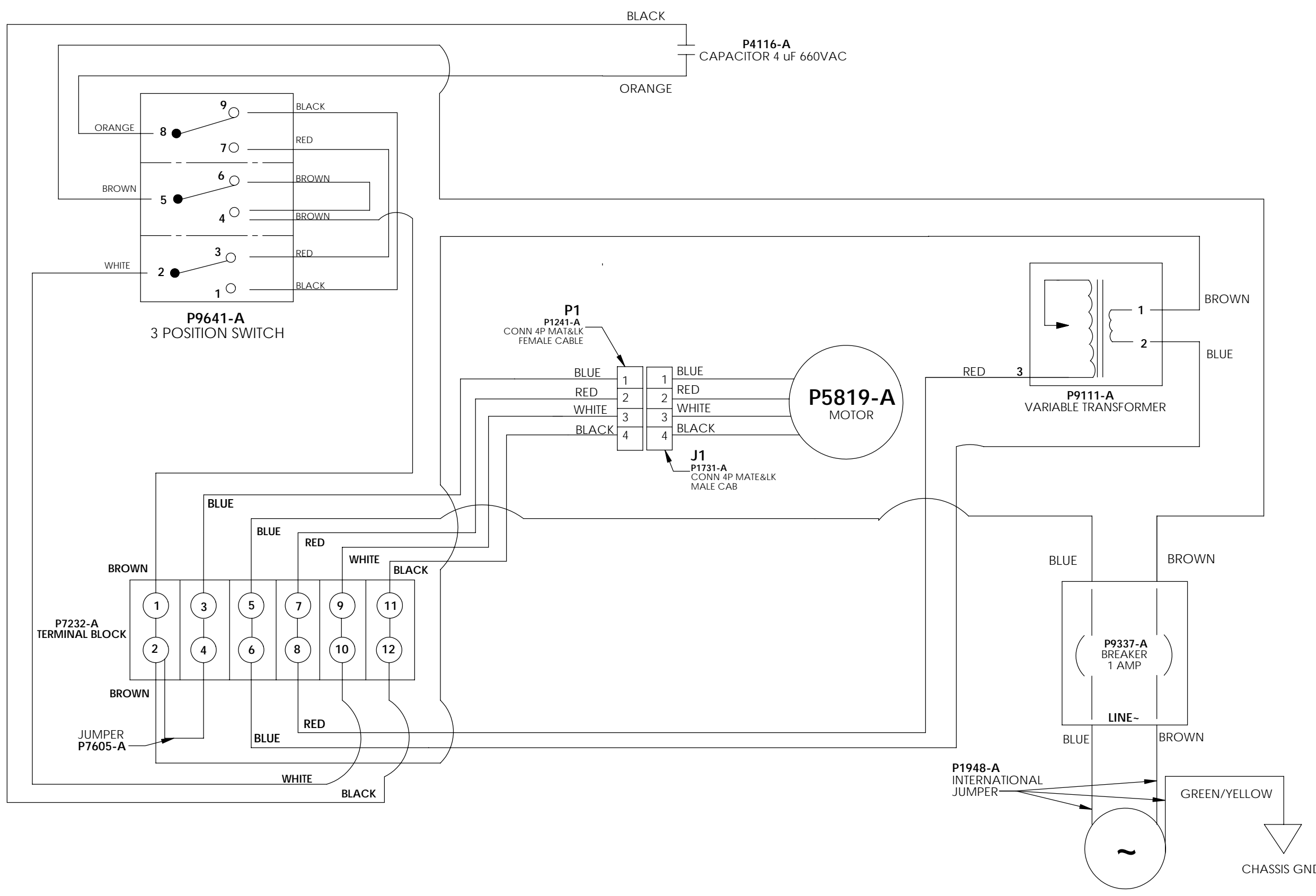
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:
A	4553	LJB	02/28/08
B	24250	WHS	03/09/09
C1	26216	WHS	4/9/10



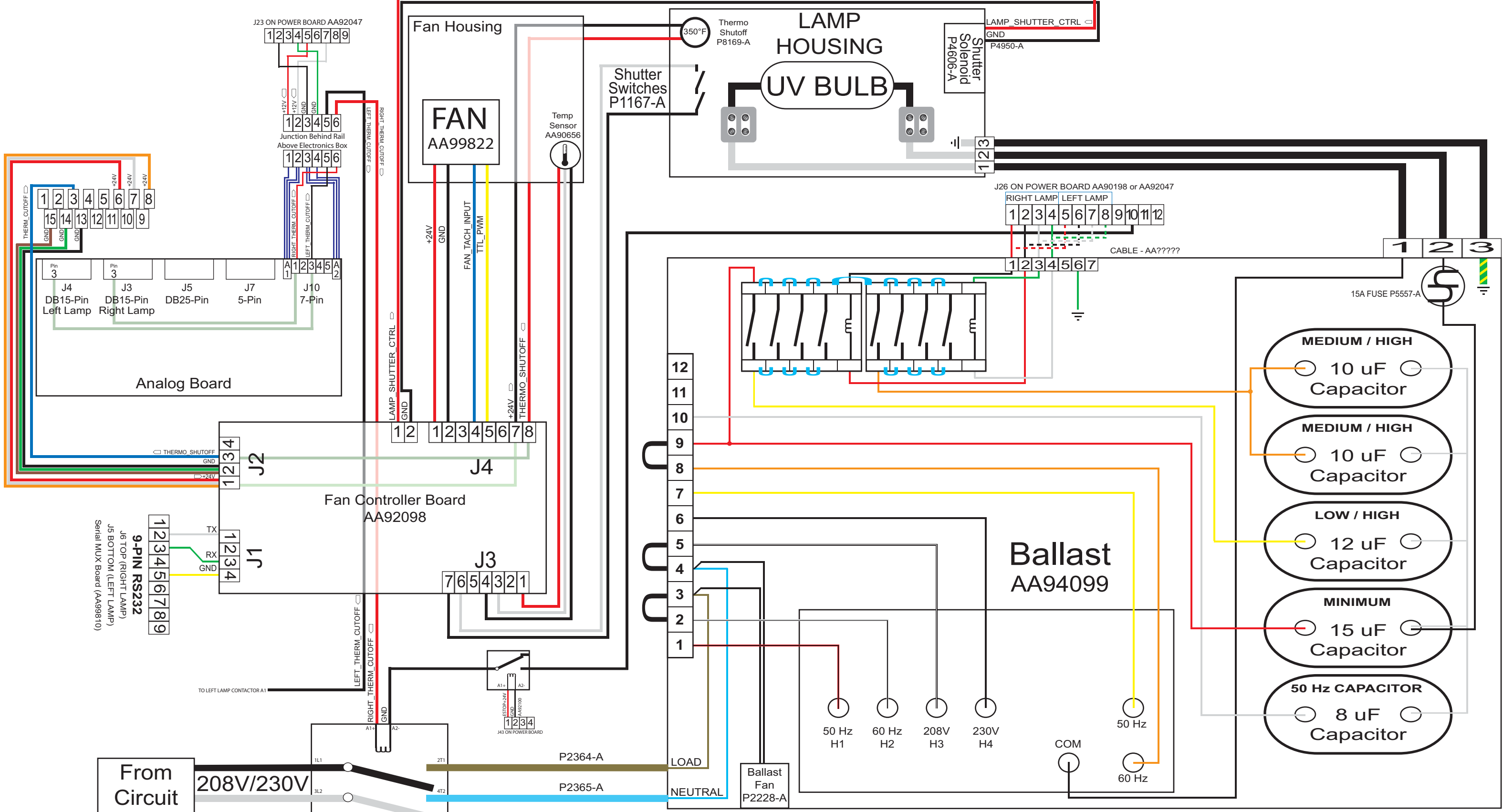
* Use #12 AWG 600V Wire Unless otherwise specified

COMPANY: VUTEk Inc.	
TITLE: QS AC CAB WIRING 2M/3M	
DRAWN: J SCHOFIELD	DATED: 08MAR06
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:
CODE: D	SIZE: S9060630-A
DRAWING NO: C1	REV: C1
SCALE:	SHEET: 2 OF 2

REV	DESCRIPTION	DATE	DRN BY	APPRVD
A	PROTOTYPE RELEASE	09-08-06	LJB	



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING		 <small>ONE WATER PLACE ANDOVER, MA 01834</small>	
FOR CABLES WITH OVERALL LENGTH < 5 FT: +2.00 -0		<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK, INC. IS PROHIBITED.</small>		TITLE 45058390 UNWINDER/REWINDER INTERCONNECT	
FOR CABLES WITH OVERALL LENGTH ≥ 5 FT: +3.00 -0		DRAWN LJB	DATE 08-30-06	SIZE C	DWG. NO. 45058883
		DESIGNED X	DATE X	REV A	PROJECT Vutek Standards

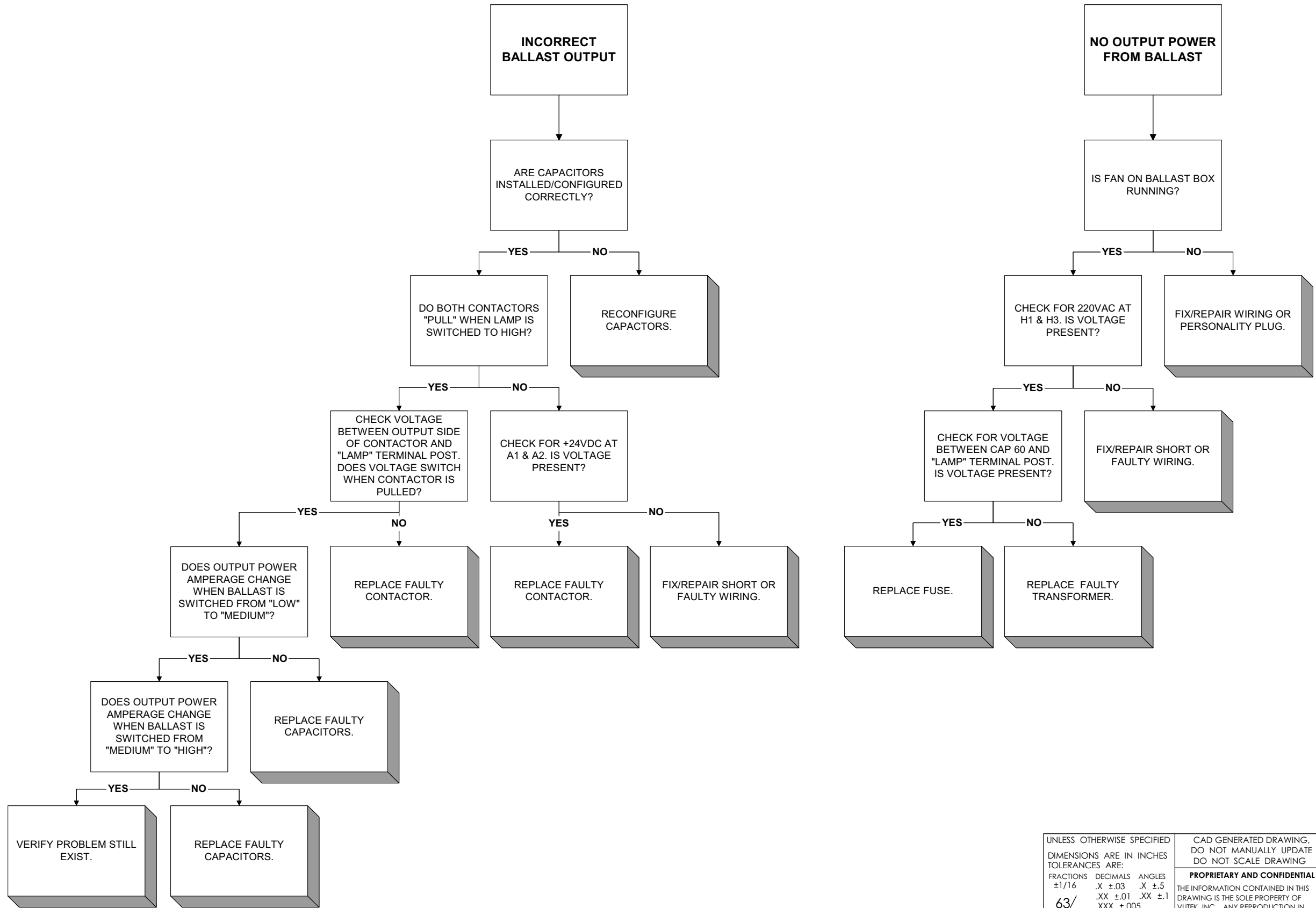


QS Series UV Lamp System Theory of Operation

The AC supply power for the UV lamp ballasts is supplied directly from the power distribution block. This power then passes through a 15 Amp circuit breaker (Breaker 4 for the Right Lamp and Breaker 5 for the Left Lamp). After passing through the breaker, the AC power then passes through a 32 Amp Contactor (Ballast Contactor). This contactor is enabled via 24VDC that is supplied by the Analog Board. Before this 24V reaches the Ballast Contactor, it travels to the Fan Speed Controller Board via cable AA94064 (Right) or AA94065 (Left) and passes through the Thermo Shutoff. If the Thermo Shutoff is sensing a temperature of more than 350 Degrees Fahrenheit, it will not allow the 24V to pass through, thus disabling the Ballast Contactor and cutting the AC Power to the Ballast. This Ballast Contactor also needs the ground to be enabled. The ground is supplied from the power board and passes through a smaller contactor before grounding the Ballast contactor. This smaller contactor is enabled by ESTOP+24V from the power board. Therefore, if the E-Stop circuit is not complete, the contactors cannot pull in. The Ballast Contactor Ground can also be disabled from the firmware byswitching the ground on the power board through the controller board.

Assuming that the Thermo Shutoff is allowing the 24VDC to pass through to the Ballast Contactor and the firmware is allowing the Ballast Contactor a Ground, the AC Power then travels to the ballast. From the ballast, the power then travels to the lamp housing via cable AA99778. Power is fed into the igniter which ignites the UV bulb. Once the bulb is ignited, the igniter acts as a pass through allowing the power to travel right to the UV bulb.

REV	DESCRIPTION	DATE	DRN BY	APPRVD
1	PROTOTYPE RELEASE	4/5/05	CAP	



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES $\pm 1/16$.X $\pm .03$.X $\pm .5$ $\frac{63}{\nabla}$.XX $\pm .01$.XX $\pm .1$.XXX $\pm .005$.XXXX $\pm .0010$ REMOVE ALL BURRS AND SHARP EDGES	CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING		VUTEK INC. ONE VUTEK PLACE MEREDITH, N.H. 03253	
	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK, INC. IS PROHIBITED		TITLE AA90657 ASSY UV LAMP BALLAST TROUBLE TREE	
MATERIAL	DESIGNED	DATE	SCALE: 2:1	PROJECT:
FINISH	CAD FILE:	DATE	DWG. NO. VAP-0784	SHEET 1 OF 1

Press Vu 200/600 gen 1

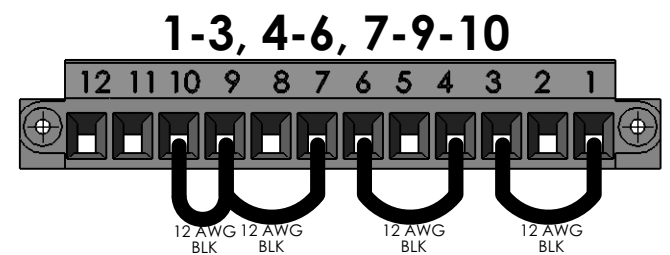
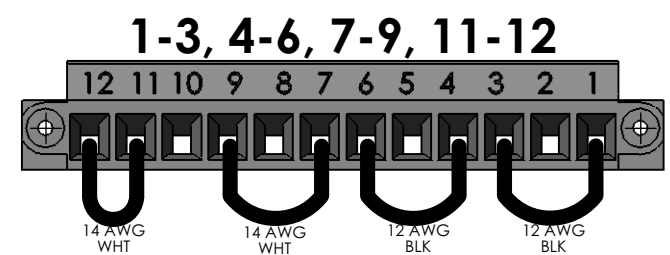
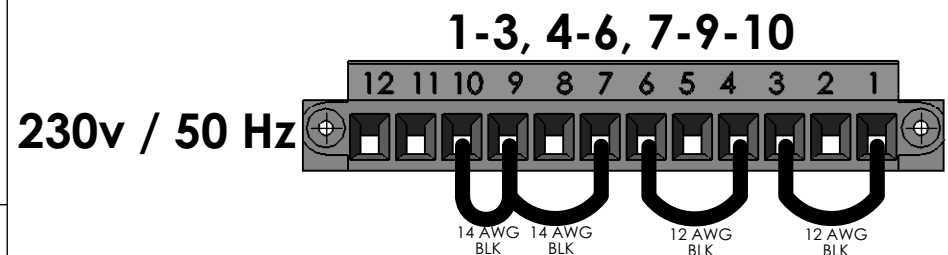
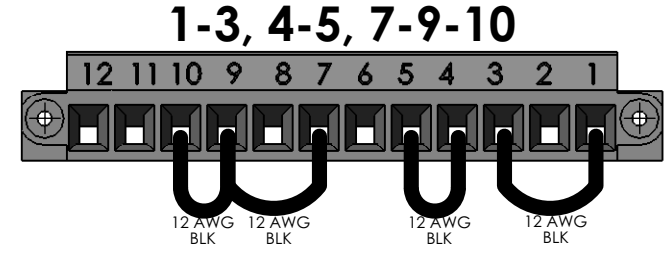
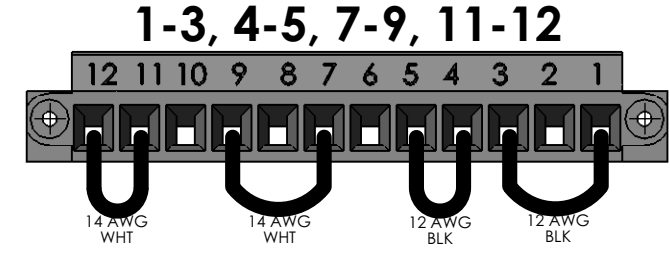
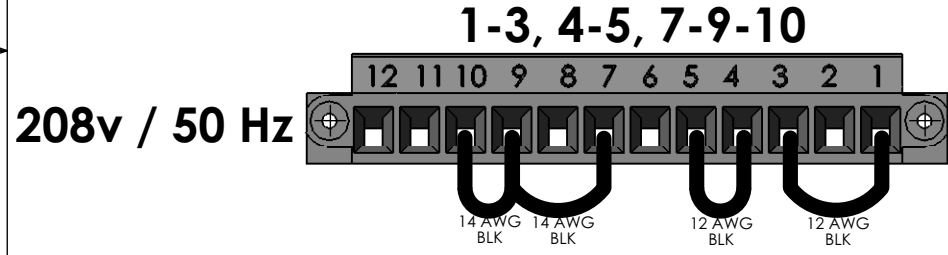
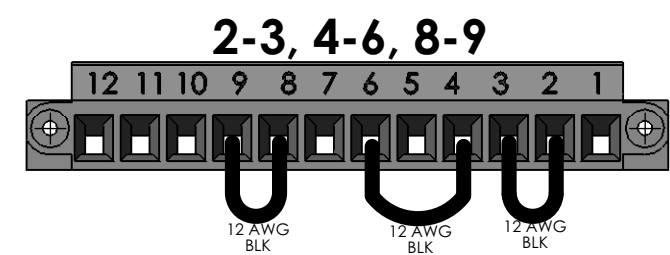
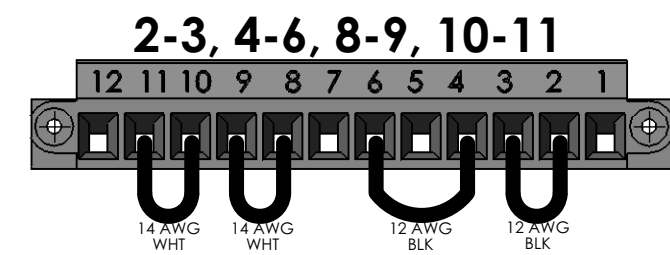
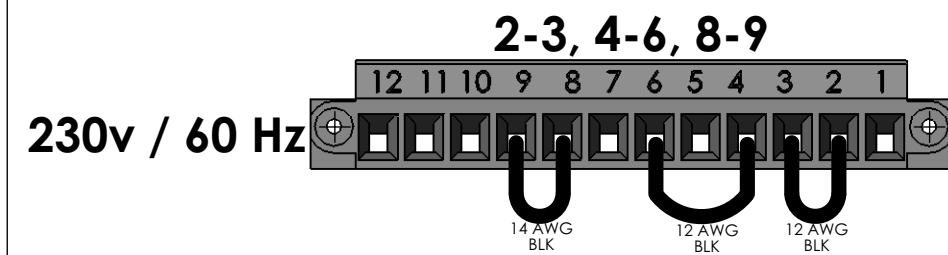
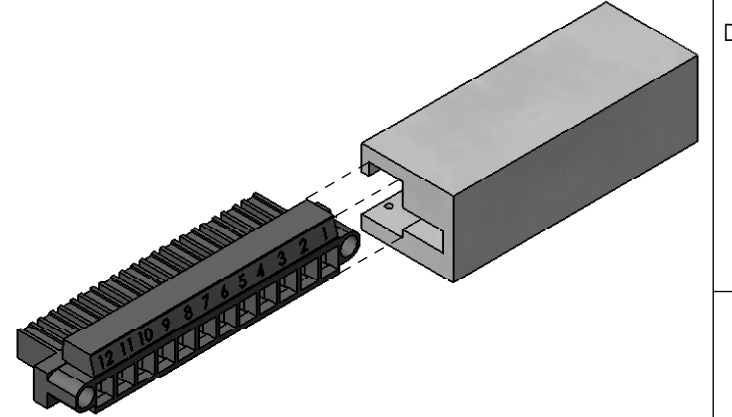
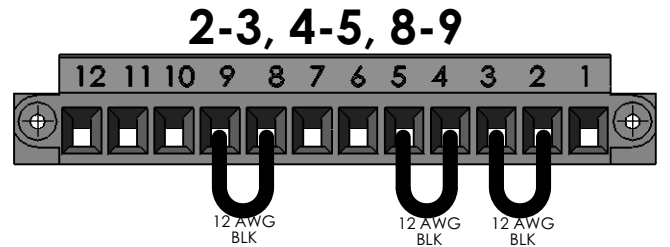
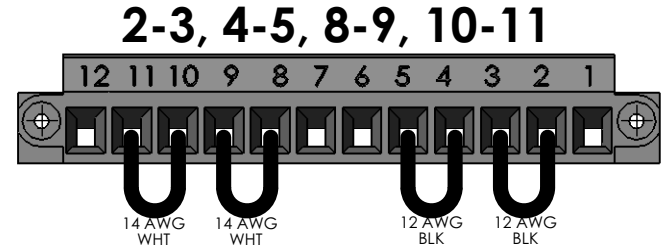
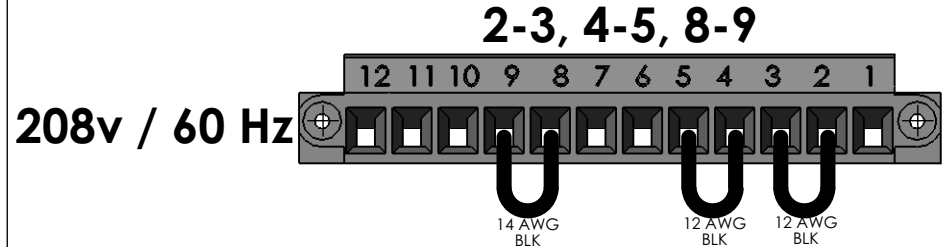
NOTICE: IF THERE ISN'T ANY MARKING CONTAINING A REVISION ON THE EXTERIOR OF THE BALLAST BOX, THEN USE THIS CONFIGURATION.

Press Vu 200/600 gen 2

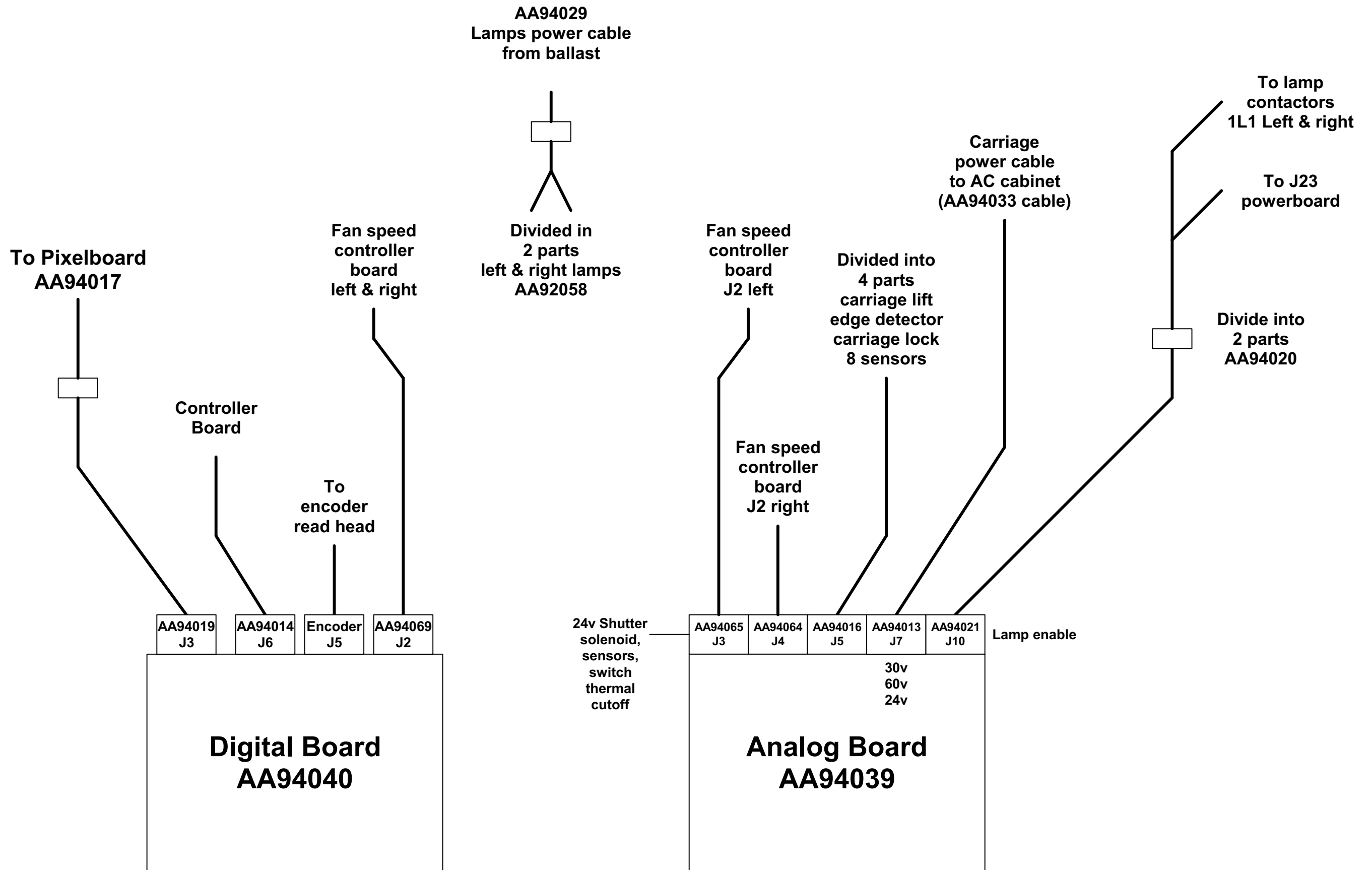
WARNING: USE THIS CONFIGURATION W/ REV B OR HIGHER BALLAST BOX. ALL REV B OR HIGHER BOXES ARE MARKED ON THE SIDE OF EACH BALLAST BOX W/ THE REV.

REV	DESCRIPTION	DATE	DRN BY	APPRVD
A	INITIAL RELEASE ECN 4168	5/3/06	R WHITTEN	L BROWN
B	ECN 4542, ADD: QS2000, QS3200	10/20/2006	RMN	

Press Vu 320/400, QS2000, QS3200



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FOR CABLES WITH OVERALL LENGTH < 5 FT: +2.00 - 0 FOR CABLES WITH OVERALL LENGTH > 5 FT: +3.00 - 0	CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING	ONE VUTEK PLACE MEREDITH, NH 03253 A DIVISION OF <i>eft</i>	TITLE PERSONALITY PLUG WIRING DIAGRAMS ALL VERSIONS	
	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK, INC. IS PROHIBITED.			DRAWN R WHITTEN DATE 5/3/06
	DESIGNED DATE	SIZE B VAP. NO. S4736-A		REV. B
	CAD FILE: S4736-A PERSONALITY MODULE WIRING DIAGRAMS ALL PRODUCTS	SCALE: 2:1 PROJECT: FINAL CALLAWAY CABLES SHEET 1 OF 1		



Carriage Boards

Digital Board

1	DATA0 "+"	14	PIX_CLK "+"	27	SPAREOUT1 "-"	40	SPAREOUT2 "+"
2	DATA1 "+"	15	GND	28	GND	41	SPAREOUT2 "-"
3	DATA2 "+"	16	DATA0 "-"	29	PIX_CLK "-"	42	GND
4	DATA3 "+"	17	DATA1 "-"	30	GND	43	GND
5	DATA4 "+"	18	DATA2 "-"	31	SPAREIN2 "+"	44	GND
6	DATA5 "+"	19	DATA3 "-"	32	SPAREIN2 "-"		
7	DATA6 "+"	20	DATA4 "-"	33	GND		
8	DATA7 "+"	21	DATA5 "-"	34	UNUSED		
9	SPAREIN1 "+"	22	DATA6 "-"	35	UNUSED		
10	GND	23	DATA7 "-"	36	GND		
11	DATA_RQST "+"	24	SPAREIN1 "-"	37	UNUSED		
12	SPAREOUT1 "+"	25	GND	38	UNUSED		
13	GND	26	DATA_RQST "-"	39	GND		

AA94019 - 2M
AA96011 - 3M

Analog Board

SIGNAL NAME	COND. COLOR	Analog Board	Fan Spd Ctrl Board
		P5669-A PIN#	P5968-A PIN #
24V	RED	6	1
24V	WHITE	7	1
24V	ORANGE	8	1
GND	BLACK	13	2
GND	GREEN	14	2
GND	BROWN	15	2
LAMP THERMAL CUTOFF	BLUE	3	3

Digital Board Ctrl Board

SIGNAL NAME	P7714-A PIN#	P7494-A PIN #	COND. COLOR	PAIR
ENCODE CHA "+"	1	33	BLACK	1
ENCODE CHA "-"	14	34	RED	1
ENCODE CHB "+"	2	35	BLACK	2
ENCODE CHB "-"	15	36	WHITE	2
EDGE DET "+"	3	31	BLACK	3
EDGE DET "-"	16	32	GREEN	3
WRDATA "+"	4	27	BLACK	4
WRDATA "-"	17	28	BLUE	4
RDDATA "+"	5	29	BLACK	5
RDDATA "-"	18	30	BROWN	5
LDINTOS R "+"	6	25	BLACK	6
LDINTOS R "-"	19	26	YELLOW	6
LDFROMS R "+"	7	23	BLACK	7
LDFROMS R "-"	20	24	ORANGE	7
SRCLKFRMCTL "+"	9	21	RED	8
SRCLKFRMCTL "-"	22	22	WHITE	8
JETOE "+"	10	1	RED	9
JETOE "-"	23	2	BLUE	9
GND	13	37	BROWN	N/A
SPAREOUT2 "+"	N/C	N/C		
SPAREOUT2 "-"	N/C	N/C		
SPAREIN2 "+"	N/C	N/C		
SPAREIN2 "-"	N/C	N/C		

AA94014 - 2M
AA94014 - 3M

SIGNAL NAME	COND. COLOR	Analog Board	Fan Spd Ctrl Board
		P5669-A PIN#	P5968-A PIN #
24V	RED	6	1
24V	WHITE	7	1
24V	ORANGE	8	1
GND	BLACK	13	2
GND	GREEN	14	2
GND	BROWN	15	2
LAMP THERMAL CUTOFF	BLUE	3	3

SIGNAL NAME	Analog Board	Carr Lift	Carr Lock	Carr "UP" Sensor	Edge Detect	COND. COLOR
	P7713-A PIN#	J1 PIN#	J2 PIN#	J3 PIN#	P4898-A PIN #	
CARRIAGE LIFT	1	1				BLK
24V	14	2				RED
CARRIAGE LOCK	2		1			BLK
24V	15		2			RED
CARR. HEIGHT SENSOR	6			1		RED
GND	19			2		BLK
EDGE DETECTOR	11				3	BLK
EDGE DETECTOR +12V	12				2	RED
EDGE DETECTOR GND	24				1	GRN

P9321-A
Encoder Read Head

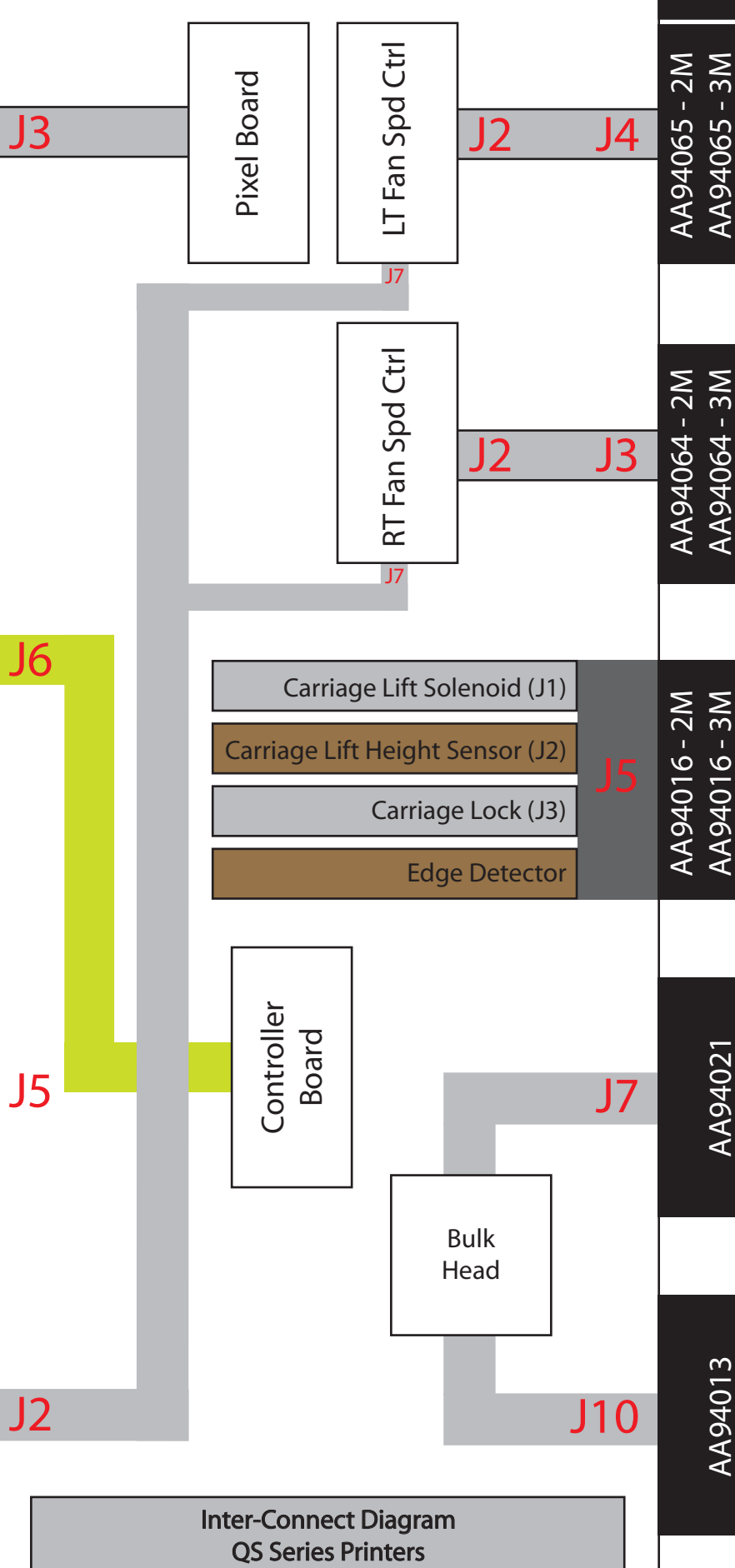
SIGNAL NAME	CONDUCTOR #	Analog Board	Bulk Head
		P5773-A PIN #	P5824-A PIN #
12V	1	A1	1
12V	2	A1	2
12V	3	A1	2
GND	4	A2	3
GND	5	A2	3
GND	GRN/YEL	A2	4
LEFT LAMP	6	1	6
RIGHT LAMP	7	3	5

Digital Board	Right Fan Spd Ctrl	Left Fan Spd Ctrl	COND. COLOR	PAIR
P5598-B CONN PIN#	RT FAN P8149-A CONN PIN#	LFT FAN P8149-A CONN PIN#		
1	3	N/C	BLK	
6	7	N/C	RED	1
2	4	N/C	BLK	
7	8	N/C	WHT	2
8	N/C	3	BLK	
4	N/C	7	RED	3
9	N/C	4	BLK	
5	N/C	8	WHT	4
3	6	6	BLK	
CONN HOOD	1	1	SHIELD	

AA94069 - 2M
AA94069 - 3M

SIGNAL	COND #	COND. COLOR	Analog Board	Bulk Head
			P5911-A PIN #	P7901-A PIN #
60V	1	BLK	1	1
GND	2	BLK	2	2
30V	3	BLK	3	3
GND	4	BLK	4	4
24V	5	BLK	5	5
GND	6	BLK	2	6
GND	7	GRN/YEL	4	7
N/C	8	N/C	N/C	N/C
N/C	9	N/C	N/C	N/C

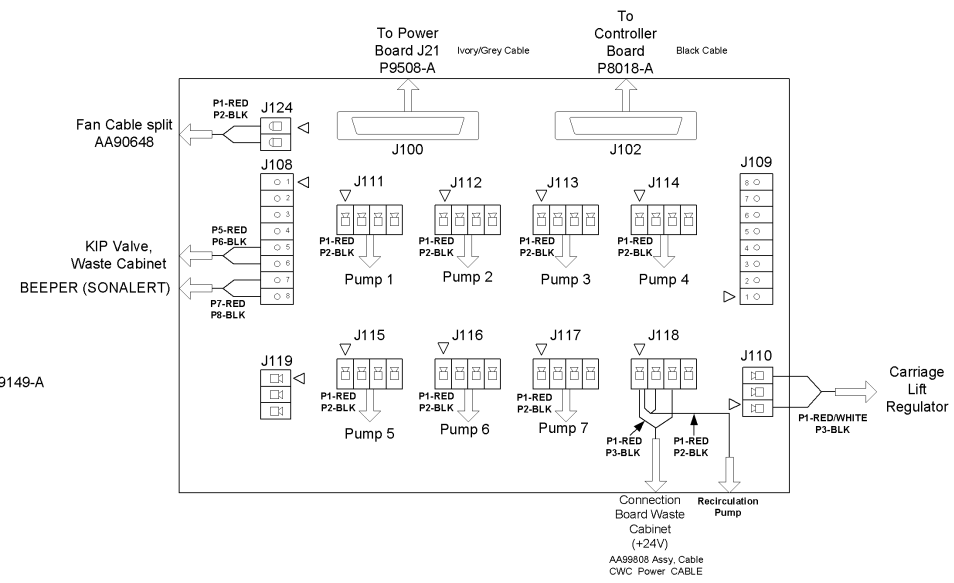
Inter-Connect Diagram
QS Series Printers



Ink Transition Board AA90703

QS2000/QS3000 WIRING CONFIGURATION

REV	ECO	DATE
A	21636	10/28/08



J111 through J117: use P9149-A

Ink Transition Board Connections

Vutek, Inc CONFIDENTIAL

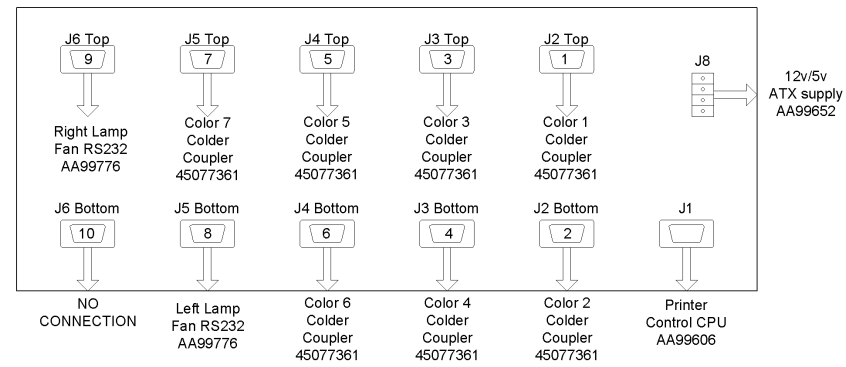
Ink Cabinet Wiring Diagram

Author Lisa Brown	Date 07/12/06	Rev A
Marked up by Ralph Lewis	Date 10/28/08 ECO# 21636	
45058012		
PAGE 1 of 2		

