

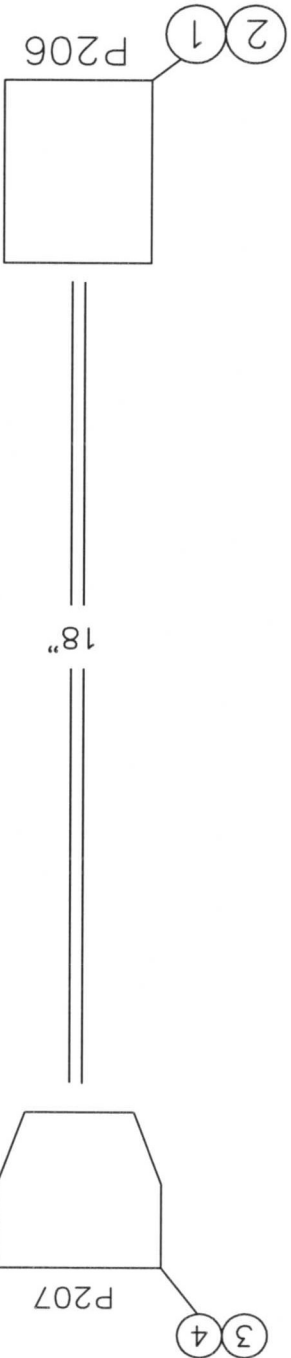
NOTES:
1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2-ALL COMPONENTS MUST BE UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	1	MOLEX	50-57-9406	CONN 6 POS
2	2	MOLEX	16-02-0103	PIN
3	1	NORCOMP	172-015-202-001	15 PIN D-SUB
4	1	NORCOMP	973-015-020-121	15 PIN D-SUB SHELL
5	-	-	-	PUR, 22 AWG STRANDED, UL 1007
6	18"	-	-	BLK, 22 AWG STRANDED, UL 1007

MATERIAL LIST

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	5	22 AWG	PUR	PS ENABLE RETURN	P206-1	P207-14
2	6	22 AWG	BLK	PS ENABLE	P206-3	P207-7

WIRE LIST



APPROVALS	DATE
DRAWN C RISSER	2-05
CHECKED	SERVICE
ENGINEERING	PRODUCTION
PROPRIETARY NOTE	

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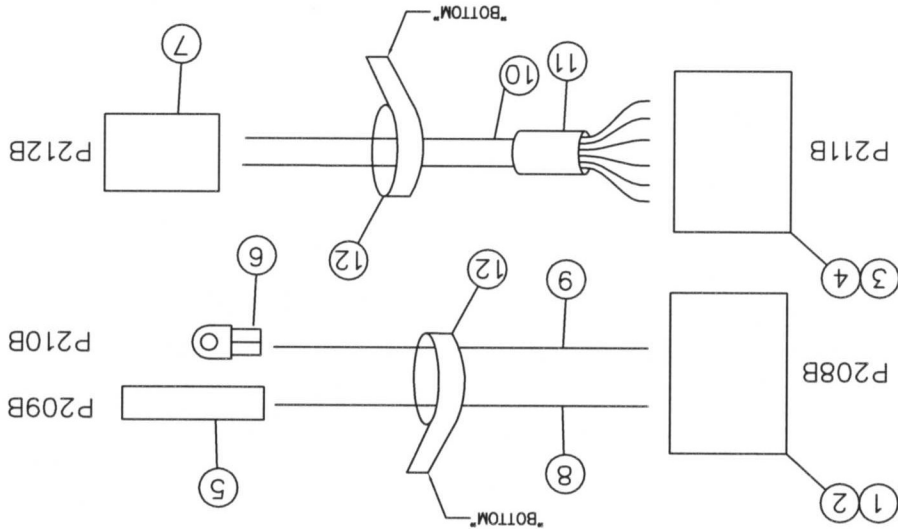
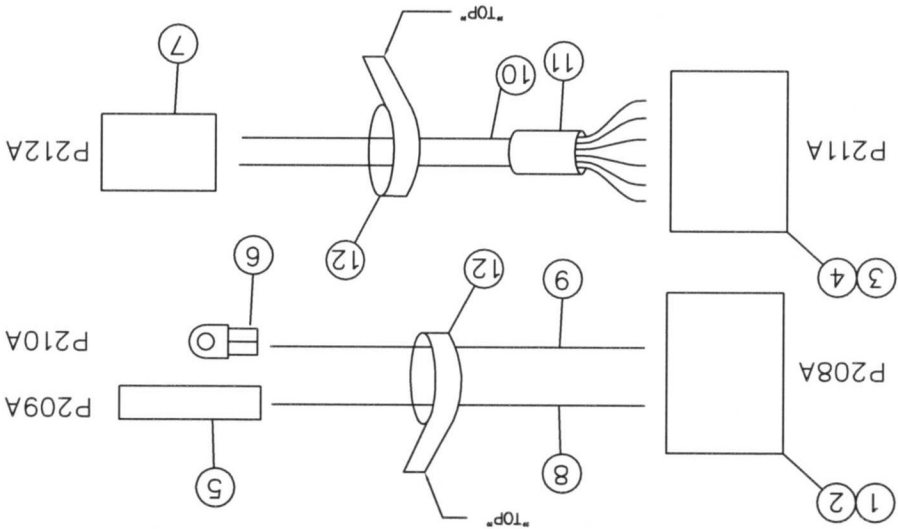
TITLE	XL 150 WATT POWER INHIBIT HARNESS
SIZE	B
DRAWING NO.	132-0230-0
REV	-
SHEET	1 OF 1
SCALE	NONE

REVISIONS			
REV	DATE	ECO	APP'D
-	01/19/2006	---	GW

WIRE LIST - SAME FOR A & B					
WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM
1	10	22 AWG	BLK	LOGIC GND (LASER A)	P211-3
2	10	22 AWG	RED	MODULATION (LASER A)	P211-2
3	10	22 AWG	WHT	POINTER (LASER A)	P211-5
4	10	22 AWG	GRN	12V (LASER A)	P212-5
5	10	22 AWG	BRN	I-LOCK SENSE (LASER A)	P212-1
6	8	7 AWG	RED	48V POWER (LASER A)	P209
7	9	7 AWG	BLK	GND (LASER A)	P210
8	10	22 AWG	SHIELD	SHIELD (LASER A)	P212-3
P211-4					

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	2	ITT	121583-0025	HIGH POWER SOCKET
2	4	ITT	031-8646-003	SOCKET PIN
3	2	AMP/TYCO	206708-1	PLUG
4	12	AMP/TYCO	66109-3	RECEPTACLE PIN
5	2	MULTI-CONTACT	15.0017-22	CONNECTOR STRAIGHT SOCKET RED
6	2	AMP/TYCO	321598	RING TERMINAL, 6 AWG, 1/4 ID
7	2	ALPHA PRODUCTS	300/231C1225510	8 PIN CIRCULAR CONNECTOR
8	48"	MULTI-CONTACT	60.7017-00122	RED , SUPERFLEX 7 AWG (24" X 2)
9	48"	MULTI-CONTACT	60.7017-00121	BLK, SUPERFLEX 7 AWG (24" X 2)
10	48"	ALPHA	1295C	5 COND SHIELDED, UL 2576 (24" X 2)
11	2	3M/ESM (OR UL EQUIV.)	FP-301 1/4" BL200'	HEATSHRINK FP301 1/4x1" BLK
12	4	TBD	TBD	LABEL

NOTES: 1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2-ALL COMPONENTS MUST BE ROHS COMPLIANT AND UL APPROVED/RECOGNIZED WHERE NOTED
3-APPLY LABEL AT MIDPOINT OF HARNESS WITH TEXT AS INDICATED
4-ENCLOSE WIRE KIT IN PLASTIC BAG LABELED WITH PART NUMBER



REVISIONS			
REV	DATE	ECO	APP'D
A	6/2/05	1346	CAK
B	4/25/05	1467	GRW

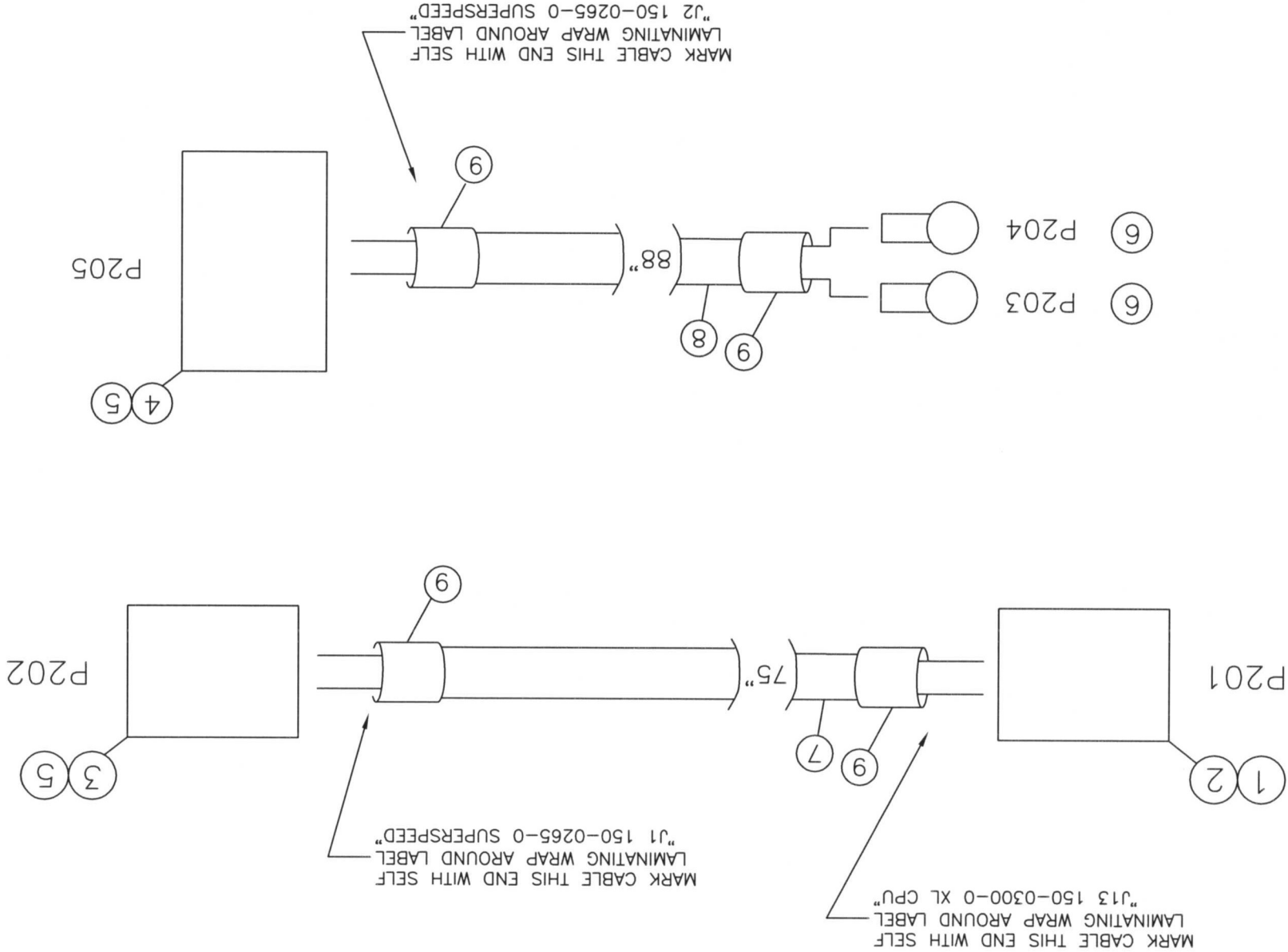
APPROVALS		DATE	DRAWN C RISSER	2-05	CHECKED	SERVICE	TITLE	Universal Laser Systems, Inc.				
PROPRIETARY NOTE		XL 150W						LASER HARNESS				
ENGINEERING		PRODUCTION						DRAWING NO.				
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SHEET 1 OF 1		SCALE			NONE			NONE				

WIRE LIST						
WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	7	22 AWG	RED	DEFLECT, STEP+	P201-1	P202-1
2	7	22 AWG	BLK	DEFLECT, STEP-	P201-2	P202-4
3	7	22 AWG	WHT	DEFLECT, DIR+	P201-3	P202-3
4	7	22 AWG	GRN	DEFLECT, DIR-	P201-4	P202-2
5	8	22 AWG	RED	48 V	P203	P205-1
6	8	22 AWG	BLK	48 V RETURN	P204	P205-2

MATERIAL LIST						
ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION		
1	1	MOLEX	39-01-2040-RED	CONN 4 PIN DUAL ROW F CORD RED		
2	4	MOLEX	39-00-0182	SOCKET		
3	1	MOLEX	50-57-9404	CONN 4 PIN		
4	1	MOLEX	50-57-9402	CONN 2 PIN		
5	4	MOLEX	16-02-0087	SOCKET		
6	2	AMP	8-34144-1	RING TERMINAL #6 SCREW		
7	75"	ALPHA (OR UL EQUIV.)	1174C	4 WIRE JACKETED CABLE, UL 2576		
8	88"	ALPHA (OR UL EQUIV.)	1172C	2 WIRE JACKETED CABLE, UL 2576		
9	4	3M/ESM (OR UL EQUIV.)	FP-301 1/4" BL200'	HEATSHRINK FP301 1/4 X 1" BLK		

PATH: V:\Mechanical\Drawing Archive\1xx-xxxx-x Assemblies\13x-xxxx-x Assemblies\132-0232-0 XL SUPERSPEED HARNESS Rev A.dwg

NOTES:
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UL LISTING/RECOGNITION MUST BE SUPPLIED



APPROVALS	DATE	DRAWN	C RISSE	SERVICE	2-05	CHECKED	ENGINEERING	PRODUCTION	PROPRIETARY NOTE
UNIVERSAL LASER SYSTEMS, INC.									
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DO NOT SCALE DRAWING									
SCALE NONE									
SHEET 1 OF 1									
REV A									
DRAWING NO. 132-0232-0									
TITLE XL SUPERSPEED HARNESS									

REVISIONS			
REV	DATE	ECO	APP'D
A	7/7/05	1371	GW

MATERIAL LIST				
ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	1	MOLEX	50-57-9406	CONN 6 PIN
2	3	MOLEX	16-02-0087	PIN
3	15"	ALPHA (OR UL EQUIV.)	1173C	3 WIRE JACKETED CABLE, UL 2576
4	2	3M/ESM (OR UL EQUIV.)	FP-301 1/4" BL200'	HEATSHRINK FP301 1/4 X 1" BLK
5	1	ALPHA (OR UL EQUIV.)	43645-0300	CONN 3 PIN MICROFIT
6	3	3M/ESM (OR UL EQUIV.)	43030-0002	PIN

WIRE LIST						
WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	3	22 AWG	NAT	BAT MONITOR	P215-1	P216-1
2	3	22 AWG	RED	FIRE	P215-2	P216-2
3	3	22 AWG	BLK	GND	P215-3	P216-3

APPROVALS		DATE
DRAWN		C RISSER
CHECKED		SERVICE
ENGINEERING		PRODUCTION
PROPRIETARY NOTE		
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DO NOT SCALE DRAWING

SCALE

NONE

SHEET

1 OF 1

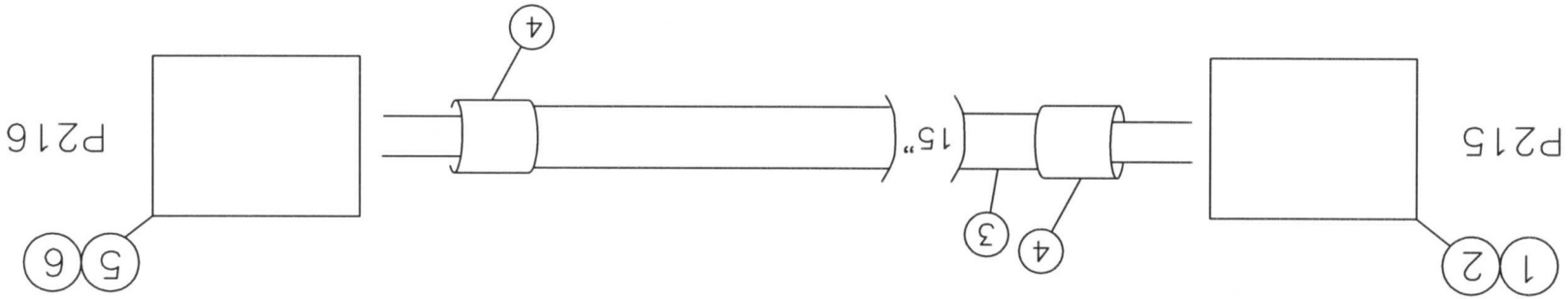
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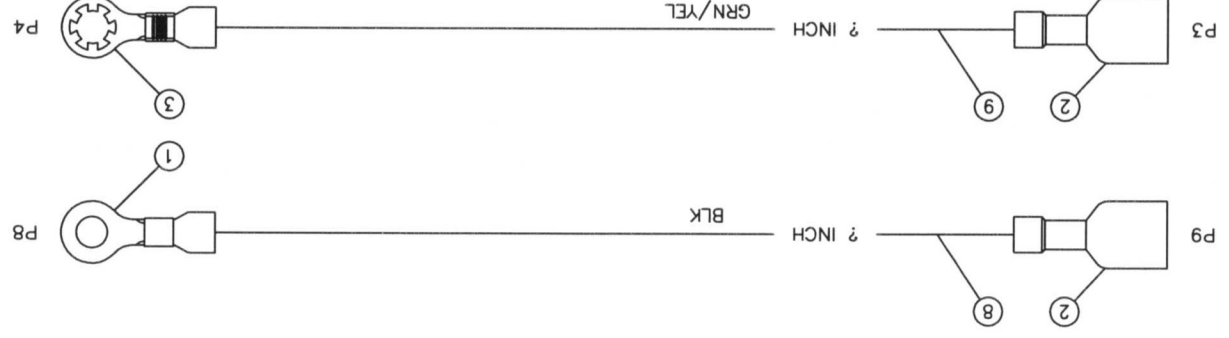
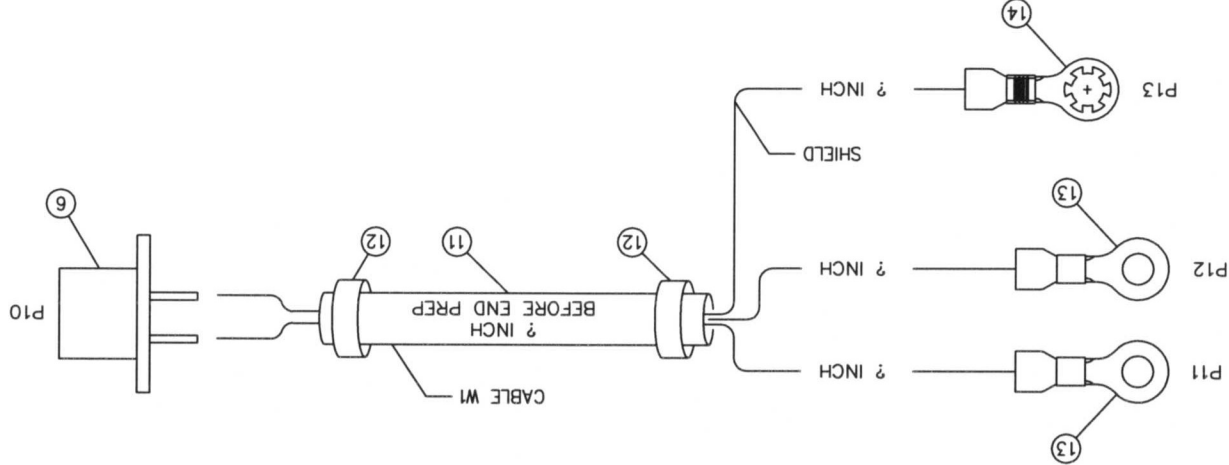
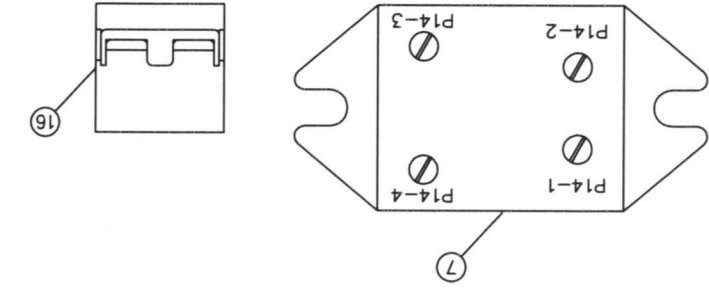
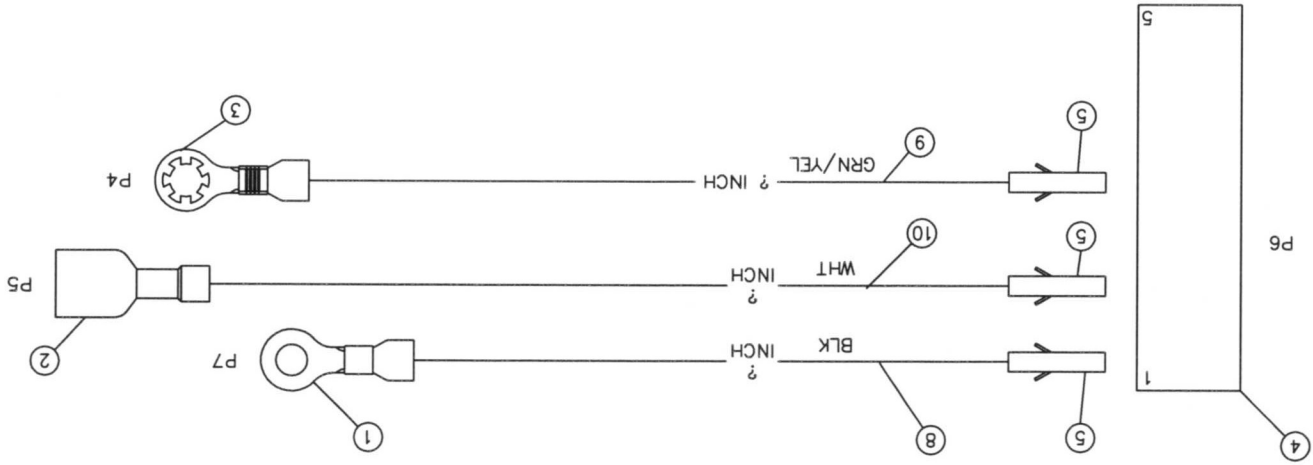
132-0234-0

DRWING NO.

NOTES:
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3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED



REVISIONS			
REV	DATE	ECO	APP'D



NOTES: 1) WIRE LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2) ALL WIRE MUST BE UL AWM STYLE 1015
3) OTHER MANUFACTURES MAY BE USED FOR WIRE AS LONG AS
UL SPECIFICATION IS THE SAME

WIRE #	CABLE #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	-	14 AWG	GRN/YEL	GROUND	P4	P6-3
2	-	14 AWG	GRN/YEL	GROUND	P3	P4
3	-	16 AWG	BLK	AC - LINE (TO SSR)	P8	P9
4	-	16 AWG	WHI	AC - NEUT	P5	P6-2
5	-	16 AWG	BLK	AC - LINE, SWITCHED	P7	P6-1
6	W1	22 AWG	BLK	SIGNAL GROUND	P11	P10-1
7	W1	22 AWG	RED	SSR CONTROL	P12	P10-2
8	W1	22 AWG	SHIELD	GROUND	(NONE)	P13

WIRE LIST

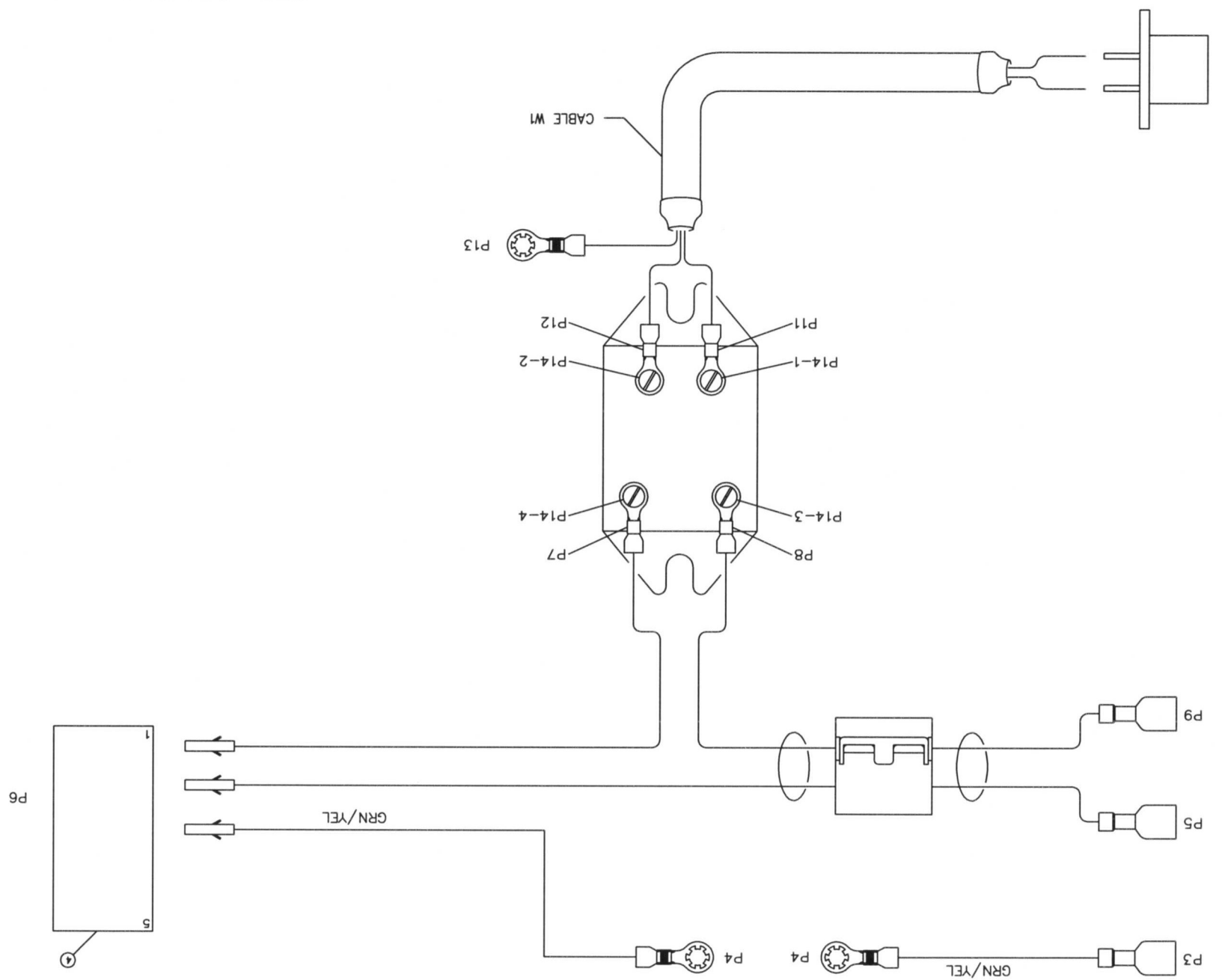
ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	2	MOLEX	19070-0069	RING TERMINAL FOR 14-16 AWG, #6 STUD
2	3	MOLEX	19003-0056	FEMALE TERMINAL, for 14-16AWG, Tab (.187") x (.032")
3	1	AMP	61794-1	STAR RING TERMINAL FOR 14-16 AWG, #8 STUD
4	1	AMP	350810-1	UNI-MATE 5 PIN CONNECTOR
5	2	AMP	350919-3	UNI-MATE CRIMP SOCKET 14-18 AWG
6	1	CONXALL	17282-25G-300	RECEPTACLE 2 PIN CIRCULAR
7	1	MAGNECRAFT	70S2-04-C-12-S	SOLID STATE RELAY, 12 AMPS, 240VAC
8	11	ALPHA	3077 BLK	WIRE, 16AWG, STRANDED, PVC, 600V, UL1015, BLK
9	5	ALPHA	3077 GRN/YEL	WIRE, 14AWG, STRANDED, PVC, 600V, UL1015, GRN/YEL
10	10	ALPHA	3077 WHI	WIRE, 16AWG, STRANDED, PVC, 600V, UL1015, WHI
11	9.5	ALPHA	5002C	2 CONDUCTOR, 22AWG, PVC JACKET, WITH DRAIN WIRE
12	2	3M/ESM	VFP-876 1/4" 200'RL	HEATSHRINK VFP876 1/4" X 1"
13	2	AMP	2-36152-1	RING TERMINAL FOR 18-22 AWG, #6 STUD
14	1	AMP	640204-1	STAR RING TERMINAL FOR 18-22 AWG, #8 STUD
15	1	-	-	PLASTIC BAG LABELED "132-0270-0"
16	1	STEWART	28A2029-0A2	BROADBAND FERRITE CORE

APPROVALS	DATE	8-05
DRAWN	C. RISSER	
CHECKED	SERVICE	
ENGINEERING	PRODUCTION	
PROJECTARY NOTE		
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SIZE	D	
DRAWING NO.	132-0270-0	
SCALE	NONE	
SHEET	1 OF 2	

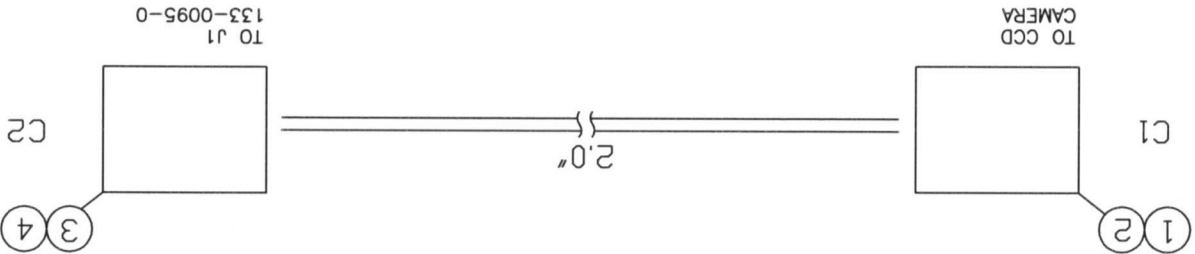
REV	DATE	ECO	APP'D

APPROVALS		DATE	8-05
DRAWN		C. RISSE	
CHECKED		SERVICE	
ENGINEERING		PRODUCTION	
PROPERTY NOTE			
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SIZE	D	DRAWING NO.	132-0270-0
REV			
DO NOT SCALE DRAWING		SCALE	NONE
SHEET		2 OF 2	

NOTES: 1) ENCLOSE WIRE KIT IN PLASTIC BAG LABELED "132-0270-0"



MATERIAL LIST			
ITEM	QTY	MANUFACTURER	PART NUMBER
1	1	JST	SHR-04V-S-B
2	3	JST	SSH-0031-P02
3	1	HIROSE	DF11-4DS-2C
4	3	HIROSE	DF11-2428SC
5	2	ALPHA	1852-1
6	2	ALPHA	1852-2
7	2	ALPHA	1852-3
DESCRIPTION			
CONN HOUSING 4 PIN FEM 1.0MM SH (ALT SHR-04V-S)			
SOCKET CRIMP 32-28 AWG TIN			
CONN SOCKET 4 POS 2MM DUAL CRIMP			
SOCKET CRIMP 24-28 AWG TIN			
WIRE 28 AWG STRANDED WHITE (INCHES)			
WIRE 28 AWG STRANDED BLACK (INCHES)			
WIRE 28 AWG STRANDED RED (INCHES)			



WIRE LIST						
WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	7	28 AWG	RED	VCC	C1-4	C2-1
2	6	28 AWG	BLACK	GND	C1-3	C2-2
3	5	28 AWG	WHITE	NISC	C1-2	C2-3

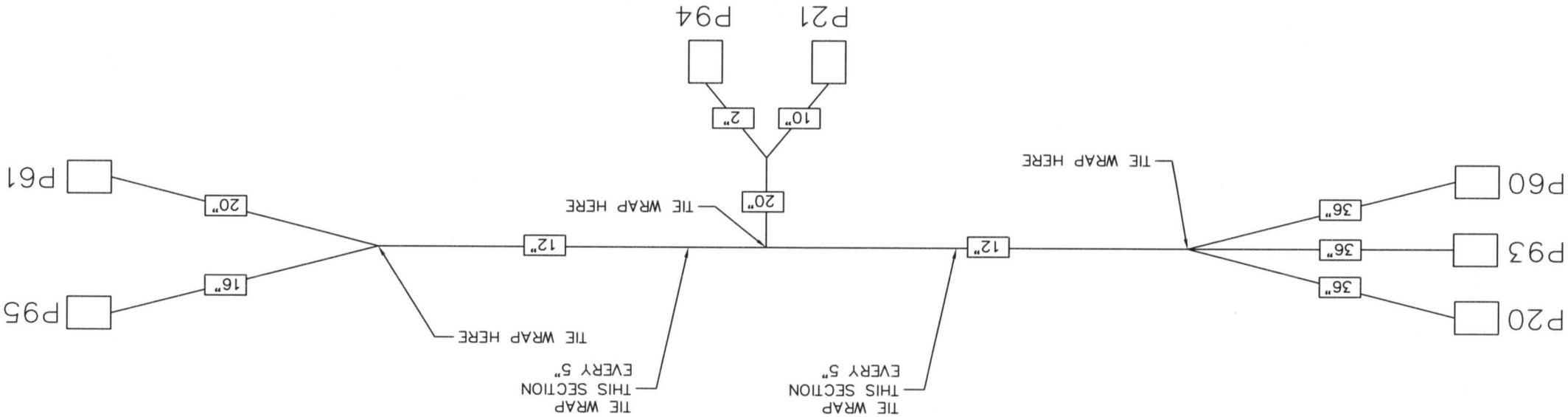
APPROVALS		DATE	
SIGNATURE		DATE	
UNIVERSAL LASER SYSTEMS, INC.		04/25/05	
TITLE		SERVICE	
DESCRIPTION		PRODUCTION	
PROJECT/ALTERNATE		REVISION	
132-0318-0		NONE	
REV		SHEET 1 OF 1	

NOTES:
1-LENGTHS ARE GIVEN AS FINAL ASSEMBLED LENGTH
2-ALL COMPONENTS MUST BE ROHS COMPLIANT AND UL LISTED/RECOGNIZED WHERE APPLICABLE
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF ROHS COMPLIANCE AND
UL LISTING/RECOGNITION MUST BE SUPPLIED

REVISIONS		DATE	
REV		DATE	
ECO		1483	
APP'D		GIV	

PATH: V:\Mechanical\Drawing Archive\1xx-xxxx-x Assemblies\13x-xxxx-x Assemblies\132-0229-0 XL X-AXIS HARNESS Rev A.dwg

APPROVALS		DATE	6-04	C RISSEY	CHECKED	SERVICE	ENGINEERING	PRODUCTION	PROPRIETARY NOTE
DRAWN		UNIVERSAL LASER SYSTEMS, INC.							
TITLE		XL HARNESS X-AXIS HARNESS							
SIZE		B							
DRAWING NO.		132-0229-0							
REV		A							
SCALE		NONE							
SHEET		1 OF 4							