REV	ECO	DATE
A	21636	10/28/08

Serial Mux Board 45056974

QS2000/QS3000 WIRING CONFIGURATION



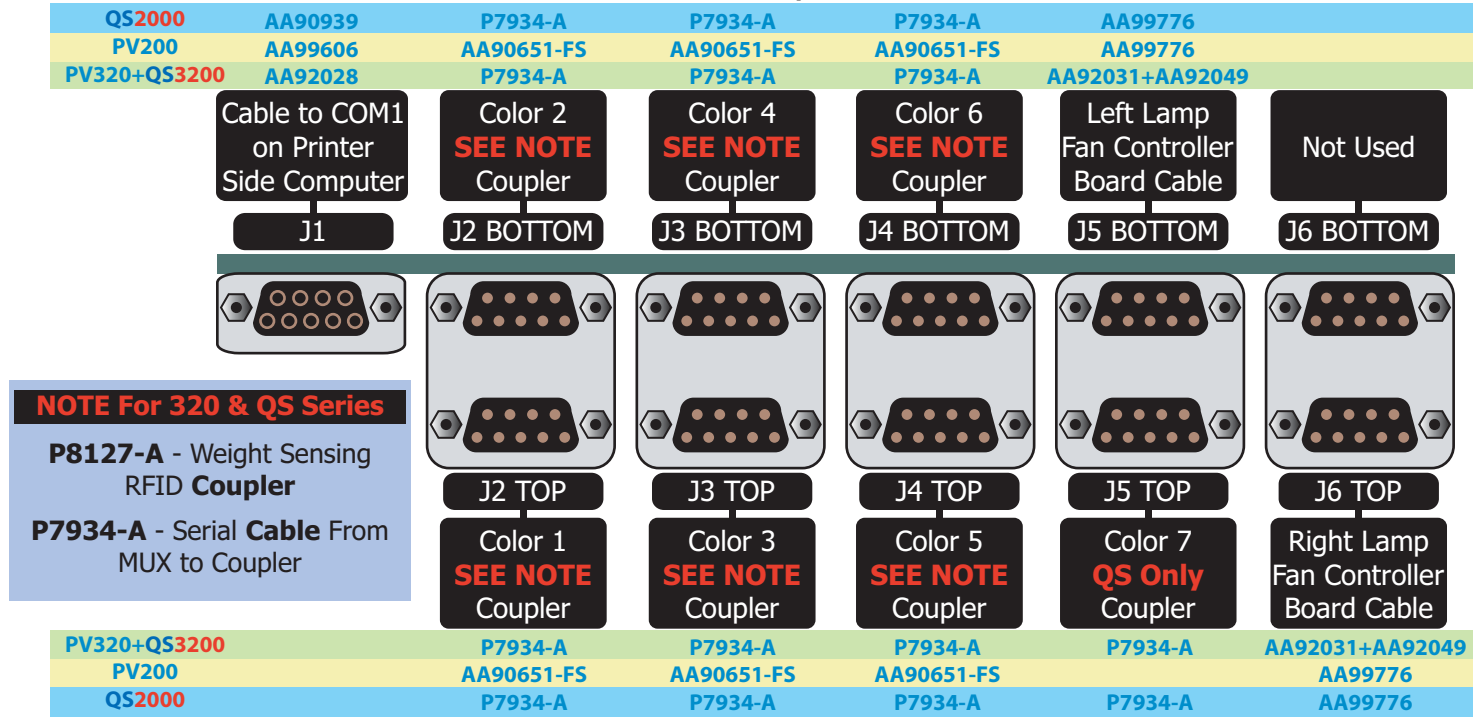
MUX Board Connections

Vutek, Ink **CONFIDENTIAL**

Ink Cabinet Wiring Diagram

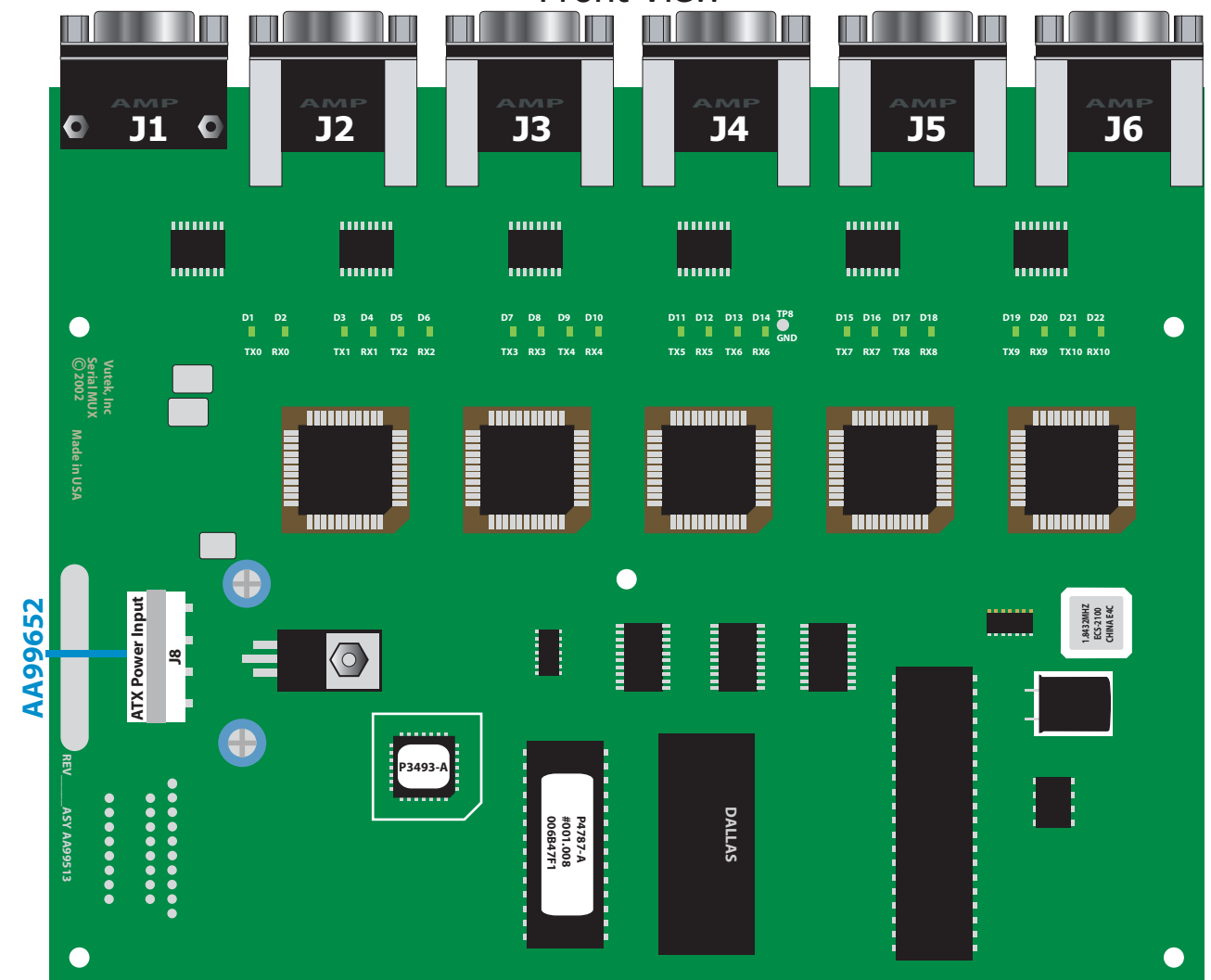
Author:	Date:	Rev
Lisa Brown	07-26-08	A
Working by Ralph Lewis	Date: 10/28/08 ECO# 21636	45058012

Top View

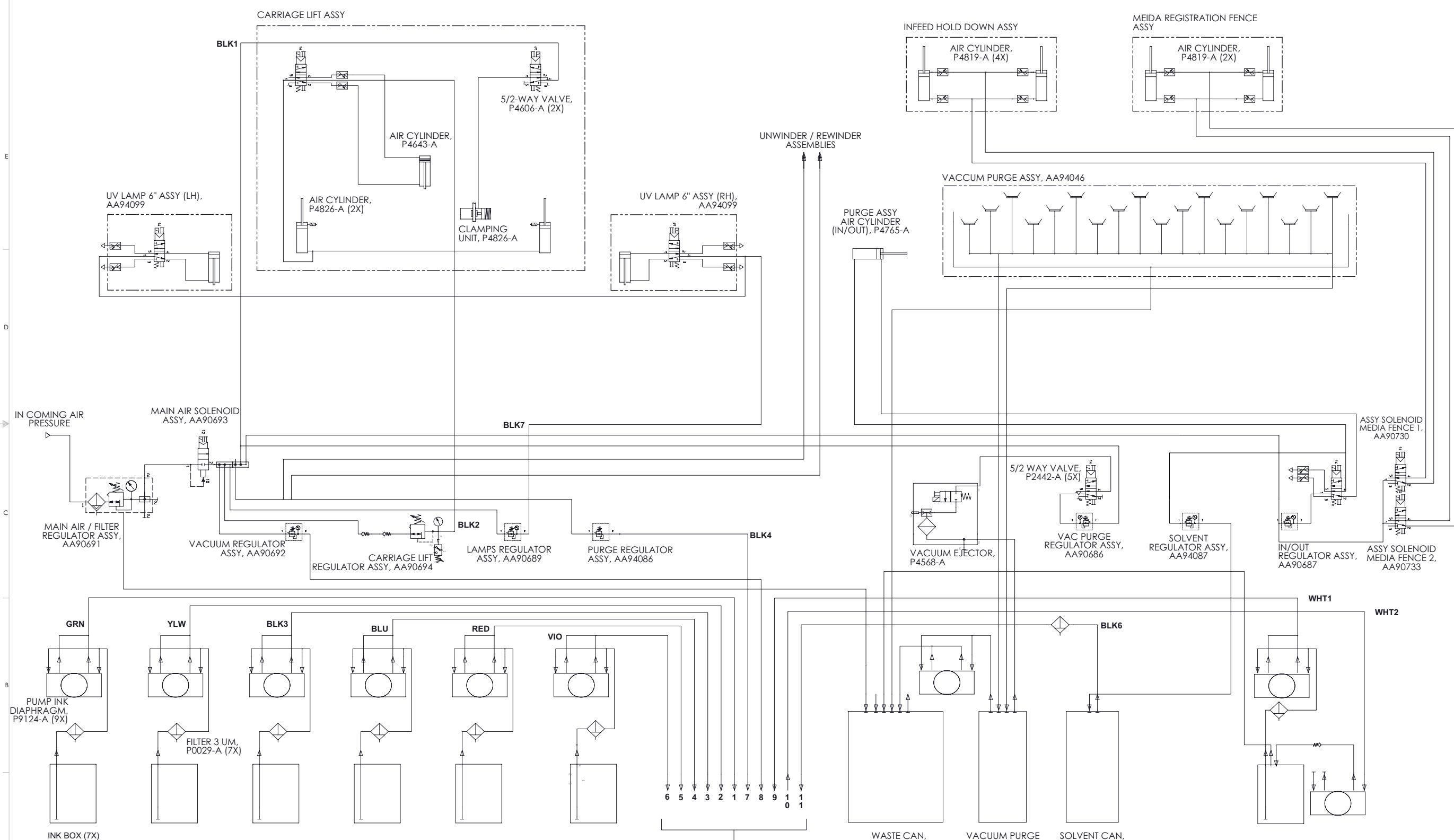


NOTE For 320 & QS Series
P8127-A - Weight Sensing RFID Coupler
P7934-A - Serial Cable From MUX to Coupler

Front View



REV	DESCRIPTION	DATE	DRN BY	APPRVD
1	PROTOTYPE RELEASE	10/20/05	CAP	
3	Add Vent to CH7 Ink Coupler	1/10/2006	CAP	
4	Reconfigured Copper In/Out Reg.	1/16/2006	CAP	
5	Add Tubing Color Callouts	1/30/2006	CAP	
6	Added Separate Solvent & Purge Regs.	5/8/2006	CAP	SL
7	Changed AA9287 to AA9047 SEC A3	6/19/2006	CAP	
8	CHANGE INK ORDER	6/27/2006	CAP	
A	ECN 4524 Change P/N AA90699 to AA90687, Sec C2	10/10/2006	CAP	
B	ECN 4612	11/15/06	CWP	
C	ECO 21843	11/11/08	CWP	

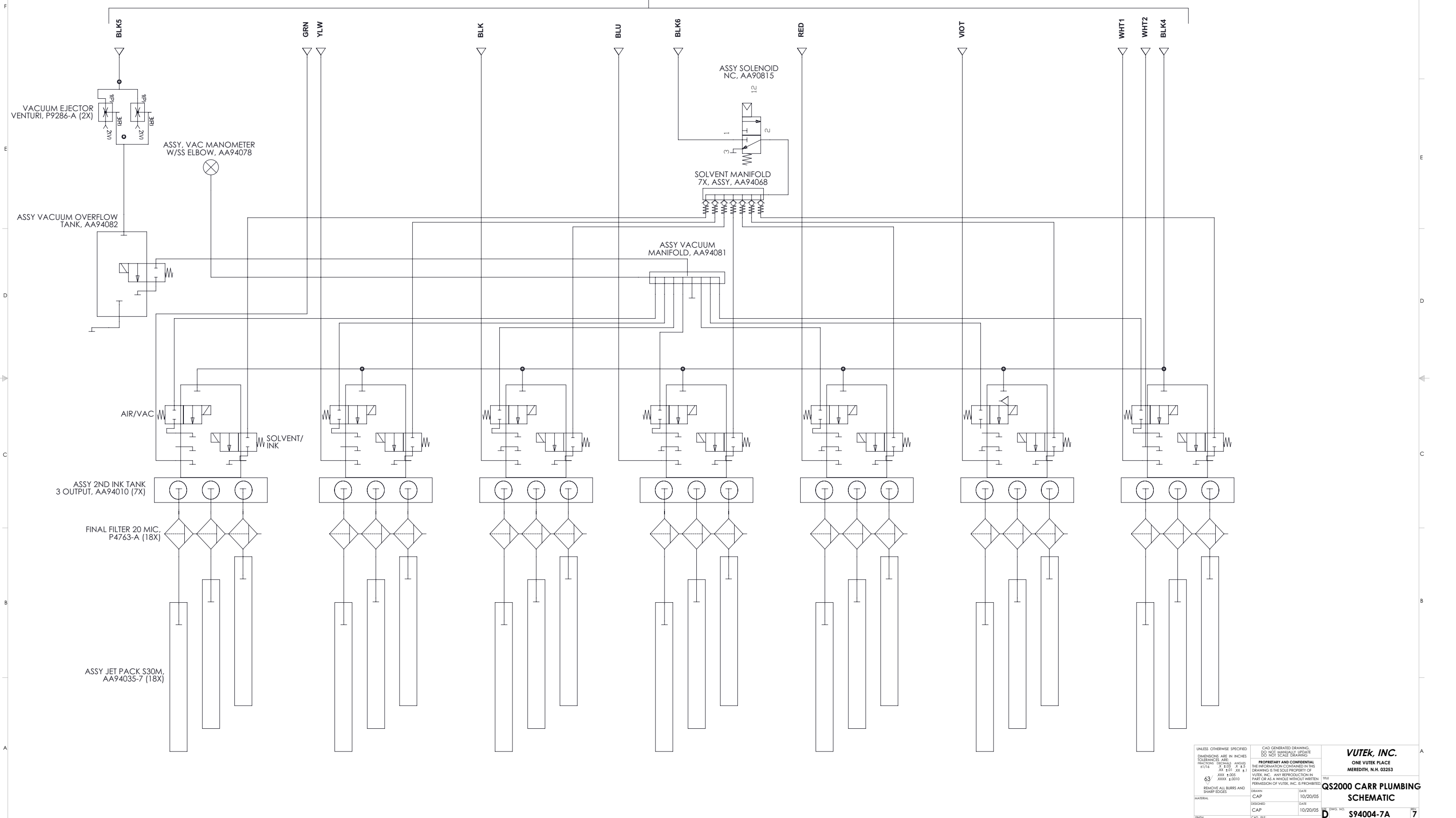


REFER TO S94004-7A
CARRIAGE PLUMBING SCHEMATIC

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES 1/16 ±.001 3/16 ±.001 3/8 ±.001 1/2 ±.001 3/4 ±.001 1 ±.001 2 ±.001 3 ±.001 4 ±.001 5 ±.001 6 ±.001 7 ±.001 8 ±.001 9 ±.001 10 ±.001 11 ±.001 12 ±.001 13 ±.001 14 ±.001 15 ±.001 16 ±.001 17 ±.001 18 ±.001 19 ±.001 20 ±.001 21 ±.001 22 ±.001 23 ±.001 24 ±.001 25 ±.001 26 ±.001 27 ±.001 28 ±.001 29 ±.001 30 ±.001 31 ±.001 32 ±.001 33 ±.001 34 ±.001 35 ±.001 36 ±.001 37 ±.001 38 ±.001 39 ±.001 40 ±.001 41 ±.001 42 ±.001 43 ±.001 44 ±.001 45 ±.001 46 ±.001 47 ±.001 48 ±.001 49 ±.001 50 ±.001 51 ±.001 52 ±.001 53 ±.001 54 ±.001 55 ±.001 56 ±.001 57 ±.001 58 ±.001 59 ±.001 60 ±.001 61 ±.001 62 ±.001 63 ±.001 64 ±.001 65 ±.001 66 ±.001 67 ±.001 68 ±.001 69 ±.001 70 ±.001 71 ±.001 72 ±.001 73 ±.001 74 ±.001 75 ±.001 76 ±.001 77 ±.001 78 ±.001 79 ±.001 80 ±.001 81 ±.001 82 ±.001 83 ±.001 84 ±.001 85 ±.001 86 ±.001 87 ±.001 88 ±.001 89 ±.001 90 ±.001 91 ±.001 92 ±.001 93 ±.001 94 ±.001 95 ±.001 96 ±.001 97 ±.001 98 ±.001 99 ±.001 100 ±.001	CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE. DO NOT SCALE DRAWING. PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK, INC. IS PROHIBITED. DRAWN: CAP DATE: 10/20/05 DESIGNED: CAP DATE: 10/20/05 CAD FILE: S9060630-7A	VUTEK, INC. ONE VUTEK PLACE MEREIDITH, N.H. 03253 TITLE 2M QS2000 PRINTER PLUMBING SCHEMATIC REV: C SCALE: 1:28 FORM 423-13 D041902-A
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REV	DESCRIPTION	DATE	DRN BY	APPRVD
1	PROTOTYPE RELEASE	10/20/05	CAP	
2	REPOSITION VAC. SOLENOID	1/10/2006	CAP	
3	Turned Check Valves on Manifold 180 Deg.	1/20/2006	CAP	
4	Added Tubing Color Coding	1/30/2006	CAP	
5	Change F/N from AA92107 to AA94072	1/31/2006	CAP	
6	Added Vacuum Manifold Assy	5/8/2006	CAP	SL
7	Change Color Order	7/19/2006	CAP	

REFER TO S9060630-7A PRINTER PLUMBING SCHEMATIC FOR COMPLETE PRINTER PLUMBING.



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES 1/16 ±.001 1/32 ±.001 3/64 ±.001 3/8 ±.001 1/2 ±.001 5/8 ±.001 1 ±.001 2 ±.001 3 ±.001 4 ±.001 6 ±.001 8 ±.001 10 ±.001 12 ±.001 14 ±.001 16 ±.001 18 ±.001 20 ±.001 25 ±.001 30 ±.001 35 ±.001 40 ±.001 45 ±.001 50 ±.001 63 ±.001 75 ±.001 90 ±.001 100 ±.001 125 ±.001 150 ±.001 175 ±.001 200 ±.001 250 ±.001 300 ±.001 350 ±.001 400 ±.001 450 ±.001 500 ±.001 550 ±.001 600 ±.001 650 ±.001 700 ±.001 750 ±.001 800 ±.001 850 ±.001 900 ±.001 950 ±.001 1000 ±.001	CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK, INC. IS PROHIBITED.	VUTEK, INC. ONE VUTEK PLACE MEREDITH, N.H. 03253
REMOVE ALL BURRS AND SHARP EDGES	DATE: 10/20/05	TITLE: QS2000 CARR PLUMBING SCHEMATIC
MATERIAL: CAP	DATE: 10/20/05	DWG. NO: S94004-7A
FINISH: CAP	DATE: 10/20/05	REV: 7
CAD FILE: CAP	SCALE: 1:14	SHEET 1 OF 1

Y MOVEMENT

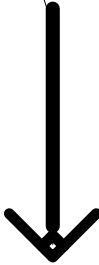
REAR ROLLER

FEEDBACK ENCODER

DIRECTION OF MOVEMENT

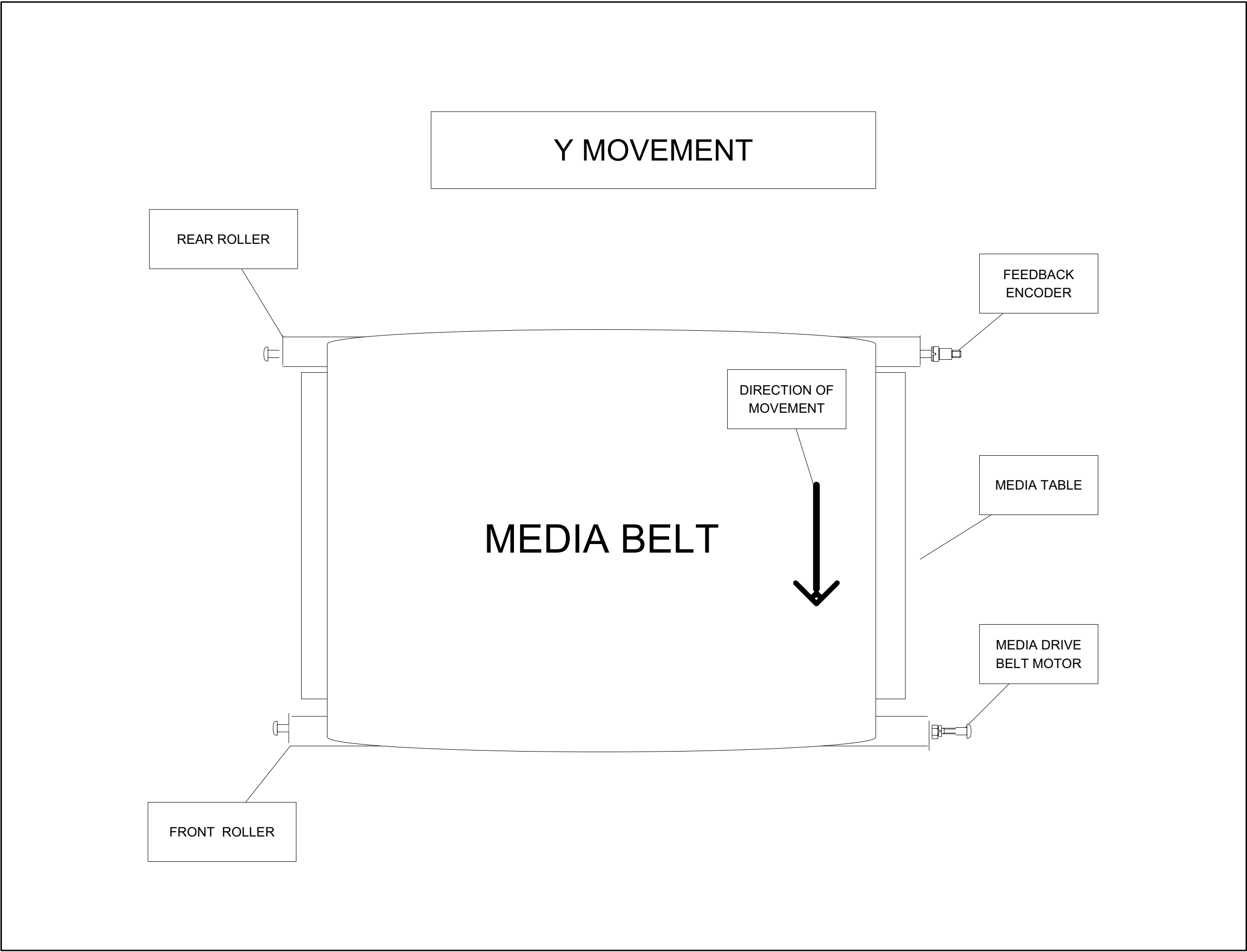
MEDIA TABLE

MEDIA BELT

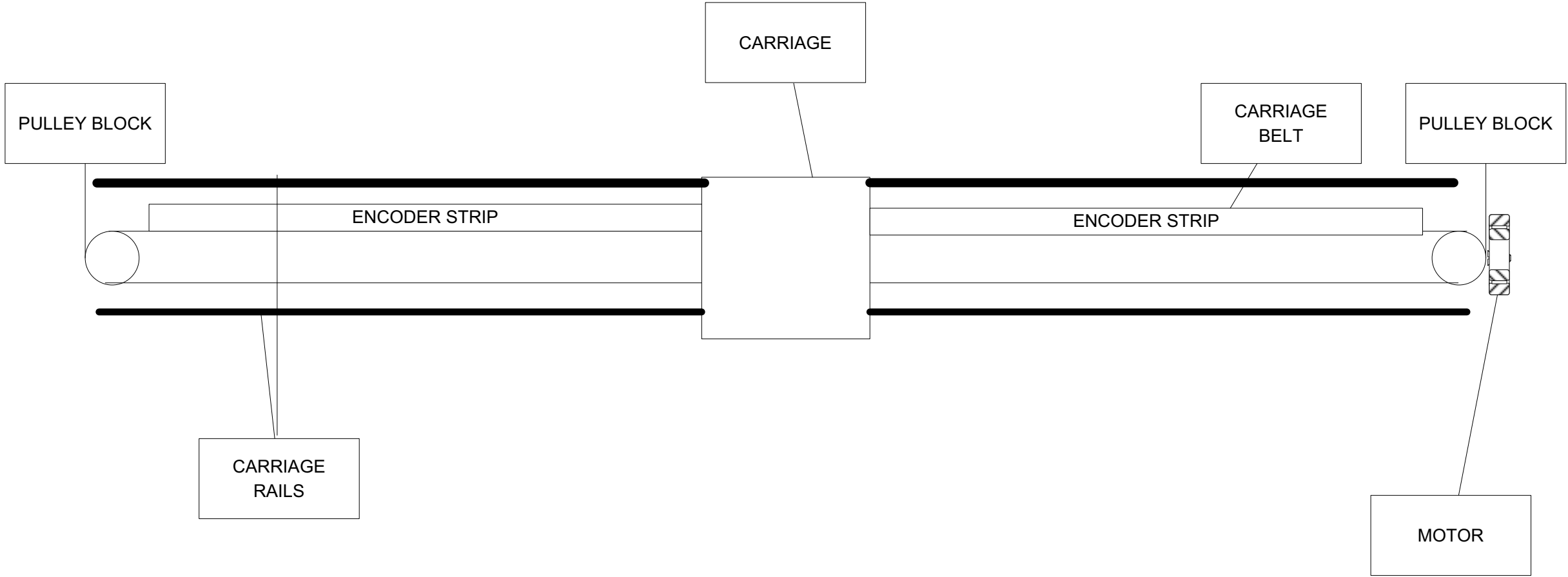


MEDIA DRIVE BELT MOTOR

FRONT ROLLER



X MOVEMENT



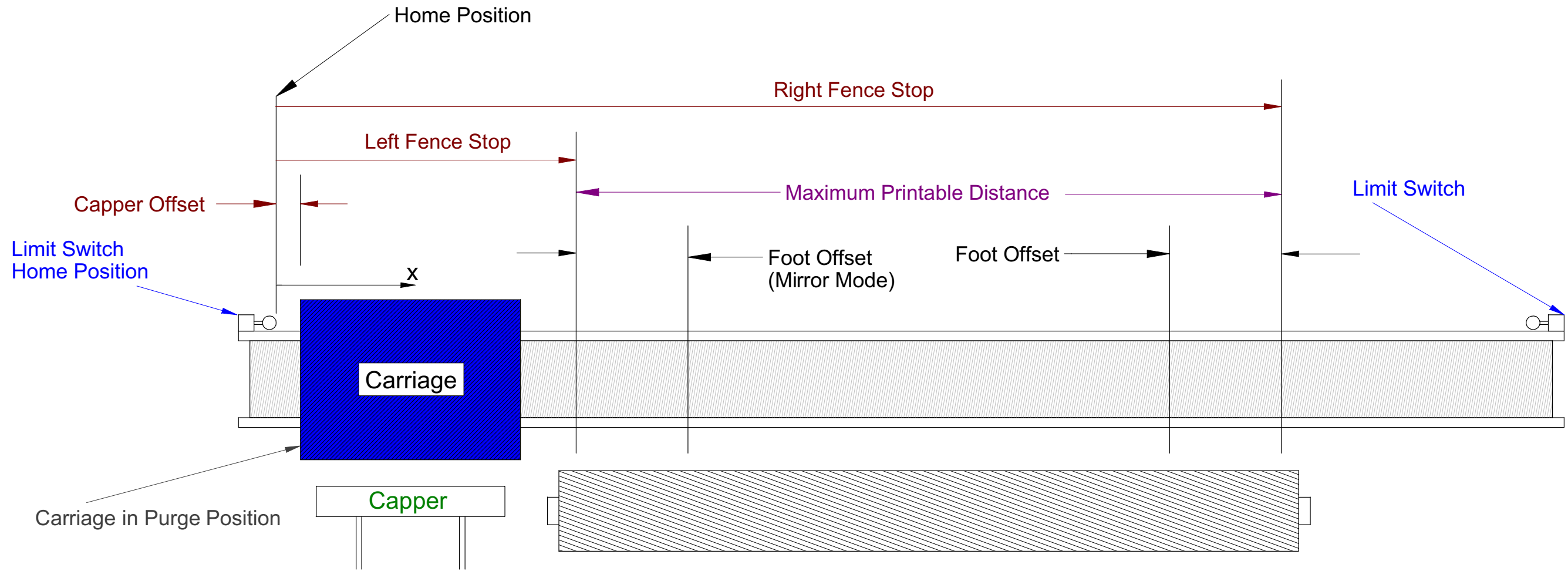
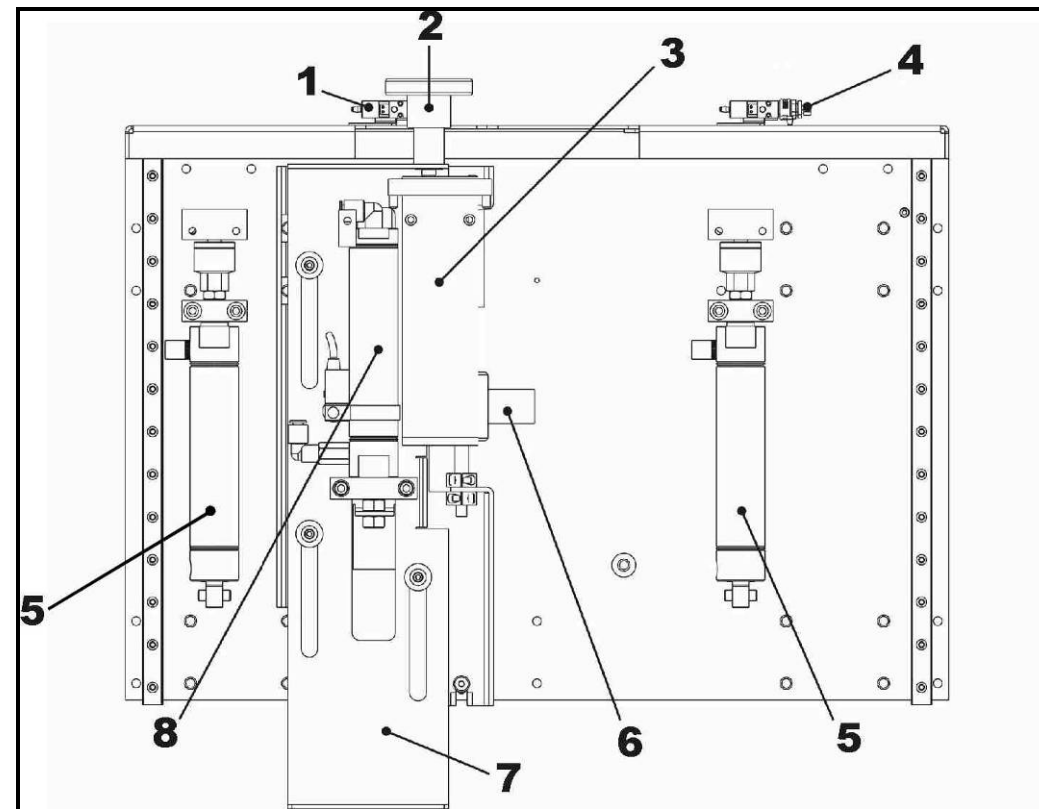


Diagram of Carriage Positions

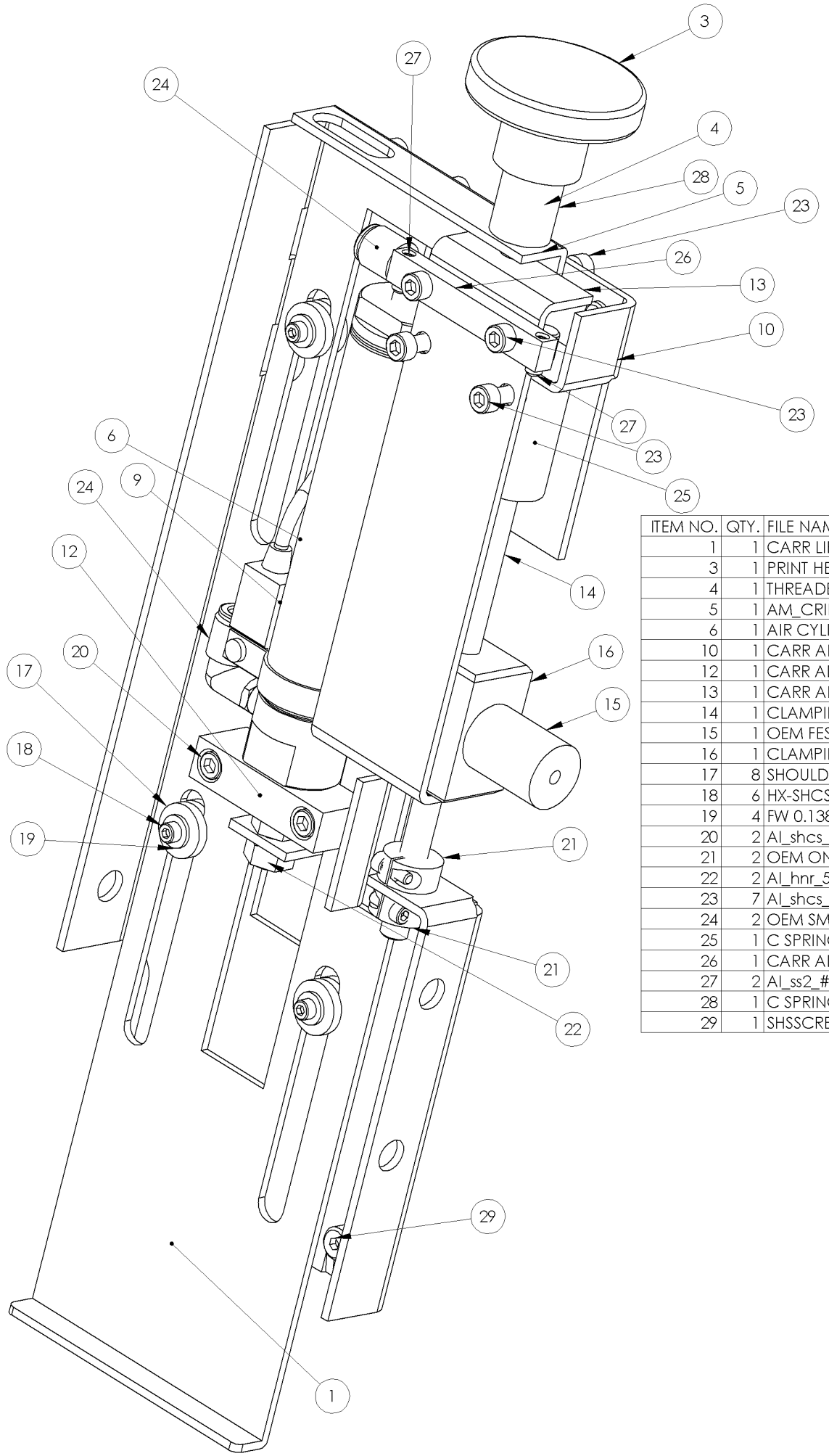
Carriage Auto Lift Assembly

The carriage lift assembly controls the carriage up and down movement and sets the carriage print gap. The carriage is under constant upward force from the two carriage lift cylinders. At the start of a new print job, the carriage moves to the right side of the printer and the foot moves down to the print surface, pulling the carriage with it. As the foot contacts the media, the mechanical dimension (including the print gap) is set and the air solenoid locks the carriage in place. After the printer locks the carriage height, the foot lifts and printing begins.