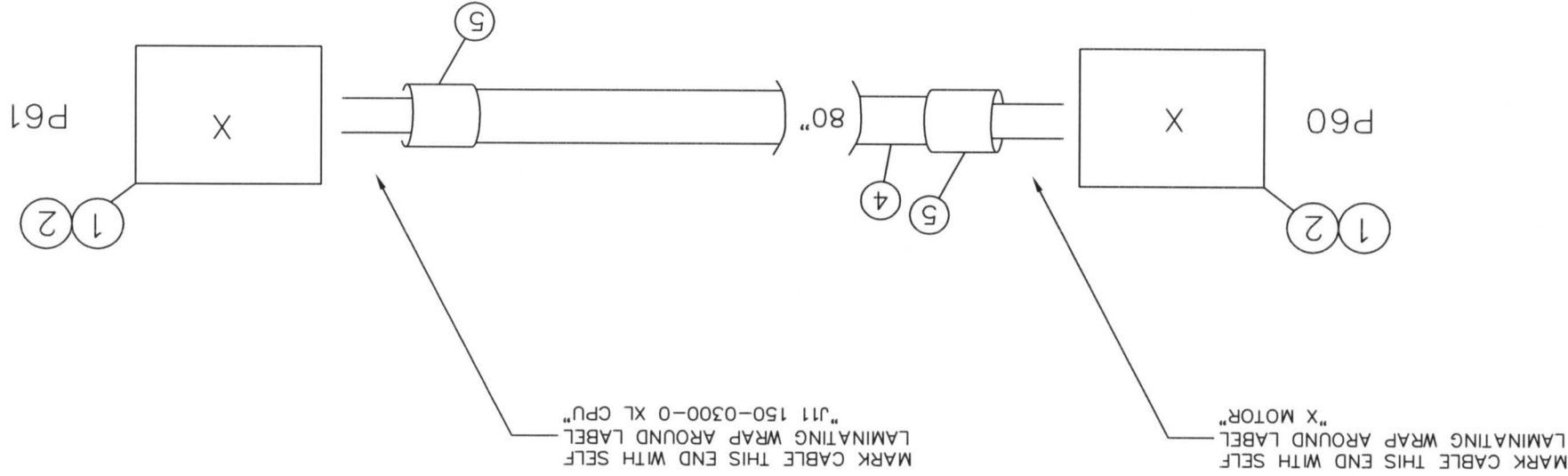


REVISIONS			
REV	DATE	ECO	APP'D
A	7/7/05	1371	GW

PATH: V:\Mechanical\Drawing Archive\1xx-xxxx-x Assemblies\13x-xxxx-x Assemblies\132-0229-0 XL X-AXIS HARNESS Rev A.dwg

MATERIAL LIST				
ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	2	MOLEX	39-01-3048-BLUE	CONN 4 PIN DUAL ROW F CORD BLUE
2	16	MOLEX	39-00-0056	SOCKET
4	80"	ALPHA (OR UL EQUIV.)	2423C	3 WIRE JACKETED CABLE SHIELDED, UL 2094
5	4	3M/ESM (OR UL EQUIV.)	FP-301 3/8" BL200'	HEATSHRINK FP301 3/8 x 1" BLK

WIRE LIST						
WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	4	18 AWG	BLK	X PHASE U	P60-1	P61-1
2	4	18 AWG	RED	X PHASE V	P60-2	P61-2
7	4	18 AWG	NAT	X PHASE W	P60-3	P61-3
8	4	18 AWG	SHIELD	X SHIELD	P60-4	P61-4



NOTES:

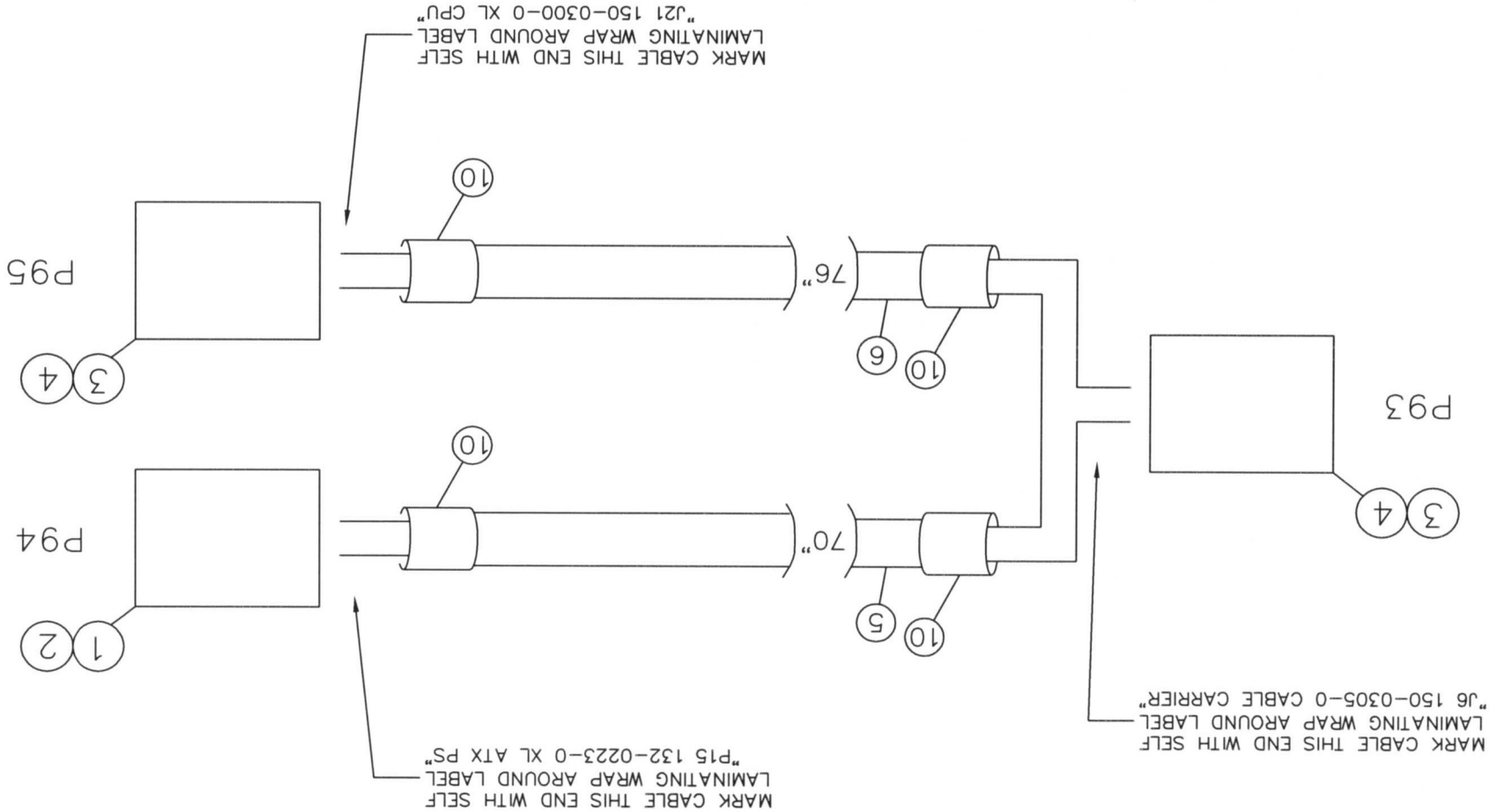
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- 2-ALL COMMENTS MUST BE UL LISTED/RECOGNIZED WHERE NOTED
- 3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF UL LISTING/RECOGNITION MUST BE SUPPLIED

APPROVALS	DATE	DRAWN C RISSEER	CHECKED	SERVICE	TITLE	UNIVERSAL Laser Systems, Inc.
	6-04				XL HARNESS, X MOTOR POWER CABLES	
		PRODUCTION	ENGINEERING			
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SIZE	D	DRAWING NO.	132-0229-0	REV	A	
DO NOT SCALE DRAWING		SCALE	NONE	SHEET	2 OF 4	

PATH: V:\Mechanical\Drawing Archive\1xx-xxxx-x Assemblies\13x-xxxx-x Assemblies\132-0229-0 XL X-AXIS HARNESS Rev A.dwg

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	1	MOLEX	70107-0001	CON 2 PIN
2	2	MOLEX	16-02-0115	PIN
3	2	SAMTEC	IPD1-10-D	CONN MINI PW 20 PIN DUAL ROW F CORD
4	32	SAMTEC	C-179-01-L	SOCKET
5	70"	ALPHA (OR UL EQUIV.)	1172C	2 WIRE JACKETED CABLE, UL 2576
6	76"	ALPHA (OR UL EQUIV.)	1181/15C	15 WIRE JACKETED CABLE, UL 2576
7	2	3M/ESM (OR UL EQUIV.)	FP-301 3/8" BL200'	HEATSHRINK FP301 3/8 x 1" BLK
8	2	3M/ESM (OR UL EQUIV.)	FP-301 1/4" BL200'	HEATSHRINK FP301 1/4 x 1" BLK

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	5	22 AWG	BLK	+12V	P93-7	P94-1
2	5	22 AWG	RED	GND	P93-8	P94-2
3	6	22 AWG	BLK	RX	P93-1	P95-1
4	6	26 AWG	RED	TX	P93-2	P95-11
5	6	22 AWG	WHT	Y-HOME	P93-3	P95-2
6	6	22 AWG	GRN	X-HOME	P93-4	P95-12
7	6	22 AWG	ORG	EOT	P93-5	P95-3
8	6	22 AWG	BLU	COLLISION DETECT	P93-6	P95-13
9	6	22 AWG	BRN	HALL U (X-AXIS)	P93-11	P95-6
10	6	22 AWG	YEL	HALL V (X-AXIS)	P93-12	P95-16
11	6	22 AWG	VIO	HALL W (X-AXIS)	P93-13	P95-7
12	6	22 AWG	GRY	PHASE A (X-AXIS)	P93-14	P95-17
13	6	22 AWG	PINK	PHASE /A (X-AXIS)	P93-15	P95-8
14	6	22 AWG	TAN	PHASE B (X-AXIS)	P93-16	P95-18
15	6	22 AWG	RED/GRN	PHASE /B (X-AXIS)	P93-17	P95-9
16	6	22 AWG	RED/YEL	GND	P93-18	P95-19
17	6	22 AWG	RED/BLK	+5V	P93-19	P95-10



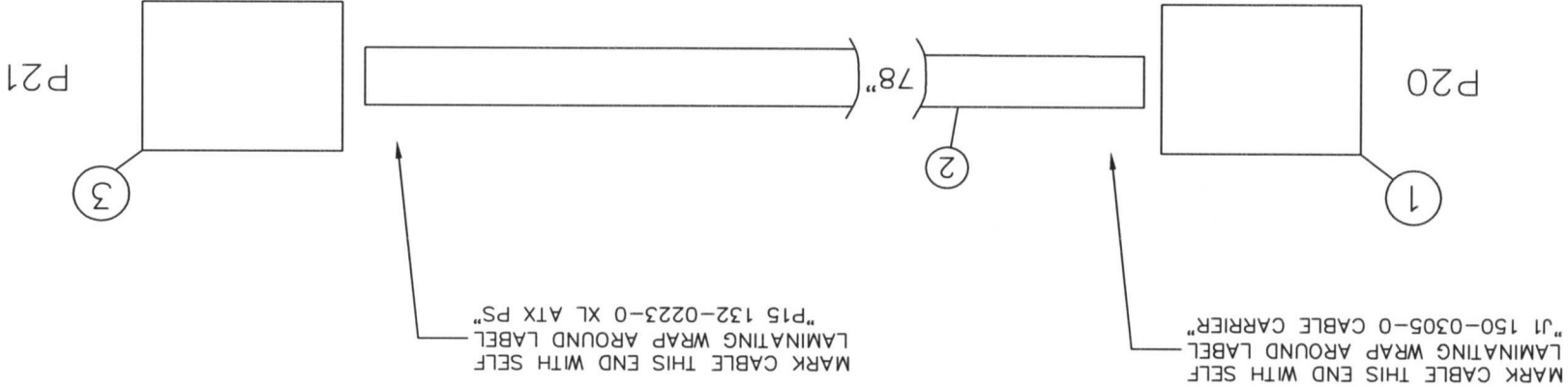
NOTES:

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- 3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF UL LISTING/RECOGNITION MUST BE SUPPLIED

APPROVALS	DATE	DRAWN	C RISSER	SERVICE	6-04	CHECKED	ENGINEERING	PRODUCTION	PROPRIETARY NOTE
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DO NOT SCALE DRAWING									
SCALE NONE									
SHEET 3 OF 4									
REV A									
D									
DRAWING NO. 132-0229-0									
TITLE XL HARNESS, ARM I/O									
Universal Laser Systems, Inc.									

WIRE LIST					
WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	
5	2	-	SHIELD	GND	P20-1
6	2	-	CENTER	VIDEO	P20-2
					P21-1
					P21-2

MATERIAL LIST				
ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	1	JOHNSON	135-3402-001	MMCX COAX CONNECTOR
2	78"	COONER	CW2040-3050 SR	HIGH FLEX COAX
3	1	CUI INC	RCP-023	RCA PHONO CONNECTOR MALE



NOTES:
1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2-ALL COMPONENTS MUST BE UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED

APPROVALS	DATE	6-04	C RISSE	UNIVERSAL LASER SYSTEMS, INC.
CHECKED	SERVICE			
ENGINEERING	PRODUCTION			
PROPERTY NOTE				
SIZE	D	132-0229-0	SCALE	NONE
DRAWING NO.	REV	A	SHEET	4 OF 4

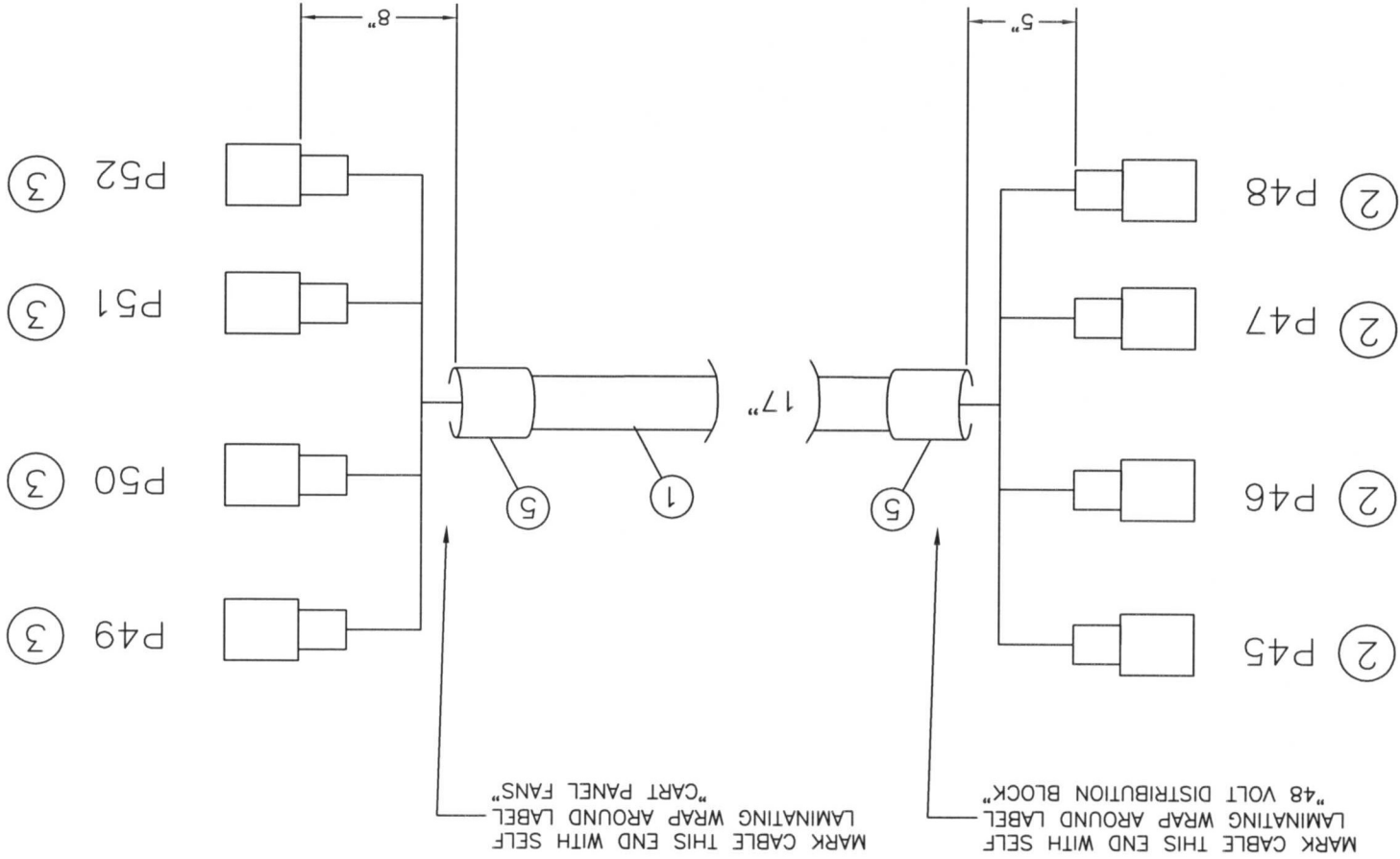
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ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	30"	ALPHA	1174C	4 WIRE JACKETED UL 2576
2	4	AMP	184265-1	LOW INSERTION FORCE .250 FASTON (NO SHIELD)
3	4	AMP	2-520081-2	FASTON
4	2	3M/ESM (OR UL EQUIV.)	FP-301 1/4" BL200'	HEATSHRINK FP301 1/4 X 1" BLK

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	1	22 AWG	BLK	+48V	P45	P49
2	1	22 AWG	RED	GND	P46	P50
3	1	22 AWG	WHT	+48V	P47	P51
4	1	22 AWG	GRN	GND	P48	P52

APPROVALS		DATE	DRAWN	C	RISSER	6-04	CHECKED	SERVICE	TIME	Universal Laser Systems, Inc.	
ENGINEERING		PRODUCTION	PROPERTY NOTE						XL CART PANEL FAN CONNECTOR		
SIZE	D	DRAWING NO.		132-0227-0		REV	B	DO NOT SCALE DRAWING			
SHEET		1 OF 2		NONE							

NOTES:
1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2-ALL COMPONENTS MUST BE UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED



REV	DATE	ECO	APP'D	DESCRIPTION OF CHANGE
A	11-05	ECO	CR	
B	12/05	1425	CAK	REMOVED LASER COMPARTMENT AUX FAN, THIS CABLE BECAME 131-0242-0