Carriage height adjustment assembly

1	Air solenoid foot	5	Carriage uplift air cylinder
2	Height adjustment knob	6	Clamping unit
3	Carriage adjustment mounting bracket	7	Foot plate
4	Solenoid clamping unit	8	Air cylinder foot with position switch



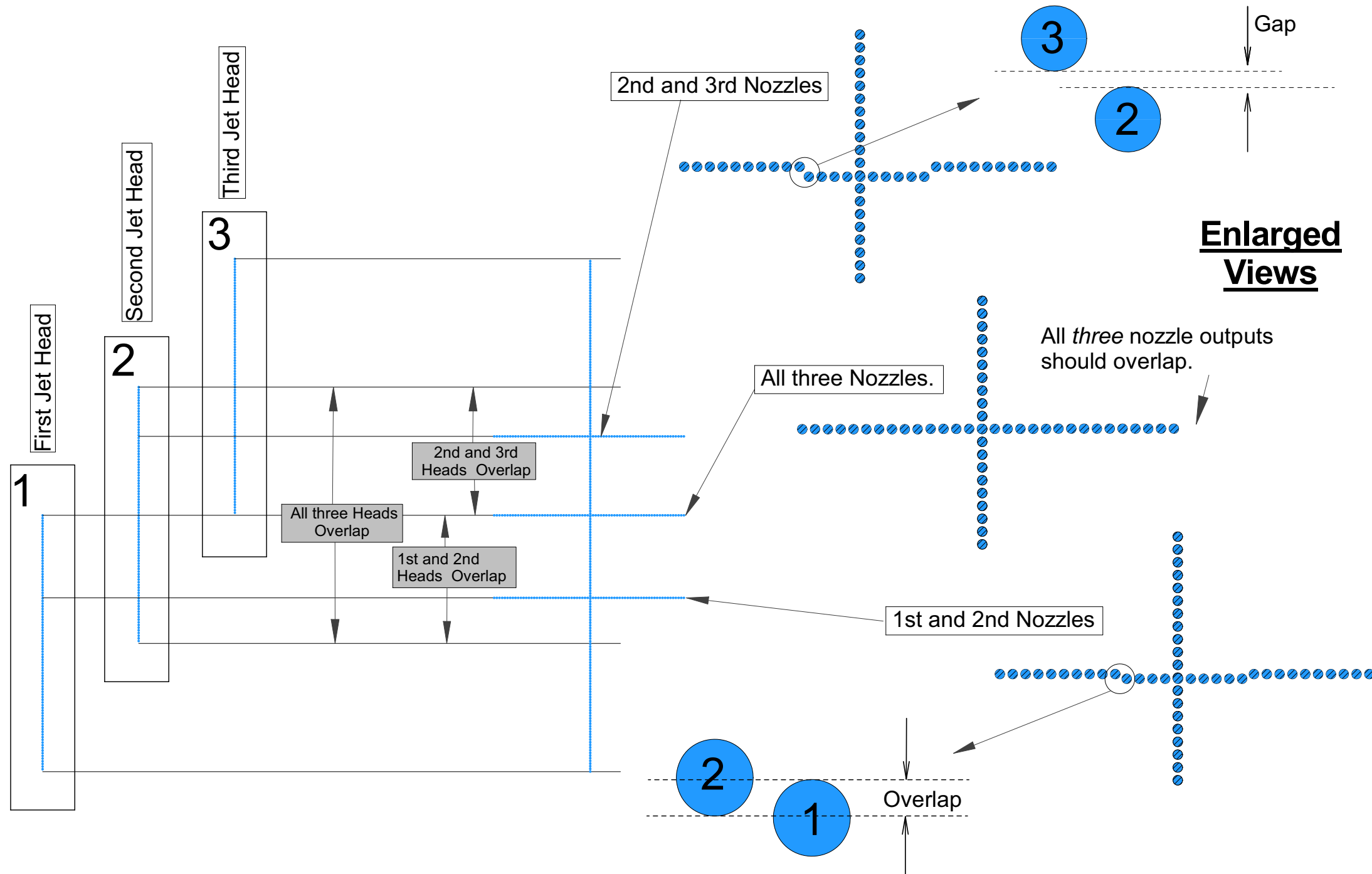
REV.	DESCRIPTION	DATE	CHECKED	APPROVED

ITEM NO.	QTY.	FILE NAME	PART NUMBER	PART NAME	LINE 2	REV
1	1	CARR LIFT GAGE PLATE	A60327-A	CARR LIFT GAGE PLATE		6
3	1	PRINT HEIGHT ADJUST KNOB	P4528-A	KNOB 2 IN	WITH BLIND HOLE 3/8-24	1
4	1	THREADED LIFTER STEM	A60321-A	THREADED LIFTER STEM		6
5	1	AM_CRING .25 X .029	P4639-A	C-RING .25 DIA	CRESCENT 5103	1
6	1	AIR CYLINDER NCDMB 106	P4643-A	SMC NCDMB106-0300-B64		
10	1	CARR ADJUST MTG PLATE	A60322-A	CARR ADJUST	MTG PLATE	3
12	1	CARR ADJUST AIR CYL CLEVIS	A60323-A	CARR ADJUST	AIR CYL CLEVIS	5
13	1	CARR ADJUST CARR PLATE BRKT	A60324-A	CARR ADJUST	CARR PLATE BRKT	1
14	1	CLAMPING UNIT ROD 8MM X 7.5	P4642-A	CLAMPING UNIT ROD	8MM X 7.50 L	
15	1	OEM FESTO CLAMPING UNIT KP-8	P4644-A	OEM FESTO CLAMPING UNIT	KP-8	
16	1	CLAMPING BLOCK	A60325-A	CLAMPING BLOCK		5
17	8	SHOULDER WASHER RAF 5895	P4636-A	RAF SHOULDER WASHER	5895N.375.050.230	1
18	6	HX-SHCS 0.138-32x0.375x0.375-N				
19	4	FW 0.138				
20	2	Al_shcs_#10-32_0.438_0.438_He_Cos_1		SOCKET HEAD CAP SCREW	10-32 X 7/16	1
21	2	OEM ONE PIECE SHAFT COLLAR .312	P4638-A	OEM COUPLING ONE PIECE .312		1
22	2	Al_hnr_5.16-18_0.313_B_1				1
23	7	Al_shcs_#10-32_0.5_0.5_He_Cos_1		SOCKET HEAD CAP SCREW	10-32 X 1/2	1
24	2	OEM SMC AIR FITTING ELBOW .25	P8731-A	ELBOW 1/4" X 1/8NPT		
25	1	C SPRING 4 X .035 X .42	P4641-A	C SPRING 4 X .035 X .42	MCM9637K75	1
26	1	CARR ADJUST SET SCEW PLATE	A60326-A	CARR ADJUST	SET SCREW PLATE	5
27	2	Al_ss2_#10-32_0.44_0.44_He_Cos_1		SET SCREW	10-32 X 7/16	1
28	1	C SPRING 1 X .064 X .70	P4640-A	C SPRING 1 X .062 X .72	MCM9637K32	1
29	1	SHSSCREW 0.25x0.125-N	P4637-A		MCM94035A531	

WEIGHT = 5.03 LBS REF.
DENSITY = 0.22 LBS/IN³

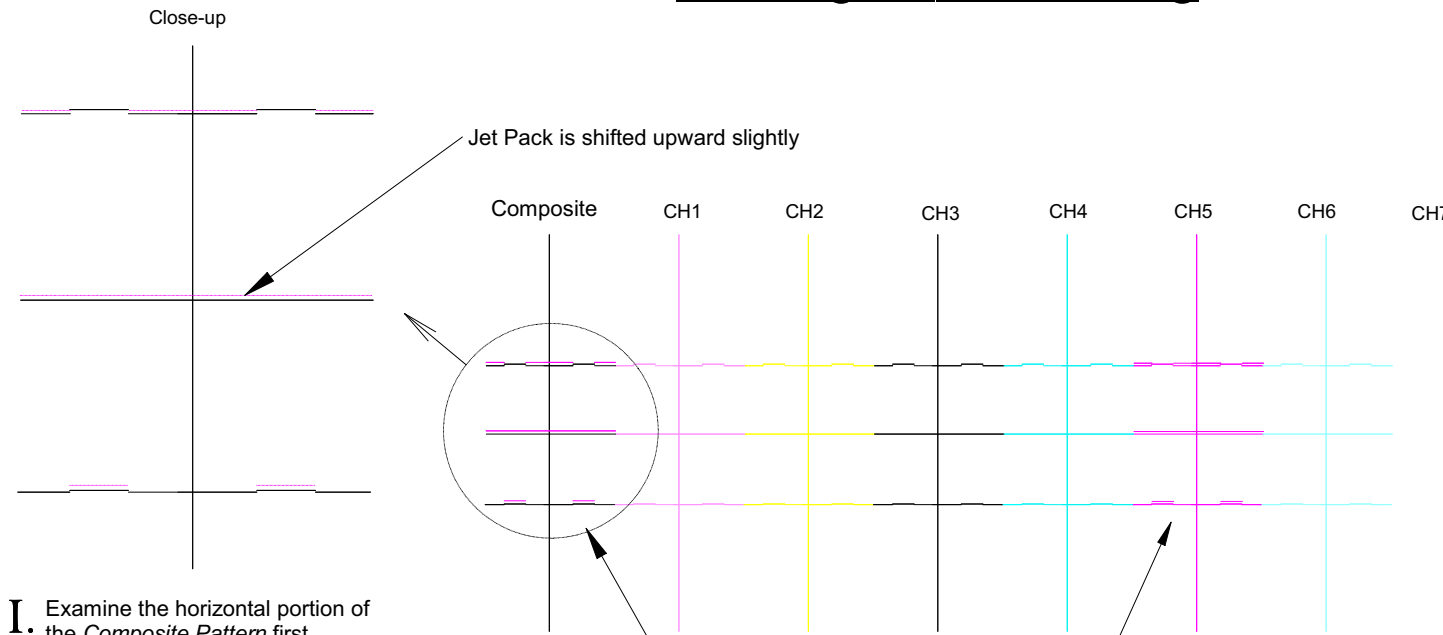
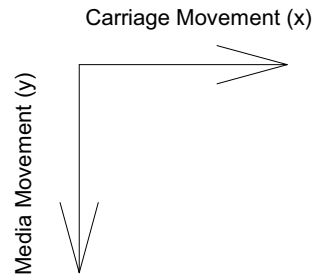
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES #1/16 .XX ±.03 .XX ±.5 63/ XXX ±.005 XXXX ±.0010 REMOVE ALL BURRS AND SHARP EDGES	CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING	VUTEK INC. ONE VUTEK PLACE MEREDITH, N.H. 03253	
		PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK, INC. IS PROHIBITED.	
APPROVAL	DATE	TITLE	DWG. NO.
DRAWN	RR	9/24/03	AA90590
CAD FILE:	HEIGHT ADJUST ASSY 1.25	SCALE 1:2	PROJECT: FIREFLY
FINISH	N/A		SHEET 1 OF 1

Jet Head Alignment Test



Revision C

Jet Alignment Tuning



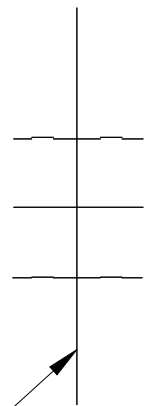
I. Examine the horizontal portion of the *Composite Pattern* first.

Problem: Jet pack is not set against jet plate properly.

Remedy: Adjust the position of the Jet Pack, see **Step 1**.

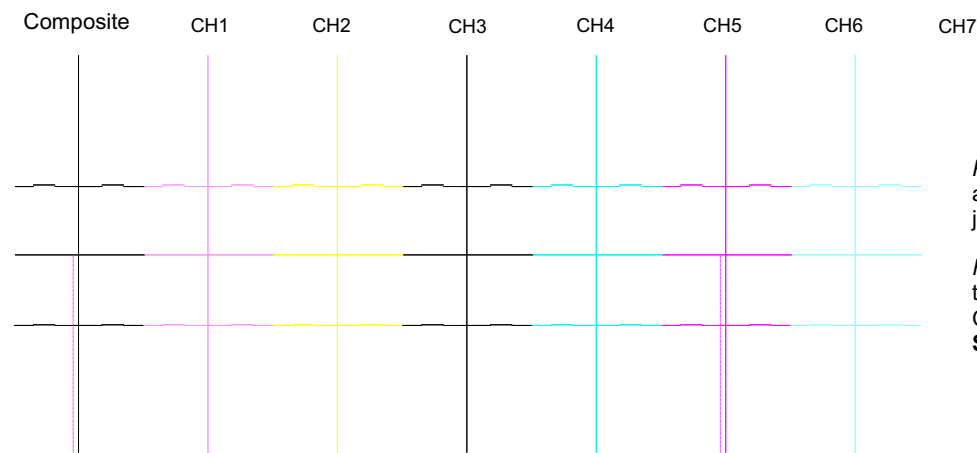
Carrige Direction during test.

Example of correct *Composite Pattern*.



All 7 colors overlap to form straight vertical line.

II. Examine the vertical portion of the *Composite Pattern* first.

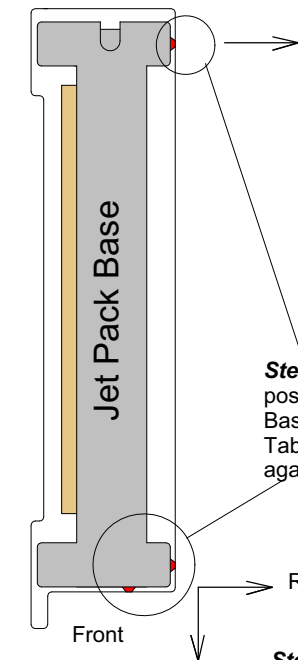
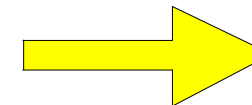


Example of 1st Jet Pack (CH5) out of horizontal alignment.

Problem: Jet Pack is not properly adjusted against jet plate and/or jet pack is firing late.

Remedy: Adjust the position of the Jet Pack, see **Step 1**. Continue through **Step 2** then **Step 3** if necessary.

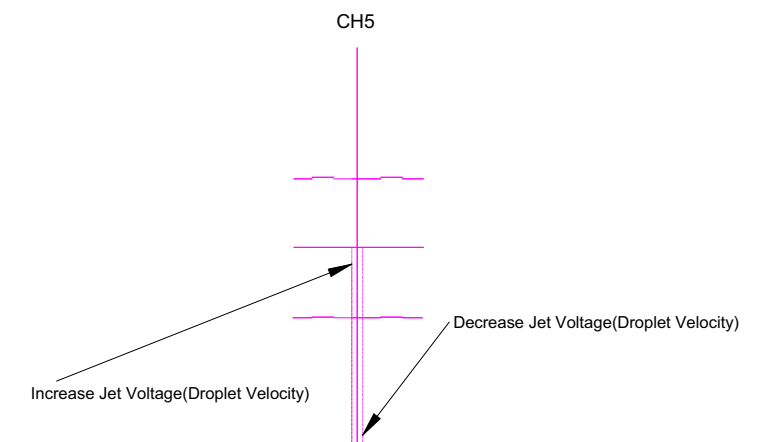
If a Jet Pack is misaligned, check the following items before considering replacement.

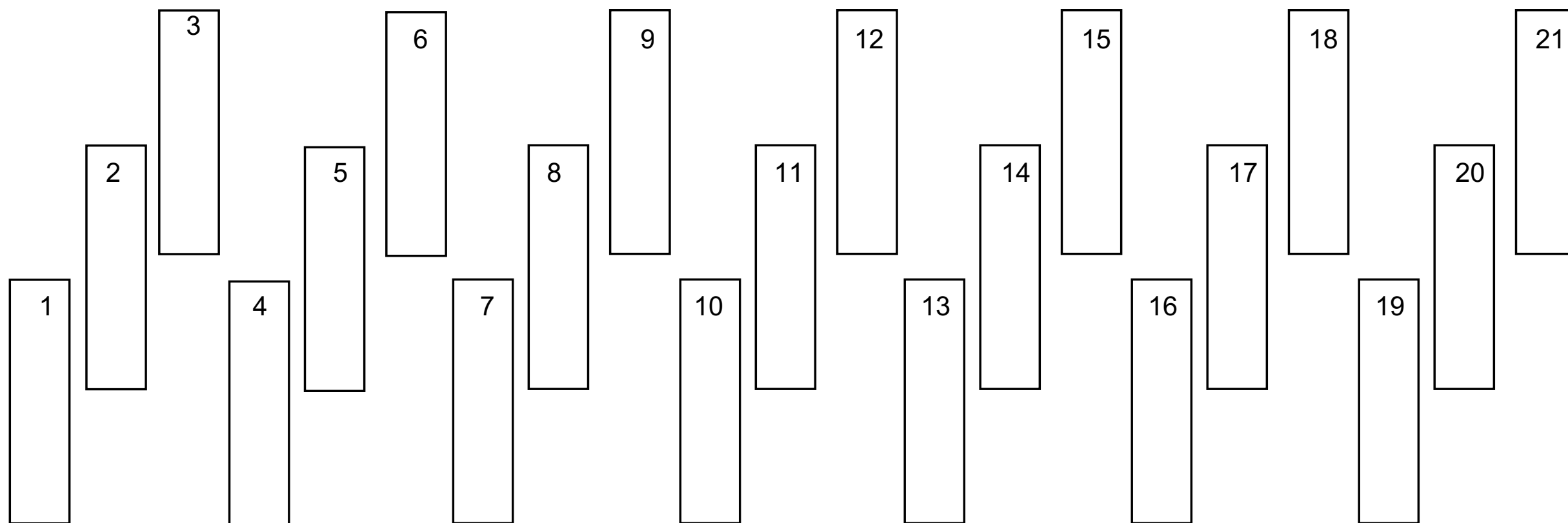


Step 1: Verify position of Jet Pack Base on Jet Plate. Tabs should be tight against housing walls.

Step 2: Verify the voltage and temperature settings. See VAB-00249-B for values.

Step 3: Adjust voltage settings in firmware. Increase voltage setting to increase droplet velocity and decrease voltage setting to decrease droplet velocity. Change voltage in increments of 0.2 V, MAXIMUM CHANGE = 1.0 V.





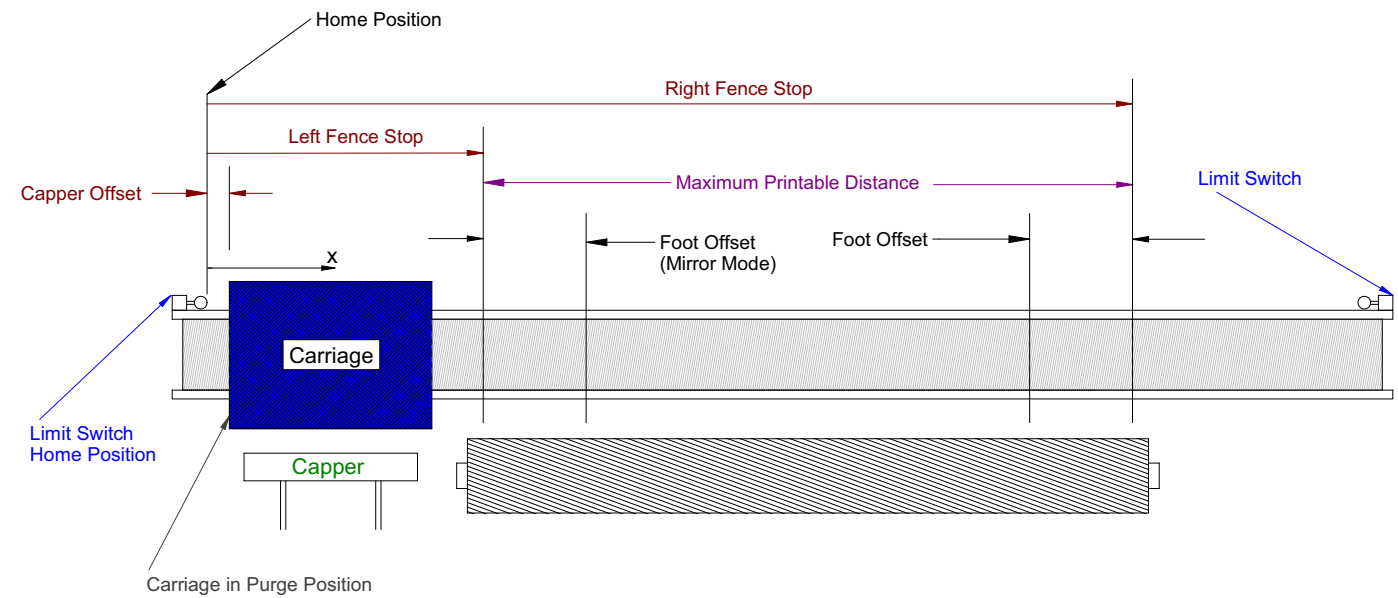
Jet Temperature

Light Magenta	118° F
Yellow	116° F
Black	118° F
Cyan	116° F
Magenta	116° F
Light Cyan	118° F
White	121° F

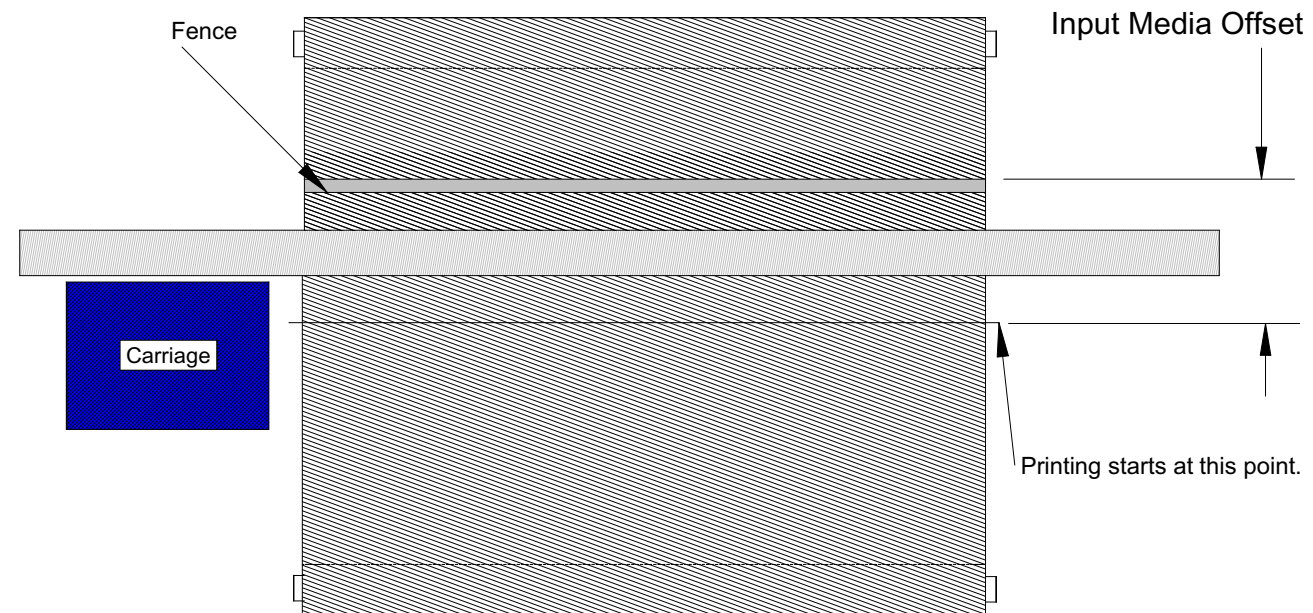
Jet Volts

CMYK Ic Im @ -1.5V
White @ -1.0 V

Diagram of Carriage Positions



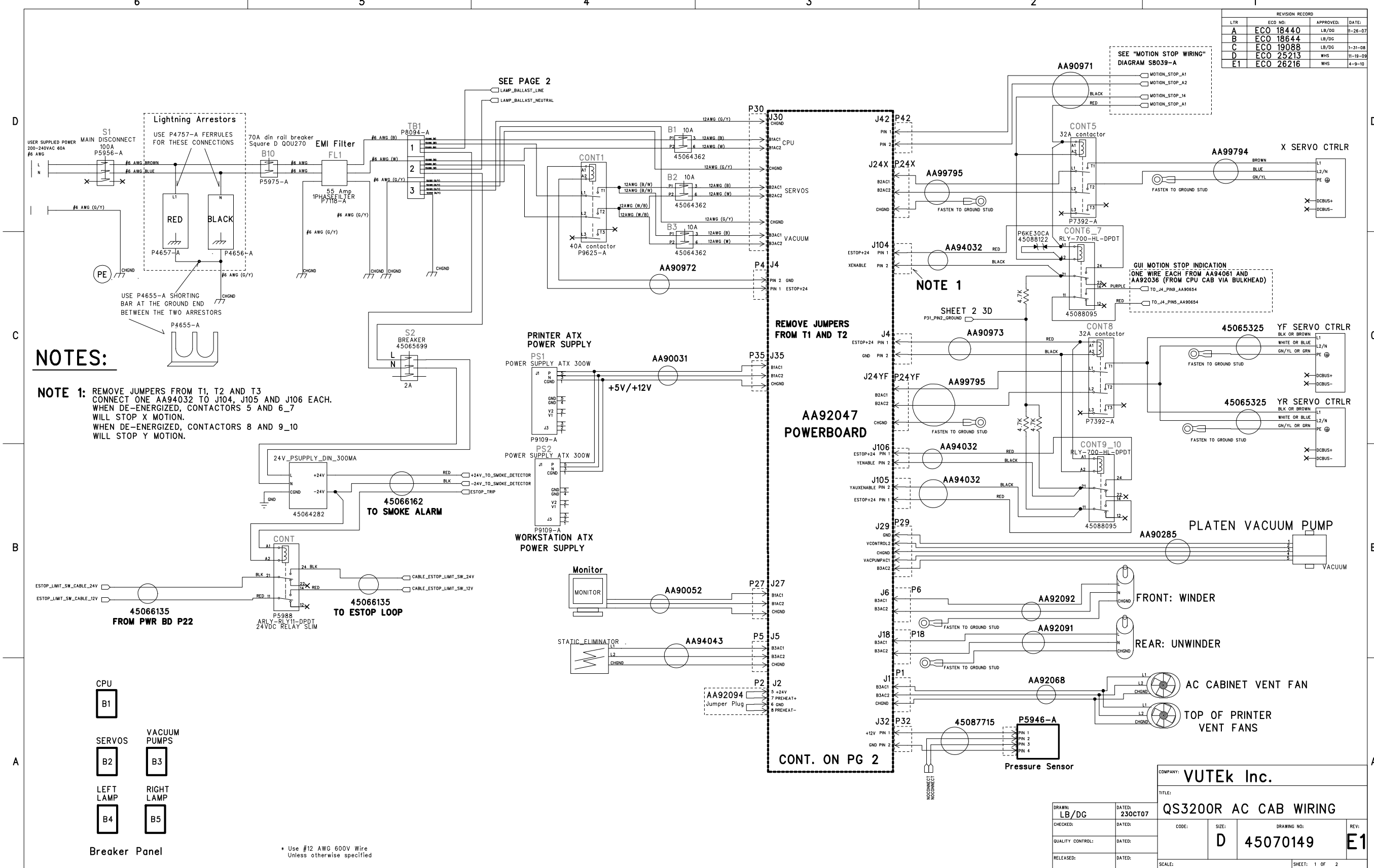
Rear



Flatbed Comparisons

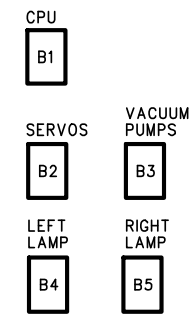
	<u>PV200</u>	<u>PV320</u>	<u>QS2000</u>	<u>QS3200</u>	<u>Differences</u>
Lamps	4"/1600w Mercury halide 3 Power Levels	6"/2400w Mercury 3 Power Levels	6"/2400w Mercury 4 Power Levels	6"/2400w Mercury 4 Power Levels	QS printers need encoder signal to open shutters.
Belt/Table	2m	3.2m/Tension System – Fixture Needed to tension.	2m – PV200	3.2m – PV320	
Ink System	4C/6C/4C W+ RFID System	4C – RFID Weight System	7C (includes white)	7C (includes white)	
Software	VxWorks UltraVu	VxWorks VUI (Linux)	VxWorks VUI (Linux)	VxWorks VUI (Linux)	Linux VUI enables us to be able to manipulate files on the fly.
Electronics	x360 E-Box	x360 E-Box	x360 E-Box Moved the pixel board to the Linux computer	x360 E-Box Moved the pixel board to the Linux computer	
Servo	Emerson	Allen Bradley Ultra 3000	Allen Bradley Ultra 3000	Allen Bradley Ultra 3000	
Jets	Spectra 600 DPI	Spectra 600 DPI	Seiko 540 DPI 3 Jets/Color	Seiko 540 DPI 3 Jets/Color	
Carriage	Carriage Int High Voltage	Carriage Int High Voltage	Digital Board Analog Board	Digital Board Analog Board	

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:
A	ECO 18440	LB/DC	1-26-07
B	ECO 18644	LB/DC	1-31-08
C	ECO 19086	LB/DC	1-31-08
D	ECO 25213	WHS	11-19-09
E1	ECO 26216	WHS	4-9-10



NOTES:

NOTE 1: REMOVE JUMPERS FROM T1, T2 AND T3 CONNECT ONE AA94032 TO J104, J105 AND J106 EACH. WHEN DE-ENERGIZED, CONTACTORS 5 AND 6_7 WILL STOP X MOTION. WHEN DE-ENERGIZED, CONTACTORS 8 AND 9_10 WILL STOP Y MOTION.



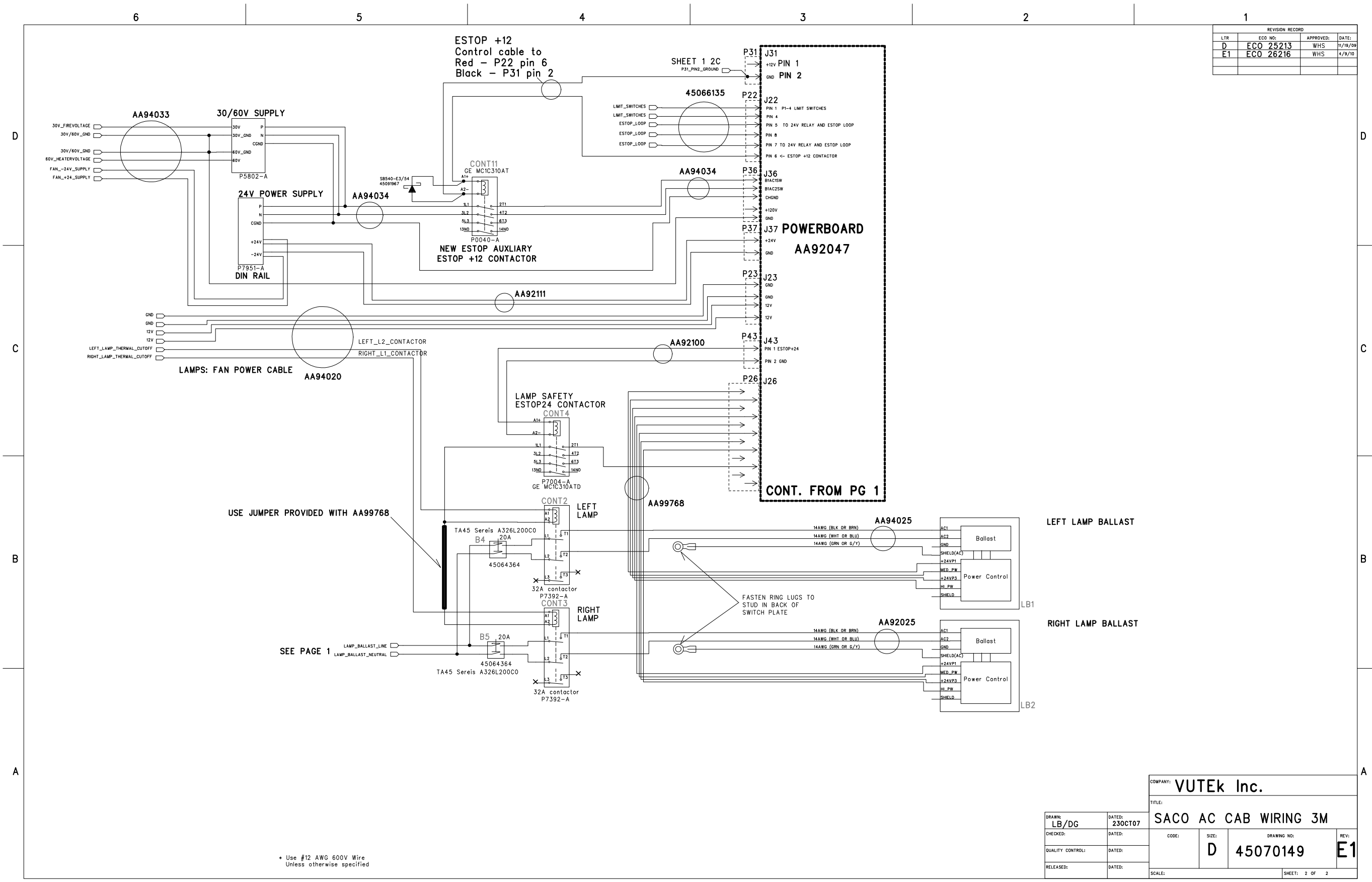
Breaker Panel

* Use #12 AWG 600V Wire Unless otherwise specified

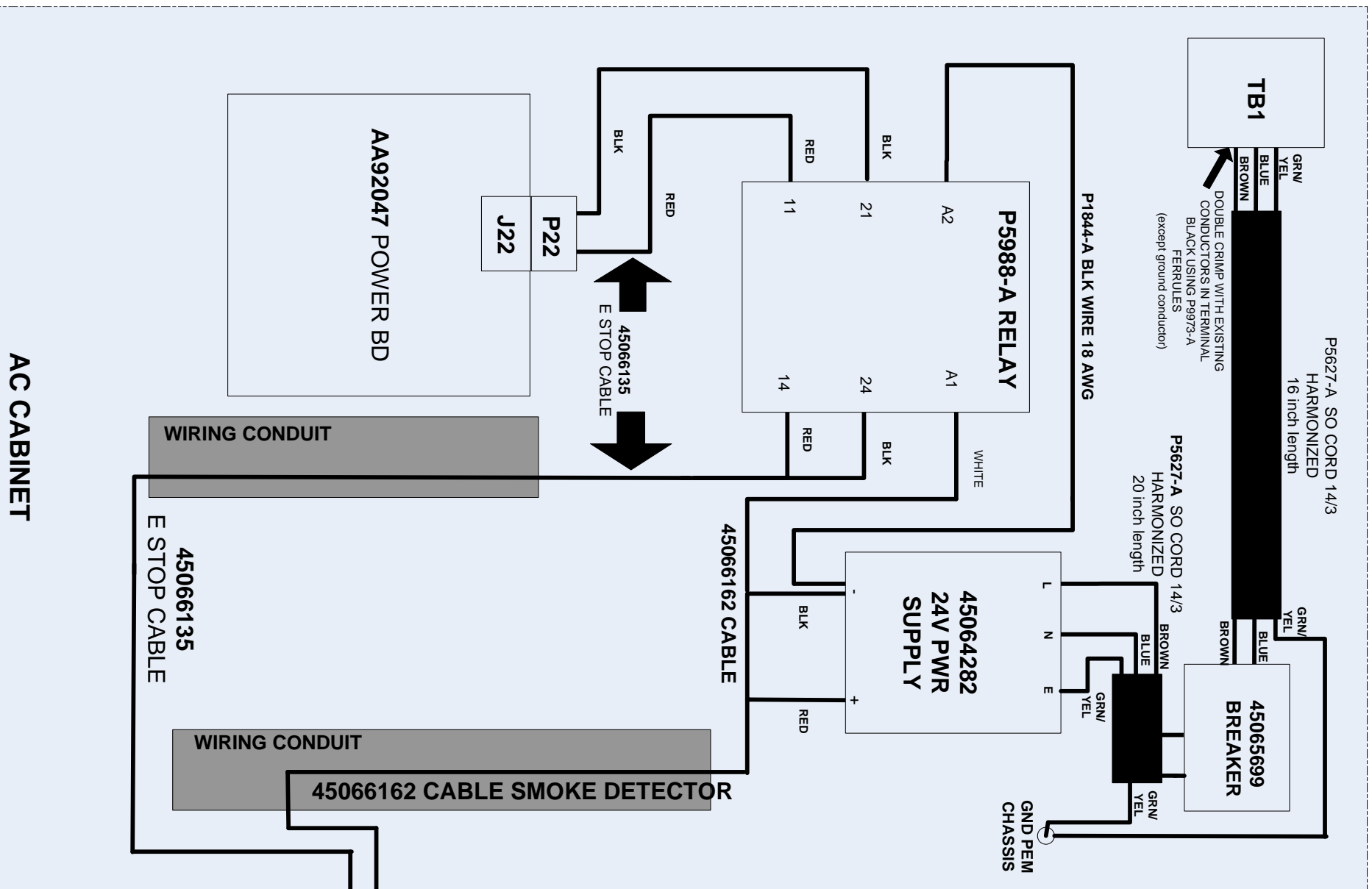
DRAWN: LB/DC	DATED: 23OCT07
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:

COMPANY: VUTEk Inc.	
TITLE: QS3200R AC CAB WIRING	
CODE: D	SIZE: 45070149
SCALE:	REV: E1
SHEET: 1 OF 2	

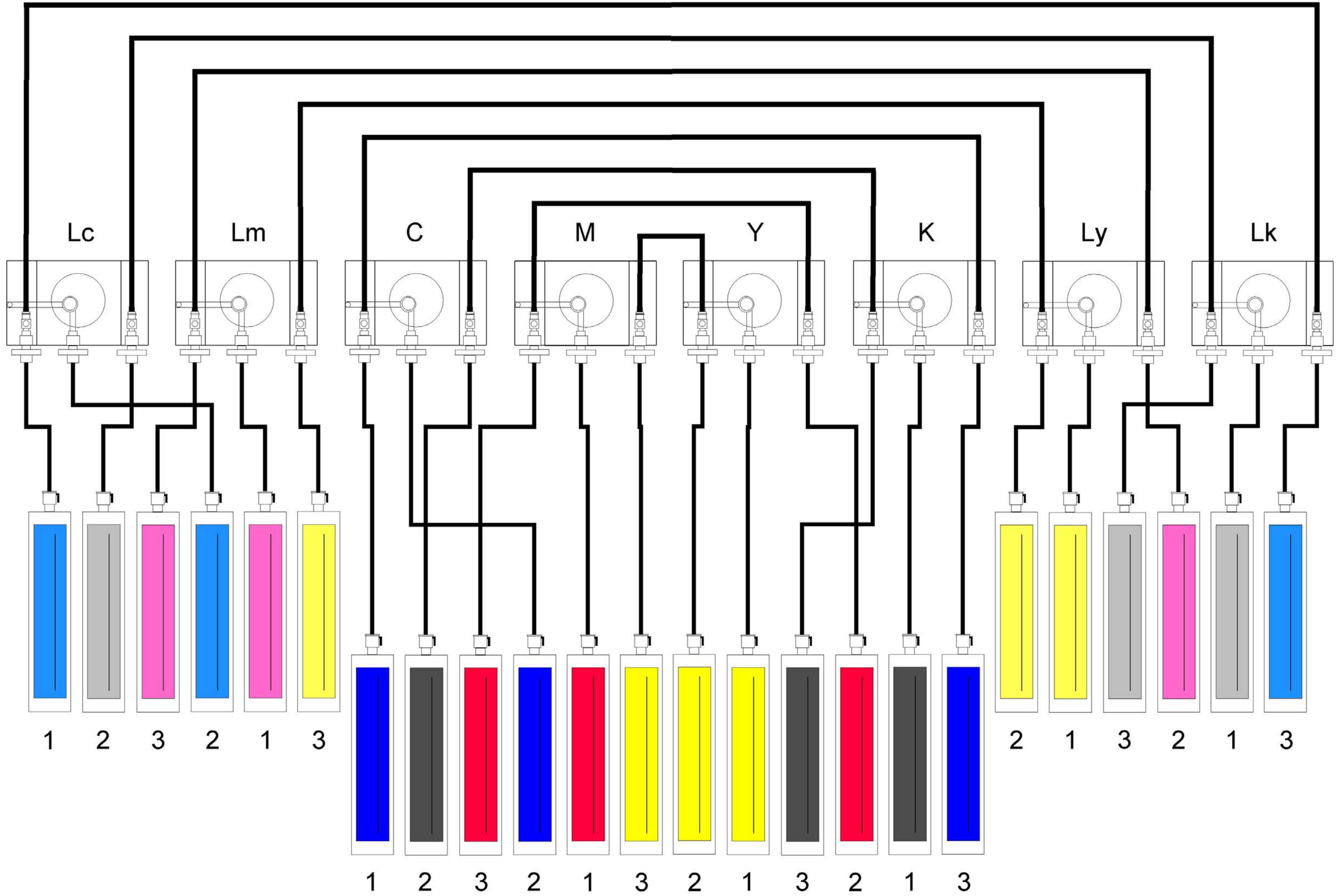
REVISION RECORD			
LTR	ECO NO.	APPROVED:	DATE:
D	ECO 25213	WHS	11/18/09
E1	ECO 26216	WHS	4/9/10



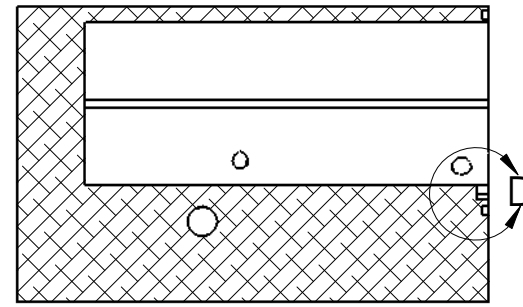
COMPANY: VUTEk Inc.			
TITLE: SACO AC CAB WIRING 3M			
DRAWN: LB/DG	DATED: 23OCT07	CODE:	SIZE: D
CHECKED:	DATED:	DRAWING NO: 45070149	REV: E1
QUALITY CONTROL:	DATED:	SCALE:	SHEET: 2 OF 2
RELEASED:	DATED:		



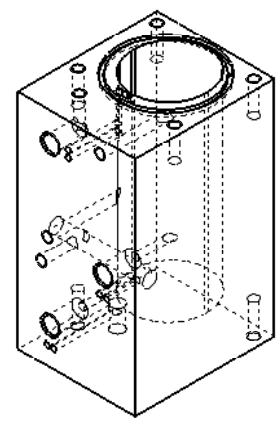
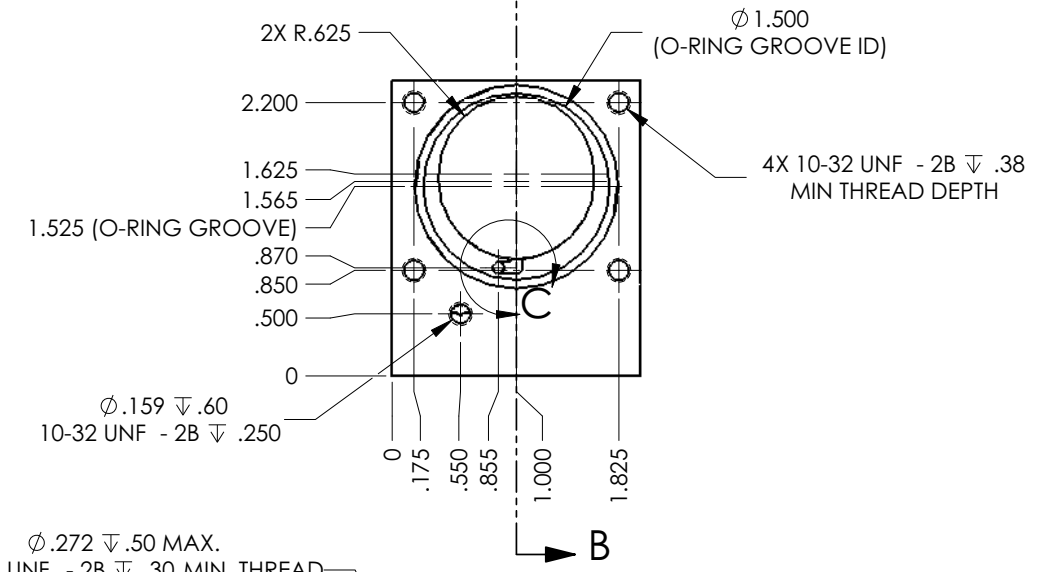
EXITS FROM
AC CABINET



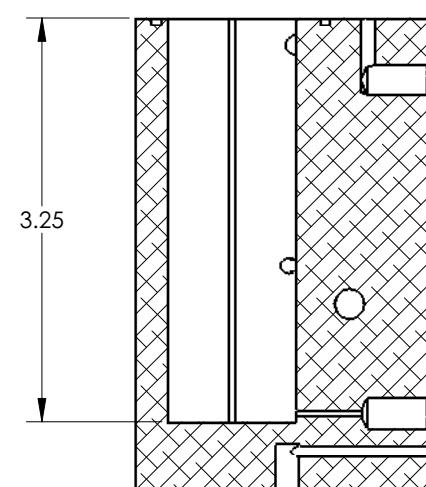
REV	DESCRIPTION	DATE	DRN BY	APPRVD
1	PROTOTYPE RELEASE	3/23/2007	SPL	SPL
2	ADDED DIMENSION TO #10-32 HOLE	4/19/2007	SPL	SPL



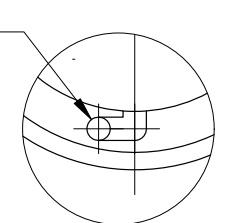
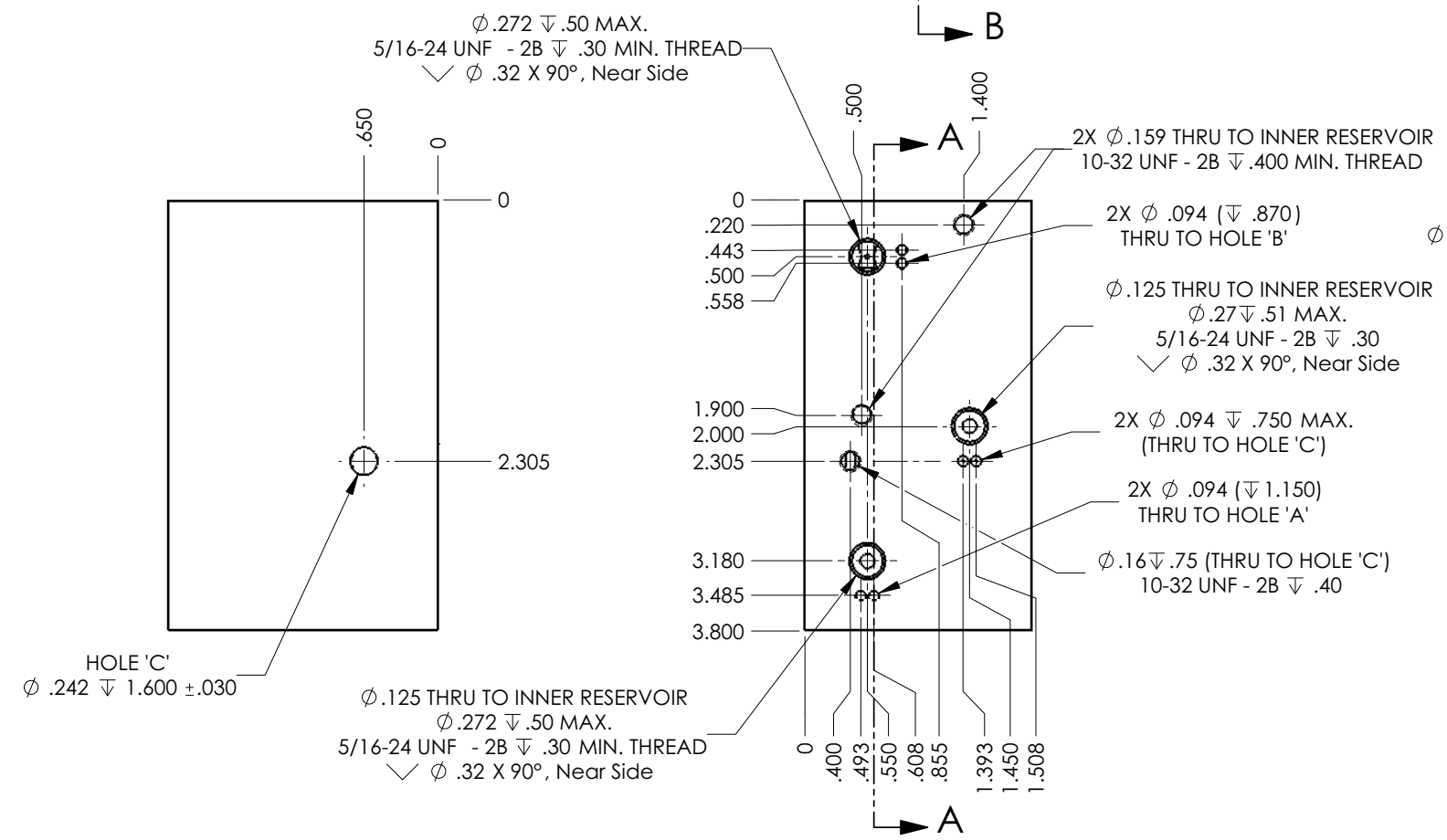
SECTION B-B
SCALE 1:1



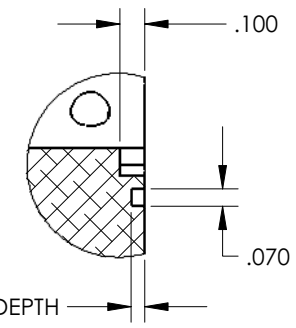
ISOMETRIC VIEW



SECTION A-A



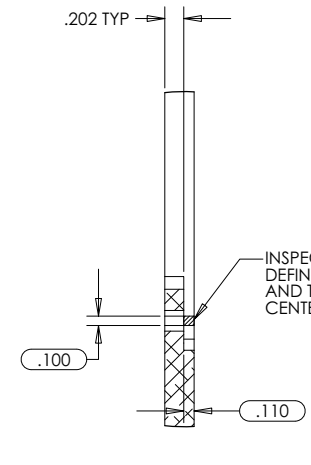
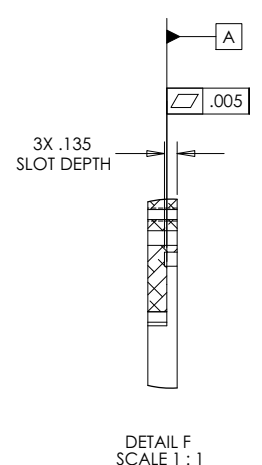
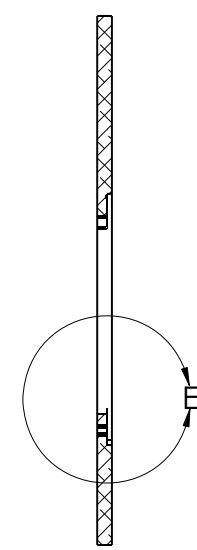
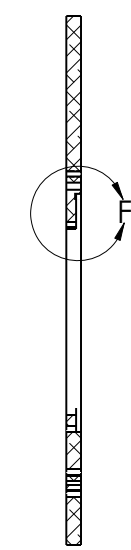
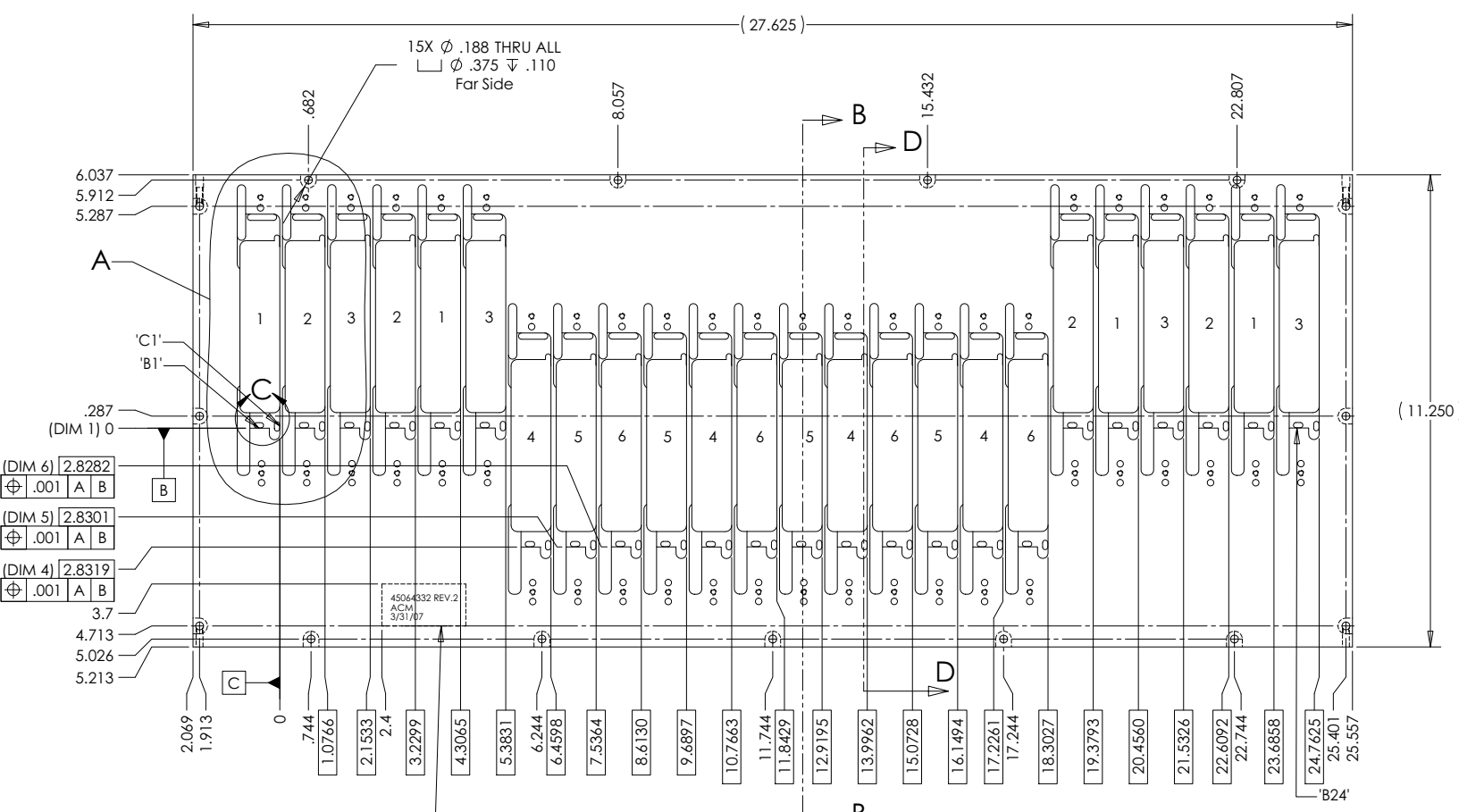
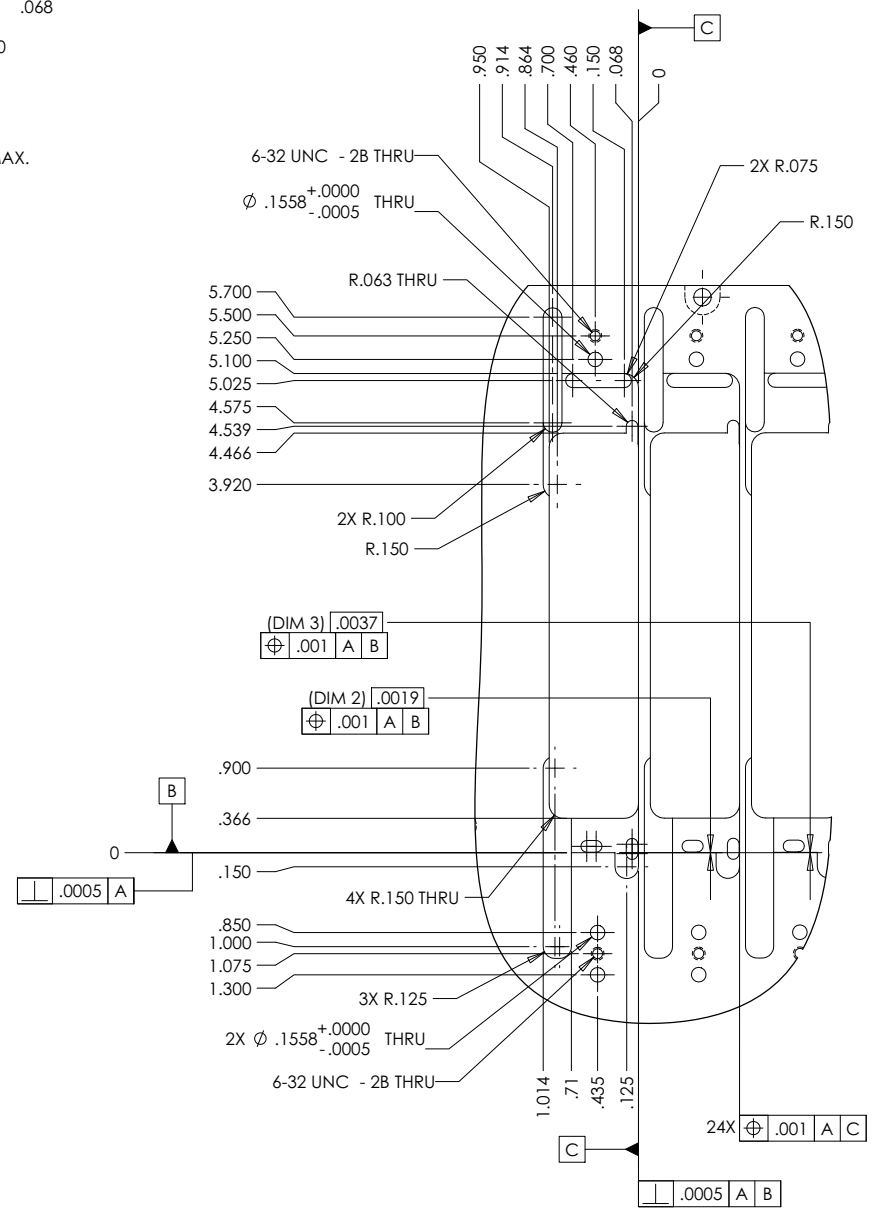
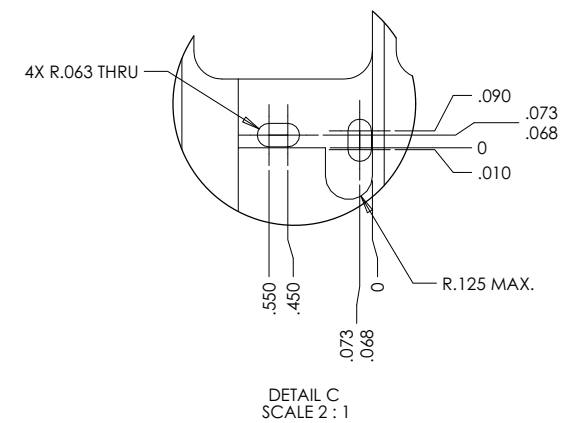
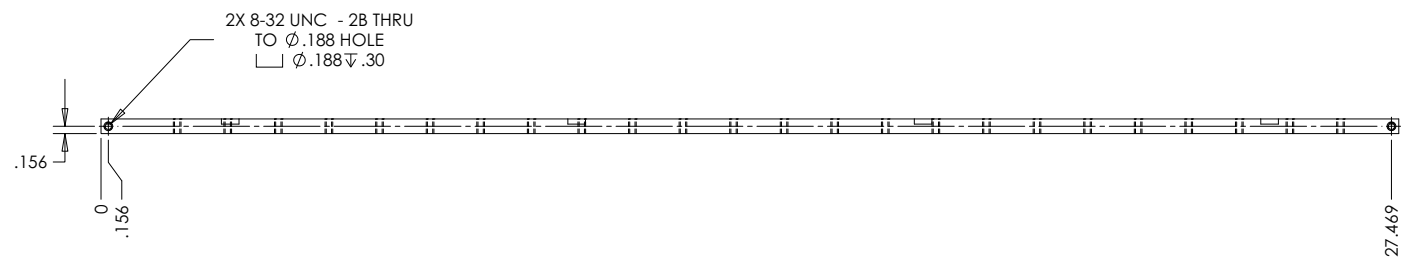
DETAIL C
SCALE 2:1



DETAIL D
SCALE 2:1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±1/16 .XX ±.03 .XX ±.5 63/100 .XX ±.01 .XX ±.1 .XXX ±.005 .XXXX ±.0010	CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK, INC. IS PROHIBITED.	VUTEK, INC. ONE VUTEK PLACE MEREDITH, N.H. 03253	
		TITLE 2ND INK RESERVOIR, FAST FOUR	
REMOVE ALL BURRS AND SHARP EDGES MATERIAL 6061-T6 ALUMINIUM FINISH NONE	DRAWN SPL DATE 3/23/2007	DESIGNED SPL DATE 3/23/2007	SCALE 1:1
	CAD FILE: 2ND INK RESERVOIR, FAST FOUR	SIZE C	PROJECT: MAIN MACHINE
		DWG. NO. 45063600	SHEET 1 OF 2

REV	DESCRIPTION	DATE	DRN BY	APPRV
1	PROTOTYPE RELEASE	4/30/2007	SPL	SPL
2	MODIFIED FOR 106°F COMPENSATION (WAS 110°F)	5/1/2007	SPL	SPL



****CNC .25" HIGH LETTERS ON FAR SIDE****
 LINE 1 --- 45064332 REV. (CURRENT)
 LINE 2 --- FIRST 3 LETTERS OF YOUR COMPANY NAME
 LINE 3 --- DATE OF MANUFACTURE
***** DO NOT STAMP *****
 EXAMPLE:
 45064332 REV. 2
 ACM
 3/31/07

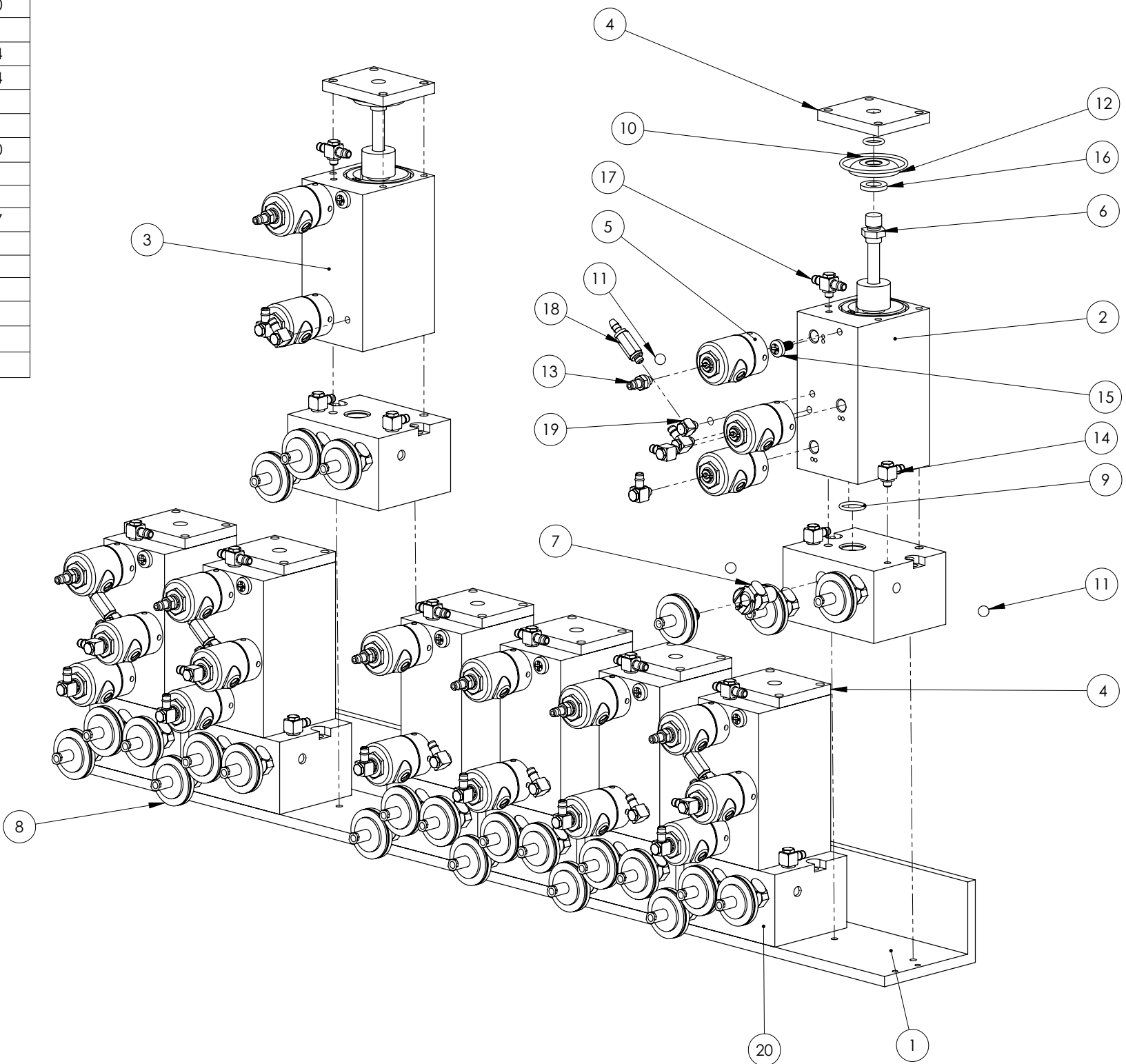
INSPECTION DIMENSIONS SHOW AREA DEFINING DATUMS 'B' AND 'C' AND TRUE POSITION REFERENCES CENTERED ABOUT SLOTS

REPEAT CUTOUTS AND 5 HOLE PATTERN, OFFSET VERTICALLY AS IDENTIFIED BY THE DIMENSION NUMBER INDICATED. REPEAT PATTERN FOR A TOTAL OF 24 SLOTS

- NOTES**
1. ALL DIMENSIONS APPLY AT 68°F (20°C)
 2. 'B1' & 'B24' ARE POINTS WITHIN PLANES DEFINED IN DETAIL 'E'
 3. 'B1' & 'B24' DEFINE DATUM 'B'
 4. 'C1' IS A POINT WITHIN PLANE DEFINED IN DETAIL 'E'
 5. 'C1' DEFINES DATUM 'C'
 6. EACH SLOT VERTICAL DIMENSION IDENTIFIED BY DIMENSION NUMBERS 1-6

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES 1/16" ±.001 3/16" ±.001 1/8" ±.001 1/4" ±.001 3/8" ±.001 1/2" ±.001 3/4" ±.001 1" ±.001 1.5" ±.001 2" ±.001 3" ±.001 4" ±.001 6" ±.001 8" ±.001 10" ±.001	CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE. DO NOT SCALE DRAWING.	VUTEK, INC. ONE VUTEK PLACE MERIDITH, N.H. 03253
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK, INC. IS PROHIBITED.	DATE: 4/27/2007	JET PLATE, 8 COLOR DBL ROW SACO
MATERIAL: MIC-6 ALUMINUM	DESIGNED: SPL	SCALE: 1:2
DATE: 4/30/2007	DRW: SPL	REV: 2
CAD FILE: JET PLATE, 8 COLOR DBL ROW SACO	SCALE: 1:2	SHEET 1 OF 1

ITEM NO.	NUMBER	DESCRIPTION	QTY.
1	45063859	SUPPORT BAR, 2ND INK TANKS, 8 COLOR	1
2	45063600	2ND INK RESERVOIR, FAST FOUR	4
3	45063670	2ND INK RESERVOIR, SACO	4
4	A62014-A	COVER, 2ND INK RESV 3 OUTPUT	8
5	P5585-A	SOLENOID 3-WAY MANIFOLD MOUNT	20
6	P7899-A	SWITCH LIQ LEV L&H 13" LEADS	8
7	P4762-A	FITTING 1/8NPT W/SHUTOFF	24
8	P4763-A	FILTER FINAL 20 MIC EPDM/LUER	24
9	45064355	O-RING (014) EPDM 70 DURO	8
10	P5575-A	O-RING, 1 5/8 OD, 1 1/2 ID EPDM AS568A-029	8
11	45061066	BALL 1/4" DIA 316 SS	20
12	A60709-A	BAFFLE, 2ND INK TANK	8
13	P8273-A	FITTING 10-32 X .170 BARB 316 SS EPDM	8
14	P5655-A	FITTING ELBOW 10-32 O-RING	37
15	P3772-A	SCREW SELF SEAL 10-32X 3/8 SS	8
16	45058156	WASHER, RUBBER EPDM .355ID X .625OD X .093 THK	8
17	P5654-A	FITTING T 10-32 O-RING .170OD	7
18	45065547	CHECK VALVE, 5PSI SS .170 BARB TO 10-32M	4
19	45065546	ELBOW, 10-32 M TO 10-32 F, SS, EPDM	4
20	45067059	MANIFOLD, 2X1 PASS THRU SACO	8



REV	DESCRIPTION	DATE	DRN BY	APPRVD
1	PROTOTYPE RELEASE	6/5/2007	SPL	SPL
2	REVISED TO MATCH SAP	6/5/2007	SPL	SPL
3	6-12-6 CONFIGURATION	7/5/2007	SPL	SPL
4	ADDED CHECK VALVES	7/16/2007	SPL	SPL
5	ADDED ELBOW CALLOUT ITEM 22	7/18/2007	SPL	SPL
6	UPDATED WITH NEW MANIFOLD	9/13/2007	SPL	SPL

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/16 .XX ±.03 .XX ±.5
.XXX ±.005 .XXXX ±.0010

63 ✓
REMOVE ALL BURRS AND
SHARP EDGES
MATERIAL
N/A
FINISH
N/A

CAD GENERATED DRAWING.
DO NOT MANUALLY UPDATE
DO NOT SCALE DRAWING

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PROHIBITED.

DRAWN
SPL
DATE
4/9/2007

DESIGNED
SPL
DATE
4/9/2007

CAD FILE:
ASSY_SUPPORT BAR_3_OUTPUT_SACO

VUTEK
A DIVISION OF *efi*

TITLE
**ASSY, SUPPORT BAR,
3 OUTPUT, 8 COLOR**

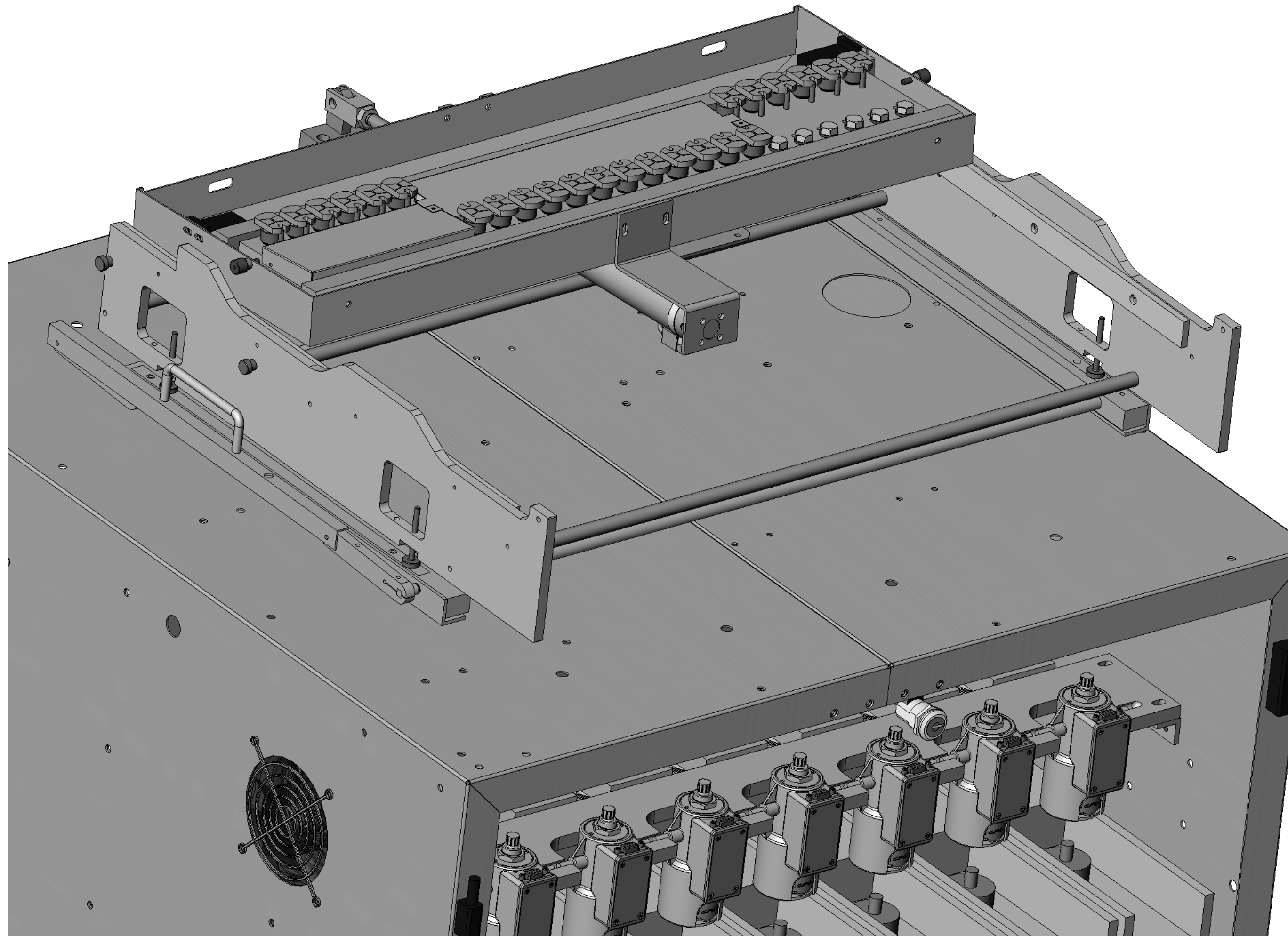
REV.
6

SCALE
1:2

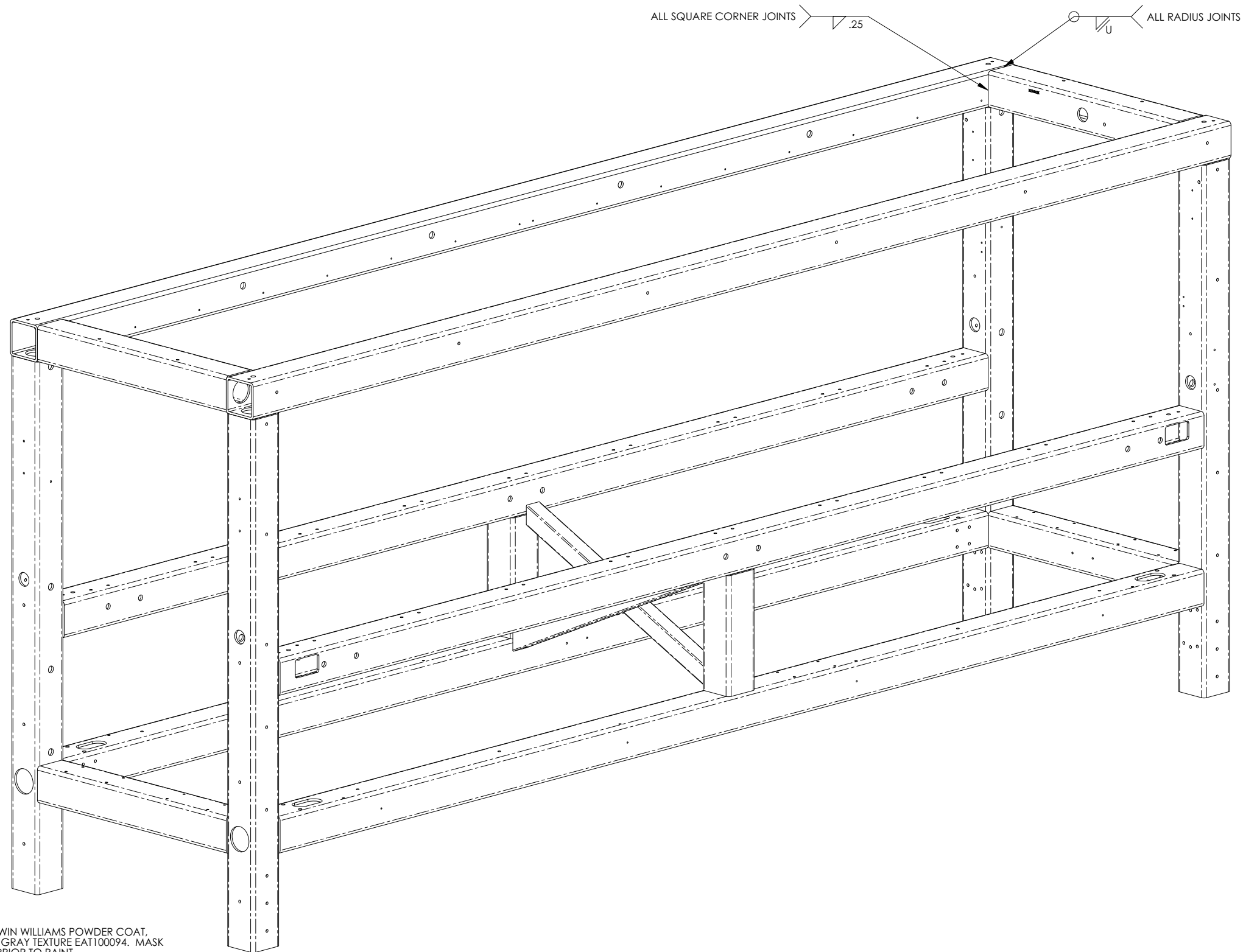
PROJECT: MAIN MACHINE

SHEET 1 OF 1

FORM 423-11C
D021306-A



REV	DESCRIPTION	DATE	DRN BY	APPRVD
2	PROTOTYPE RELEASE	4/30/07	RMN	RR
3	CHANGED 3/8-16 HOLE LOC. SHEET 4 BOTH TUBES	6/13/2007	JT	
4	ADDED 6X 10-32 & 16 .281 HOLES FOR COVERS DELETED 4X 1/4-20 COVER HOLES & 16X 3/8-16 FOR BALLAST MOUNT. MOVED 4X 3/8-16 SHS (D6)	08/10/07	WAS	
5	ECN 5249	8/14/07	CWP	
A	ECN 7018 MOVE 4X Ø.28 HOLES "MOVE & ADD 1 MORE TO 32 HOLE. ADD DIM 4X. SHS. REMOVE Ø1.0 HOLE. MOVE Ø.313 HOLE FROM 45.19 TO 44.45	8/31/2007	RMN	
B	ECN 7025 CORRECT REV A " SHITS TO SH 6 & 7 (D2) REMOVE Ø1.0 HOLE & Ø.313 HOLE 45.19 (D2)	9/19/07	WAS	

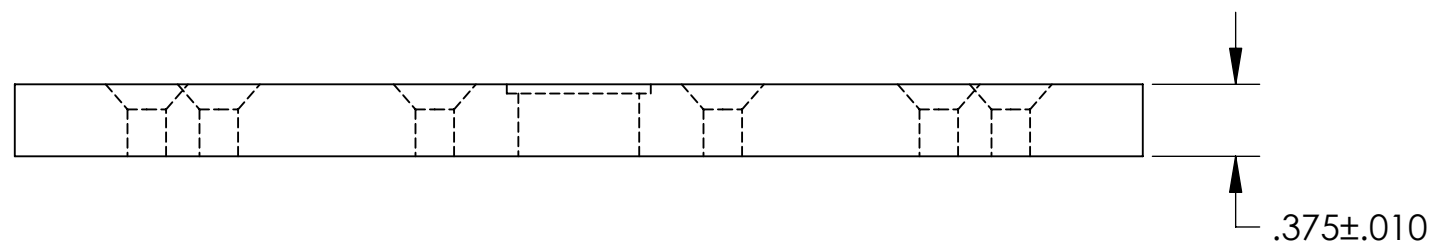
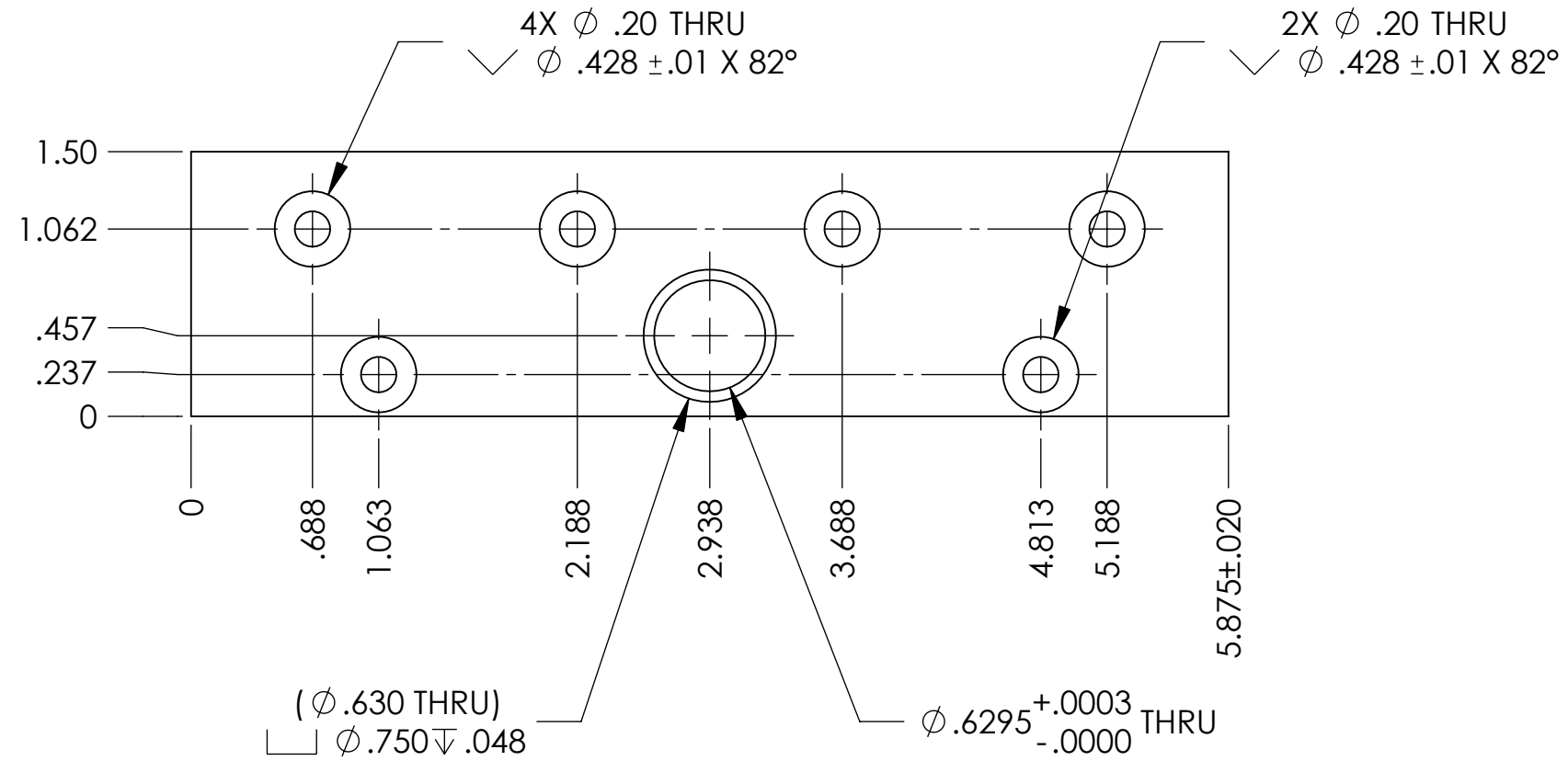




NOTES:

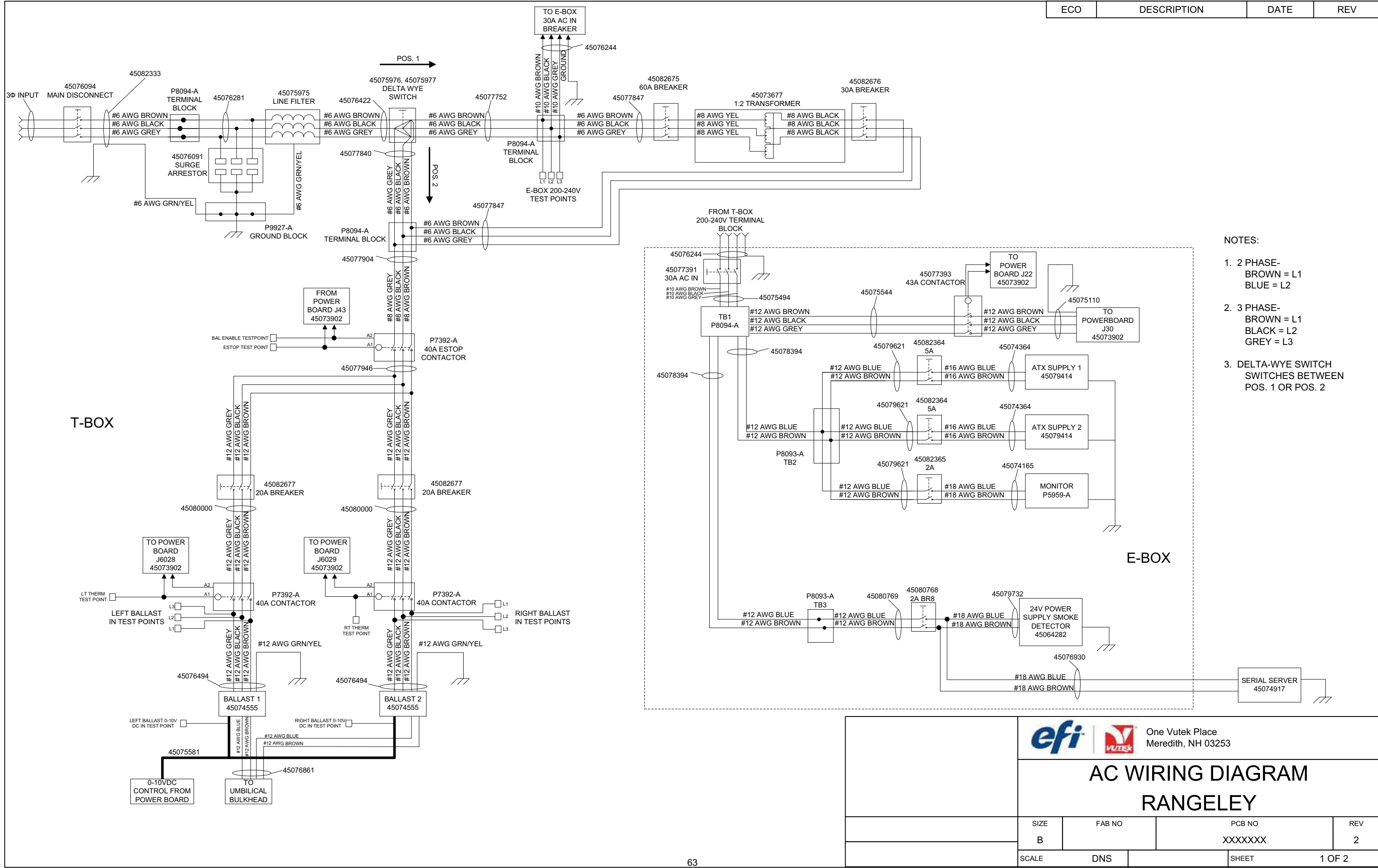
1. FINISH: SHERWIN WILLIAMS POWDER COAT, CHARCOAL GRAY TEXTURE EAT100094. MASK AS SHOWN PRIOR TO PAINT.
2. ALL COMPONENTS SHOWN ON THIS PAGE TO BE WELDED INTO PLACE.
3. ALL EXTERIOR WELDS TO BE GROUND FLUSH.
4. ENGRAVE OR CNC 1ST 3 LETTERS OF VENDOR NAME FOLLOWED BY S/N OF FRAME ON INSIDE TOP AREA. SEE SHEET 8 FOR DETAILS.
5. MATERIAL: 4X4X1/4 STRUCTURAL STEEL TUBE EXCEPT AS NOTED