REVISIONS

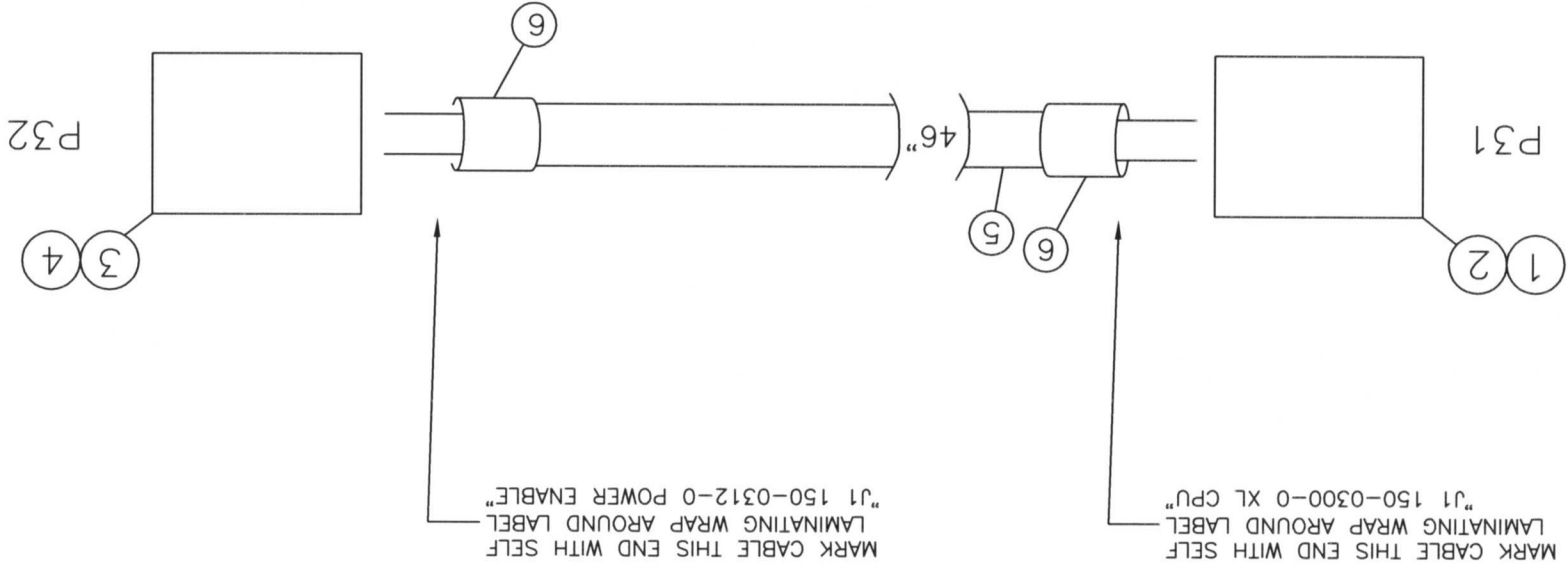
WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
20	5	22 AWG	BLK	+48V	P31-1	P32-1
21	5	22 AWG	RED	PS ENABLE	P31-2	P32-2

WIRE LIST

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	1	MOLEX	50-57-9402	CONN 2 POS
2	2	MOLEX	16-02-0103	SOCKET
3	1	MOLEX	43645-0200	CONN 2 POS
4	2	MOLEX	43030-0002	SOCKET
5	46"	ALPHA (OR UL EQUIV.)	1172C	2 WIRE JACKETED CABLE, UL 2094
6	2	3M/ESM (OR UL EQUIV.)	FP-301 1/4" BL200'	HEATSHRINK FP301 1/4 X 1" BLK

MATERIAL LIST

NOTES:
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3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED

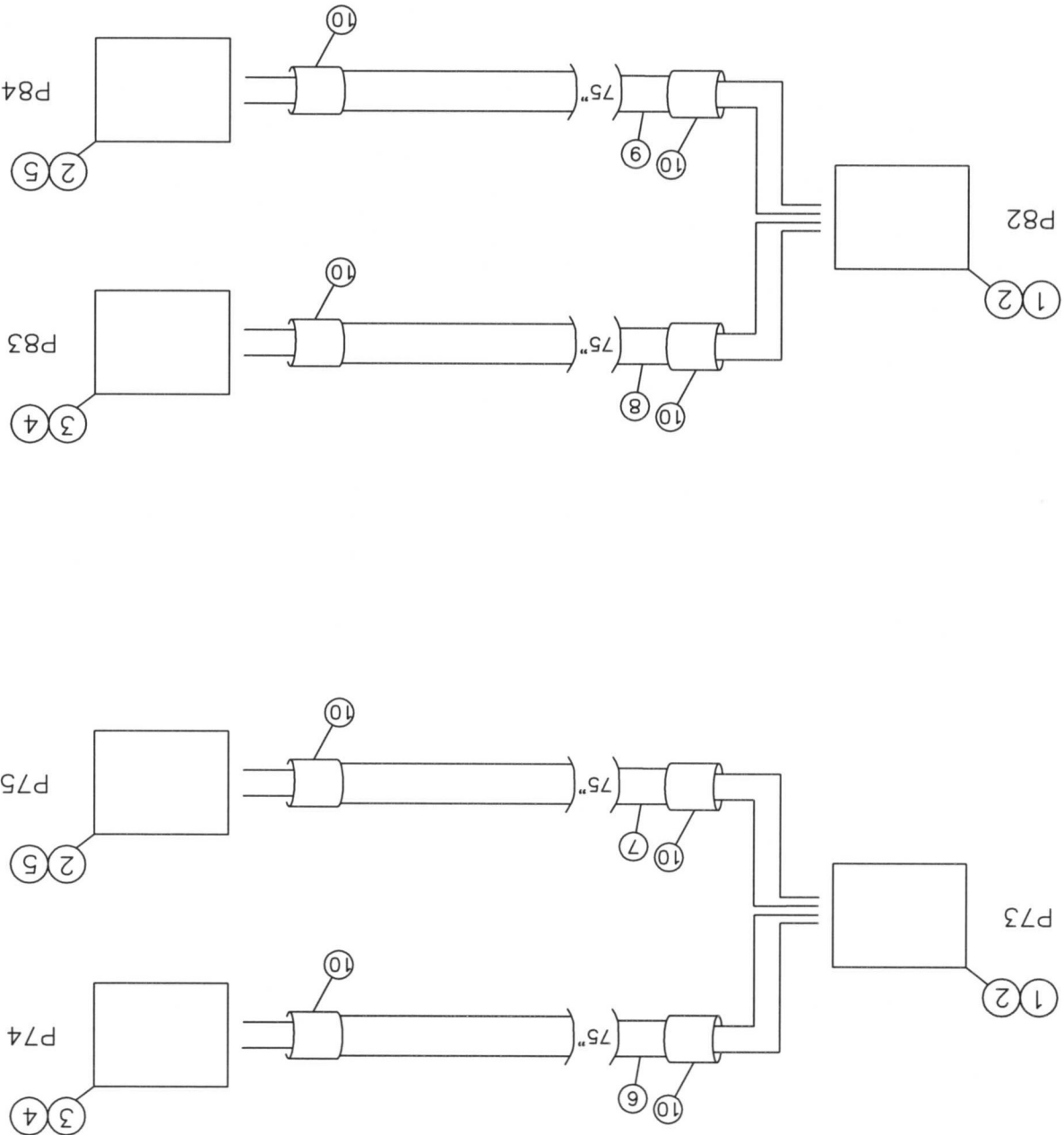


APPROVALS	DATE	DRAWN	C RISSEY	SERVICE	6-04	CHECKED	ENGINEERING	PRODUCTION	PROPRIETARY NOTE
Universal Laser Systems, Inc.									
TITLE									
XL POWER									
INHIBIT HARNESS									
SIZE									
B									
DRAWING NO.									
132-0227-0									
REV									
B									
SHEET									
2 OF 2									
SCALE									
NONE									
THIS DRAWING AND ANY DATA DISCLOSED HEREIN IS THE PROPERTY OF UNIVERSAL LASER SYSTEMS, INC. AND CONSTITUTES AND CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. NEITHER RECEIPT NOR POSSESSION OF THIS DRAWING CONFERES OR TRANSFERS ANY RIGHT TO DUPLICATE, USE, OR DISCLOSE ANY INFORMATION CONTAINED HEREON EXCEPT AS EXPRESSLY AUTHORIZED BY UNIVERSAL LASER SYSTEMS, INC.									

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	2	MOLEX	70107-0003	CONN 4 PIN SL
2	12	MOLEX	16-02-0115	PIN
3	2	MOLEX	50-57-9402	CONN 2 PIN SL
4	4	MOLEX	16-02-0087	SOCKET
5	2	MOLEX	70107-0001	CONN 2 PIN SL
6	75"	ALPHA (OR UL EQUIV.)	1172C	2 WIRE JACKETED CABLE, UL 2576
7	75"	ALPHA (OR UL EQUIV.)	1172C	2 WIRE JACKETED CABLE, UL 2576
8	75"	ALPHA (OR UL EQUIV.)	1172C	2 WIRE JACKETED CABLE, UL 2576
9	75"	ALPHA (OR UL EQUIV.)	1172C	2 WIRE JACKETED CABLE, UL 2576
10	12	3M/ESM (OR UL EQUIV.)	FP-301 1/4" BL200'	HEATSHRINK FP301 1/4 X 1" BLK

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	5	22 AWG	BLK	TOP	P73-1	P74-1
2	5	22 AWG	RED	TOP RETURN	P73-2	P74-2
3	6	22 AWG	BLK	FRONT	P73-3	P75-1
4	6	22 AWG	RED	FRONT RETURN	P73-4	P75-2
5	7	22 AWG	BLK	TOP	P82-1	P83-1
6	7	22 AWG	RED	TOP RETURN	P82-2	P83-2
7	8	22 AWG	BLK	FRONT	P82-3	P84-1
8	8	22 AWG	RED	FRONT RETURN	P82-4	P84-2

NOTES:
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2-ALL COMPONENTS MUST BE UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED



APPROVALS	DATE	DRAWN	CHECKED	ENGINEERING	PRODUCTION	PROPRIETARY NOTE			
	6-04	C RISSER				THIS DRAWING AND ANY DATA DISCLOSED THEREIN IS THE PROPERTY OF UNIVERSAL LASER SYSTEMS, INC. AND CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. NEITHER RECEIPT NOR POSSESSION OF THIS DRAWING CONVEYS OR TRANSFERS ANY RIGHT TO DISCLOSE, USE, OR DISCLOSE ANY INFORMATION CONTAINED HEREON EXCEPT AS EXPRESSLY AUTHORIZED BY UNIVERSAL LASER SYSTEMS, INC.			
UNIVERSAL LASER SYSTEMS, INC.		TITLE		SIZE		DRAWING NO.		REV	
		INTERLOCK SIDE PANEL		D		132-0228-0		C	
								SHEET 1 OF 2	
								SCALE NONE	
								DO NOT SCALE DRAWING	

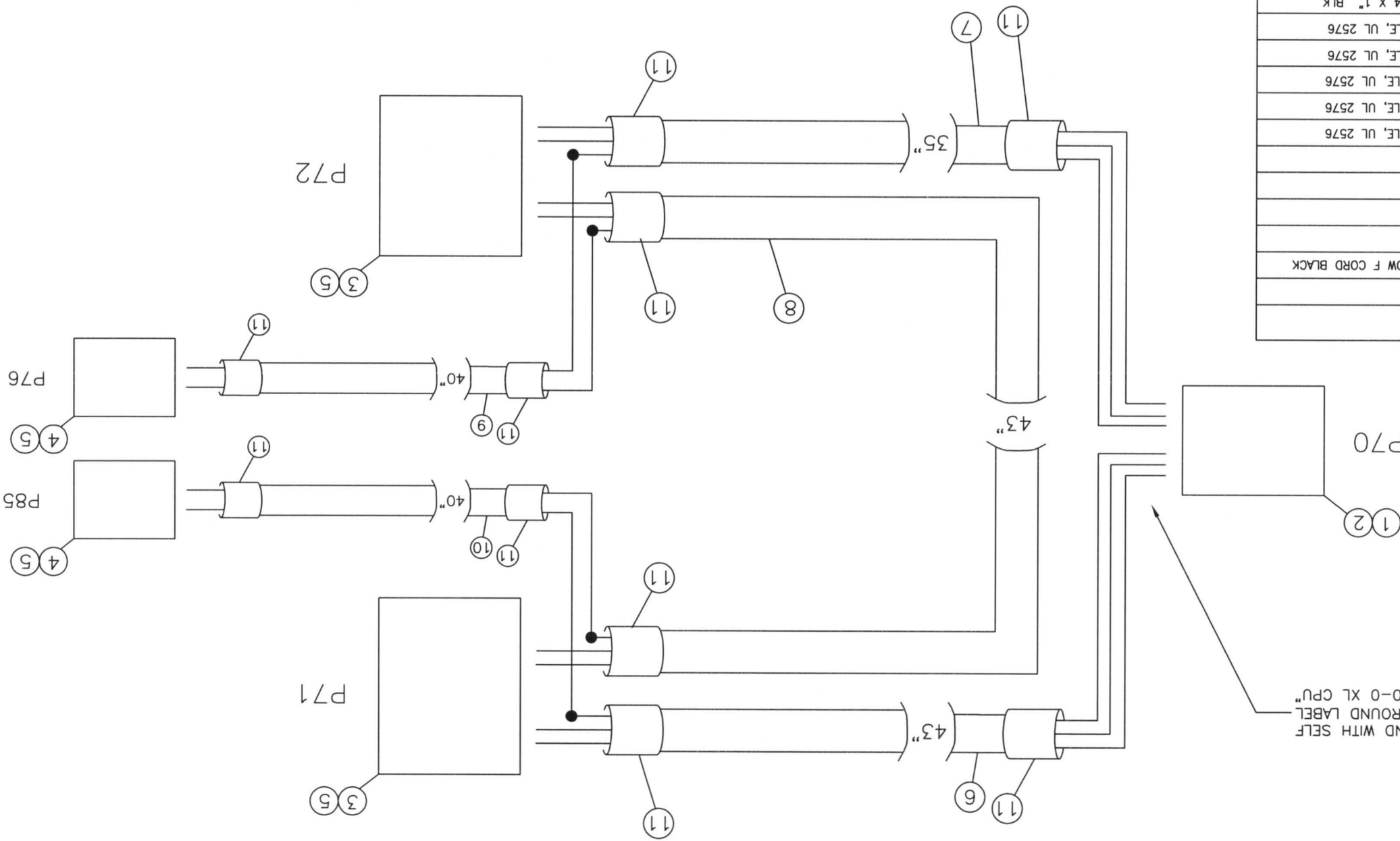
REVISIONS			
REV	DATE	ECO	APP'D
A	4-05	1313	CR
B	7/7/05	1371	GW
C	10/26/05	1405	GW

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	1	MOLEX	39-01-2065-BLACK	CONN 6 POS DUAL ROW F CORD BLACK
2	6	MOLEX	39-00-0038	SOCKET
3	2	MOLEX	50-57-9404	CONN 4 PIN SL
4	2	MOLEX	50-57-9402	CONN 2 PIN SL
5	12	MOLEX	16-02-0087	SOCKET
6	43"	ALPHA (OR UL EQUIV.)	1173C	3 WIRE JACKETED CABLE, UL 2576
7	35"	ALPHA (OR UL EQUIV.)	1173C	3 WIRE JACKETED CABLE, UL 2576
8	43"	ALPHA (OR UL EQUIV.)	1173C	3 WIRE JACKETED CABLE, UL 2576
9	40"	ALPHA (OR UL EQUIV.)	1172C	2 WIRE JACKETED CABLE, UL 2576
10	40"	ALPHA (OR UL EQUIV.)	1172C	2 WIRE JACKETED CABLE, UL 2576
11	10	3M/ESM (OR UL EQUIV.)	FP-301 1/4" BL200'	HEATSHRINK FP301 1/4 X 1" BLK
12	4	3M/ESM (OR UL EQUIV.)	FP-301 1/8" BL200'	HEATSHRINK FP301 1/8 X 1" BLK

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	5	22 AWG	BLK	TOP OUT	P70-3	P71-1
2	5	22 AWG	BLK	TOP RETURN	P70-4	P72-1
3	5	22 AWG	RED	FRONT OUT	P70-1	P71-3
4	6	26 AWG	RED	FRONT RETURN	P70-2	P72-3
5	6	22 AWG	WHT	REAR OUT	P70-5	P85-1
6	6	22 AWG	WHT	REAR RETURN	P70-6	P76-2
7	7	22 AWG	BLK	TOP CROSSOVER	P71-2	P72-2
8	7	22 AWG	RED	FRONT CROSSOVER	P71-4	P72-4
9	7	22 AWG	WHT	REAR CROSSOVER	P85-2	P76-1

MARK CABLE THIS END WITH SELF LAMINATING WRAP AROUND LABEL "J2 150-0300-0 XL CPU"