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES 1/16 3/16 1/4 5/16 3/8 1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 2 3/4 3 3 1/4 3 1/2 3 3/4 4 4 1/4 4 1/2 4 3/4 5 5 1/4 5 1/2 5 3/4 6 6 1/4 6 1/2 6 3/4 7 7 1/4 7 1/2 7 3/4 8 8 1/4 8 1/2 8 3/4 9 9 1/4 9 1/2 9 3/4 10 10 1/4 10 1/2 10 3/4 11 11 1/4 11 1/2 11 3/4 12 12 1/4 12 1/2 12 3/4 13 13 1/4 13 1/2 13 3/4 14 14 1/4 14 1/2 14 3/4 15 15 1/4 15 1/2 15 3/4 16 16 1/4 16 1/2 16 3/4 17 17 1/4 17 1/2 17 3/4 18 18 1/4 18 1/2 18 3/4 19 19 1/4 19 1/2 19 3/4 20 20 1/4 20 1/2 20 3/4 21 21 1/4 21 1/2 21 3/4 22 22 1/4 22 1/2 22 3/4 23 23 1/4 23 1/2 23 3/4 24 24 1/4 24 1/2 24 3/4 25 25 1/4 25 1/2 25 3/4 26 26 1/4 26 1/2 26 3/4 27 27 1/4 27 1/2 27 3/4 28 28 1/4 28 1/2 28 3/4 29 29 1/4 29 1/2 29 3/4 30 30 1/4 30 1/2 30 3/4 31 31 1/4 31 1/2 31 3/4 32 32 1/4 32 1/2 32 3/4 33 33 1/4 33 1/2 33 3/4 34 34 1/4 34 1/2 34 3/4 35 35 1/4 35 1/2 35 3/4 36 36 1/4 36 1/2 36 3/4 37 37 1/4 37 1/2 37 3/4 38 38 1/4 38 1/2 38 3/4 39 39 1/4 39 1/2 39 3/4 40 40 1/4 40 1/2 40 3/4 41 41 1/4 41 1/2 41 3/4 42 42 1/4 42 1/2 42 3/4 43 43 1/4 43 1/2 43 3/4 44 44 1/4 44 1/2 44 3/4 45 45 1/4 45 1/2 45 3/4 46 46 1/4 46 1/2 46 3/4 47 47 1/4 47 1/2 47 3/4 48 48 1/4 48 1/2 48 3/4 49 49 1/4 49 1/2 49 3/4 50 50 1/4 50 1/2 50 3/4 51 51 1/4 51 1/2 51 3/4 52 52 1/4 52 1/2 52 3/4 53 53 1/4 53 1/2 53 3/4 54 54 1/4 54 1/2 54 3/4 55 55 1/4 55 1/2 55 3/4 56 56 1/4 56 1/2 56 3/4 57 57 1/4 57 1/2 57 3/4 58 58 1/4 58 1/2 58 3/4 59 59 1/4 59 1/2 59 3/4 60 60 1/4 60 1/2 60 3/4 61 61 1/4 61 1/2 61 3/4 62 62 1/4 62 1/2 62 3/4 63 63 1/4 63 1/2 63 3/4 64 64 1/4 64 1/2 64 3/4 65 65 1/4 65 1/2 65 3/4 66 66 1/4 66 1/2 66 3/4 67 67 1/4 67 1/2 67 3/4 68 68 1/4 68 1/2 68 3/4 69 69 1/4 69 1/2 69 3/4 70 70 1/4 70 1/2 70 3/4 71 71 1/4 71 1/2 71 3/4 72 72 1/4 72 1/2 72 3/4 73 73 1/4 73 1/2 73 3/4 74 74 1/4 74 1/2 74 3/4 75 75 1/4 75 1/2 75 3/4 76 76 1/4 76 1/2 76 3/4 77 77 1/4 77 1/2 77 3/4 78 78 1/4 78 1/2 78 3/4 79 79 1/4 79 1/2 79 3/4 80 80 1/4 80 1/2 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REV	DESCRIPTION	DATE	DRN BY	CHECKED
1	PROTOTYPE RELEASE	10/3/2007	SPL	



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES $\pm 1/16$.X \pm .03 .X \pm .5 .63/ ∇ .XX \pm .01 .XX \pm .1 REMOVE ALL BURRS AND SHARP EDGES THIRD ANGLE PROJECTION MATERIAL 6061-T6 AL FINISH NONE		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK, INC. IS PROHIBITED. DRAWN SPL DATE 10/3/2007 DESIGNED SPL DATE 10/3/2007 CAD FILE: PLATE, CARRIAGE LIFT MOUNT SACO		  <small>ONE VUTEK PLACE MERRIDEN, CT 06453</small> TITLE PLATE, CARRIAGE LIFT MOUNT SACO SIZE DWG. NO. 45067900 REV. 1 SCALE 1:1 PROJECT: SACO SHEET 1 OF 1	
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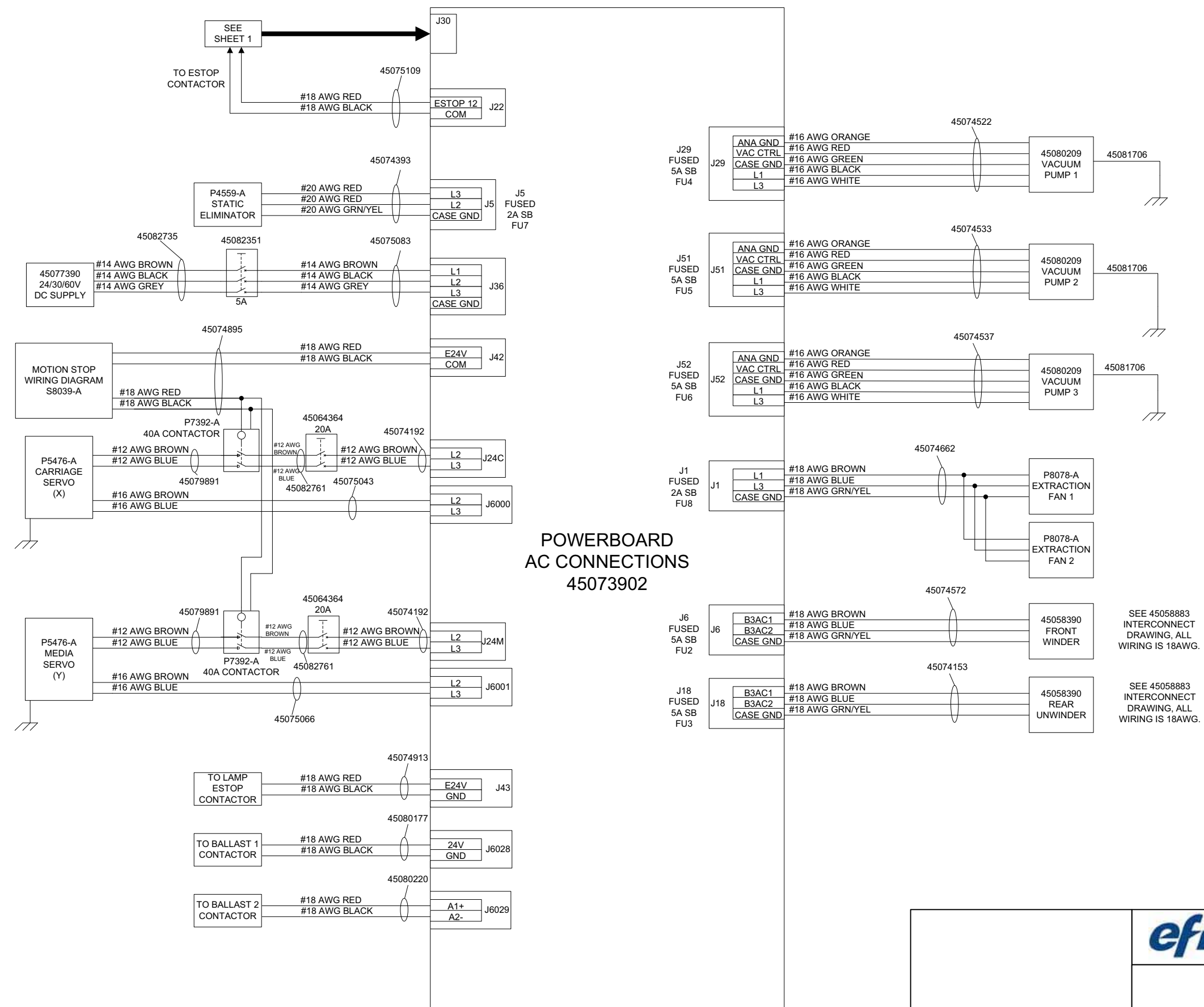


- NOTES:
- 2 PHASE-
BROWN = L1
BLUE = L2
 - 3 PHASE-
BROWN = L1
BLACK = L2
GREY = L3
 - DELTA-WYE SWITCH
SWITCHES BETWEEN
POS. 1 OR POS. 2

efi **VUTEK** One Vutek Place
Meredith, NH 03253

AC WIRING DIAGRAM RANGELEY

SIZE B	FAB NO	PCB NO XXXXXXX	REV 2
SCALE DNS	SHEET		1 OF 2



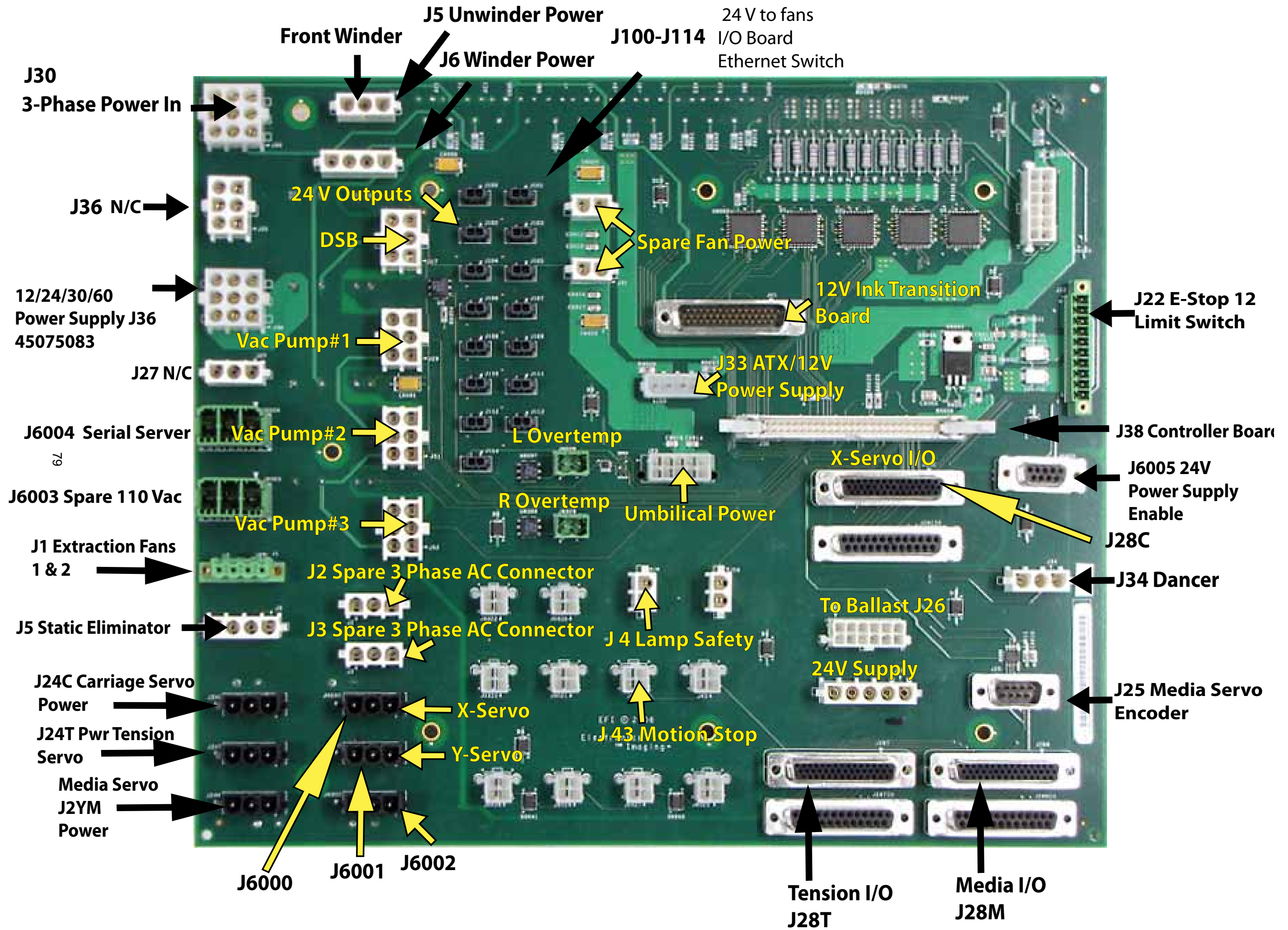
SEE 45058883
INTERCONNECT
DRAWING, ALL
WIRING IS 18AWG.

SEE 45058883
INTERCONNECT
DRAWING, ALL
WIRING IS 18AWG.

efi | **VUTEK** One Vutek Place
Meredith, NH 03253

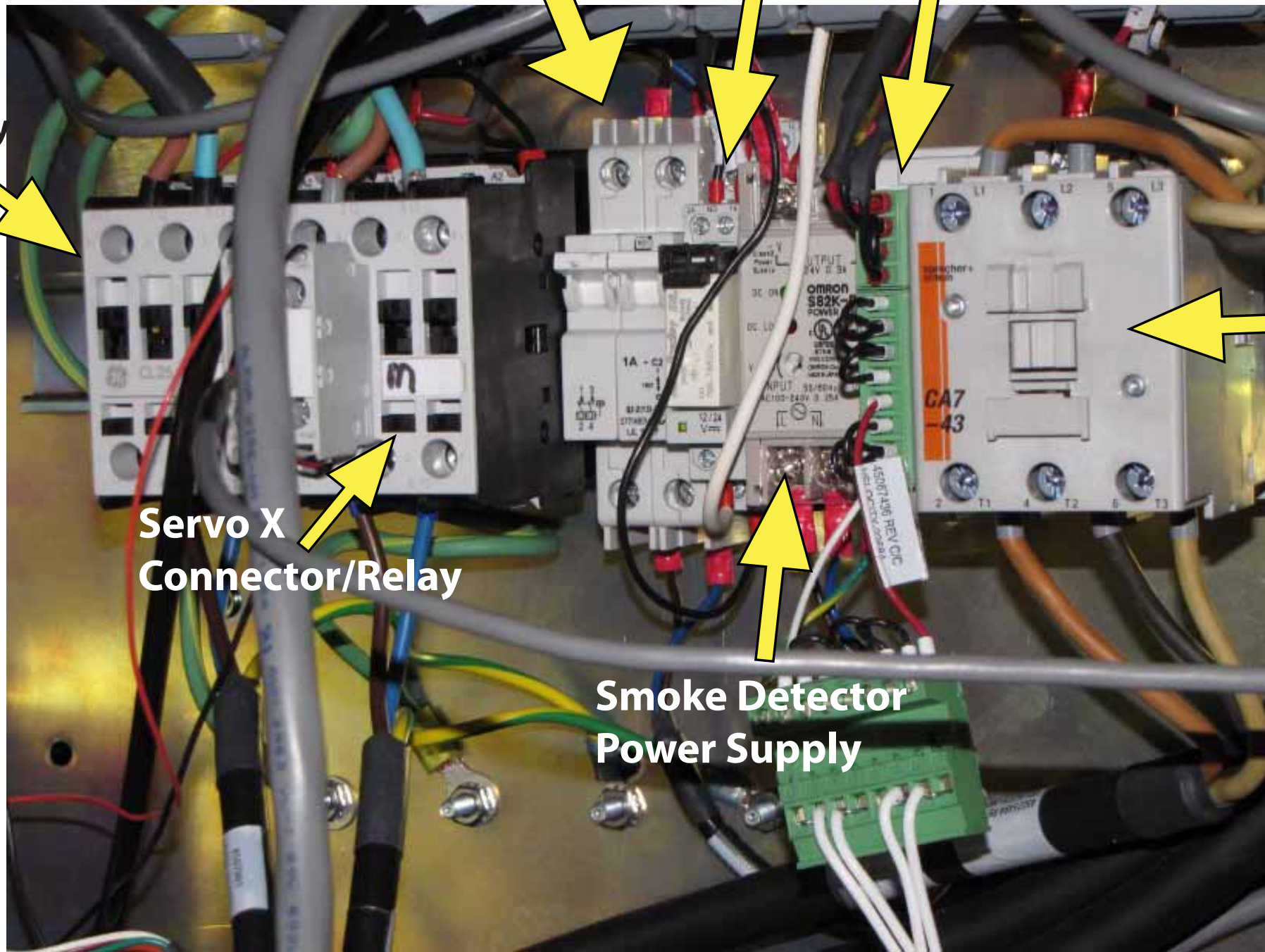
AC WIRING DIAGRAM RANGELEY

SIZE	FAB NO	PCB NO	REV
B		XXXXXXX	2
SCALE	DNS	SHEET	2 OF 2



**Smoke Detector
Circuit Breaker** **Smoke Detector
Contactor** **Door Interlock**

**Servo Y
Connector/Relay**



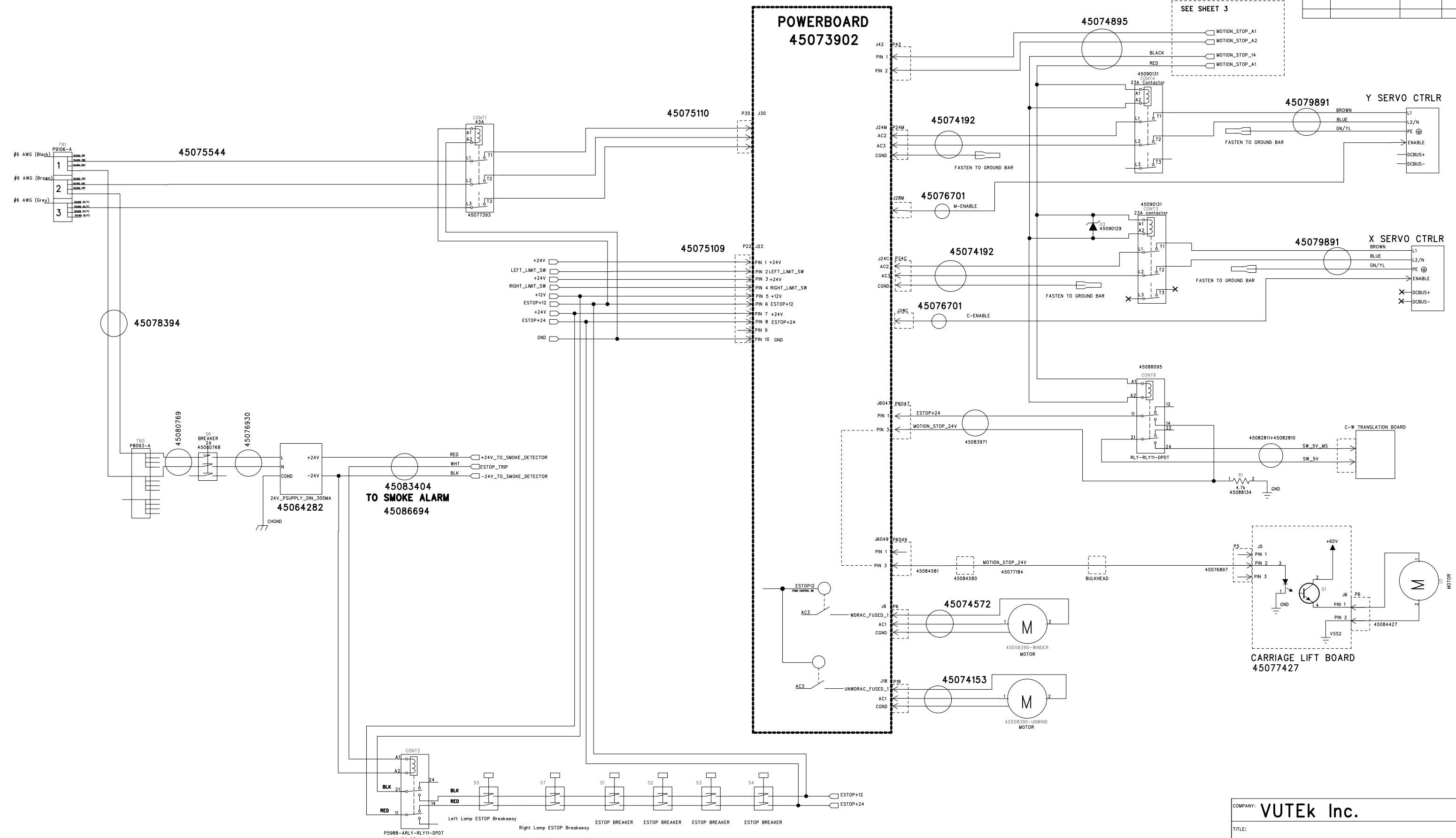
**Main Breaker
E-Stop 12**

**Servo X
Connector/Relay**

**Smoke Detector
Power Supply**

REVISION RECORD			
LTR	ECO NO.	APPROVED:	DATE:

POWERBOARD
45073902



REFERENCE AC WIRING DIAGRAM 45086434

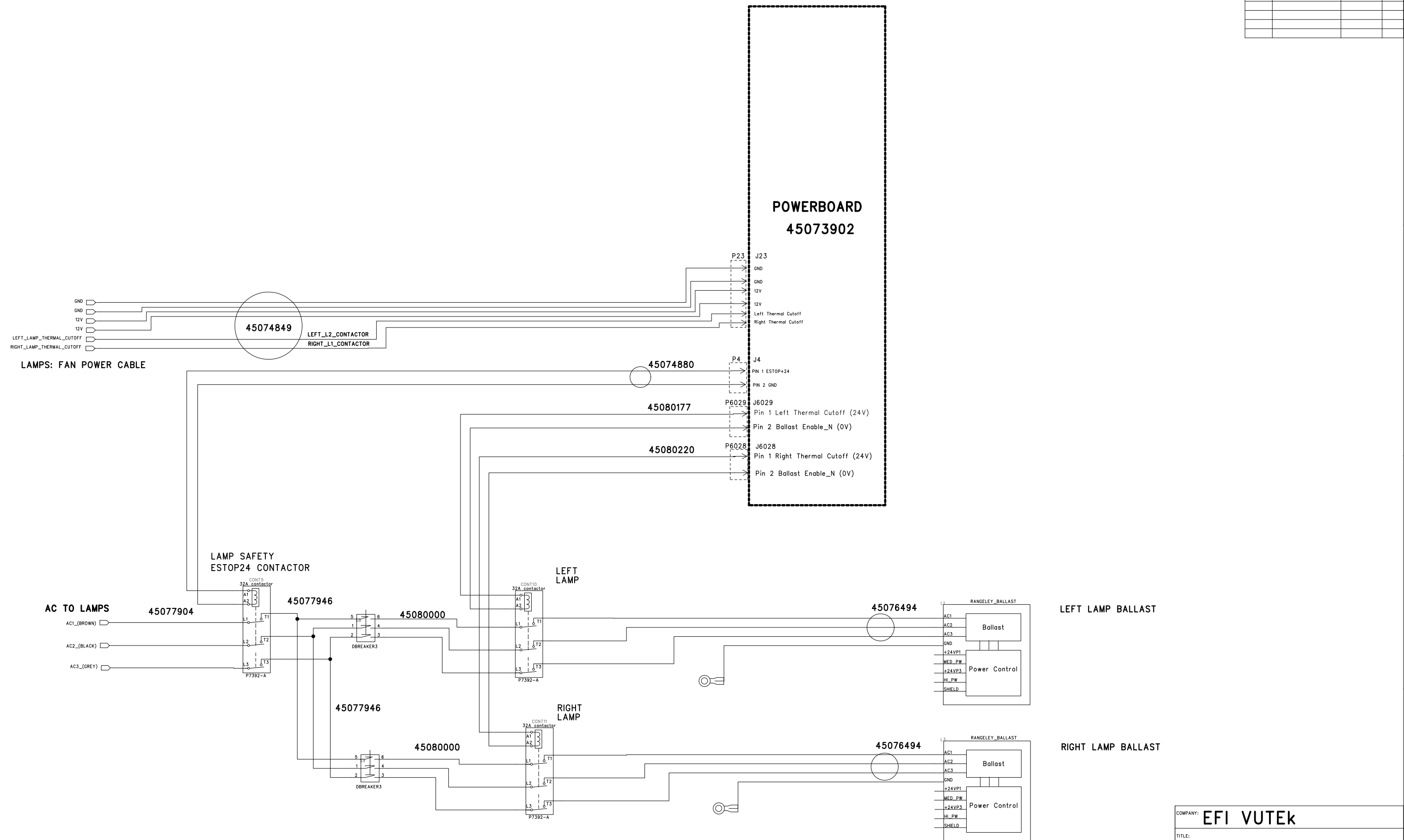
ESTOP LOOP
45075109

COMPANY: **VUTEk Inc.**

TITLE: **Rangeley ESTOP AND MOTION STOP**

DRAWN: J. SCHOFIELD	DATED: 9/29/09	CODE:	SIZE: D	DRAWING NO.: 45079432	REV: A
CHECKED:	DATED:	SCALE:	SHEET: 1 OF 3		

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

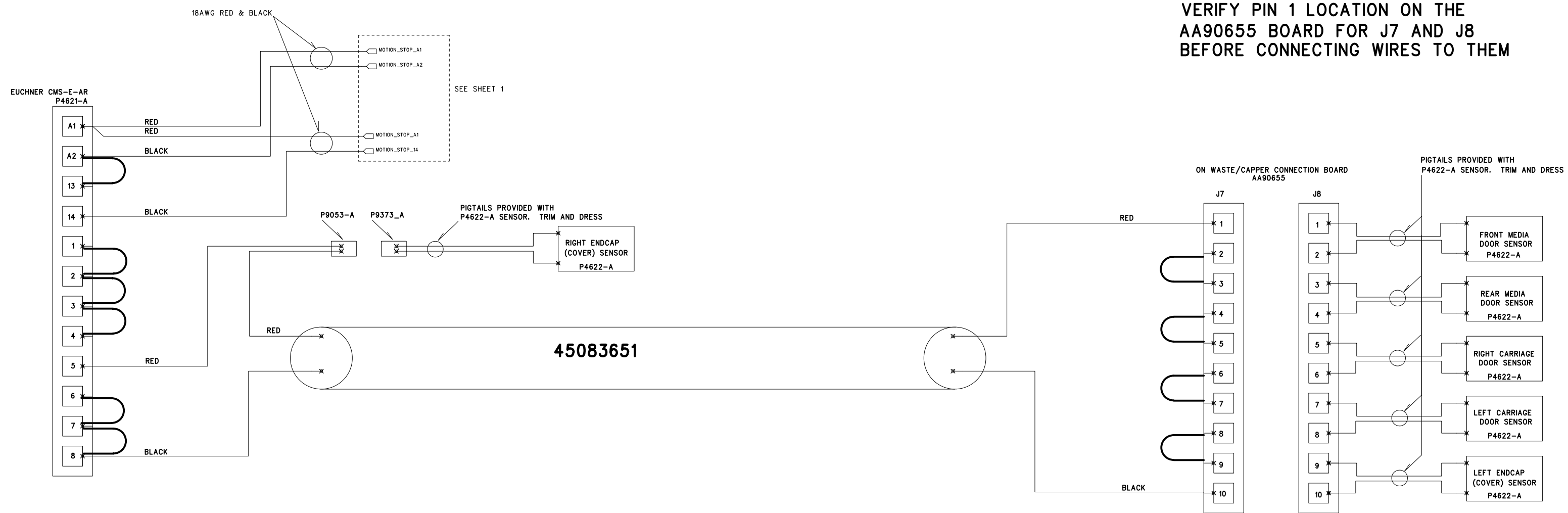


* Use #12 AWG 600V Wire Unless otherwise specified

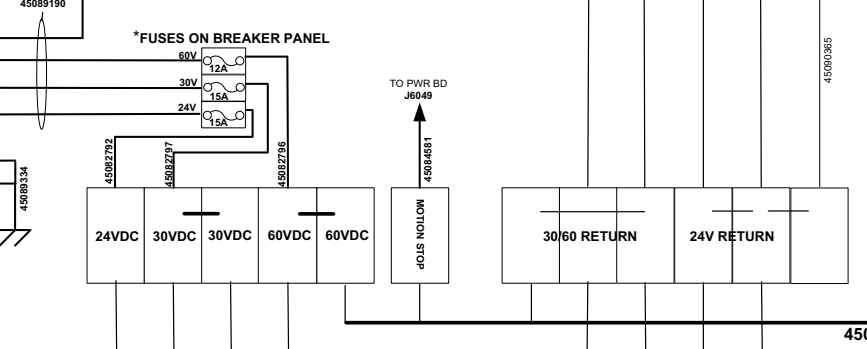
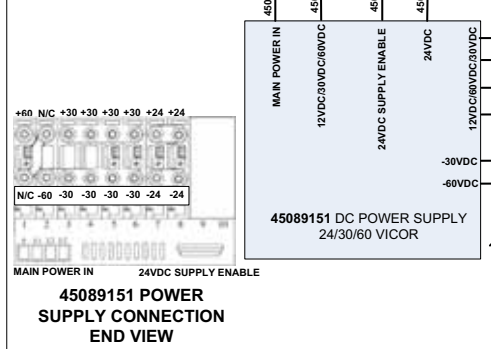
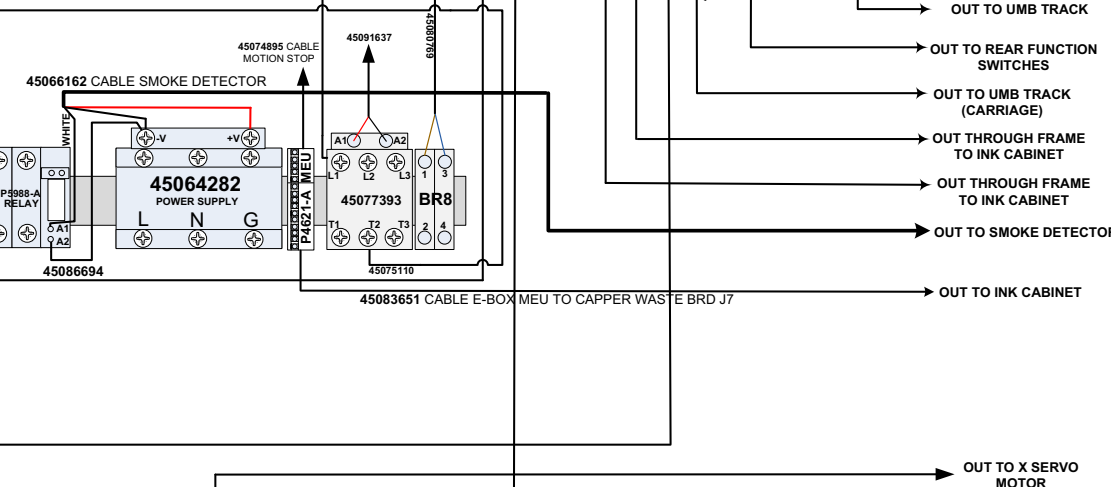
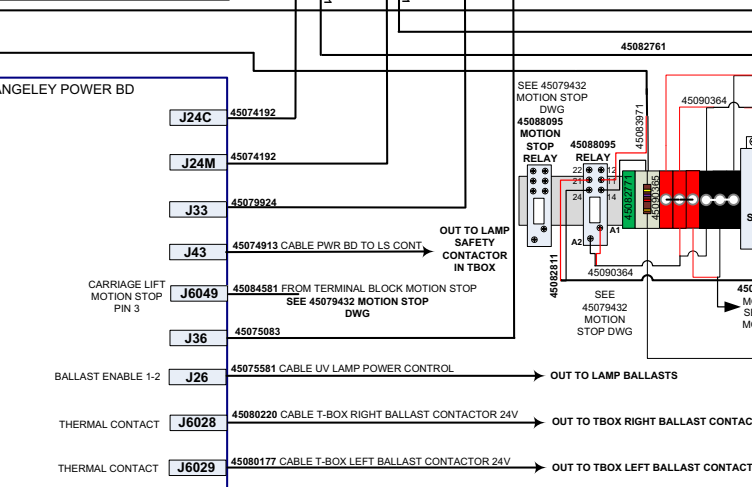
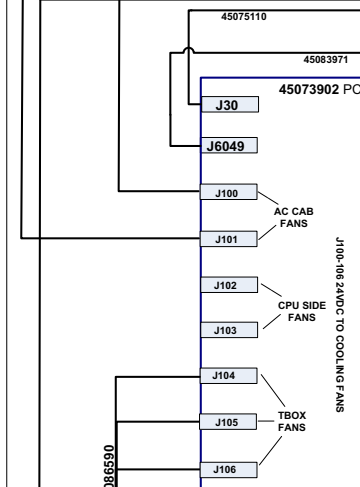
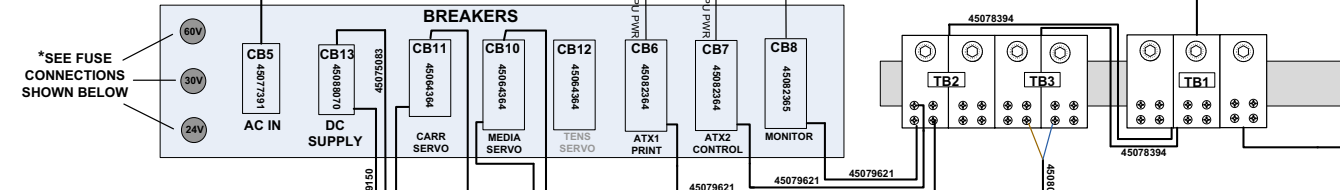
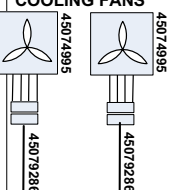
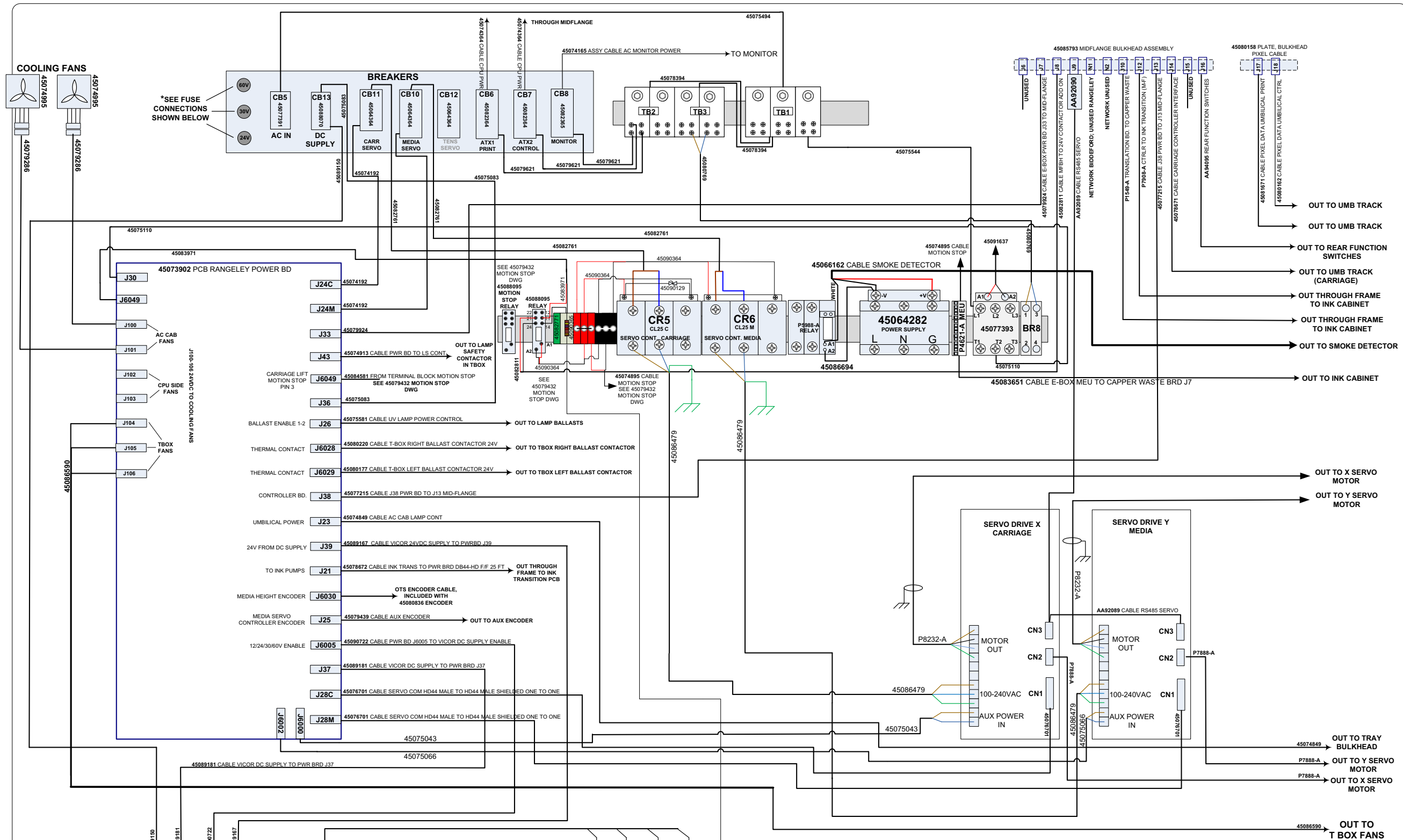
COMPANY: EFI VUTEK			
TITLE: Rangeley ESTOP AND MOTION STOP			
DRAWN: A.Tuttle	DATED: 12-1-08	CODE: D	
CHECKED:	DATED:	DRAWING NO: 45079432	
QUALITY CONTROL:	DATED:	REV: A	
RELEASED:	DATED:	SCALE: 2 OF 3	

REVISION RECORD			
LTR	ECO NO.	APPROVED:	DATE:

**PLEASE NOTE:
 VERIFY PIN 1 LOCATION ON THE
 AA90655 BOARD FOR J7 AND J8
 BEFORE CONNECTING WIRES TO THEM**



COMPANY:		EFI VUTEK	
TITLE:		Rangeley ESTOP AND MOTION STOP	
DRAWN:	A.Tuttle	DATED:	12-1-08
CHECKED:		DATED:	
QUALITY CONTROL:		DATED:	
RELEASED:		DATED:	
CODE:		SIZE:	
DRAWING NO:	45079432		REV:
SCALE:		SHEET: 3 OF 3	

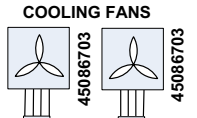
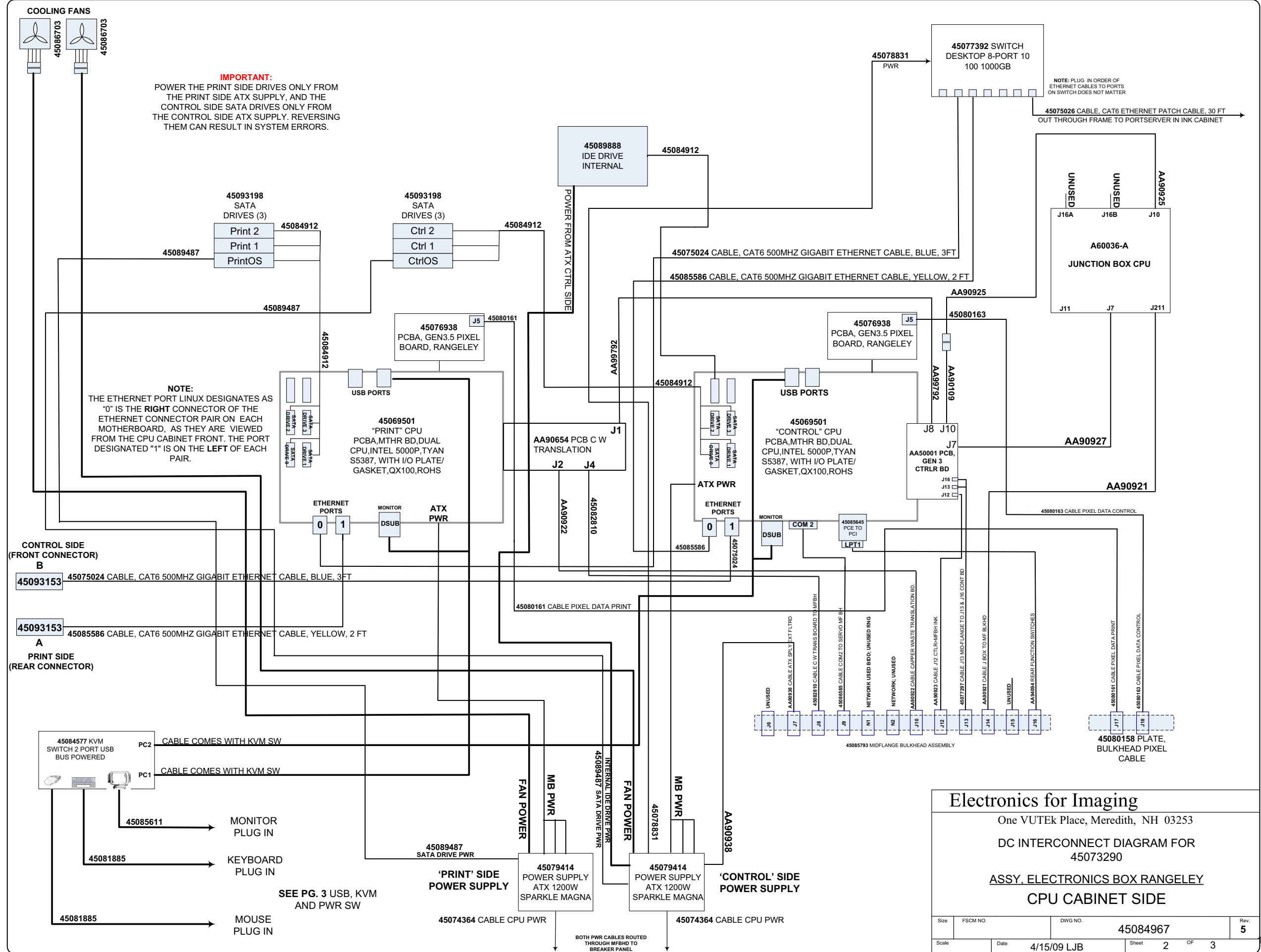


NOTE: THIS DIAGRAM IS INTENDED TO BE USED IN CONJUNCTION WITH 45086434 AC WIRING SCHEMATIC RANGELEY E-BOX & T-BOX AND 45079432 GS ESTOP AND MOTION STOP. THE AC WIRING AND ESTOP/MOTION STOP INTERCONNECT ARE NOT REPRESENTED ON THIS DIAGRAM.

Electronics for Imaging
 One VUTEk Place, Meredith, NH 03253

DC INTERCONNECT DIAGRAM FOR 45073290
 ASSY, ELECTRONICS BOX RANGELEY
 AC CABINET SIDE

Size	FSCM NO.	DWG NO.	45084967	Rev.	5
Scale	N/A	Date	4/15/09 LJB	Sheet	1 OF 3

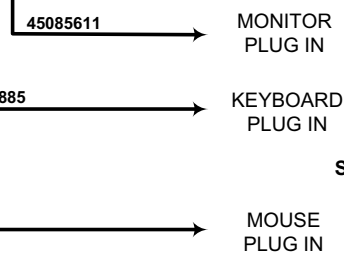


IMPORTANT:
POWER THE PRINT SIDE DRIVES ONLY FROM THE PRINT SIDE ATX SUPPLY, AND THE CONTROL SIDE SATA DRIVES ONLY FROM THE CONTROL SIDE ATX SUPPLY. REVERSING THEM CAN RESULT IN SYSTEM ERRORS.

NOTE:
THE ETHERNET PORT LINUX DESIGNATES AS "0" IS THE RIGHT CONNECTOR OF THE ETHERNET CONNECTOR PAIR ON EACH MOTHERBOARD, AS THEY ARE VIEWED FROM THE CPU CABINET FRONT. THE PORT DESIGNATED "1" IS ON THE LEFT OF EACH PAIR.

CONTROL SIDE (FRONT CONNECTOR) B

PRINT SIDE (REAR CONNECTOR) A

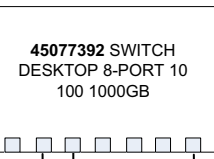


SEE PG. 3 USB, KVM AND PWR SW

'PRINT' SIDE POWER SUPPLY

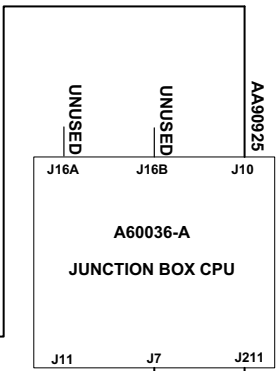
'CONTROL' SIDE POWER SUPPLY

BOTH PWR CABLES ROUTED THROUGH MFBHD TO BREAKER PANEL

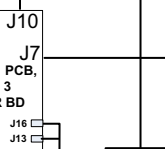


NOTE: PLUG IN ORDER OF ETHERNET CABLES TO PORTS ON SWITCH DOES NOT MATTER

45075026 CABLE, CAT6 ETHERNET PATCH CABLE, 30 FT OUT THROUGH FRAME TO PORTSERVER IN INK CABINET

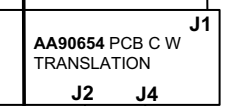


AA90921



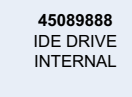
45076938 PCBA, GEN3.5 PIXEL BOARD, RANGELEY

45069501 "CONTROL" CPU PCBA, MTHR BD, DUAL CPU, INTEL 5000P, TYAN S5387, WITH I/O PLATE/ GASKET, QX100, ROHS



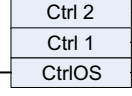
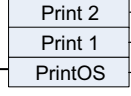
45076938 PCBA, GEN3.5 PIXEL BOARD, RANGELEY

45069501 "PRINT" CPU PCBA, MTHR BD, DUAL CPU, INTEL 5000P, TYAN S5387, WITH I/O PLATE/ GASKET, QX100, ROHS



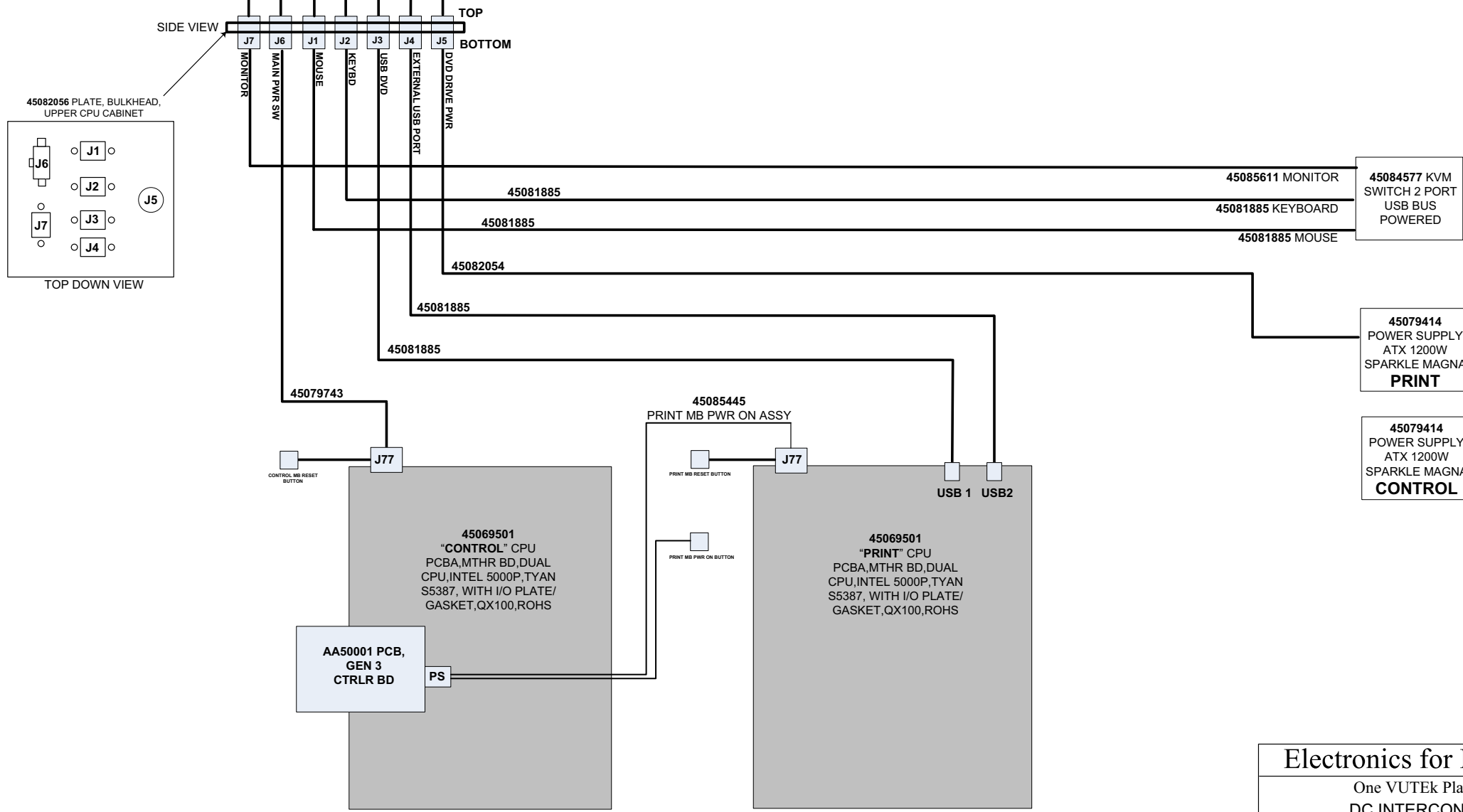
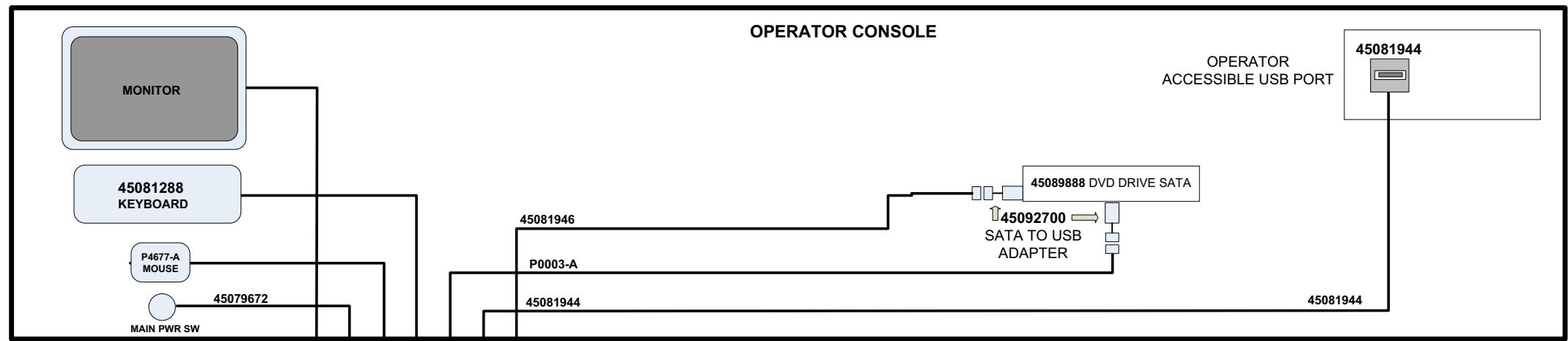
45093198 SATA DRIVES (3)

45093198 SATA DRIVES (3)



Electronics for Imaging
One VUTEk Place, Meredith, NH 03253
DC INTERCONNECT DIAGRAM FOR 45073290
ASSY, ELECTRONICS BOX RANGELEY
CPU CABINET SIDE

Size	FSCM NO.	DWG NO.	45084967	Rev.	5
Scale	Date	4/15/09 LJB	Sheet	2	OF 3



ELECTRONICS CABINET, CPU SIDE AND OPERATOR CONSOLE AREA VIEWED FROM FRONT

Electronics for Imaging

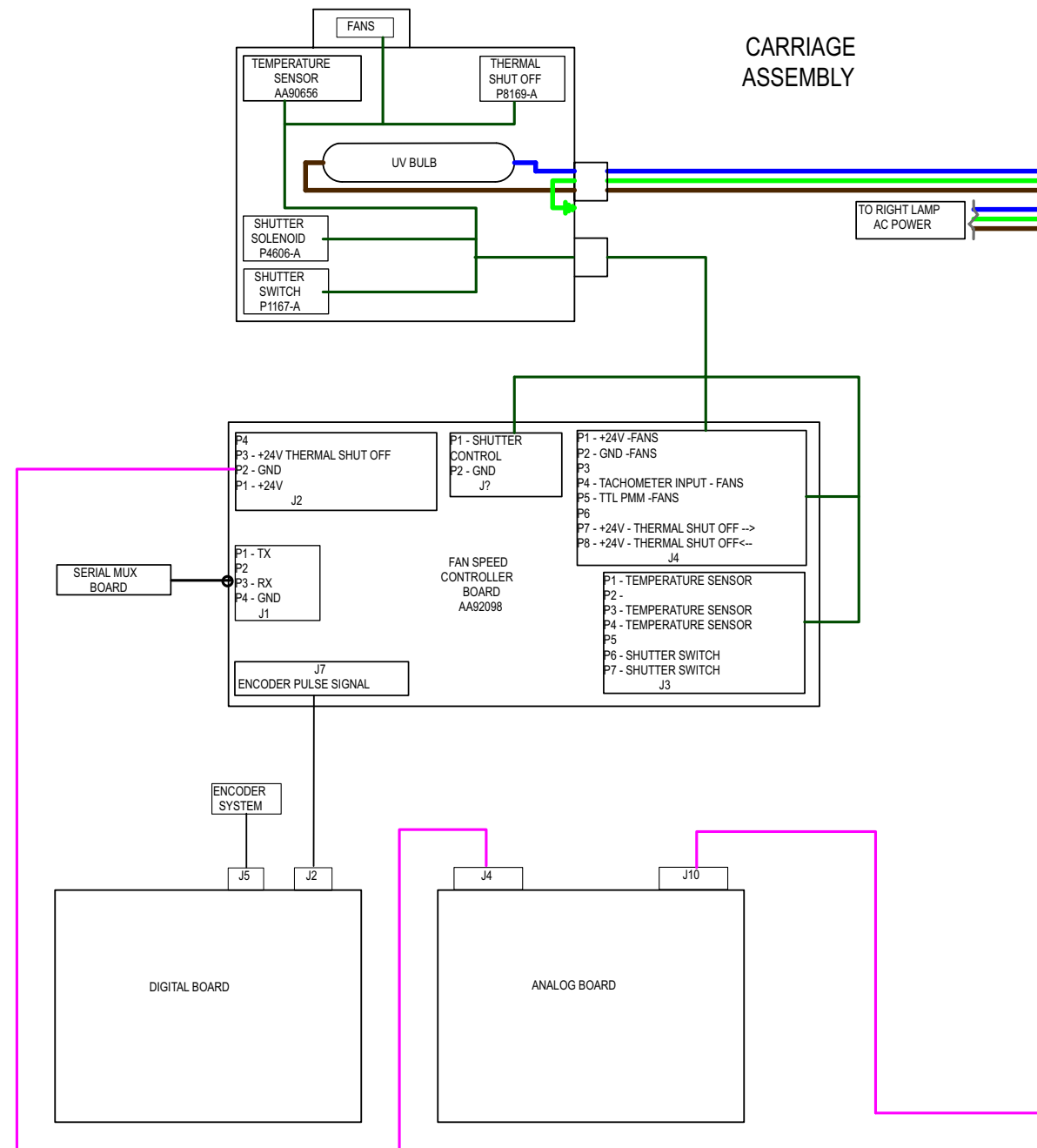
One VUTEk Place, Meredith, NH 03253
 DC INTERCONNECT DIAGRAM FOR
 45073290

ASSY. ELECTRONICS BOX RANGELEY

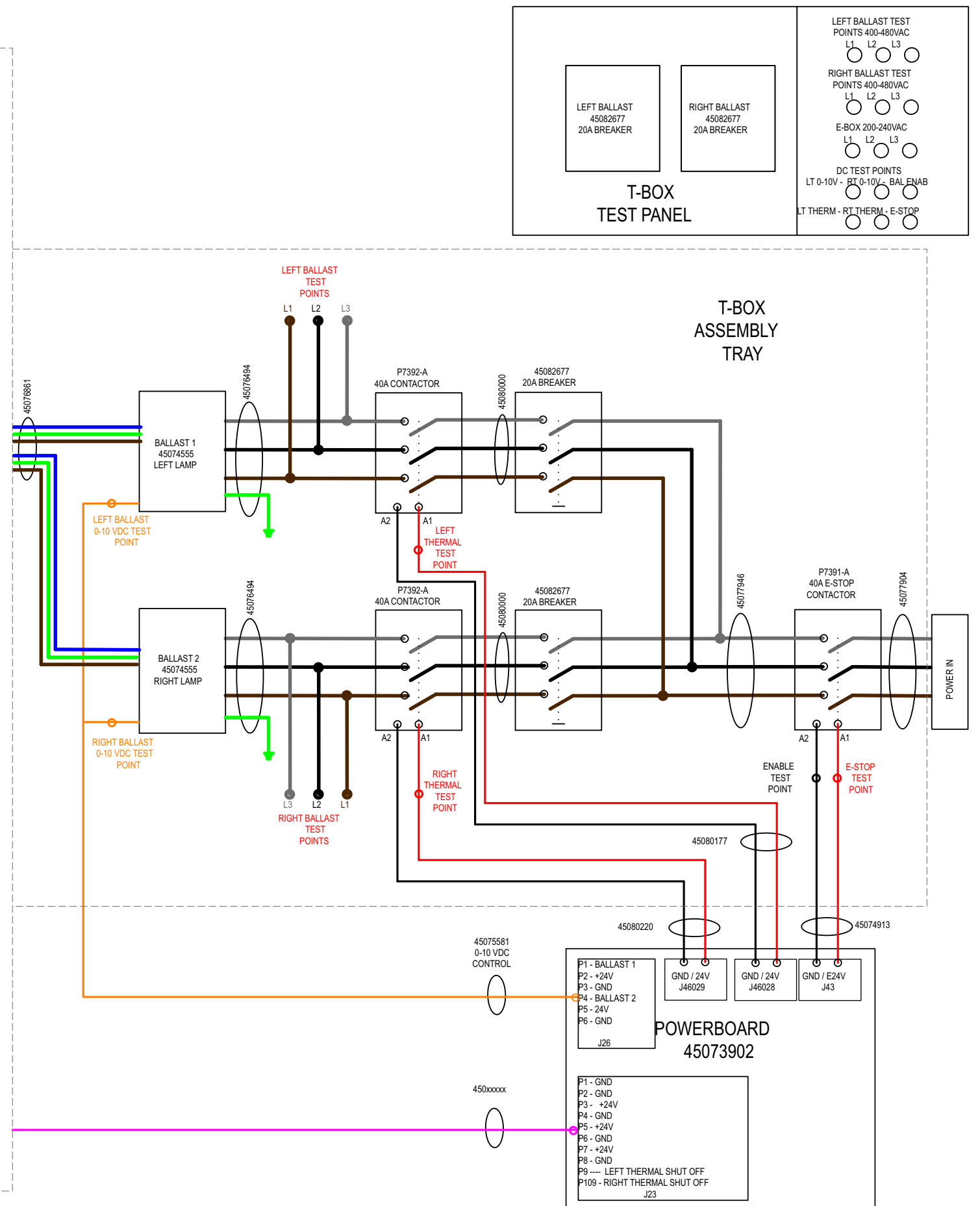
USB, KVM AND PWR SW INTERCONNECT

Size	FSCM NO.	DWG NO.	Rev.
		45084967	5
Scale	Date	Sheet	OF
	4/15/09 LJB	3	3

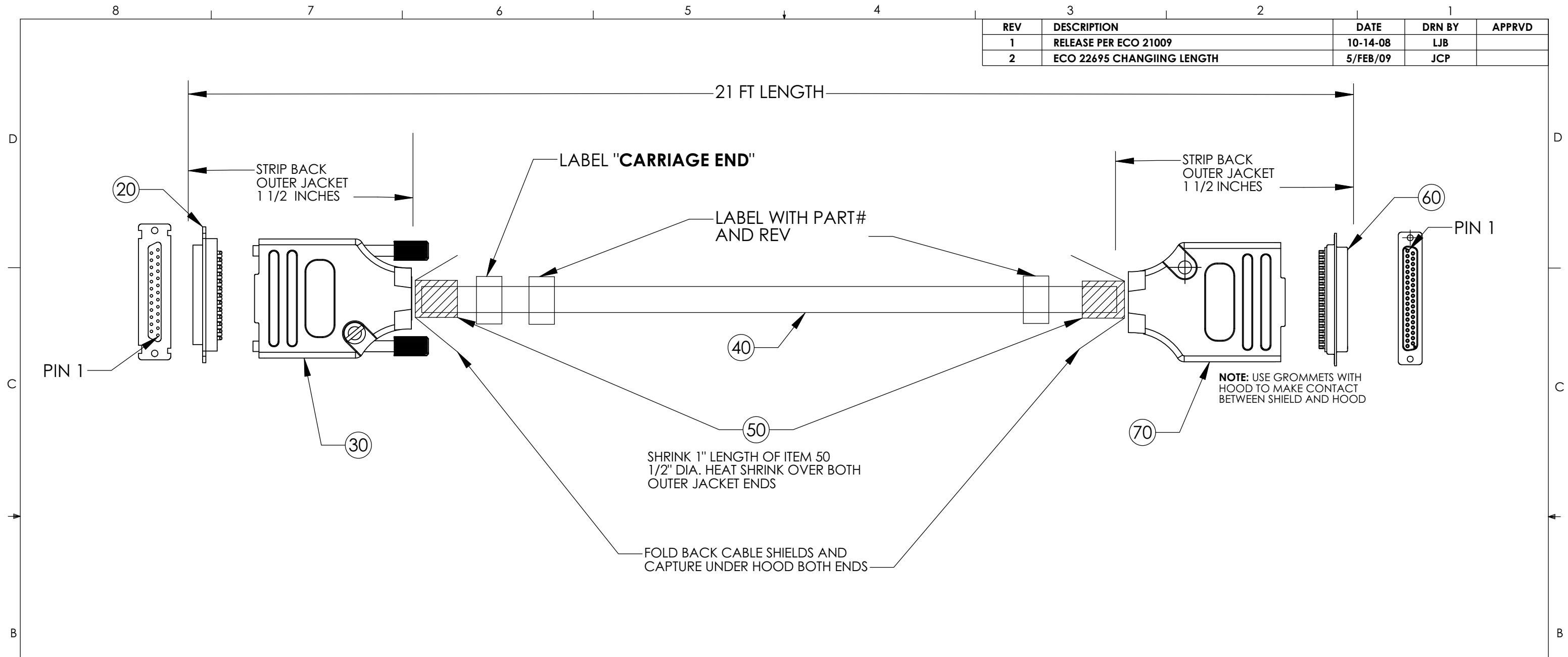
GS SERIES LAMP SYSTEM DIAGRAM



UMBILICAL
BULKHEAD



REV	DESCRIPTION	DATE	DRN BY	APPRVD
1	RELEASE PER ECO 21009	10-14-08	LJB	
2	ECO 22695 CHANGIING LENGTH	5/FEB/09	JCP	



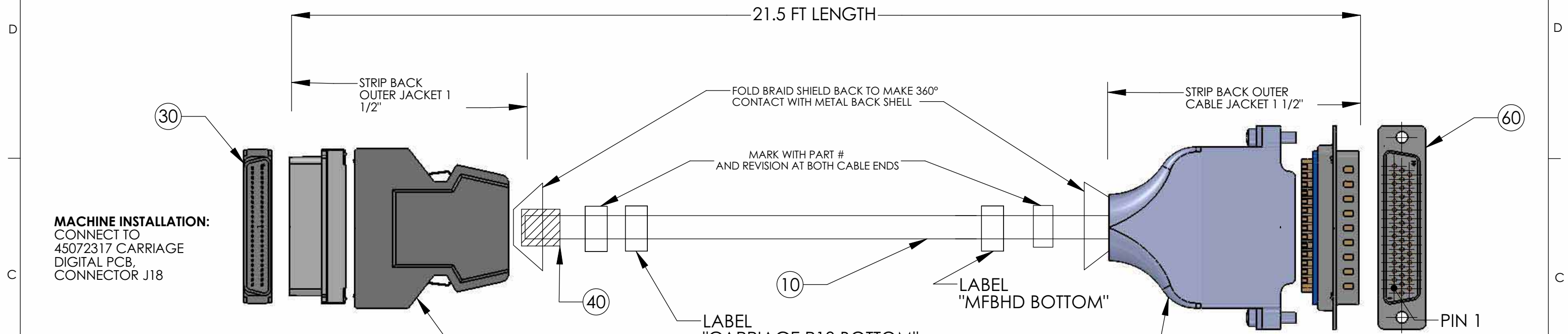
SIGNAL NAME	P7714-A PIN#	P7494-A PIN #	COND. COLOR	PAIR
ENCODECHA "+"	1	33	BLACK	1
ENCODECHA "-"	14	34	RED	1
ENCODECHB "+"	2	35	BLACK	2
ENCODECHB "-"	15	36	WHITE	2
EDGEDET "+"	3	31	BLACK	3
EDGEDET "-"	16	32	GREEN	3
WRDATA "+"	4	27	BLACK	4
WRDATA "-"	17	28	BLUE	4
RDDATA "+"	5	29	BLACK	5
RDDATA "-"	18	30	BROWN	5
LDINTOSR "+"	6	25	BLACK	6
LDINTOSR "-"	19	26	YELLOW	6
LDFROMSR "+"	7	23	BLACK	7
LDFROMSR "-"	20	24	ORANGE	7
SRCLKFRMCTL "+"	9	21	RED	8
SRCLKFRMCTL "-"	22	22	WHITE	8
JETOE "+"	10	1	RED	9
JETOE "-"	23	2	BLUE	9
GND	13	37	BROWN	N/A
SPAREOUT2 "+"	N/C	N/C		
SPAREOUT2 "-"	N/C	N/C		
SPAREIN2 "+"	N/C	N/C		
SPAREIN2 "-"	N/C	N/C		

NOTES:

1. FOLD BACK AND CAPTURE CABLE SHIELD (FULL 360° CONTACT) UNDER HOOD, BOTH ENDS. TRIM OFF EXCESS SHIELD LENGTH. ENSURE THAT SHIELD DOES NOT CONTACT CONDUCTORS. USE A DMM TO CHECK THAT THERE IS CONTINUITY BETWEEN HOODS AFTER ASSEMBLY.
2. TRIM OFF CABLE FILLER.
3. TRIM OFF UNUSED CONDUCTORS.
4. CONNECTOR VIEW IS FROM FRONT OF CONNECTOR

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FOR CABLES WITH OVERALL LENGTH < 5 FT: +2.00 - 0 FOR CABLES WITH OVERALL LENGTH ≥ 5 FT: +3.00 - 0	CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING	VUTEK INC. ONE VUTEK PLACE MEREDITH, N.H. 03253 VUTEK STANDARD CABLE DRAWING	
	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK, INC. IS PROHIBITED.		
	DRAWN: LJB DATE: 08-18-08 DESIGNED: X DATE: X CAD FILE: 45078671 CABLE CARRIAGE CONTROLLER INTERFACE	SIZE: B DWG. NO.: 45078671 REV: 2	SHEET 1 OF 1

REV	DESCRIPTION	DATE	DRN BY	APPRVD
1	RELEASE PER ECO 21638	10-10-08	LJB	
2	ECO 22165 CHANGE ONE CONNECTOR	12-2-08	Jcp	



MACHINE INSTALLATION:
CONNECT TO
45072317 CARRIAGE
DIGITAL PCB,
CONNECTOR J18

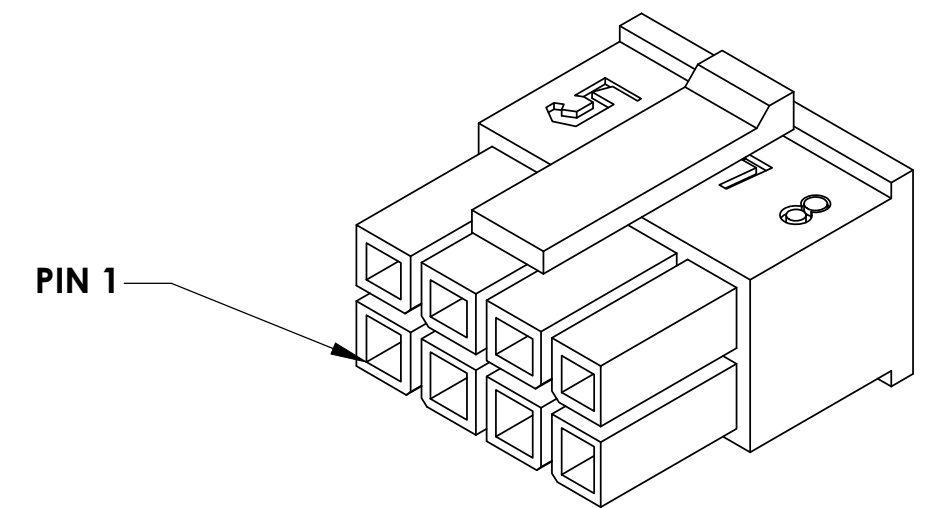
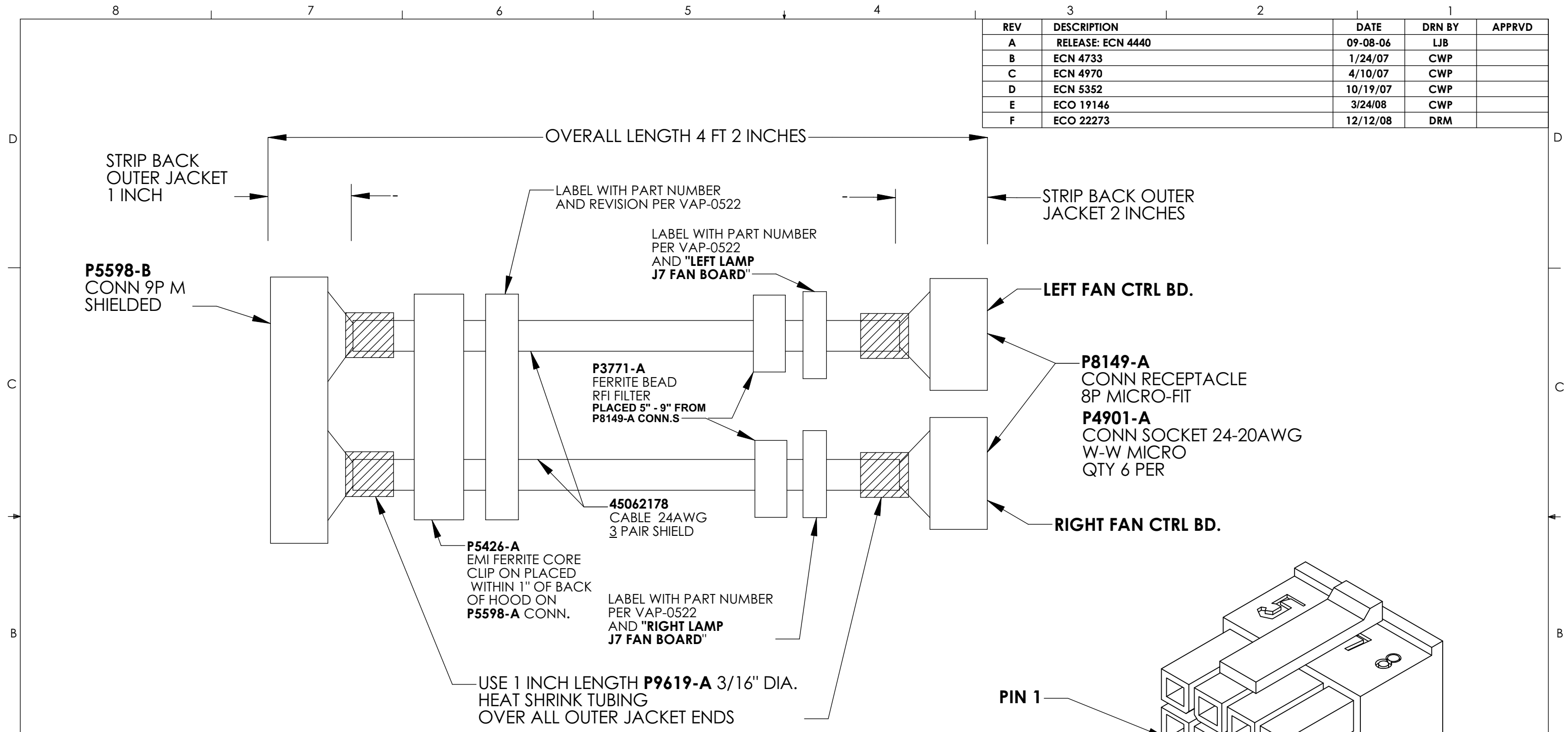
MACHINE INSTALLATION:
CONNECTOR IS MOUNTED TO
BOTTOM P5801-A IN MID-FLANGE
BULKHEAD, ELECTRONICS CABINET

SIGNAL	ITEM 30	ITEM 60	COND. COLOR	PAIR
PIX_D0_A+/B+	1	1	WHITE	1
SGND	2	2	RED/BLK	15
PIX_D1_A+/B+	3	3	RED	2
SGND	4	N/C		
PIX_D2_A+/B+	5	4	YELLOW	3
SGND	6	N/C		
PIX_D3_A+/B+	7	5	BROWN	4
SGND	8	N/C		
PIX_D4_A+/B+	9	6	GRAY	5
SGND	10	N/C		
PIX_D5_A+/B+	11	7	WHT/BLK	6
SGND	12	N/C		
PIX_D6_A+/B+	13	8	WHT/GRN	7
SGND	14	N/C		
PIX_D7_A+/B+	15	9	WHT/BLU	8
SGND	16	10	RED/GREEN	15
PIX_DCLK_A+/B+	17	11	WHT/ORG	9
SGND	18	N/C		
DATA_SP_IN1_A+/B+	19	12	WHT/VIOLET	10
SGND	20	N/C		
DATA_SP_IN2_A+/B+	21	13	BLK/RED	11
SGND	22	N/C		
DATA_RQST_A+/B+	23	14	BLK/YELLOW	12
SPARE_OUT1_A+/B+	24	15	BLK/BROWN	13
SPARE_OUT2_A+/B+	25	16	BLK/VIOLET	14
PIX_D0_A-/B-	26	17	BLACK	1
SGND	27	N/C		
PIX_D1_A/B	28	18	GREEN	2
SGND	29	N/C		
PIX_D2_A-/B-	30	19	BLUE	3
SGND	31	N/C		
PIX_D3_A-/B-	32	20	ORANGE	4
SGND	33	N/C		
PIX_D4_A-/B-	34	21	VIOLET	5
SGND	35	22	RED/YELLOW	16
PIX_D5_A-/B-	36	23	WHT/RED	6
SGND	37	N/C		
PIX_D6_A-/B-	38	24	WHT/YELLOW	7
SGND	39	N/C		
PIX_D7_A-/B-	40	25	WHT/BROWN	8
SGND	41	N/C		
PIX_DCLK_A-/B-	42	26	WHT/GRAY	9
SGND	43	N/C		
DATA_SP_IN1_A-/B-	44	27	BLK/WHT	10
SGND	45	N/C		
DATA_SP_IN2_A-/B-	46	28	BLK/GRN	11
SGND	47	29	RED/BLUE	16
DATA_RQST_A-/B-	48	30	BLK/BLUE	12
SPARE_OUT1_A-/B-	49	31	BLK/ORANGE	13
SPARE_OUT2_A-/B-	50	32	RED/WHITE	14

NOTE:
1. APPLY 1 INCH LENGTH OF HEAT SHRINK TUBING OVER
OUTER JACKET END.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:	CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING	VUTEK INC. ONE VUTEK PLACE MEREDITH, N.H. 03253 VUTEK STANDARD CABLE DRAWING	
	FOR CABLES WITH OVERALL LENGTH < 5 FT: + 2.00 - 0		
FOR CABLES WITH OVERALL LENGTH ≥ 5 FT: + 3.00 - 0	TITLE CABLE PIXEL DATA UMBILICAL CONTROL	SIZE DWG. NO. B 45080162	REV. 2
PROJECT: RANGELEY		SHEET 1 OF 1	

REV	DESCRIPTION	DATE	DRN BY	APPRVD
A	RELEASE: ECN 4440	09-08-06	LJB	
B	ECN 4733	1/24/07	CWP	
C	ECN 4970	4/10/07	CWP	
D	ECN 5352	10/19/07	CWP	
E	ECO 19146	3/24/08	CWP	
F	ECO 22273	12/12/08	DRM	



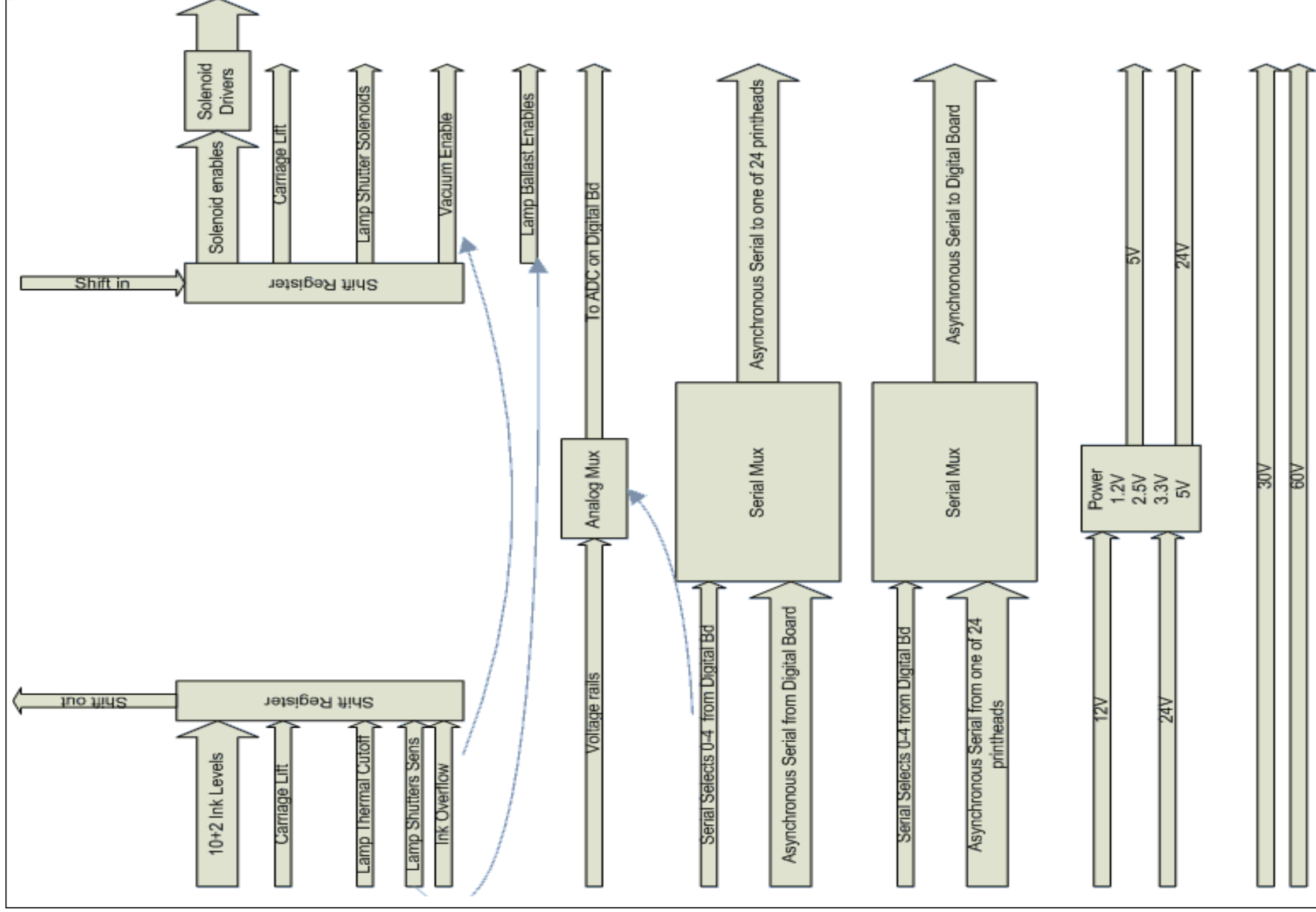
P8149-A PINOUT

P5598-B CONN PIN#	RT FAN P8149- A CONN PIN#	LFT FAN P8149- A CONN PIN#	COND. COLOR	PAIR
1	3	N/C	BLU/WHT	1
6	7	N/C	WHT/BLU	
2	4	N/C	GRN/WHT	2
7	8	N/C	WHT/GRN	
8	N/C	3	BLU/WHT	3
4	N/C	7	WHT/BLU	
9	N/C	4	GRN/WHT	4
5	N/C	8	WHT/GRN	
3	6	6	ORG/WHT	
CONN HOOD	1	1	SHIELD	