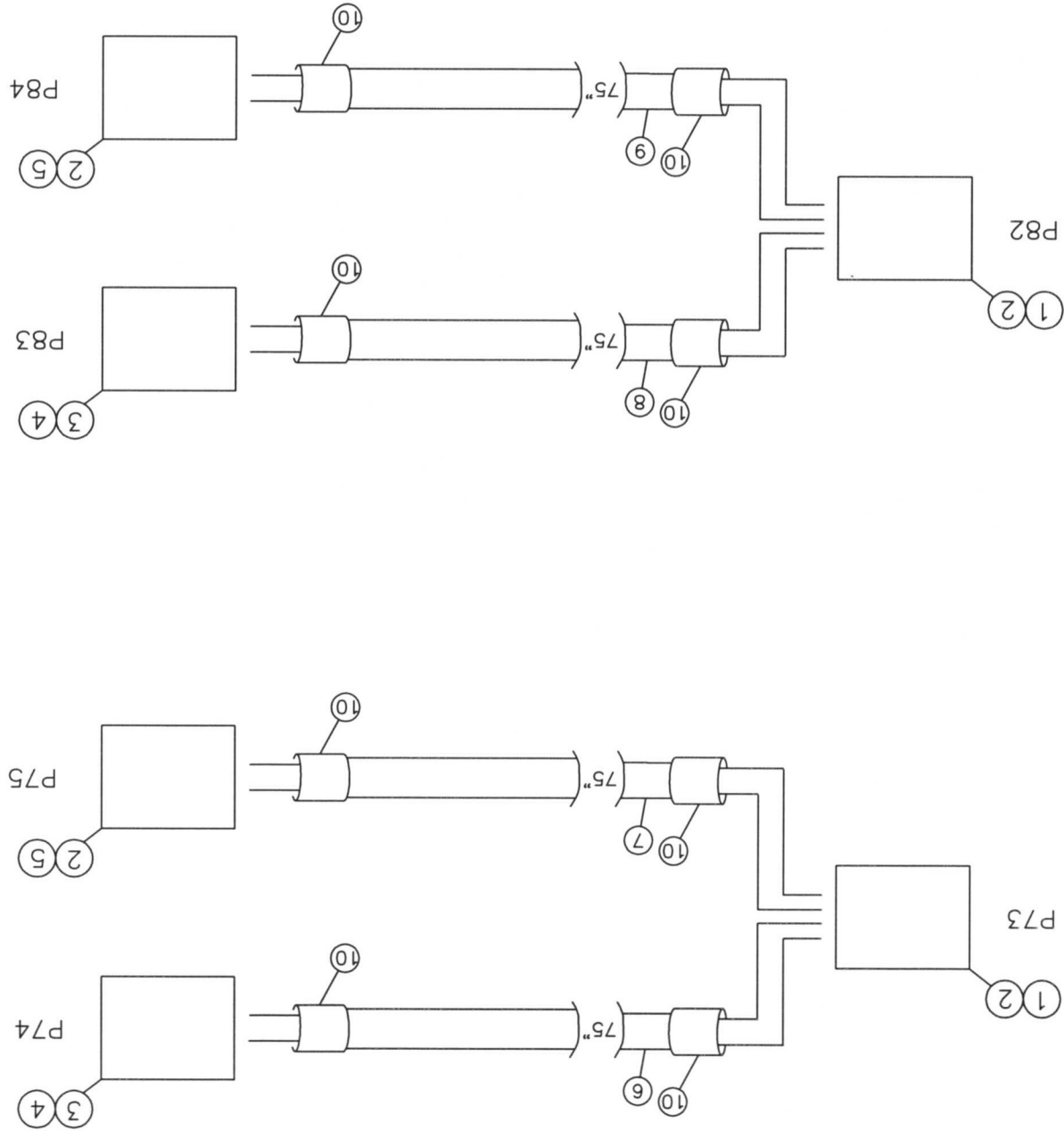
● INDICATES A SOLDER JOINT WITH 1/8 HEAT SHRINK (ITEM 12)



APPROVALS	DATE	CHECKED	SERVICE	ENGINEERING	PRODUCTION	PROPRIETARY NOTE
		C RISSE	6-04			THIS DRAWING AND ALL DATA PRESENTED HEREIN IS THE PROPERTY OF UNIVERSAL LASER SYSTEMS, INC. AND CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. NEITHER RECEIPT NOR DISSEMINATION OF THIS DRAWING CONFER OR TRANSFERS ANY RIGHT TO DUPLICATE, USE, OR DISCLOSE ANY INFORMATION CONTAINED HEREIN EXCEPT AS EXPRESSLY AUTHORIZED BY UNIVERSAL LASER SYSTEMS, INC.
UNIVERSAL LASER SYSTEMS, INC.						
TITLE						
XL-9200 HARNESS, MAIN INTERLOCK						
DRAWING NO.						
132-0228-0						
REV						
C						
SHEET 2 OF 2						
SCALE NONE						
DO NOT SCALE DRAWING						

NOTES:
1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2-ALL COMPONENTS MUST BE UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF UL LISTING/RECOGNITION MUST BE SUPPLIED

WIRE LIST						
WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	5	22 AWG	BLK	TOP	P73-1	P74-1
2	5	22 AWG	RED	TOP RETURN	P73-2	P74-2
3	6	22 AWG	BLK	FRONT	P73-3	P75-1
4	6	22 AWG	RED	FRONT RETURN	P73-4	P75-2
5	7	22 AWG	BLK	TOP	P82-1	P83-1
6	7	22 AWG	RED	TOP RETURN	P82-2	P83-2
7	8	22 AWG	BLK	FRONT	P82-3	P84-1
8	8	22 AWG	RED	FRONT RETURN	P82-4	P84-2



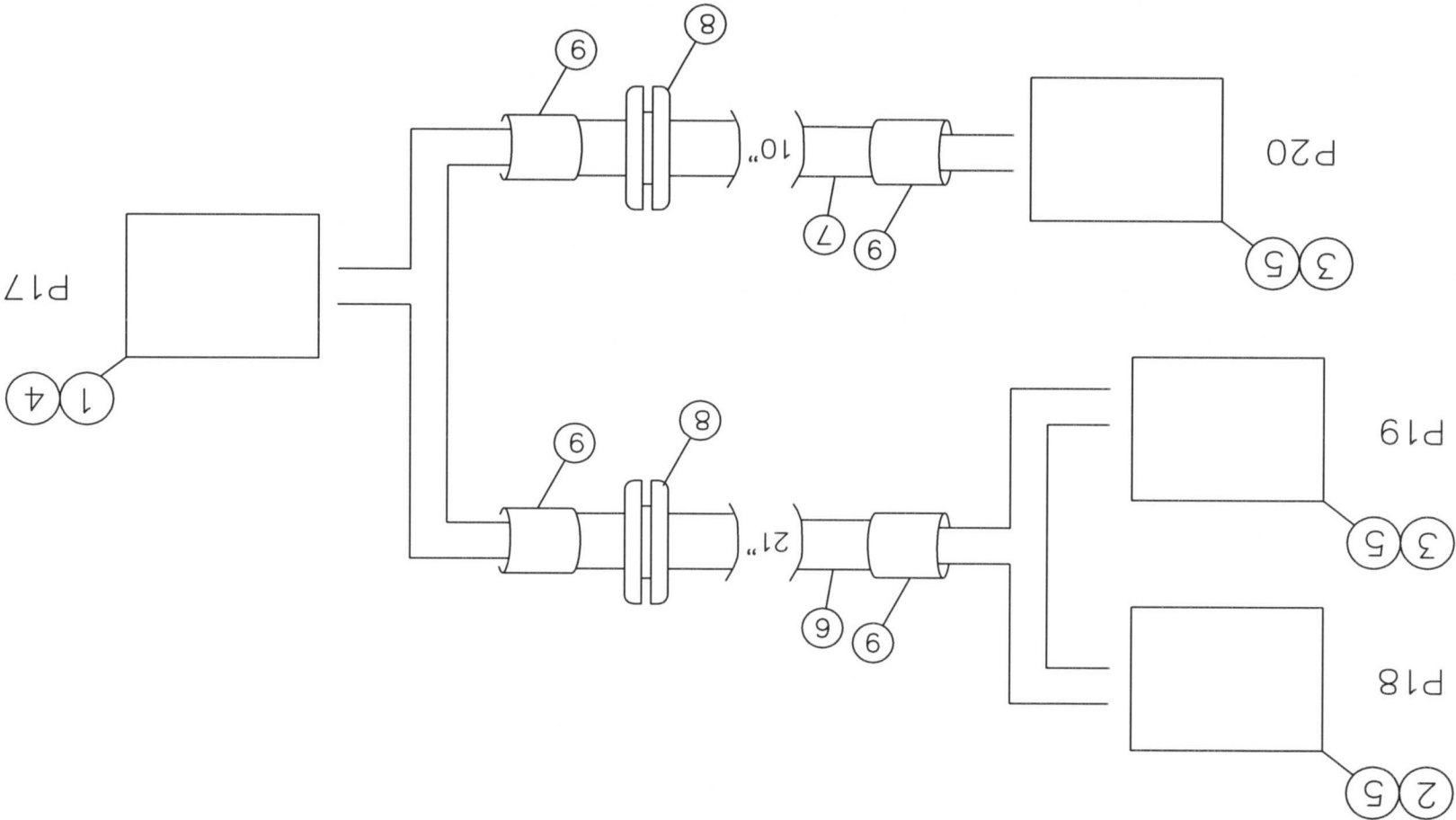
REVISIONS			
REV	DATE	ECO	APP'D
A	4-05		CR
B	7/7/05		GW
C	10/26/05		GW

APPROVALS	DATE
DRAWN	6-04
C RISSER	SERVICE
CHECKED	PRODUCTION
ENGINEERING	
PROPRIETARY NOTE	

D		DRAWING NO.		132-0228-1		C	
SIZE		REV					

WIRE LIST						
WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	7	22 AWG	RED	V BUS	P17-1	P20-1
2	7	22 AWG	WHI	DATA-	P17-2	P20-4
3	7	22 AWG	GRN	DATA+	P17-3	P20-3
4	7	22 AWG	BLK	GND	P17-4	P20-2
5	6	22 AWG	BLU	48V	P17-5	P18-1
6	6	22 AWG	ORG	E-STOP	P17-6	P18-2
7	6	22 AWG	RED	POWER LED+	P17-7	P19-3
8	6	22 AWG	BLK	POWER LED-	P17-8	P19-4
9	6	22 AWG	WHT	POWER KEY+	P17-9	P19-2
10	6	22 AWG	GRN	POWER KEY-	P17-10	P19-1

MATERIAL LIST			
ITEM #	QTY	MANUFACTURER	PART NUMBER
1	1	MOLEX	70107-0009
2	1	MOLEX	50-57-9402
3	2	MOLEX	50-57-9404
4	10	MOLEX	16-02-0115
5	10	MOLEX	16-02-0087
6	22"	ALPHA (OR UL EQUIV.)	1176C
7	10"	ALPHA (OR UL EQUIV.)	1176C
8	2	MC MASTER	9600K24
9	4	3M/ESM (OR UL EQUIV.)	FP-301 3/8" BL200'



NOTES:
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3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED

APPROVALS	DATE	12-04	C RISSE	CHECKED	SERVICE	12-04	PRODUCTION	ENGINEERING	PROPRIETARY NOTE
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DRAWN			TITLE			SIZE			
D			D			D			
132-0222-0			132-0222-0			132-0222-0			
REV			REV			REV			
NONE			NONE			NONE			
SCALE			SCALE			SCALE			
SHEET 1 OF 1			SHEET 1 OF 1			SHEET 1 OF 1			

Universal Laser Systems, Inc.
XL CONTROL PANEL
INTERNAL HARNESS

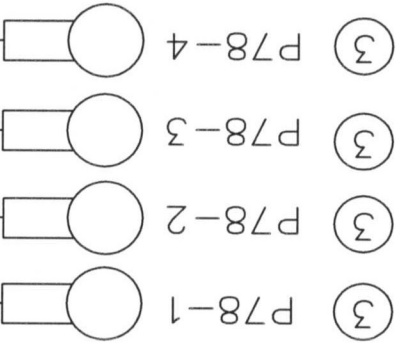
REVISIONS			
REV	DATE	ECO	APP'D

NOTES:
1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2-ALL COMPONENTS MUST BE ROHS COMPLIANT AND UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OFROHS COMPLIANCE AND
UL LISTING/RECOGNITION MUST BE SUPPLIED

PATH: V:\Mechanical\Drawing Archive\1xx-xxxx-x Assemblies\13x-xxxx-x Assemblies\132-0223-0 XL CPU Assy harness kit Rev B.dwg

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	1	MOLEX	39-01-2040-BLACK	CONN 4 POS DUAL ROW F CORD BLACK
2	2	MOLEX	39-00-0182	SOCKET
3	1	AMP	8-34144-1	RING TERMINAL #6 SCREW
4	-	-	-	RED, 18 AWG STRANDED, UL 1007
5	-	-	-	RED, 18 AWG STRANDED, UL 1007
6	-	-	-	BLK, 18 AWG STRANDED, UL 1007
7	-	-	-	BLK, 18 AWG STRANDED, UL 1007

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
20	4	18 AWG	RED	+48V	P77-1	P78-1
21	5	18 AWG	RED	+48V	P77-2	P78-2
22	6	18 AWG	BLK	GND	P77-3	P78-3
23	7	18 AWG	BLK	GND	P77-4	P78-4



④
⑤
⑥
⑦

MARK CABLE THIS END WITH SELF
LAMINATING WRAP AROUND LABEL
"J12 150-0300-0 XL CPU"

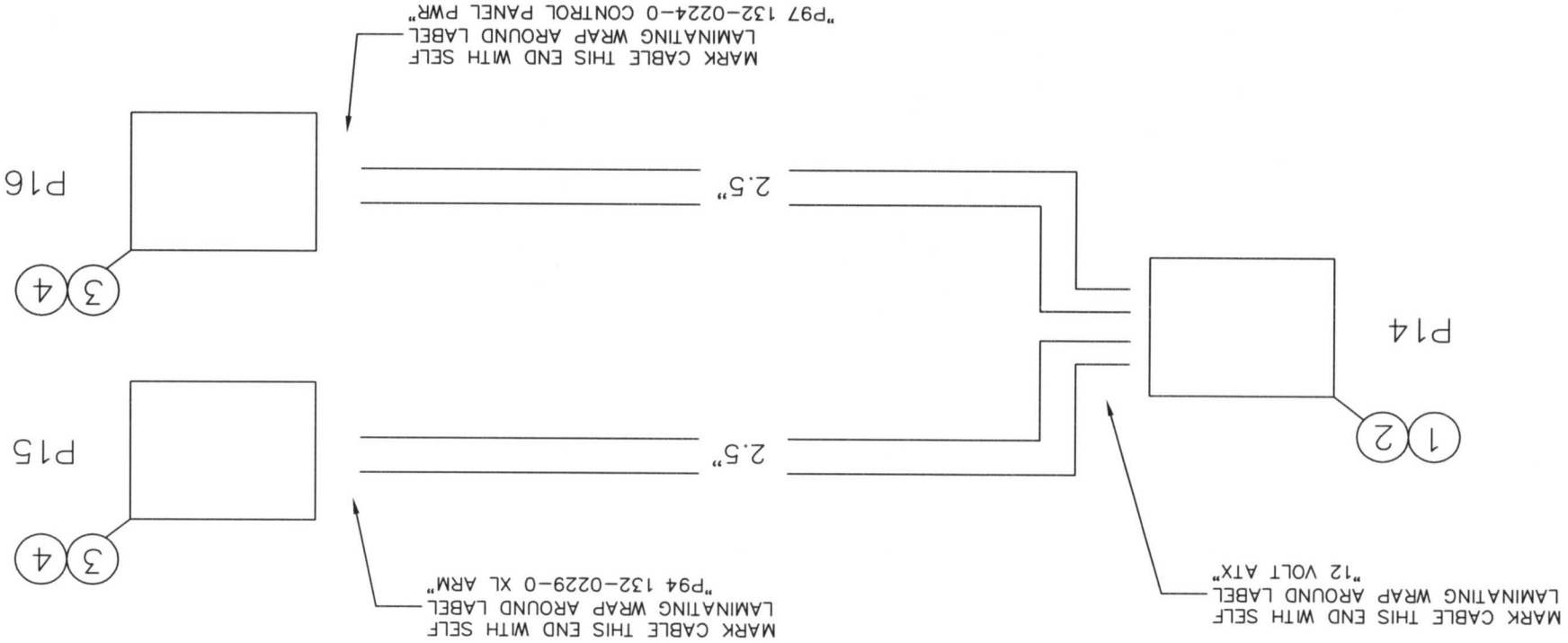
TIE WRAP EVERY 3 "

APPROVALS	DATE	DRAWN	C RISSER	SERVICE	6-04	CHECKED	ENGINEERING	PRODUCTION	PROPRIETARY NOTE
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UNIVERSAL Laser Systems, Inc.									
XL SERVO DRIVE									
POWER CABLE									
DRAWING NO. 132-0223-0									
REV C									
SCALE NONE									
SHEET 1 OF 3									

REVISIONS			
REV	DATE	ECO	APP'D
A	4-05	1313	CR
B	7/7/05	1371	GW
C	4-06	1467	CR

WIRE LIST						
WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	5	22 AWG	RED	+12V	P14-3	P15-1
2	6	22 AWG	BLK	GND	P14-1	P15-2
3	5	22 AWG	RED	+12V	P14-4	P16-1
4	6	26 AWG	BLK	GND	P14-2	P16-2

MATERIAL LIST						
ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION		
1	1	MOLEX	39-01-3043	CONNECTOR, 4 PIN DUAL ROW		
2	4	MOLEX	39-00-0041	PIN		
3	2	MOLEX	50-57-9402	CONN 2 PIN		
4	4	MOLEX	16-02-0087	SOCKET		
5	5"	-	-	RED, 22 AWG STRANDED, UL 1007		
6	5"	-	-	BLK, 22 AWG STRANDED, UL 1007		



NOTES:
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3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF ROHS COMPLIANCE AND UL LISTING/RECOGNITION MUST BE SUPPLIED

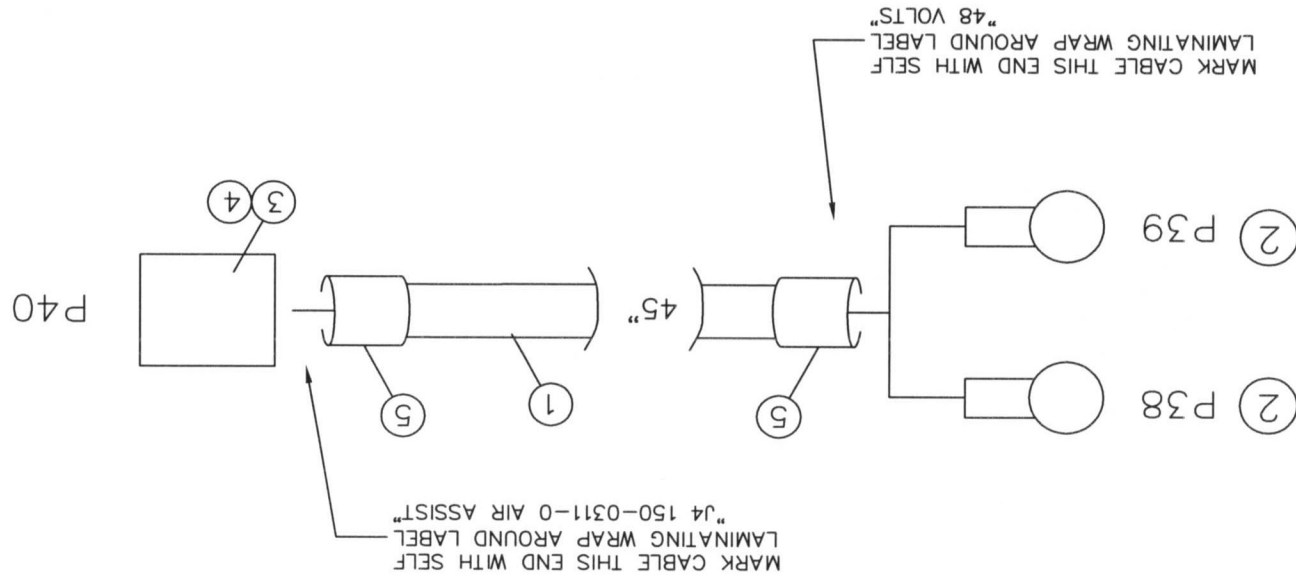
APPROVALS		DATE	DRAWN		C RISSER	6-04	CHECKED		SERVICE	ENGINEERING		PRODUCTION	PROPERTY NOTE	
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DO NOT SCALE DRAWING		SCALE		NONE		SHEET		2 OF 3		D 132-0223-0 DRAWING NO. C REV				
Universal Laser Systems, Inc.														
XL ATX POWER ADAPTER														

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PATH: V:\Mechanical\Drawing Archive\1xx-xxxx-x Assemblies\13x-xxxx-x Assemblies\132-0223-0 XL CPU Assy harness kit Rev B.dwg

MATERIAL LIST				
ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	45"	ALPHA	1172C	2 WIRE JACKETED UL 2576
2	2	AMP	8-34144-1	RING TERMINAL #6 SCREW
3	1	MOLEX	50-57-9402	CONN 2 PIN
4	2	MOLEX	16-02-0087	SOCKET
5	2	3M/ESM (OR UL EQUIV.)	FP-301 1/4" BL200'	HEATSHRINK FP301 1/4 X 1" BLK

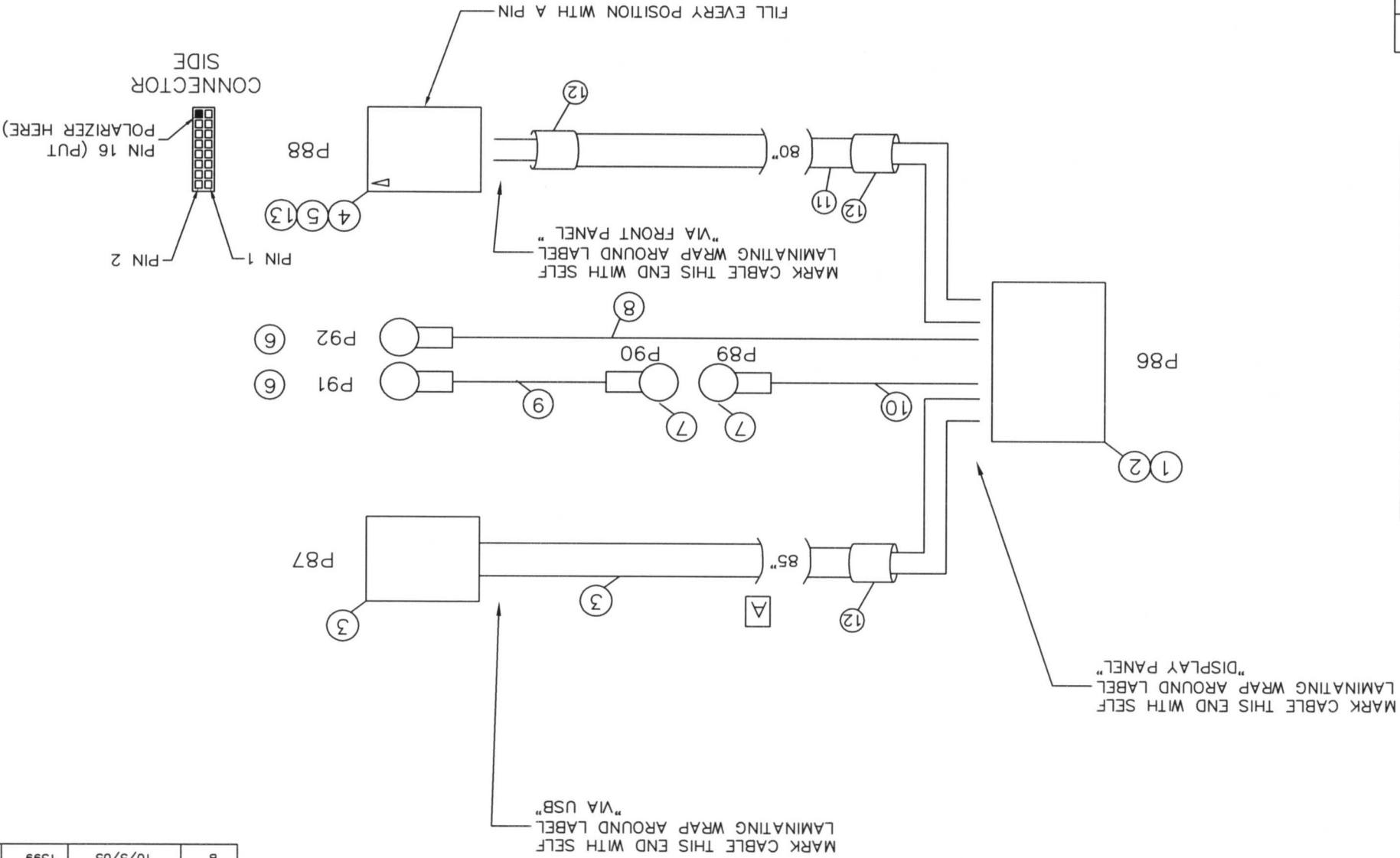
WIRE LIST						
WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	1	22 AWG	BLK	GND	P38	P40-2
2	1	22 AWG	RED	+48V	P39	P40-1



MATERIAL LIST			
ITEM #	QTY	MANUFACTURER	PART NUMBER
1	1	MOLEX	50-57-9410
2	10	MOLEX	16-02-0087
3	1	BELKIN	F3U139B10
4	1	MOLEX	22-55-2161
5	16	MOLEX	16-02-0087
6	2	AMP	8-34144-1
7	2	AMP	130017
8	132"	-	-
9	45"	-	-
10	95"	-	-
11	80"	ALPHA (OR UL EQUIV.)	1174C
12	3	3M/ESM (OR UL EQUIV.)	FP-301 1/4" BL200'
13	1	MOLEX	15-04-0292
UNIVERSAL POLARIZING PIN			

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	5	24 AWG	RED	V BUS	P86-1	P87-1
2	5	24 AWG	WHI	DATA-	P86-2	P87-2
3	6	24 AWG	GRN	DATA+	P86-3	P87-3
4	6	24 AWG	BLK	GND	P86-4	P87-4
5	7	22 AWG	RED	E-STOP	P86-5	P92
6	7	22 AWG	WHI	E-STOP RETURN	P86-6	P89
7	10	22 AWG	RED	POWER LED+	P86-7	P88-4
8	5	22 AWG	BLK	POWER LED-	P86-8	P88-6
9	6	22 AWG	WHI	POWER KEY+	P86-9	P88-5
10	6	22 AWG	GRN	POWER KEY-	P86-10	P88-7
11	9	22 AWG	RED	48V	P90	P91

NOTES:
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2-ALL COMPONENTS MUST BE UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED



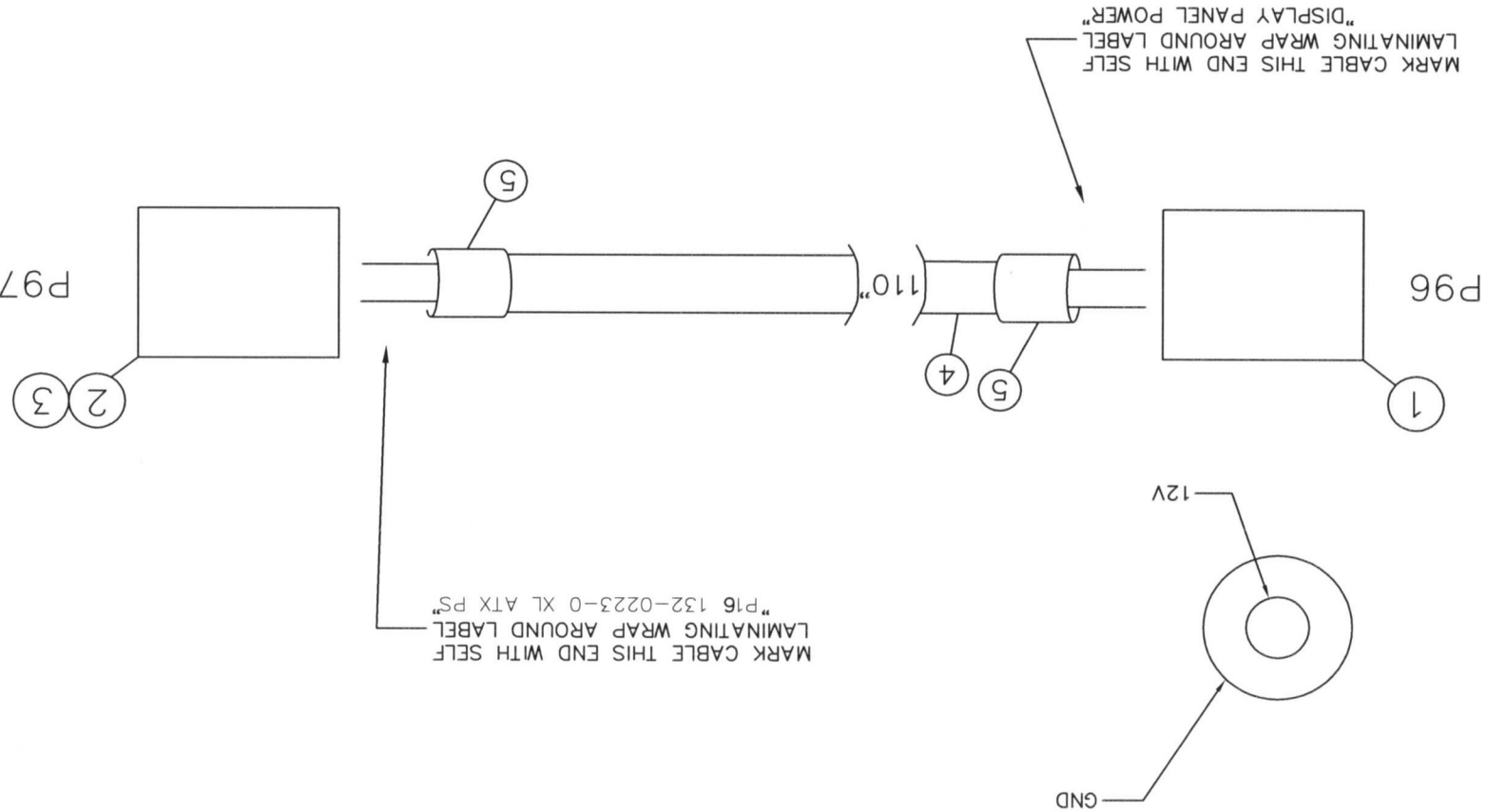
APPROVALS		DATE
DRAWN	C. RISSER	6-04
CHECKED		
ENGINEERING		
PROPERTY NOTE		
SIZE	D	
DRAWING NO.	132-0224-0	
REV		
DO NOT SCALE DRAWING		
SCALE	NONE	
SHEET	2 OF 3	

REVISIONS			
REV	DATE	ECO	APP'D
A	5/12/05	CAK	
B	10/5/05	GW	

NOTES:
1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2-ALL COMPONENTS MUST BE UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	1	CUI	PP-002A	BARREL CONN 5.5mm OD 2.1mm ID
2	1	MOLEX	70107-0001	CONN 2 POS
3	2	MOLEX	16-02-0115	PIN
4	110"	ALPHA (OR UL EQUIV.)	1172C	2 WIRE JACKETED CABLE, UL 2576
5	2	3M/ESM (OR UL EQUIV.)	FP-301 1/4" BL200'	HEATSHRINK FP301 1/4 X 1" BLK

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
20	4	22 AWG	RED	+12 V	P96-INNER	P97-1
21	4	22 AWG	BLK	GND	P96-OUTER	P97-2

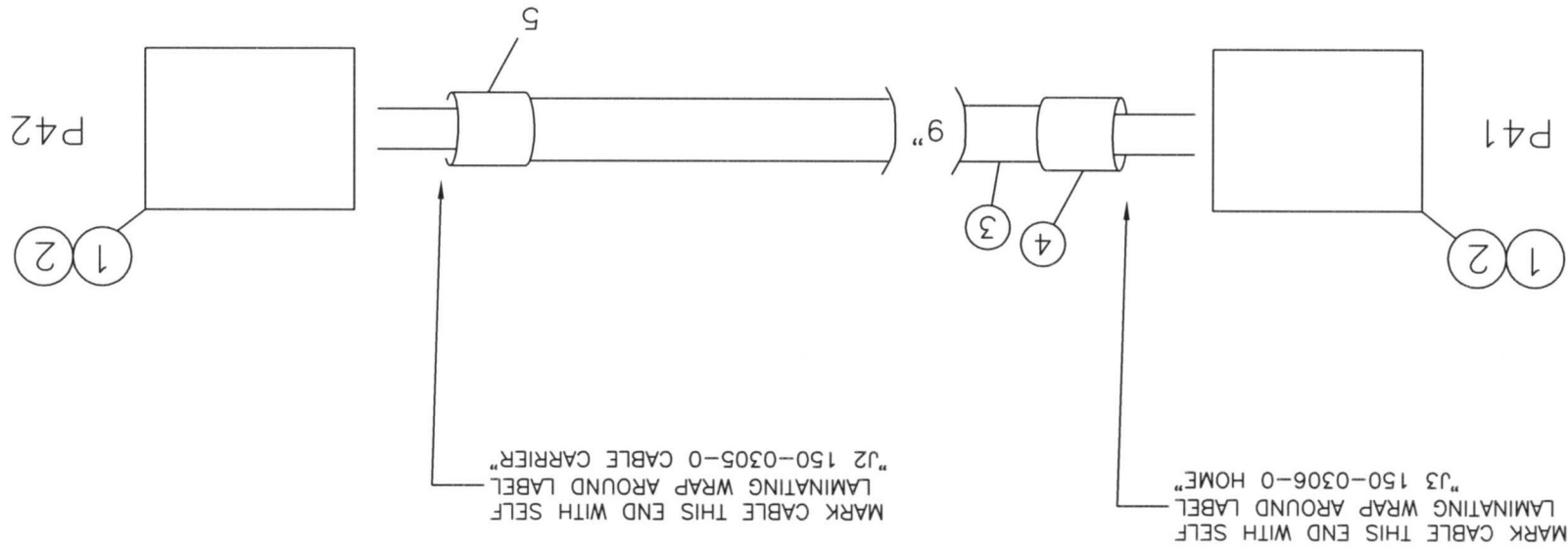


APPROVALS		DATE	Universal Laser Systems, Inc.	TITLE	XL HARNESS CONTROL PANEL POWER	SIZE	B	DRAWING NO.	REV	C	SCALE	NONE	SHEET	3	OF	3	INFORMATION CONTAINED HEREIN EXCEPT AS EXPRESSLY AUTHORIZED BY UNIVERSAL LASER SYSTEMS, INC. NO RIGHT TO DUPLICATE, USE, OR DISCLOSE ANY POSSESSION OF THIS DRAWING CONFERRED OR TRANSFERS CONFIDENTIAL INFORMATION. NEITHER RECEIPT NOR POSSESSION OF THIS DRAWING CONFERRED OR TRANSFERS CONFIDENTIAL INFORMATION. NEITHER RECEIPT NOR POSSESSION OF THIS DRAWING CONFERRED OR TRANSFERS CONFIDENTIAL INFORMATION. NEITHER RECEIPT NOR POSSESSION OF THIS DRAWING CONFERRED OR TRANSFERS CONFIDENTIAL INFORMATION. NEITHER RECEIPT NOR POSSESSION OF THIS DRAWING CONFERRED OR TRANSFERS CONFIDENTIAL INFORMATION. NEITHER RECEIPT NOR POSSESSION OF THIS DRAWING CONFERRED OR TRANSFERS CONFIDENTIAL INFORMATION. NEITHER RECEIPT NOR POSSESSION OF THIS DRAWING CONFERRED OR TRANSFERS CONFIDENTIAL INFORMATION. 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REVISIONS			
REV	DATE	ECO	APP'D
A	5/12/05	1338	CAK
B	10/5/05	1399	GW

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	3	22 AWG	RED	+12V	P41-1	P42-1
2	3	22 AWG	BLK	GND	P41-2	P42-2
3	3	22 AWG	WHT	EOT	P41-3	P42-3
4	3	22 AWG	GRN	Y HOME	P41-4	P42-4
5	3	22 AWG	ORG	X HOME	P41-5	P42-5
6	3	22 AWG	BLU	FOCUS/COLLISION DETECT	P41-6	P42-6
7	3	22 AWG	BRN	CARRIAGE - RX	P41-7	P42-7
8	3	22 AWG	YEL	CARRIAGE - TX	P41-8	P42-8
9	3	22 AWG	VLT	VIDEO	P41-9	P42-9
10	3	22 AWG	GRY	VIDEO SHIELD	P41-10	P42-10

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	2	SAMTEC	IPD1-05-D	CONN 10 PIN DUAL ROW
2	20	SAMTEC	C-179-01-L	SOCKET
3	9"	ALPHA (OR UL EQUIV.)	1180C	10 WIRE JACKETED CABLE, UL 2576
4	4	3M/ESM (OR UL EQUIV.)	FP-301 3/8" BL200'	HEATSHRINK FP301 3/8 X 1" BLK



NOTES:
1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2-ALL COMPONENTS MUST BE UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED

APPROVALS	DATE	DRAWN	C RISSER	12-04	CHECKED	SERVICE	ENGINEERING	PRODUCTION	PROPRIETARY NOTE
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UNIVERSAL LASER SYSTEMS, INC.									
TITLE									
XL HOME BOARD TO CABLE CARRIER HARNESS									
DRAWING NO. 132-0225-0									
REV									
DO NOT SCALE DRAWING									
SCALE NONE									
SHEET 1 OF 1									