- NOTES:
1. TRIM CONDUCTORS BACK TO OUTER JACKET END:
 2. ENSURE THAT THE CABLE PAIRS ARE KEPT INTACT.
 3. P3771-A FERRITES SHOULD RESIDE JUST OUTSIDE EACH FAN BOARD COVER WHEN INSTALLED IN PRINTER.
 4. COVER EXPOSED SHIELD AT THE P8149-A END WITH 2" LENGTH OF P7162-A TUBING 1/8OD SPAGHETTI.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FOR CABLES WITH OVERALL LENGTH < 5 FT: +2.00 - 0 FOR CABLES WITH OVERALL LENGTH ≥ 5 FT: +3.00 - 0	CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING	VUTEK INC. ONE VUTEK PLACE MEREDITH, N.H. 03253 VUTEK STANDARD CABLE DRAWING	
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DRAWN LJB	DATE 12-22-05	SIZE B	DWG. NO. VAP-0894
DESIGNED X	DATE X	REV. F	
CAD FILE: AA94069_ASSY CABLE LIN ENC DIST	PROJECT: CABLES BERWICK	SHEET 1	OF 1

ANALOG PCB



J2	FPGA and Platform Flash JTAG (standard Xilinx JTAG 14pin 2mm header)
J2-1	Common DC Return
J2-2	JTAG I/O Power (+3.3V)
J2-3	Common DC Return
J2-4	TMS – JTAG Test Mode Select
J2-5	Common DC Return
J2-6	TCK – JTAG Test Clock
J2-7	Common DC Return
J2-8	TDO – JTAG Test Data Out
J2-9	Common DC Return
J2-10	TDI – JTAG Test Data In
J2-11	Common DC Return
J2-12	NC
J2-13	Common DC Return
J2-14	NC

J3	Left Lamp control and Power (DSUB15 socket)
J3-1	Left Shutter Sensor – Shutter position
J3-2	NC
J3-3	Left Thermal Cutoff – indicates an over-temperature condition in the lamp
J3-4	NC
J3-5	+24VDC – fused 0.5A
J3-6	+24VDC – unfused
J3-7	+24VDC – unfused
J3-8	+24VDC – unfused
J3-9	Common DC Return
J3-10	NC
J3-11	NC
J3-12	Left Shutter Solenoid – Shutter Actuator Solenoid
J3-13	Common DC Return
J3-14	Common DC Return
J3-15	Common DC Return

J4	Right Lamp control and Power (DSUB15 socket)
J4-1	Right Shutter Sensor – Shutter position
J4-2	NC
J4-3	Right Thermal Cutoff – indicates an over-temperature condition in the lamp
J4-4	NC
J4-5	+24VDC – fused 0.5A
J4-6	+24VDC – unfused
J4-7	+24VDC – unfused
J4-8	+24VDC – unfused
J4-9	Common DC Return
J4-10	NC
J4-11	NC
J4-12	Right Shutter Solenoid – Shutter Actuator Solenoid
J4-13	Common DC Return
J4-14	Common DC Return
J4-15	Common DC Return

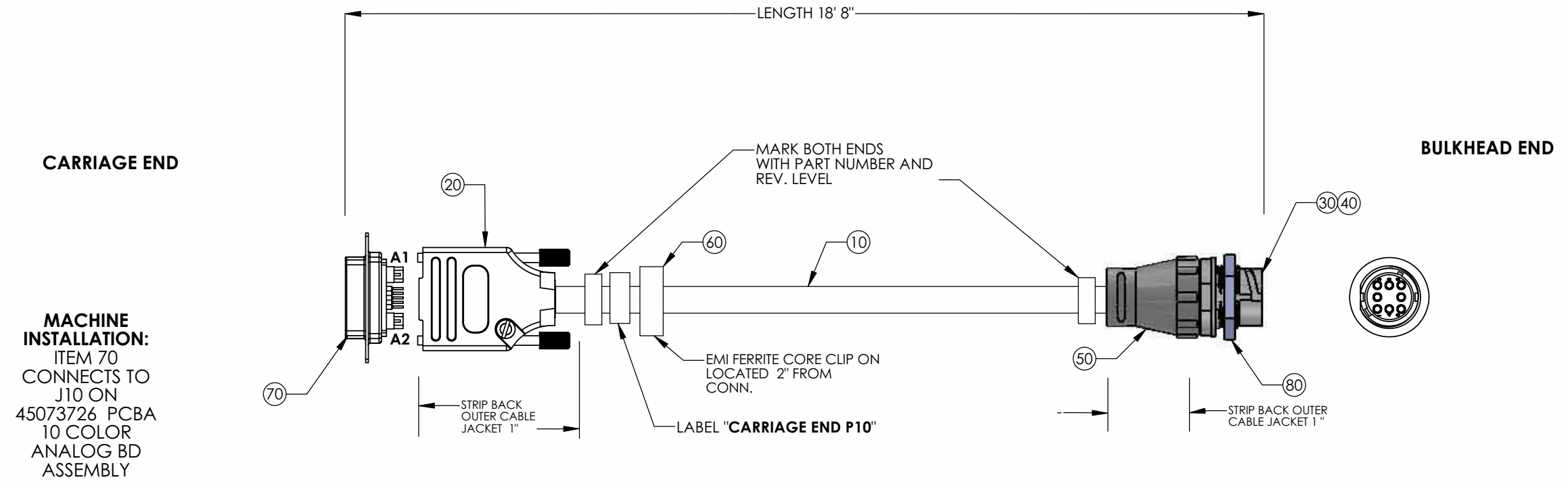
J7	Carriage Power In (Combination DSUB 8pin)
J7-1	+24V power in
J7-2	Common DC return
J7-3	Common DC return
J7-4	Isolated VSS
J7-5	+30V power in
J7-6	+30V power in
J7-7	Isolated VSS
J7-8	+60V power in

J8	Analog Interface / (SMT header 0.1")
J8-1	Analog Input1 (not implemented)
J8-2	Common DC return
J8-3	Common DC return
J8-4	Common DC return
J8-5	Analog Input2 (not implemented)
J8-6	Analog Input3 (not implemented)

J10	12V Power in and Ballast enable (Combination DSUB)
J10-A1	+12V power in
J10-A2	Common DC Return
J10-1	Left Lamp Ballast Enable out (to ballast)
J10-2	NC
J10-3	Right Lamp Ballast Enable out (to ballast)
J10-4	NC
J10-5	NC
J10-8	NC
J10-9	CHGND

J5	Carriage Lift Interface (DSUB25 socket)
J5-1	Carriage Lift – carriage lift solenoid out (24V)
J5-2	+24VDC – fused 0.5A common with pins 2,3 and 15
J5-3	+24VDC – fused 0.5A common with pins 2,3 and 15
J5-4	Common DC return
J5-5	Common DC return
J5-6	+12VDC – fused 0.5A
J5-7	CARRIAGE LIFT1 – carriage lift input to analog bd (TTL 3.3V or5V)
J5-8	CARRIAGE LIFT3 – carriage lift input to analog bd (TTL 3.3V or5V)
J5-9	CARRIAGE LIFT5 – carriage lift output to carriage lift (LVC MOS3.3)
J5-10	CARRIAGE LIFT7 – carriage lift output to carriage lift (LVC MOS3.3)
J5-11	RS485TX- – RS485 to carriage lift
J5-12	RS485RX- – RS485 from carriage lift
J5-13	Analog input – not implemented
J5-14	Carriage Lock – carriage lock solenoid out (24V)
J5-15	+24VDC – fused 0.5A common with pins 2,3 and 15
J5-16	Carriage Height
J5-17	Common DC return
J5-18	EDGEOUT – edge detector input
J5-19	CARRIAGE LIFT0 – carriage lift input to analog bd (TTL 3.3V or5V)
J5-20	CARRIAGE LIFT2 – carriage lift input to analog bd (TTL 3.3V or5V)
J5-21	CARRIAGE LIFT4 – carriage lift output to carriage lift (LVC MOS3.3)
J5-22	CARRIAGE LIFT6 – carriage lift output to carriage lift (LVC MOS3.3)
J5-23	RS485TX+ – RS485 to carriage lift
J5-24	RS485RX+ – RS485 from carriage lift
J5-25	Common DC return

REV	DESCRIPTION	DATE	DRN BY	APPRVD
A	RELEASE PER ECO 21009	08-27-08	LJB	
B	ECO 21009 - CHG CONN DUE TO FIELD SERVICE ISSUE; REVISE DWG TO NEW CONVENTION	10-13-08	LJB	
C	ECO 23277	04-06-09	DRM	
D	ECO 23660	05-18-09	DRM	
E	ECO 23905	06-12-09	DRM	



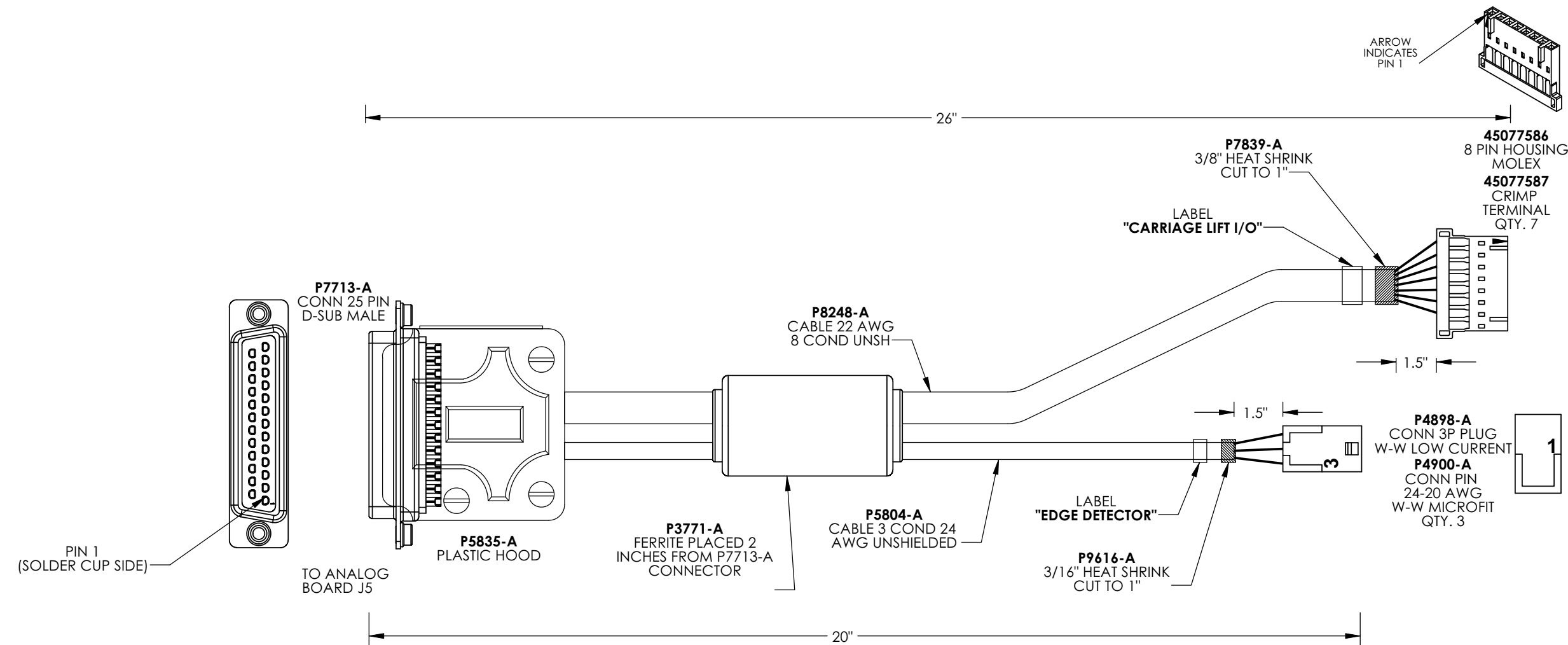
MACHINE INSTALLATION:
ITEM 70
CONNECTS TO
J10 ON
45073726 PCBA
10 COLOR
ANALOG BD
ASSEMBLY

SIGNAL NAME	CONDUCTOR #	ITEM 70 CONN PIN#	ITEM 30 CONN PIN #
12V	1	A1	1
12V	2	A1	2
12V	3	A1	3
GND	4	A2	4
GND	5	A2	5
GND	6	A2	6
RIGHT LAMP	7	1	7
LEFT LAMP	GREEN/YELLOW	3	8

- NOTES:**
1. CONDUCTORS ARE MARKED WITH INDIVIDUAL NUMBERS RATHER THAN COLOR CODED.
 2. OVERALL LENGTH TOLERANCE FOR THIS CABLE ASSEMBLY IS AS FOLLOWS, IN INCHES: +1, -0

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING		VUTEK, INC. ONE VUTEK PLACE MEREDITH, N.H. 03253 VUTEK STANDARD CABLE DRAWING	
FOR CABLES WITH OVERALL LENGTH < 5 FT: +1.00 - 0		PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK, INC. IS PROHIBITED.		TITLE CABLE LAMP CONT CTRL 12V	
FOR CABLES WITH OVERALL LENGTH ≥ 5 FT: +1.00 - 0		DRAWN LJB	DATE 08-27-08	SIZE C	DWG. NO. 45078685
		DESIGNED LJB	DATE X	PROJECT RANGLEY	REV. E
		CAD FILE: 45078685_CABLE LAMP CONT CTRL 12V			SHEET 1 OF 1

REV	DESCRIPTION	DATE	DRN BY	APPRVD
1	PROTOTYPE RELEASE	7/17/08	DRM	
2	CHANGE INCORRECT LABELING	10/1/08	DRM	
3	ECO 23032	03/18/09	DRM	
4	ECO 24617	09/10/09	DRM	



NOTE 1:
LABEL ENDS OF EACH CABLE WITH PART# AND REV.

NOTE 2:
CUT OFF UNUSED VIOLET CONDUCTOR FROM **P8248-A** CABLE.

WIRE LIST					
SIGNAL NAME	P7713-A PIN #	45077586 PIN #	P4898-A PIN #	COLOR	PAIR
24V	2, 3, 15	1	-	BLACK	-
GND	4, 5, 17	2	-	BROWN	-
CL 0	19	5	-	YELLOW	-
CL 1	7	6	-	GREEN	-
CL 2	20	7	-	BLUE	-
CL 4	21	3	-	RED	-
CL 5	9	4	-	ORANGE	-
12V	6	-	2	RED	-
GND	25	-	1	GREEN	-
EDGE OUT	18	-	3	BLACK	-

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:

FOR CABLES WITH OVERALL LENGTH < 5 FT: +2.00 -0

FOR CABLES WITH OVERALL LENGTH ≥ 5 FT: +3.00 -0

CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING

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DRAWN: DRM DATE: 7/17/08
 DESIGNED: DRM DATE: 7/17/08
 CAD FILE: 45077431 CABLE CARRIAGE LIFT IO & EDGE DETECTOR

VUTEK A DIVISION OF *eft*

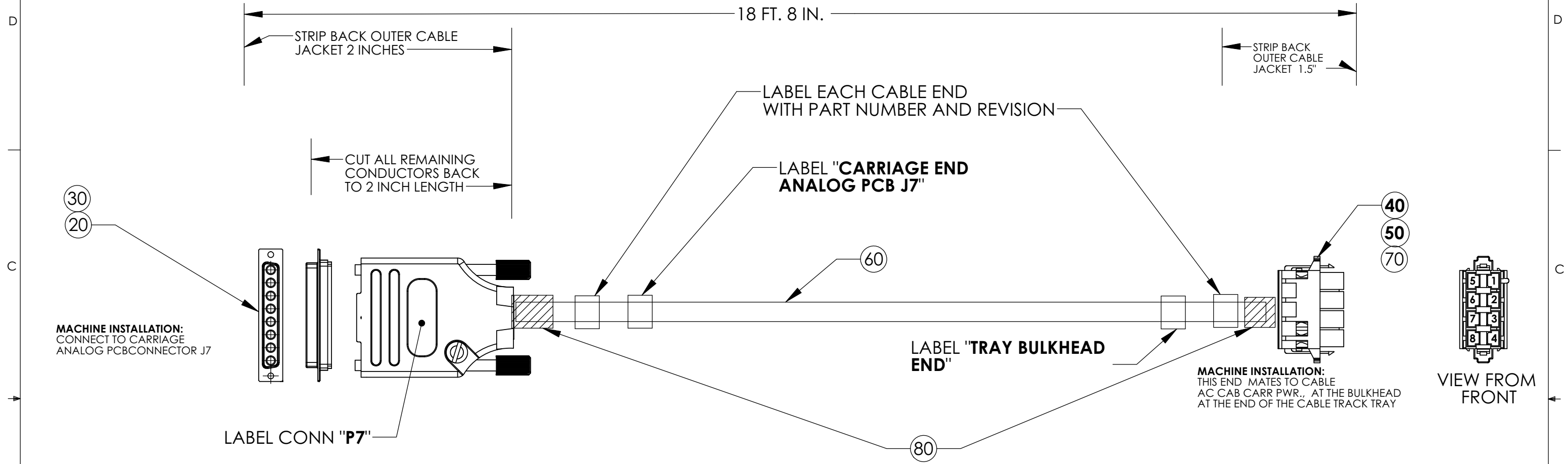
TITLE: **45077431 CABLE CARRIAGE LIFT I/O & EDGE DETECTOR**

REV: **4**

PROJECT: RANGLEY

FORM 423-12C D021306-A

REV	DESCRIPTION	DATE	DRN BY	APPRVD
A	RELEASE PER ECO 20641	07-21-08	LJB	
B	ECO 21130 ADD HEAT SHRINK P/N IN AGILE DWG	08-29-08	LJB	
C	ECO 22695 CHANGING LENGTH AND TOLERANCE	4-FEB-09	JCP	
D	ECO 23277	04-14-09	DRM	
E	ECO 23660	05-19-09	DRM	




MACHINE INSTALLATION:
CONNECT TO CARRIAGE
ANALOG PCB CONNECTOR J7

MACHINE INSTALLATION:
THIS END MATES TO CABLE
AC CAB CARR PWR., AT THE BULKHEAD
AT THE END OF THE CABLE TRACK TRAY

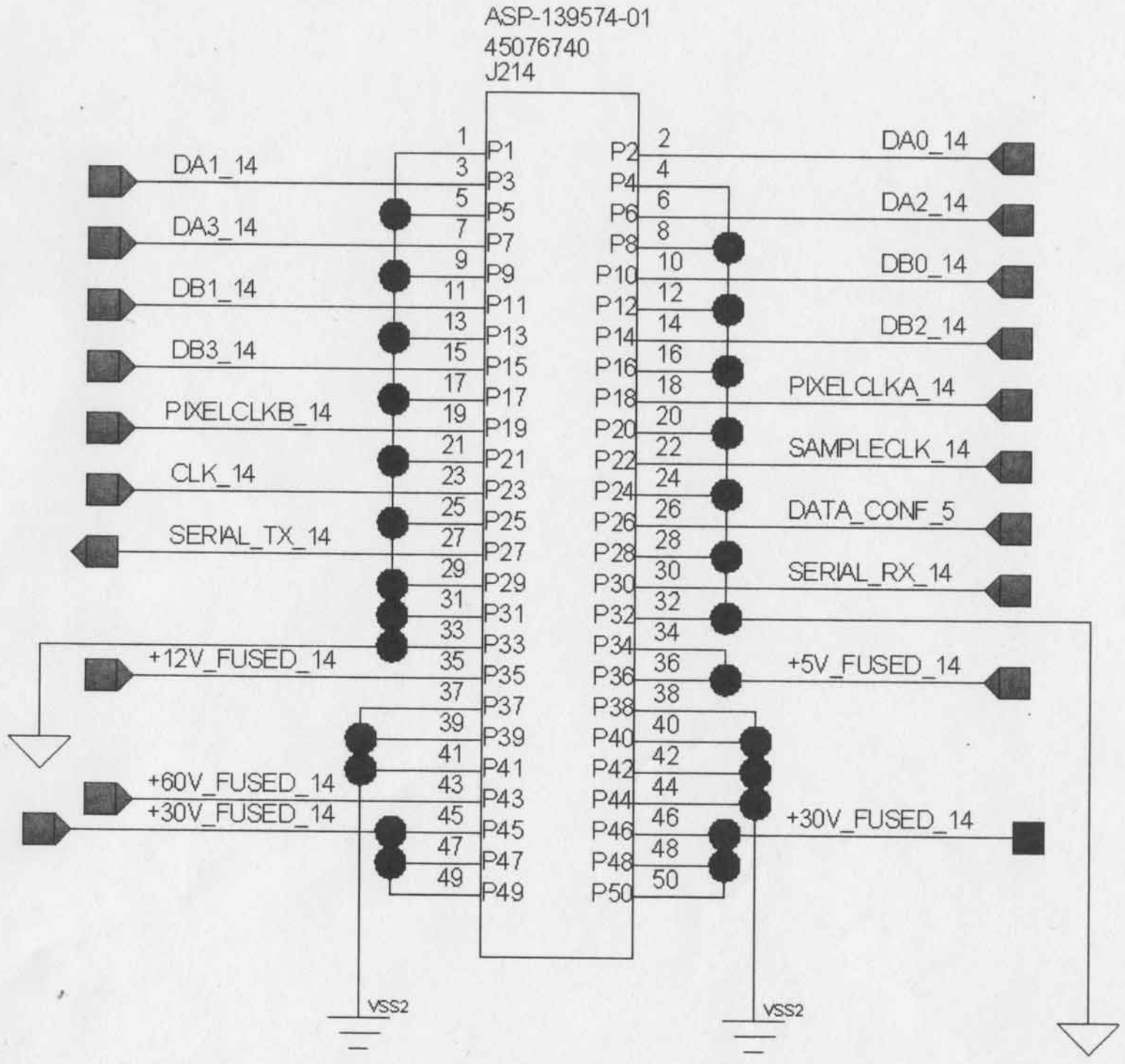
VIEW FROM FRONT

- NOTES:**
- OVERALL LENGTH TOLERANCE FOR THIS CABLE IS AS FOLLOWS IN INCHES: +1.00, -0
 - COVER EACH OUTER END WITH A 1" LENGTH OF ITEM 80

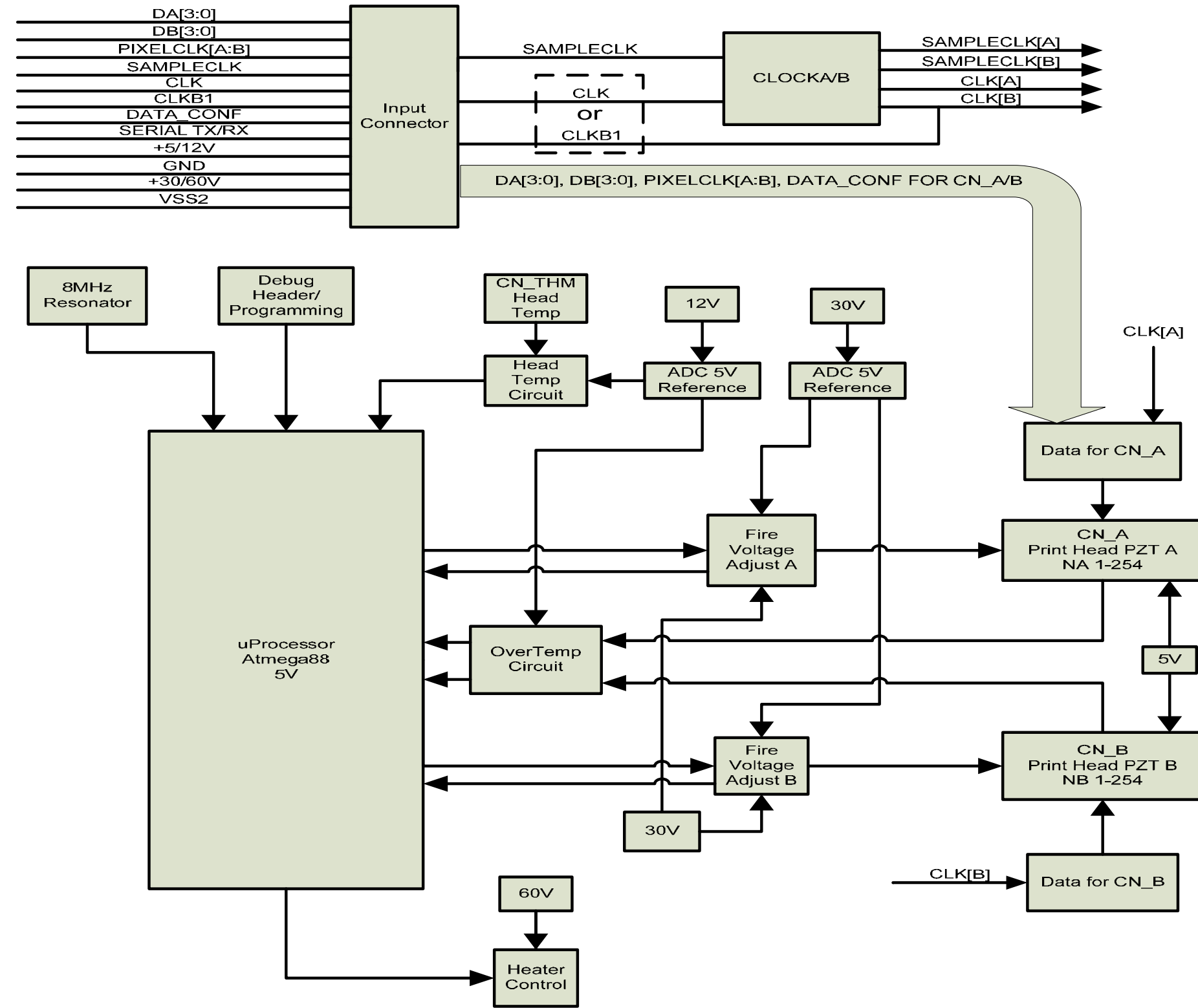
WIRE LIST				
SIGNAL NAME	P7 PIN#	ITEM 40 PIN #	COND #	PAIR
24V	1	1	1	-
24V RETURN	2	2	GREEN/YELLOW	-
HV RET 30/60V	4	4	2	-
30V	5	5	3	-
30V	6	6	4	-
HV RET 30/60V	7	7	5	-
60V	8	8	6	-

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FOR CABLES WITH OVERALL LENGTH < 5 FT: +1.00 - 0 FOR CABLES WITH OVERALL LENGTH > 5 FT: +1.00 - 0	CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING		 <p>ONE VUTEK PLACE MERRIFIELD, NH 03253</p>														
	<p>PROPRIETARY AND CONFIDENTIAL</p> <p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK, INC. IS PROHIBITED.</p>																
<table border="1"> <tr> <td>DRAWN</td> <td>DATE</td> </tr> <tr> <td>LB</td> <td>5/16/08</td> </tr> </table>	DRAWN	DATE	LB	5/16/08	<table border="1"> <tr> <td>DESIGNED</td> <td>DATE</td> </tr> <tr> <td>LB</td> <td>5/16/08</td> </tr> </table>	DESIGNED	DATE	LB	5/16/08	<p>TITLE</p> <p>CABLE CARRIAGE POWER UMBILICAL</p>							
DRAWN	DATE																
LB	5/16/08																
DESIGNED	DATE																
LB	5/16/08																
CAD FILE: 45073723 CABLE CARRIAGE POWER		<table border="1"> <tr> <td>SIZE</td> <td>DWG. NO.</td> <td>REV.</td> </tr> <tr> <td>B</td> <td>45073723</td> <td>E</td> </tr> </table>	SIZE	DWG. NO.	REV.	B	45073723	E	<table border="1"> <tr> <td>SCALE</td> <td>PROJECT</td> <td>SHEET</td> <td>OF</td> </tr> <tr> <td>2:1</td> <td>RANGELEY</td> <td>1</td> <td>1</td> </tr> </table>	SCALE	PROJECT	SHEET	OF	2:1	RANGELEY	1	1
SIZE	DWG. NO.	REV.															
B	45073723	E															
SCALE	PROJECT	SHEET	OF														
2:1	RANGELEY	1	1														

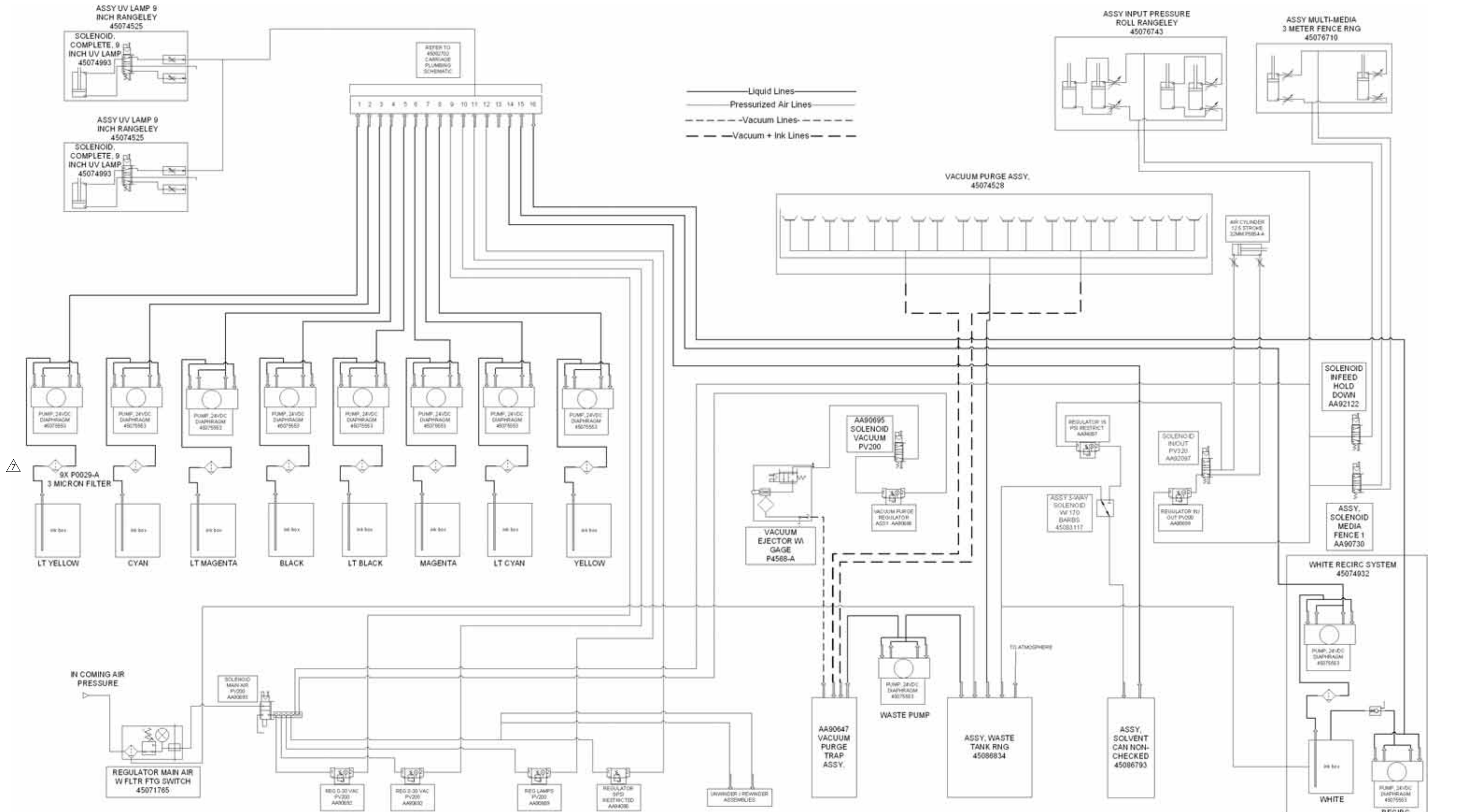
Backplane Fuses



**Subsystem Block Diagram
Jetpack Board**



REV	DESCRIPTION	DATE	DRN BY	CHECKED
3	ECO 24297: REMOVE WASTE LINE FROM Y-FITTING	7/27/2009	SPL	
4	ECO 25306: MOVED FILTER TO AFTER PUMP	12/7/2009	SPL	
5	ECO 25429: FIXED ERROR W/ CARR SCHEMATIC #	12/22/2009	SPL	
6	ECO 25734: ADDS 45091163 TO CIRCUIT	2/2/2010	RDW	
7	ECO 25921: MOVE FILTERS PRIOR TO PUMPS	2/23/2010	SPL	



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLES
1/16	±.005	±.5°
1/32	±.001	±.1°
1/64	±.0005	±.05°

REMOVE ALL BURRS AND SHARP EDGES

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PLUMBING SCHEMATIC GS3200

DATE: 6/3/2009
 DRAWN: RDW
 CHECKED: RDW
 DATE: 4/24/2009

SCALE: 1:1

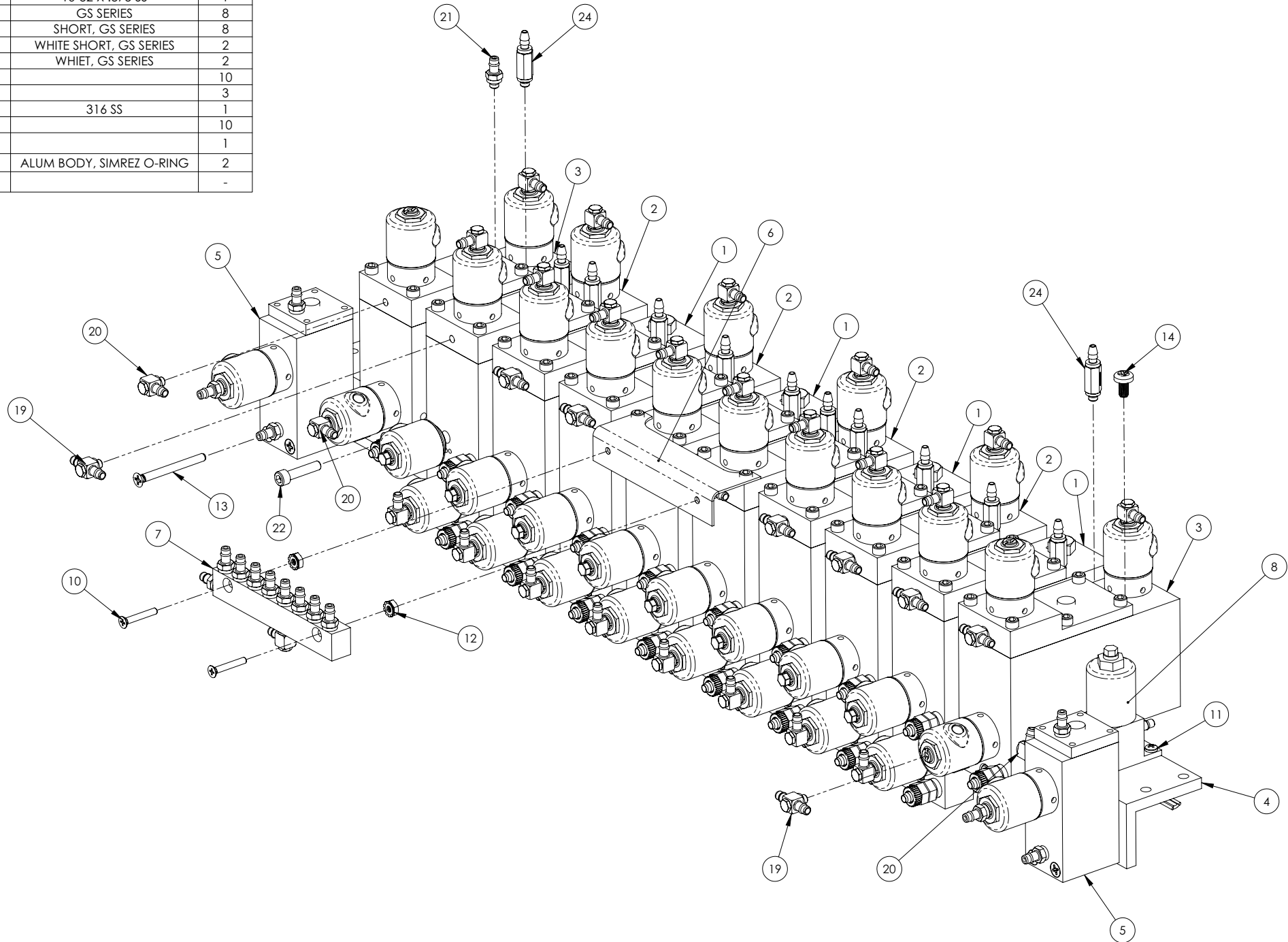
PROJECT: 45086232

SHEET 7 of 7

FORM 423-11D

ITEM NO.	Number	Part_Name	PART_NAME_L2	QTY.
1	45092030	ASSY, SECONDARY	TANK SYMMETRIC CH	4
2	45092036	ASSY, SECONDARY TANK	SYMMETRIC CH, FAST-4	4
3	45092031	ASSY, SECONDARY	TANK, W / RETURN	2
4	45091993	SUPPORT BAR,	2ND INK TANKS	1
5	45072812	ASSY, VACUUM OVERFLOW	TANK RNG	2
6	45091679	BRKT, VACUUM MANIFOLD		1
7	45072820	ASSY, VACUUM	MANIFOLD RNG	1
8	AA94079	ASSY SOLENOID NC W/	.170 BARB	1
9	45064081	COUPLING, QUICK CONNECT	.170 INLINE PP	20
10	H1538-A	SCREW 6-32X7/8 PHIL FLAT		2
11	H1108-A	SCREW 6-32 X 3/8 PAN		2
12	H1402-A	6-32 K-NUT		2
13	H2180-A	SCREW, 8-32 X 1 3/4 FLAT, PHIL.		4
14	P3772-A	SCREW SELF SEAL	10-32 X .375 SS	1
15	45092958	INK TUBE, PRE-BENT,	GS SERIES	8
16	45092960	INK TUBE, PRE-BENT,	SHORT, GS SERIES	8
17	45092961	INK TUBE, PRE-BENT,	WHITE SHORT, GS SERIES	2
18	45092962	INK TUBE, PRE-BENT,	WHIET, GS SERIES	2
19	P5654-A	FITTING T 10-32 O-RING .170OD		10
20	P5655-A	FITTING ELBOW 10-32 O-RING		3
21	P8273-A	FITTING 10-32 X .170 BARB	316 SS	1
22	H2149-A	SHCS 10-32NC 3-4 ST ST		10
23	45093039	HEATER STRIP, 1.75IN X 23IN - 24IN LEADS		1
24	45092589	CHECK VALVE,5PSI .170 BARB TO 10-32M,	ALUM BODY, SIMREZ O-RING	2
25	H1922-A	LOCTITE 242 BLUE		-

REV	DESCRIPTION	DATE	DRN BY	CHECKED
3	ECO 24374 PROTOTYPE RELEASE	5/13/10	RMN	CAP
4	ECO 24548 UPDATE TORQUE VALUES	6/7/2010	CAP	



- NOTES:
1. APPLY ITEM 25 H1922-A LOCTITE 242 BLUE TO ITEMS 22 & 13.
 2. TORQUE BRASS COMPRESSION NUTS TO 35 IN-LBS.
 3. TORQUE ITEMS 19, 20 & 21 TO 10 IN-LBS.