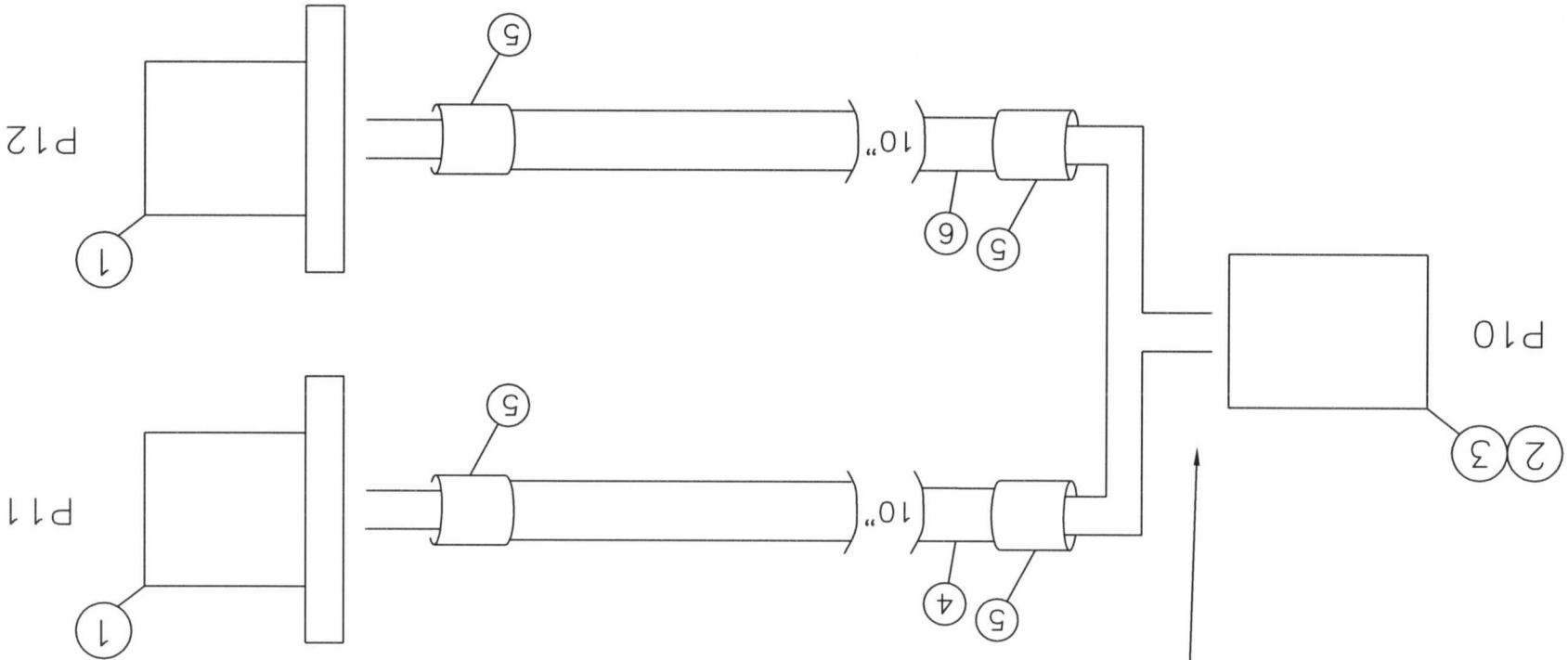
REV	DATE	ECO	APP'D

NOTES:
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2-ALL COMPONENTS MUST BE UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	2	CONXALL	17282-2SG-300	CONN 2 POS PANEL MOUNT
2	4	MOLEX	16-02-0087	SOCKET
3	1	MOLEX	50-57-9404	CONN 4 POS
4	10"	ALPHA (OR UL EQUIV.)	1172C	2 WIRE JACKETED CABLE, UL 2094
5	4	3M/ESM (OR UL EQUIV.)	FP-301 1/4" BL200'	HEATSHRINK FP301 1/4 X 1" BLK
6	10"	ALPHA (OR UL EQUIV.)	1172C	2 WIRE JACKETED CABLE, UL 2094

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
20	5	22 AWG	RED	COMPRESSOR ENABLE	P10-1	P11-2
21	5	22 AWG	BLK	COMPRESSOR RETURN	P10-2	P11-1
22	6	22 AWG	RED	BLOWER ENABLE	P10-3	P12-2
23	6	22 AWG	BLK	BLOWER RETURN	P10-4	P12-1

MARK CABLE THIS END WITH SELF
LAMINATING WRAP AROUND LABEL
"J7 150-0311-0 AIR ASSIST"



NOTES:
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2-ALL COMPONENTS MUST BE UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	1	MOLEX	50-57-9406	CONN 6 POS
2	4	MOLEX	16-02-0103	PIN
3	2	JST	XHP- 7	CONN 7 POS
4	8	JST	SXH-001T-P0.6	PIN
5	36"	-	-	PUR, 22 AWG STRANDED, UL 1007
6	18"	-	-	RED, 22 AWG STRANDED, UL 1007
7	18"	-	-	BLK, 22 AWG STRANDED, UL 1007

MATERIAL LIST

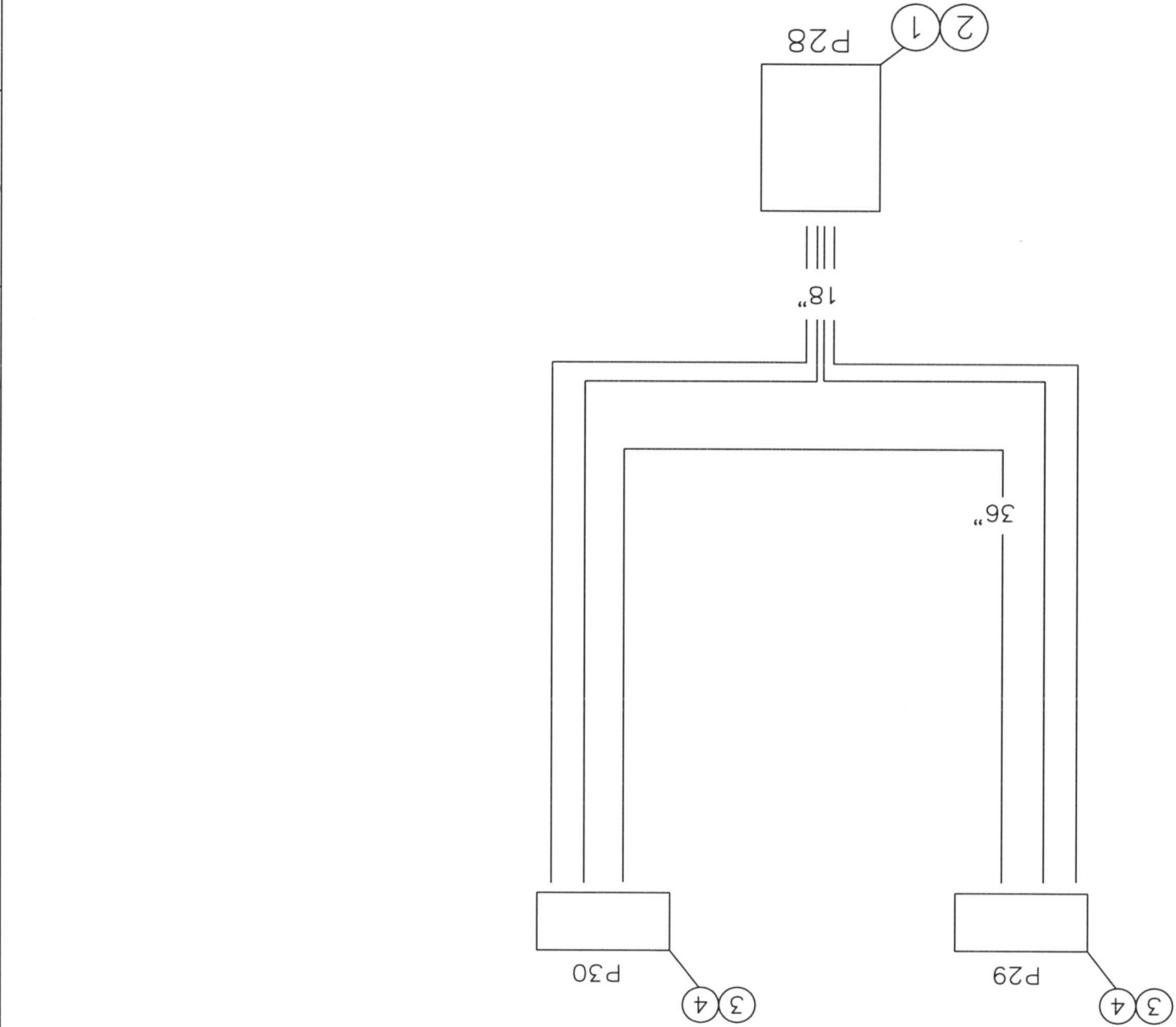
WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
20	7	22 AWG	BLK	PS ENABLE RETURN	P28-1	P29-3
21	6	22 AWG	RED	PS ENABLE	P28-2	P29-5
22	7	22 AWG	BLK	PS ENABLE RETURN	P28-4	P30-3
23	6	22 AWG	RED	PS ENABLE	P28-5	P30-5
24	5	22 AWG	PUR	CURRENT SHARE	P29-2	P30-2

WIRE LIST

APPROVALS	DATE
DRAWN	
CHECKED	
ENGINEERING	
PRODUCTION	
PROPRIETARY NOTE	

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UNIVERSAL LASER SYSTEMS, INC.	TITLE	XL 60 WATT POWER INHIBIT HARNESS
SIZE	B	DRAWING NO.
REV	A	132-0215-0
SCALE	NONE	SHEET 1 OF 1

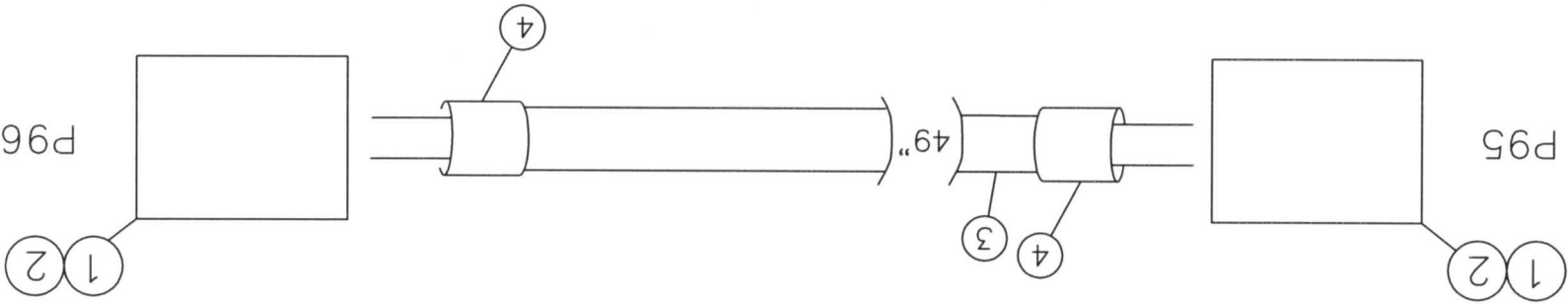


REVISIONS	REV	DATE	ECO	APP'D	CR
	A	11-04	1289		

MATERIAL LIST					
ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION	
1	2	MOLEX	50-57-9404	CONN 4 PIN	
2	6	MOLEX	16-02-0087	PIN	
3	49"	ALPHA (OR UL EQUIV.)	1173C	3 WIRE JACKETED CABLE, UL 2576	
4	2	3M/ESM (OR UL EQUIV.)	FP-301 1/4" BL200'	HEATSHRINK FP301 1/4 X 1" BLK	

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	3	22 AWG	BLK	+5V	P95-1	P96-1
2	3	22 AWG	RED	GND	P95-2	P96-2
3	3	22 AWG	NAT	EOT	P95-3	P96-3

WIRE LIST



NOTES:
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2-ALL COMPONENTS MUST BE UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED

APPROVALS		DATE	DRAWN		C RISSER	6-04	CHECKED	SERVICE	TITLE	Universal Laser Systems, Inc.	
ENGINEERING		PRODUCTION	PROPRIETARY NOTE								
SIZE		DRAWING NO.		D		132-0216-0		REV		A	
DO NOT SCALE DRAWING		SCALE		NONE		SHEET		1 OF 1			

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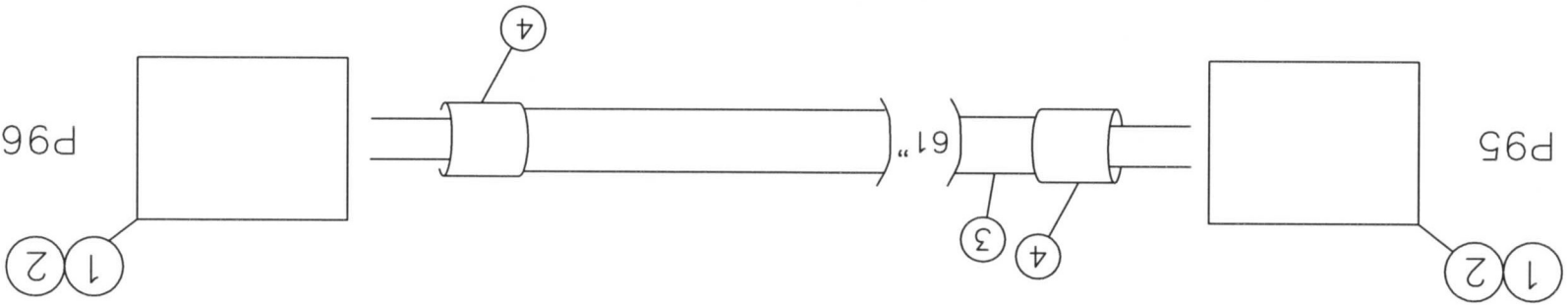
REVISIONS			
REV	DATE	ECO	APP'D
A	10-04	1241	CR

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	2	MOLEX	50-57-9404	CONN 4 PIN
2	6	MOLEX	16-02-0087	PIN
3	61"	ALPHA (OR UL EQUIV.)	1173C	3 WIRE JACKETED CABLE, UL 2576
4	2	3M/ESM (OR UL EQUIV.)	FP-301 1/4" BL200'	HEATSHRINK FP301 1/4 X 1" BLK

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	3	22 AWG	BLK	+5V	P95-1	P96-1
2	3	22 AWG	RED	GND	P95-2	P96-2
3	3	22 AWG	NAT	EOT	P95-3	P96-3

APPROVALS	DATE	DRAWN	C RISSE	6-04	CHECKED	SERVICE	ENGINEERING	PRODUCTION	PROPRIETARY NOTE
UNIVERSAL LASER SYSTEMS, INC.									
TITLE									
XL-12000 EOT HARNESS									
REV	A								
SIZE	D								
DRAWING NO.	132-0216-1								
SCALE	NONE								
SHEET	1 OF 1								

NOTES:
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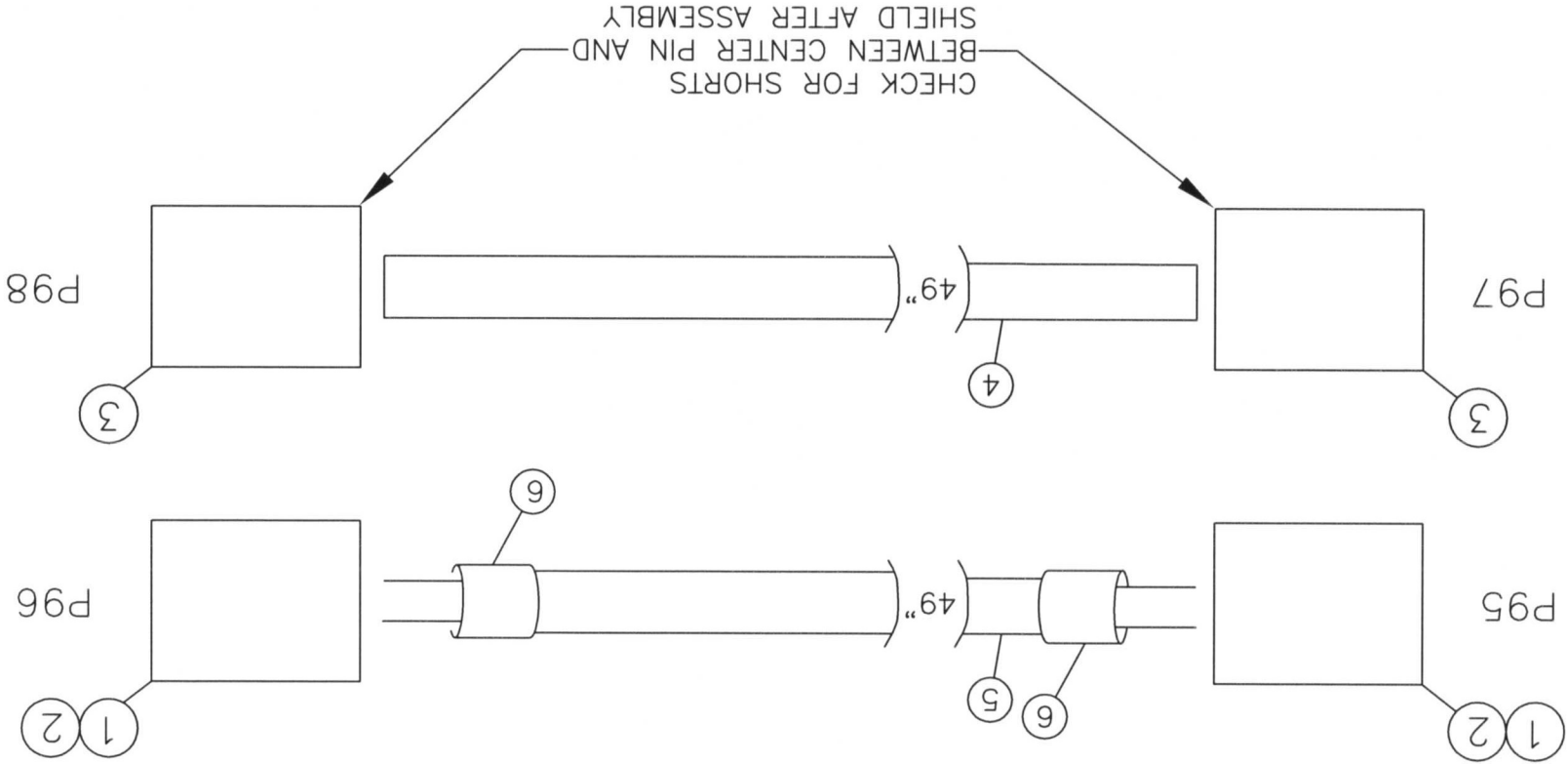
REVISIONS			
REV	DATE	ECO	APP'D
A	10-04	1241	CR