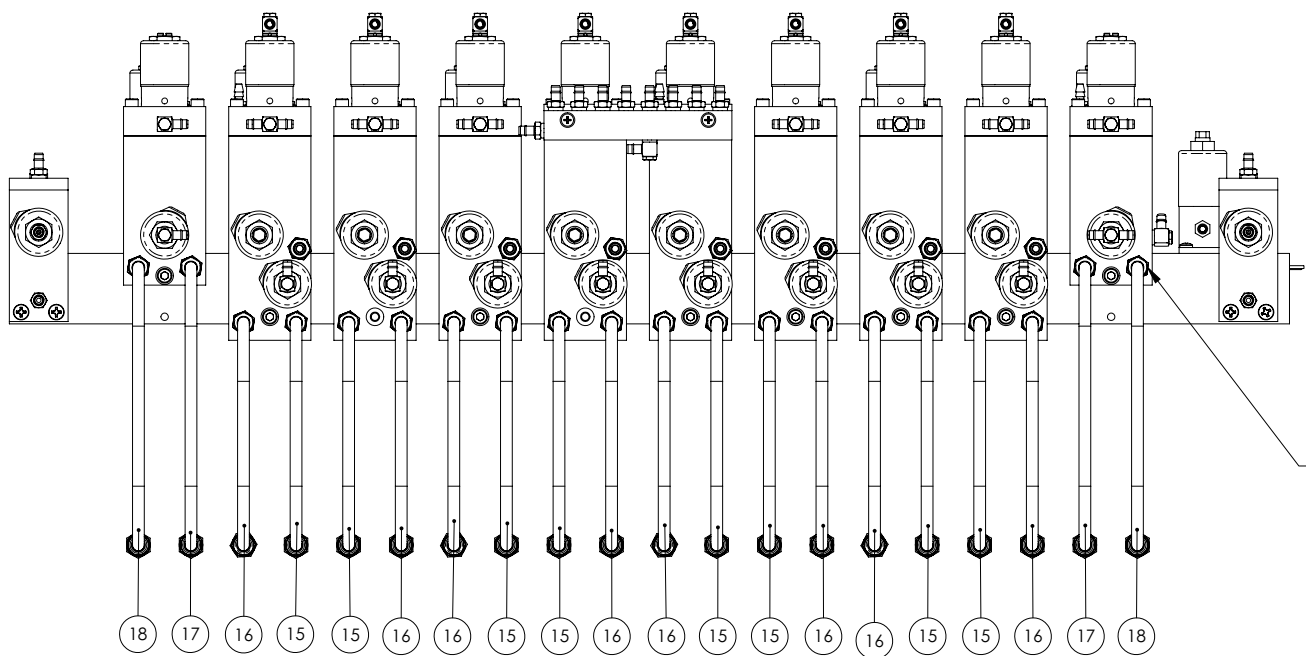
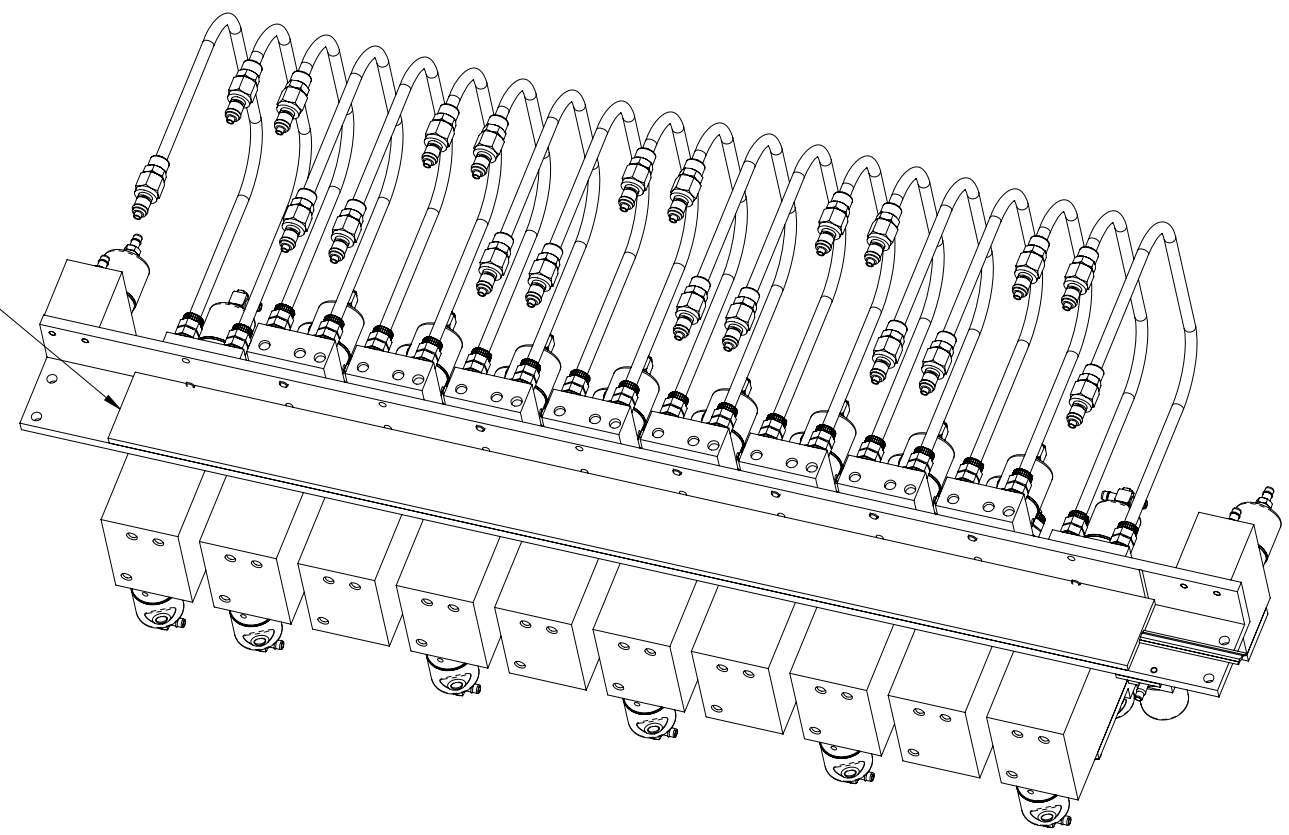
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES 31/16 X ±.03 XX ±.5 XX ±.05 XX ±.1 63/1000 ±.005 XXXX ±.0010	CAD GENERATED DRAWING DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING	efi	VUTEK
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8 7 6 5 4 3 2 1

F
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D
C
B
A

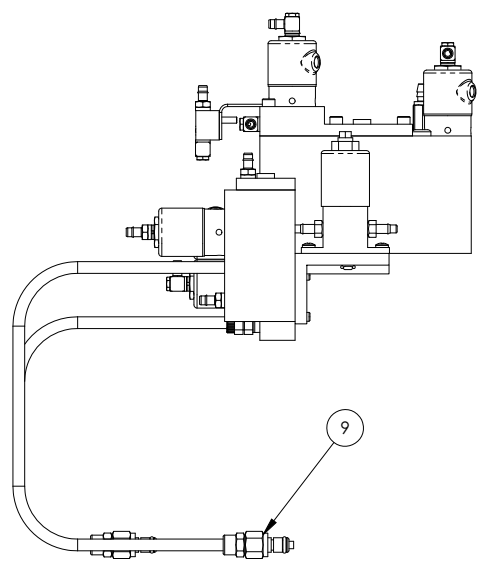
F
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23





18 17 16 15 15 16 16 15 15 16 16 15 15 16 16 15 15 16 17 18

(SEE NOTE 2)



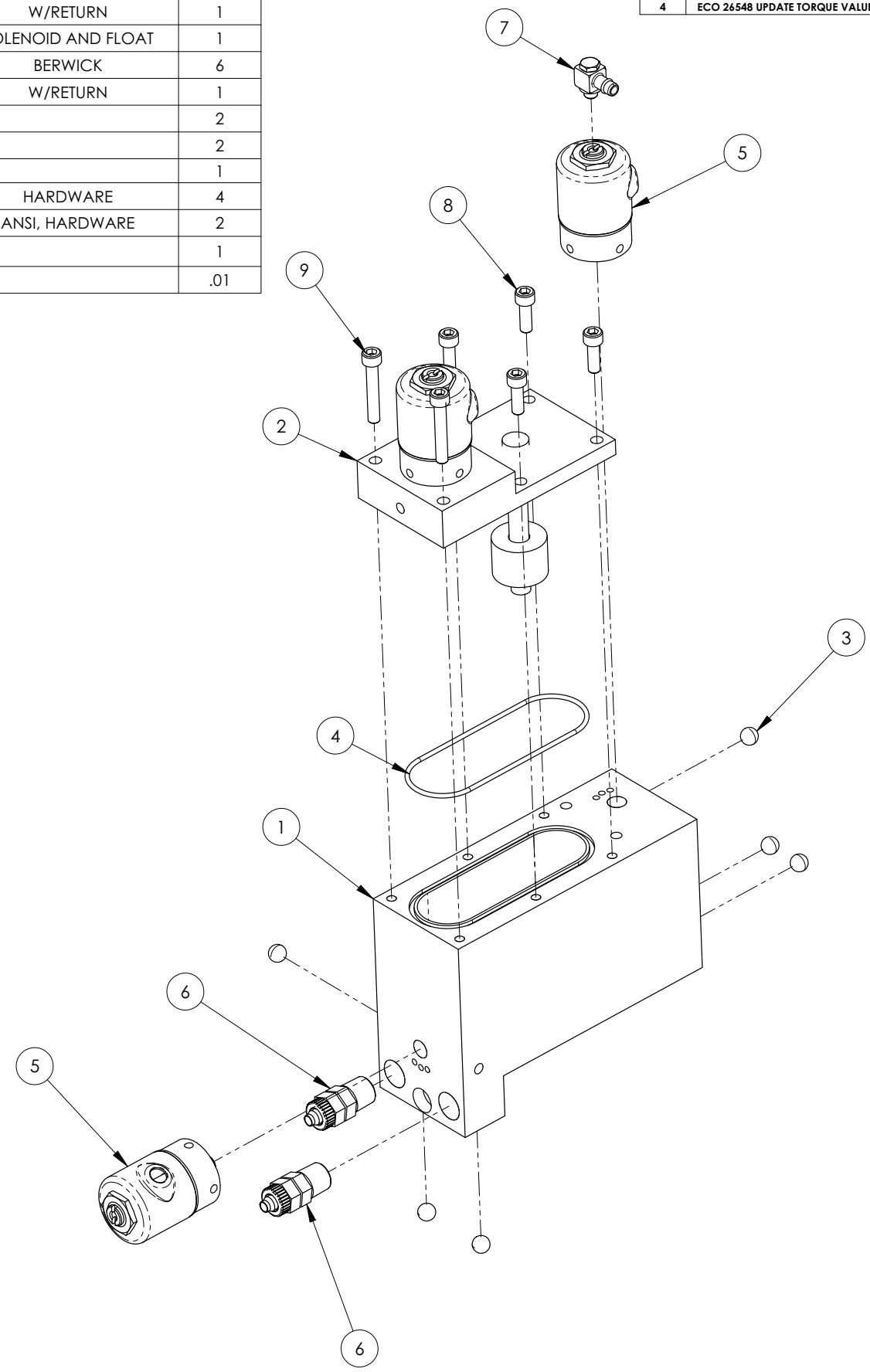
9

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TOLERANCES ARE: FRACTIONS: DECIMALS ANGLE 1/16 X ± .03 X ± .5 XX ± .05 XX ± 1 .000 ± .005 .0004 ± .0010	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK, INC. IS PROHIBITED.	
REMOVE ALL BURRS AND SHARP EDGES	DRAWN RMN DATE 5/11/10 DESIGNED DATE 5/11/10 C/A/P CAD FILE Assy Ink Bar, Narrow Profile Tanks	TITLE ASSY, SUPPORT BAR INK TANKS, GS SERIES SEE DRWG. NO. D 45092887 SCALE 1:2 PROJECT SHEET 2 of 2



8 7 6 5 4 3 2 1

ITEM NO.	Number	Part_Name	PART_NAME_L2	QTY.
1	45091961	TANK, SECONDARY INK,	W/RETURN	1
2	45092034	ASSY, COVER	SOLENOID AND FLOAT	1
3	45061066	BALL 1/4" DIA SS	BERWICK	6
4	45092035	O-RING-035 EPDM	W/RETURN	1
5	P5585-A	SOLENOID 3-WAY MANIFOLD MOUNT		2
6	45089128	FITTING, COMPRESSION, 1/8 NPT, 1/4 TUBE, ALUM		2
7	P5655-A	FITTING ELBOW 10-32 O-RING		1
8	H1215-A	SCREW 8-32X1/2 CAP	HARDWARE	4
9	H1218-A	SCREW 8-32X1 SOC CAP	ANSI, HARDWARE	2
10	45074039	CONN, PLUG, 8 POS, 8A, 160V, 3.81MM, SPRING-CAGE, ROHS		1
11	P2040-A	TAPE 1/4 IN TEFLON ROLL		.01

REV	DESCRIPTION	DATE	DRN BY	CHECKED
3	ECO 26376 PROTOTYPE RELEASE	5/7/10	RMN	CAP
4	ECO 26548 UPDATE TORQUE VALUES	6/7/2010	CAP	

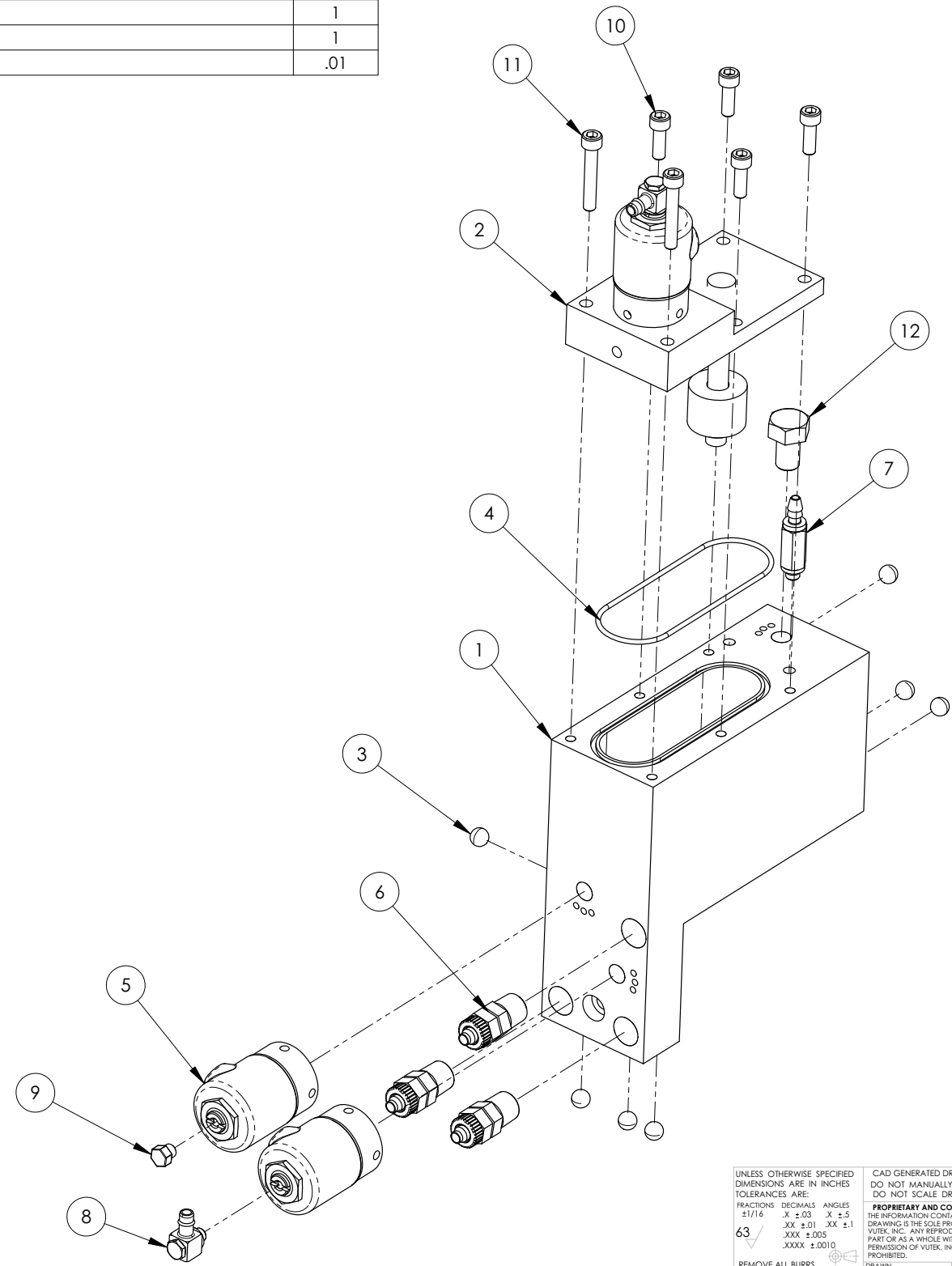


NOTE:
 1. APPLY 3-INCHES OF ITEM 11 TO THREADS OF ITEM 6 MIN 1 FULL WRAP.
 2. TORQUE THREADED BODY OF ITEM 6 TO 100 IN-LBS.
 3. TORQUE ITEM 7 TO 10 IN-LBS.
 4. ITEM 11 IS NOT SHOWN FOR CLARITY.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±1/16 .X ±.03 .XX ±.1	CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING	 
63 REMOVE ALL BURRS AND SHARP EDGES MATERIAL: SEE BOM FINISH	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK, INC. IS PROHIBITED.	
DRAWN: RMN DATE: 5/10/10	DESIGNED: CAP DATE: 5/10/10	ASSY, SECONDARY TANK, W / RETURN DWG. NO. 45092031 SCALE: 1:2 PROJECT: SHEET 1 OF 1

ITEM NO.	Number	Part_Name	PART_NAME_L2	QTY.
1	45091954	TANK, SECONDARY INK,	W/SYMMETRIC CH	1
2	45092034	ASSY, COVER	SOLENOID AND FLOAT	1
3	45061066	BALL 1/4" DIA SS	BERWICK	7
4	45092035	O-RING-035 EPDM	W/RETURN	1
5	P5585-A	SOLENOID 3-WAY MANIFOLD MOUNT		2
6	45089128	FITTING, COMPRESSION, 1/8 NPT, 1/4 TUBE, ALUM		3
7	45092589	CHECK VALVE,5PSI .170 BARB TO 10-32M,	ALUM BODY, SIMREZ O-RING	1
8	P5655-A	FITTING ELBOW 10-32 O-RING		1
9	P3927-A	PLUG 10-32 UNF WHT NYLON		1
10	H1215-A	SCREW 8-32X1/2 CAP	HARDWARE	4
11	H1218-A	SCREW 8-32X1 SOC CAP	ANSI, HARDWARE	2
12	45066885	SCREW,SELF-SEALING, 5/16-24 X 1/2,EPDM O-RING		1
13	45074039	CONN, PLUG, 8 POS, 8A, 160V, 3.81MM, SPRING-CAGE, ROHS		1
14	P2040-A	TAPE 1/4 IN TEFLON ROLL		.01

REV	DESCRIPTION	DATE	DRN BY	CHECKED
2	ECO 26376 PROTOTYPE RELEASE	5/7/10	RMN	CAP
3	ECO 26548 UPDATE TORQUE VALUES	6/7/2010	CAP	

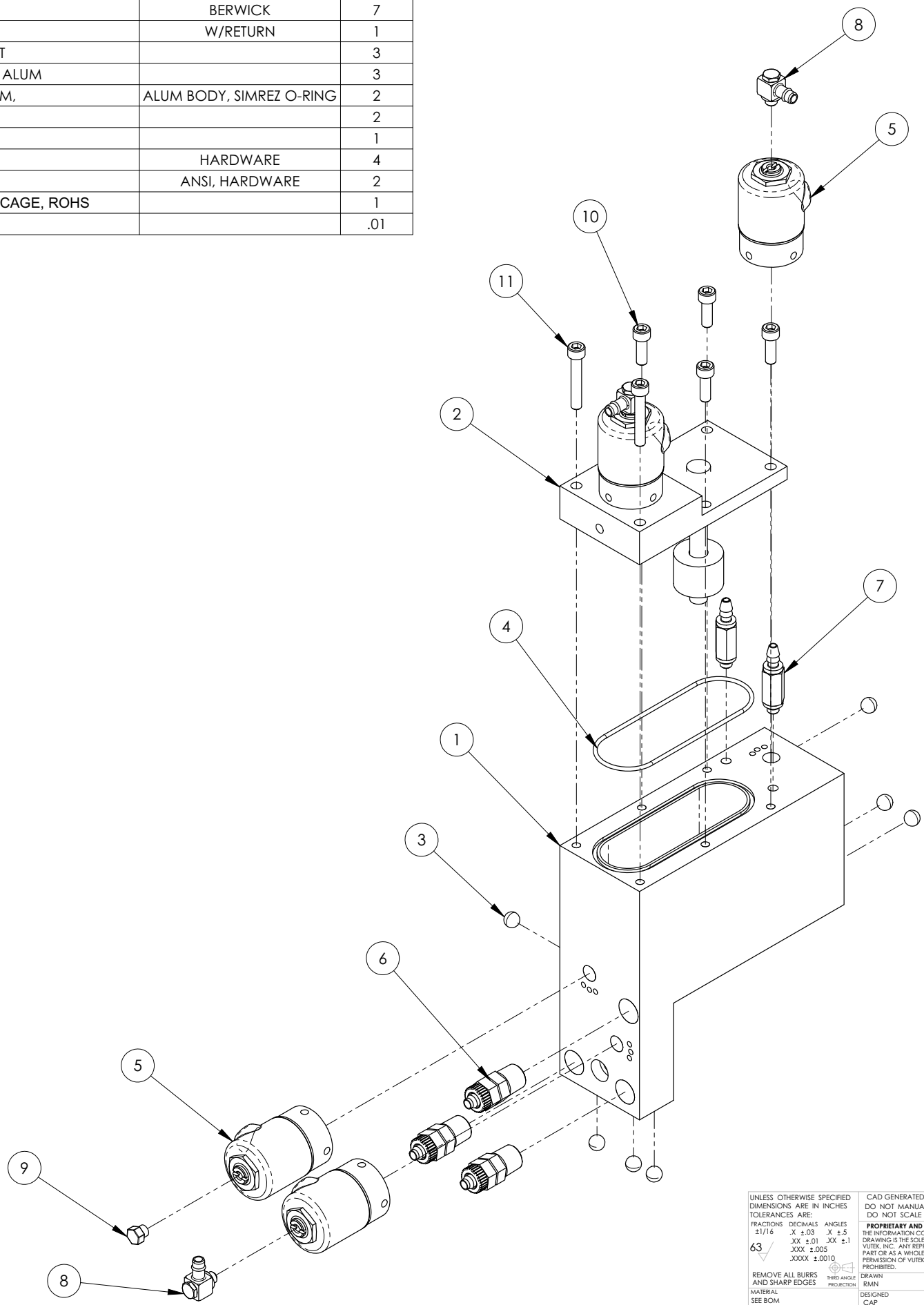


- NOTE:
1. APPLY 3-INCHES OF ITEM 14 TO THREADS OF ITEM 6 MIN 1 FULL WRAP.
 2. TORQUE THREADED BODY OF ITEM 6 TO 100 IN-LBS.
 3. TORQUE ITEMS 7 & 8 TO 10 IN-LBS.
 4. ITEM 13 AND 14 ARE NOT SHOWN FOR CLARITY.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ±1/16 .X ±.03 .XX ±.1 63 .XX ±.01 .XX ±.1 .XXX ±.005 .XXXX ±.0010	CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING	efi VUTEK
REMOVE ALL BURRS AND SHARP EDGES MATERIAL SEE BOM FINISH	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VUTEK, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF VUTEK, INC. IS PROHIBITED.	TITLE ASSY, SECONDARY TANK SYMMETRIC CH
DRAWN RMN	DATE 5/10/10	SIZE C
DESIGNED CAP	DATE 5/10/10	DIWG. NO. 45092030
CAD FILE: Assy_2nd Ink Tank_W-Symmetric_Channel	SCALE 1:4	PROJECT: SHEET 1 of 1

ITEM NO.	Number	Part_Name	PART_NAME_L2	QTY.
1	45091954	TANK, SECONDARY INK,	W/SYMMETRIC CH	1
2	45092034	ASSY, COVER	SOLENOID AND FLOAT	1
3	45061066	BALL 1/4" DIA SS	BERWICK	7
4	45092035	O-RING-035 EPDM	W/RETURN	1
5	P5585-A	SOLENOID 3-WAY MANIFOLD MOUNT		3
6	45089128	FITTING, COMPRESSION, 1/8 NPT, 1/4 TUBE, ALUM		3
7	45092589	CHECK VALVE,5PSI .170 BARB TO 10-32M,	ALUM BODY, SIMREZ O-RING	2
8	P5655-A	FITTING ELBOW 10-32 O-RING		2
9	P3927-A	PLUG 10-32 UNF WHT NYLON		1
10	H1215-A	SCREW 8-32X1/2 CAP	HARDWARE	4
11	H1218-A	SCREW 8-32X1 SOC CAP	ANSI, HARDWARE	2
12	45074039	CONN, PLUG, 8 POS, 8A, 160V, 3.81MM, SPRING-CAGE, ROHS		1
13	P2040-A	TAPE 1/4 IN TEFLON ROLL		.01

REV	DESCRIPTION	DATE	DRN BY	CHECKED
2	ECO 26376 PROTOTYPE RELEASE	5/7/10	RMN	CAP
3	ECO 26548 UPDATE TORQUE VALUES	6/7/2010	CAP	



NOTE:
1. APPLY 3-INCHES OF ITEM13 TO THREADS OF ITEM 6 MIN 1 FULL WRAP.
2. TORQUE THREADED BODY OF ITEM 6 TO 100 IN-LBS.
3. TORQUE ITEMS 7 & 8 TO 10 IN-LBS.
4. ITEM 12 AND 13 ARE NOT SHOWN FOR CLARITY.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
±1/16 .X ±.03 .XX ±.1
.00 .XX ±.01 .XX ±.1
.000 .XXX ±.005
.0000 .XXXX ±.0010

63 REMOVE ALL BURRS AND SHARP EDGES
MATERIAL: SEE BOM
FINISH: 3

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TITLE: **ASSY, SECONDARY TANK SYMMETRIC CH, FAST-4**

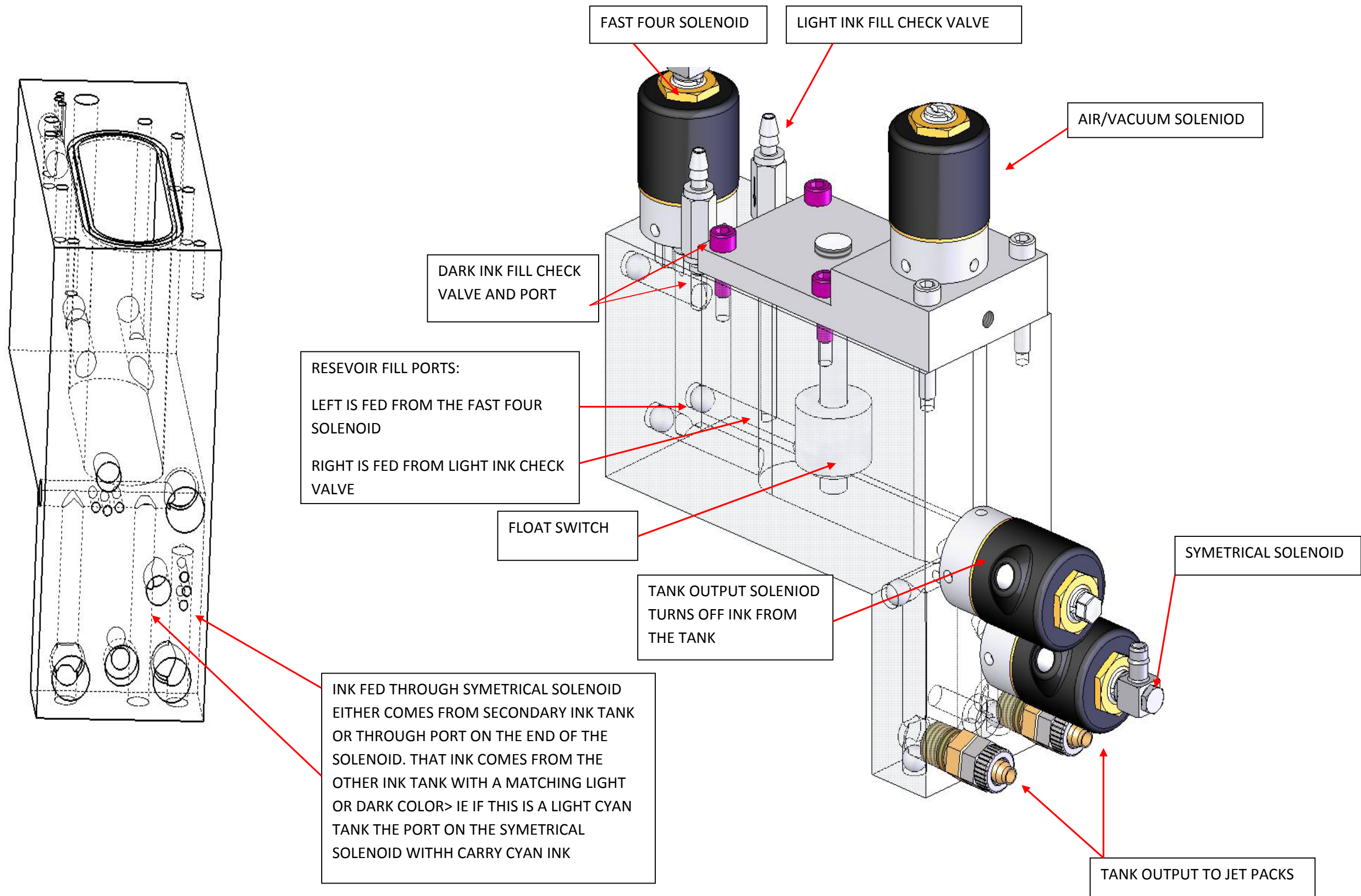
DRAWN: RMN DATE: 5/10/2010
DESIGNED: CAP DATE: 5/10/2010

SIZE: C DWG. NO.: **45092036** REV: 3

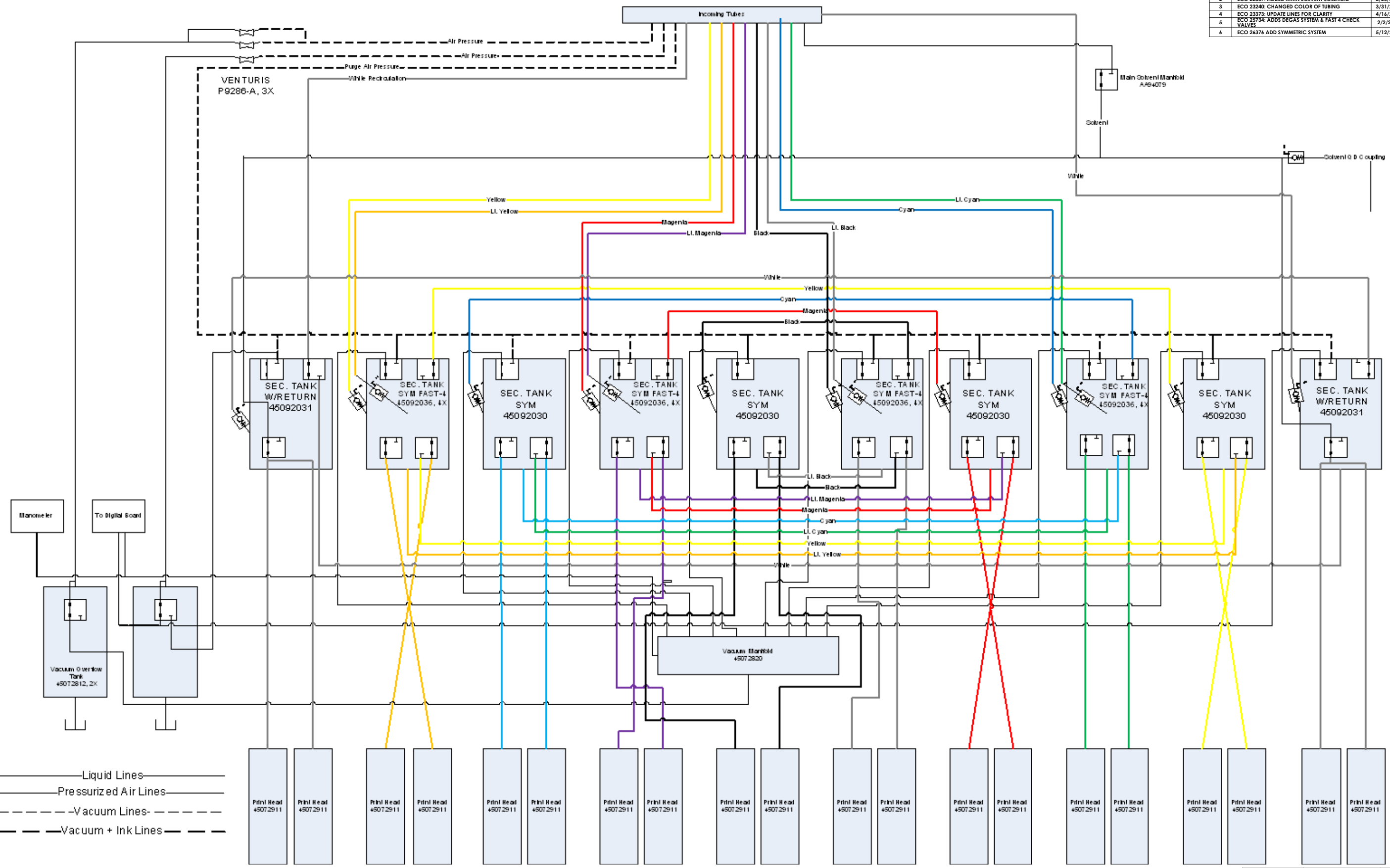
CAD FILE: 45092034 ASSY, SECONDARY TANK, SYMMETRIC CH, FAST-4 PROJECT: 1 SHEET 1 OF 1

FORM 423-11C D021306-A

FAST FOUR INK TANK



REV	DESCRIPTION	DATE	DRN BY	CHECKED
1	ECO 22492: INITIAL RELEASE	2/9/2009	SPL	TE
2	ECO 22837: ADDED MAIN SOLVENT SOLENOID	2/20/2009	SPL	
3	ECO 23240: CHANGED COLOR OF TUBING	3/31/2009	SPL	
4	ECO 23373: UPDATE LINES FOR CLARITY	4/14/2009	SPL	
5	ECO 23734: ADDS DEGAS SYSTEM & FAST 4 CHECK VALVES	2/2/2010	RDW	
6	ECO 26376: ADD SYMMETRIC SYSTEM	5/12/2010	CAP	



——— Liquid Lines
 - - - - - Pressurized Air Lines
 - · - · - Vacuum Lines
 - · · - · Vacuum + Ink Lines

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 1/16 0.003 0.005 0.1

CAD GENERATED DRAWING.
 DO NOT MANUALLY UPDATE
 DO NOT SCALE DRAWING

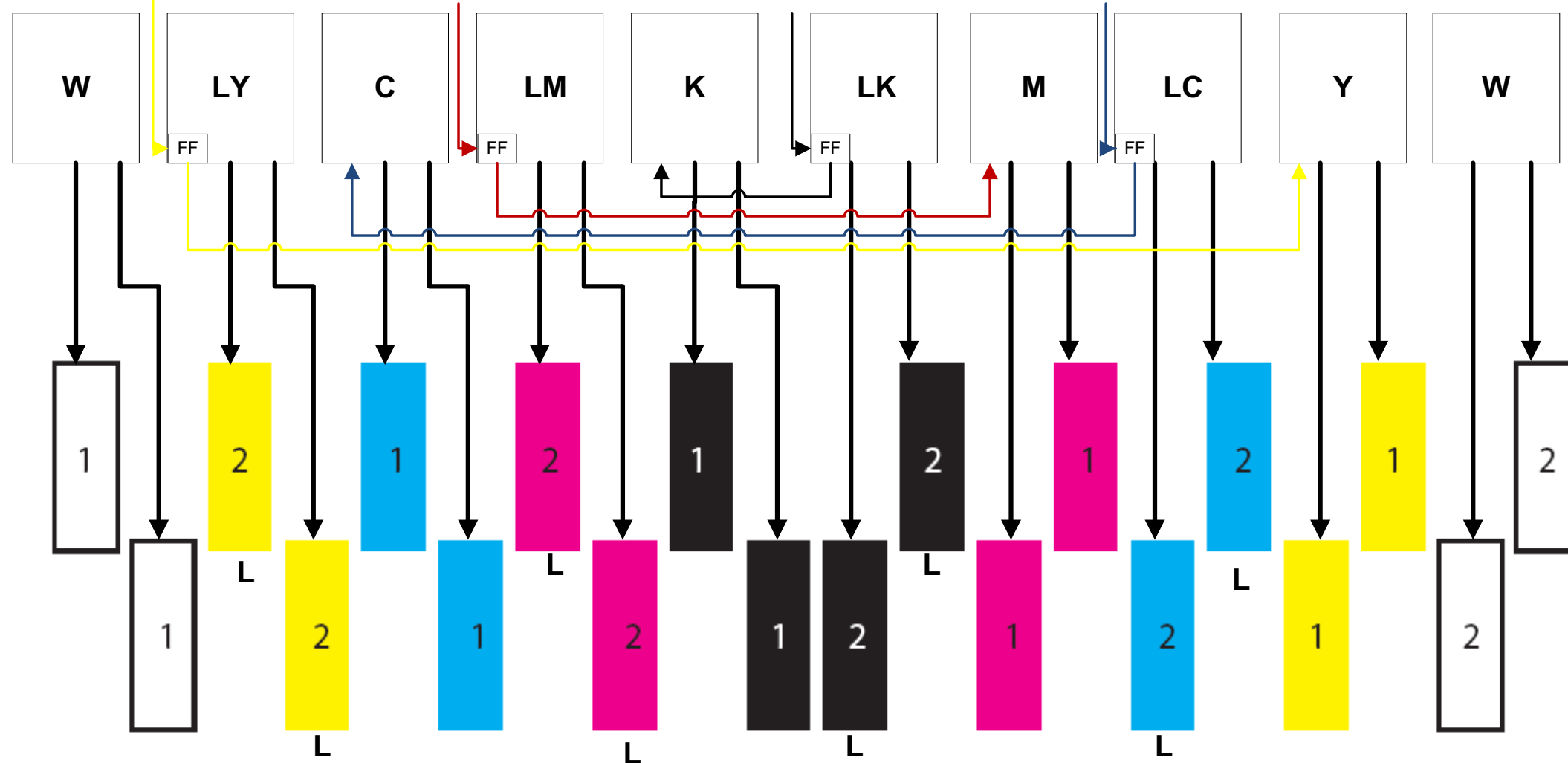
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DRAWN: SPL DATE: 1/26/2009
 DESIGNED: SPL DATE: 1/26/2009
 CHECKED: SPL DATE: 1/26/2009
 CAD FILE: SCHEMATIC_CARRIAGE PLUMB SINGLE TANK RING SCALE: 1:0.25 PROJECT: Vutek Standards

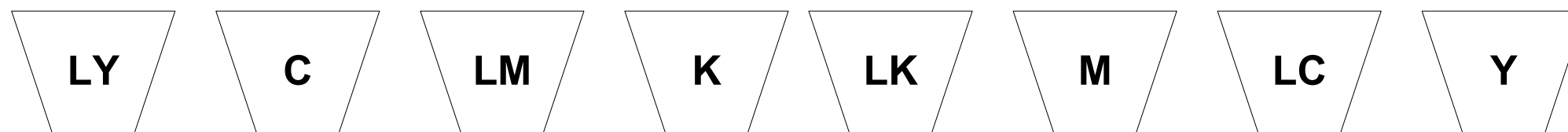
efi
VUTEK

**DOC, CARRIAGE PLUMB
 SINGLE TANK RING**
45082702
 SHEET 1 of 1

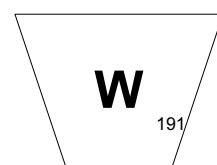
Secondary Ink Tank & Print Head Layout (2=light)



Primary Ink Tanks (Ink Cabinet)



Primary Ink Tanks (Waste Cabinet)



GS2000 and GS3200 Maintenance Log

Weekly Maintenance Chart: ___ / ___ / ___ to ___ / ___ / ___

Every 4 Hours	Day 1			Day 2			Day 3			Day 4			Day 5			Day 6			Day 7			
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
1. Clean the surface of the jet packs using a Polyurethane Wipe saturated with head conditioning fluid. The Polyurethane wipes are in your disposables kit. Note: Do not use a damp or dry jet pack wipe, the 9" x 9" (23cm x 23cm) Knitted Polyester Wipes, as these will scratch the surface of the jet packs.																						

Every 8 Hours	Day 1			Day 2			Day 3			Day 4			Day 5			Day 6			Day 7			
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
1. Check the Water Trap on your air compressor and empty if necessary.																						
2. Check the Waste Tank level and empty if 3/4 full or as necessary.																						
3. Check and fill the solvent container with the PE2009 Head Conditioning fluid. Note: Do not fill more than 3/4 full.																						
4. Clean vacuum purge tray and purge block orifices with head conditioning fluid. Wipe tray rollers, tray rails, and lubricate tray rails with a 3-in-1 Oil.																						
5. Wipe the top and bottom carriage rails with a clean lint free wipe.																						
6. Clean ink mist from the Linear Encoder Strip and read head using isopropyl alcohol and a clean jet pack wipe.																						
7. Clean Media Edge Detector Lens with isopropyl alcohol and a clean jet pack wipe.																						
8. Check the ink levels in the Primary Ink boxes and replace as required.																						

Weekly	Date	Initials
1. Inspect/replace UV lamp housing filters.		
2. Verify carriage head height.		
3. Clean the static bar pins using a soft Brass Wire Brush.		
4. Clean the encoder strip at the right side rear of the printer.		
5. Clean the media infeed and outfeed rollers.		

Monthly	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
1. Vacuum the umbilical assembly and shelf.												
2. Wipe the light blocking shields on the input and output doors with isopropyl alcohol and a clean jet pack wipe to remove dust and debris.												
3. Grease the four carriage bearings using the grease gun provided with your printer. Warning: Use the correct grease, do not use the grease for the Lead Screw.												
4. Grease the Lead screw.												

Quarterly	Quarter 1	Quarter 2	Quarter 3	Quarter 4
1. Clean and remove dust from power supplies, servo controllers, smoke detector, and all cabinet exhaust fans.				
2. Replace the carriage fan filter at the left and right sides of the carriage.				
3. Clean the inside of the UV lens, reflector, and bulb with isopropyl alcohol. Note: Use cotton gloves when handling the UV bulbs and lense. Never touch these components with bare hands. See Note below.				

Semi Annually	January	July
1. Replace the primary ink filters.		
2. Replace the vacuum purge container, use the original top on the replacement container.		
3. Replace jet pack recovery station solvent filter.		

Note: UV bulbs contain mercury. If a bulb breaks, treat the accident as a hazardous spill and contact a Material Safety expert immediately.