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	2	HRS	DF11-4DS-2C	CONN 4 PIN DUAL ROW
2	4	HRS	DF11-22SC	PIN
3	2	JOHNSON	135-3402-001	MMCX COAX CONNECTOR
4	49"	COONER	CW2040-3050 SR	HIGH FLEX COAX
5	49"	COONER	NMEF 4/2-4044 SJ	HIGH FLEX 4 WIRE JACKETED CABLE
6	2	3M/ESM (OR UL EQUIV.)	FP-301 1/4" BL200'	HEATSHRINK FP301 1/4 X 1" BLK

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	3	28 AWG	GRN	CARRIAGE RX	P95-1	P96-1
2	3	28 AWG	RED	12V	P95-2	P96-2
3	3	28 AWG	WHT	CARRIAGE TX	P95-3	P96-3
4	4	28 AWG	BLK	GND	P95-4	P96-4
5	4	-	SHIELD	GND	P97-1	P98-1
6	4	-	CENTER	VIDEO	P97-2	P98-2

APPROVALS	DATE	DRAWN	C RISSE	SERVICE	9-04	CHECKED	DATE	UNIVERSAL Laser Systems, Inc.	TITLE	XL-9200 CARRIAGE HARNESS	PROPRIETARY NOTE	SIZE	D	DRAWING NO.	132-0217-0	REV	B
DO NOT SCALE DRAWING																	
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SCALE NONE																	
SHEET 1 OF 1																	

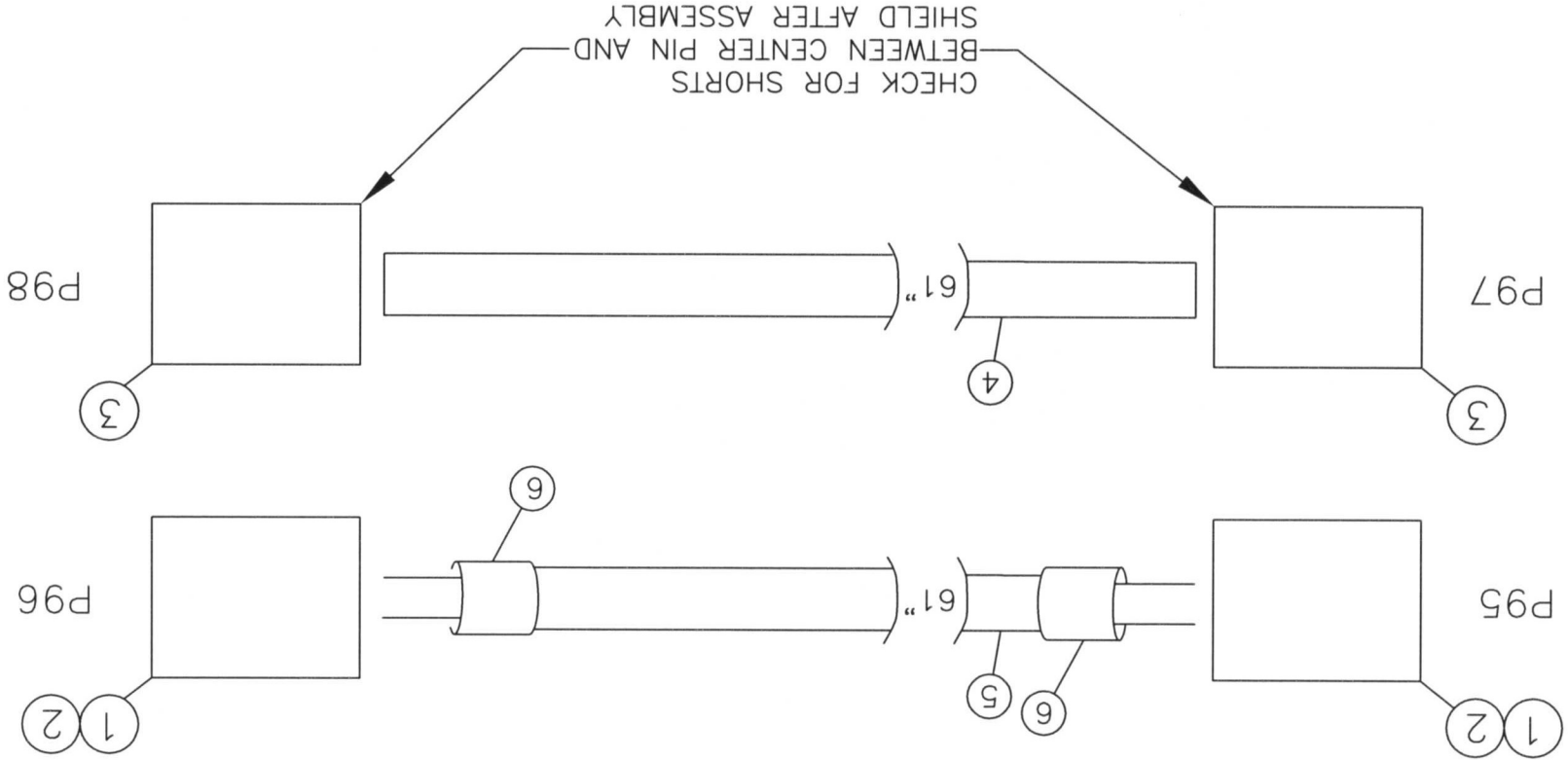
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REVISIONS			
REV	DATE	ECO	APP'D
A	11-04	1289	CR
B	3-05	1298	CR

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	2	HRS	DF11-4DS-2C	CONN 4 PIN DUAL ROW
2	4	HRS	DF11-22SC	PIN
3	2	JOHNSON	135-3402-001	MMCX COAX CONNECTOR
4	61"	COONER	CW2040-3050 SR	HIGH FLEX COAX
5	61"	COONER	NMEF 4/2-4044 SJ	HIGH FLEX 4 WIRE JACKETED CABLE
6	2	3M/ESM (OR UL EQUIV.)	FP-301 1/4" BL200'	HEATSHRINK FP301 1/4 X 1" BLK

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	3	28 AWG	GRN	CARRIAGE RX	P95-1	P96-1
2	3	28 AWG	RED	12V	P95-2	P96-2
3	3	28 AWG	WHT	CARRIAGE TX	P95-3	P96-3
4	4	28 AWG	BLK	GND	P95-4	P96-4
5	4	-	SHIELD	GND	P97-1	P98-1
6	4	-	CENTER	VIDEO	P97-2	P98-2



NOTES:
1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2-ALL COMPONENTS MUST BE UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED

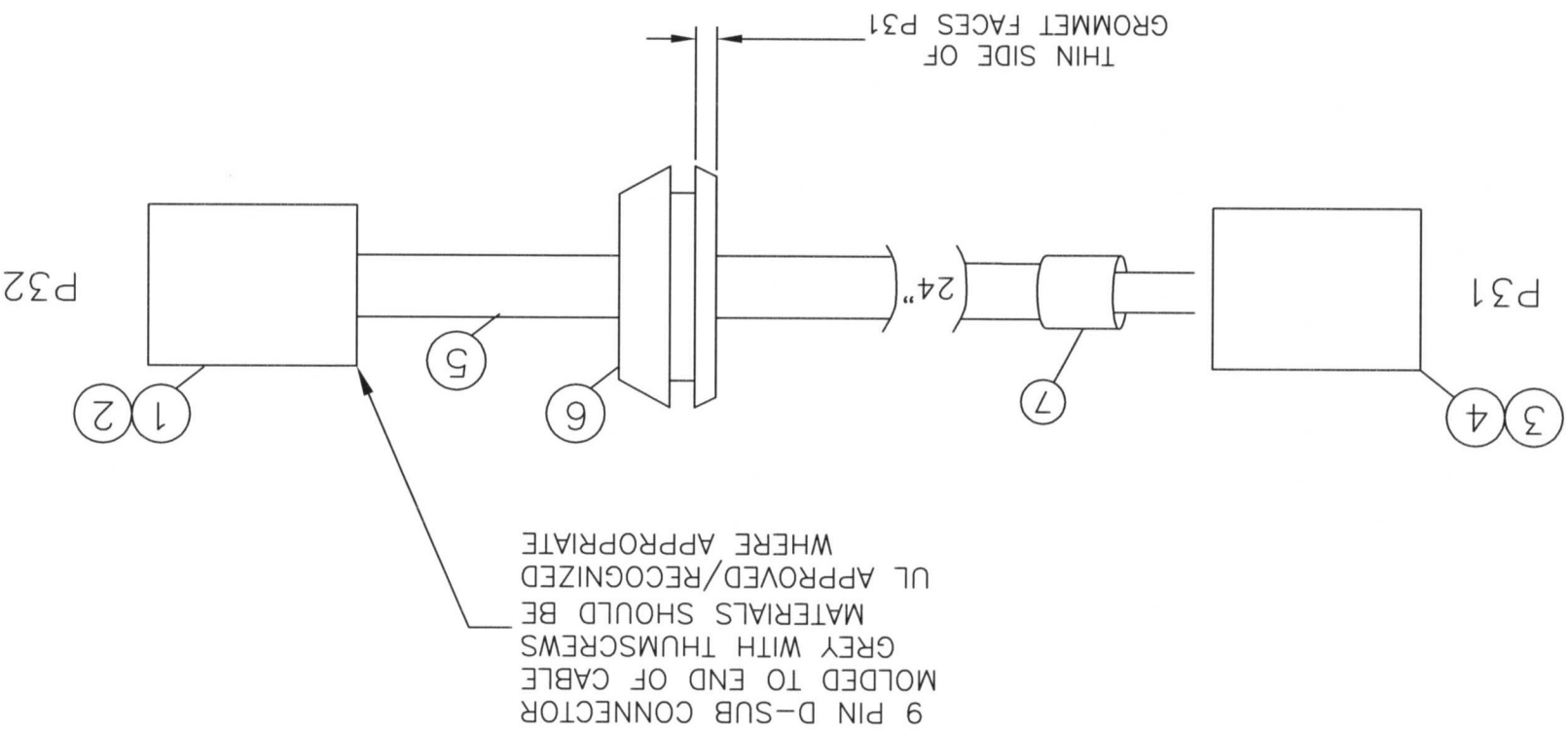
APPROVALS	DATE	DRAWN	C RISSE	SERVICE	DATE	9-04	CHECKED	DATE	9-04	ENGINEERING	DATE	9-04	PRODUCTION	DATE	9-04	PROPERTY NOTE	DATE	9-04	REVISIONS	DATE	9-04	REV	B
UNIVERSAL LASER SYSTEMS, INC.	DATE	9-04	C RISSE	SERVICE	DATE	9-04	CHECKED	DATE	9-04	ENGINEERING	DATE	9-04	PRODUCTION	DATE	9-04	PROPERTY NOTE	DATE	9-04	REVISIONS	DATE	9-04	REV	B
UNIVERSAL LASER SYSTEMS, INC.	DATE	9-04	C RISSE	SERVICE	DATE	9-04	CHECKED	DATE	9-04	ENGINEERING	DATE	9-04	PRODUCTION	DATE	9-04	PROPERTY NOTE	DATE	9-04	REVISIONS	DATE	9-04	REV	B
UNIVERSAL LASER SYSTEMS, INC.	DATE	9-04	C RISSE	SERVICE	DATE	9-04	CHECKED	DATE	9-04	ENGINEERING	DATE	9-04	PRODUCTION	DATE	9-04	PROPERTY NOTE	DATE	9-04	REVISIONS	DATE	9-04	REV	B

REV	DATE	ECO	AP'D
A	11-04	1289	CR
B	3-05	1298	CR

NOTES:
1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2-ALL COMPONENTS MUST BE UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	1	FCT ELECTRONICS	152-FM7W2P	7W2 D-SUB CONNECTOR
2	2	FCT ELECTRONICS	FMP005P103	PIN
3	1	MOLEX	43025-0800	CONN 8 POS
4	7	MOLEX	43030-0007	PIN
5	24"	ALPHA WIRE	1178C	CABLE 8 WIRE JACKETED, UL 2576
6	1	MINOR RUBBER	Z-164	GROMMET
7	1	3M/ESM (OR UL EQUIV.)	FP-301 3/8" BL200'	HEATSHRINK FP301 3/8 X 1" BLK

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	5	22 AWG	GRN	TABLE ID 1	P32-1	P31-1
2	5	22 AWG	BLU	TABLE ID 2	P32-2	P31-2
3	5	22 AWG	WHT	ROTARY STEP	P32-3	P31-3
4	5	22 AWG	YEL	ROTARY DIR	P32-4	P31-4
5	5	22 AWG	BRN	GND	P32-5	P31-5
6	5	22 AWG	BLK	48V GND	P32-A2	P31-6
7	5	22 AWG	ORG	NO CONNECTION		
8	5	22 AWG	RED	+48V	P32-A1	P31-8



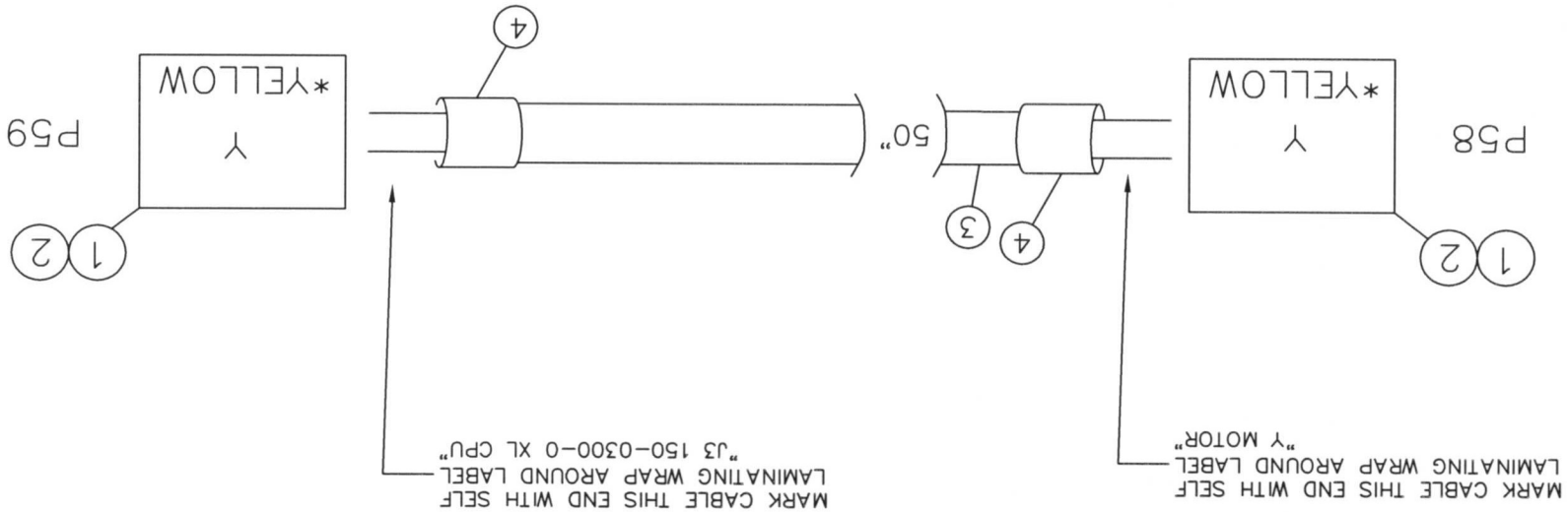
APPROVALS	DATE
DRAWN C RISSER	6-04
CHECKED	SERVICE
ENGINEERING	PRODUCTION
PROPRIETARY NOTE	

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SIZE	DRAWING NO.	REV
B	132-0220-0	
TITLE		
Universal Laser Systems, Inc.		
XL ROTARY CABLE		
SCALE		
NONE		
SHEET 1 OF 1		

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	3	18 AWG	BLK	Y PHASE U	P58-1	P59-1
2	3	18 AWG	RED	Y PHASE V	P58-2	P59-2
3	3	18 AWG	NAT	Y PHASE W	P58-3	P59-3
4	3	18 AWG	SHIELD	Y SHIELD	P58-4	P59-4

MATERIAL LIST						
ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION		
1	2	MOLEX	39-01-3048-YELLOW	CONN 4 PIN DUAL ROW F CORD YELLOW		
2	8	MOLEX	39-00-0056	SOCKET		
3	50"	ALPHA (OR UL EQUIV.)	2423C	3 WIRE JACKETED CABLE SHIELDED, UL 2094		
4	2	3M/ESM (OR UL EQUIV.)	FP-301 3/8" BL200'	HEATSHRINK FP301 3/8 X 1" BLK		



NOTES:
1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2-ALL COMPONENTS MUST BE UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED

APPROVALS		DATE	DRAWN		C RISSER	6-04	CHECKED		SERVICE	ENGINEERING		PRODUCTION	PROPRIETARY NOTE	
Universal Laser Systems, Inc.			TITLE		XL HARNESS, Y MOTOR POWER CABLES		SIZE		D		DO NOT SCALE DRAWING		THIS DRAWING AND ANY DATA DISCLOSED HEREIN IS THE PROPERTY OF UNIVERSAL LASER SYSTEMS, INC. AND CONSTITUTES AND CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. NEITHER RECEIPT NOR POSSESSION OF THIS DRAWING CONFERES OR TRANSFERS ANY RIGHT TO DUPLICATE, USE, OR DISCLOSE ANY INFORMATION CONTAINED HEREIN EXCEPT AS EXPRESSLY AUTHORIZED BY UNIVERSAL LASER SYSTEMS, INC.	
			DRAWING NO.		132-0214-0		REV		G		SHEET 3 OF 6		PATH: V:\Mechanical\Drawing Archive\1xx-xxxx-x Assemblies\13x-xxxx-x Assemblies\132-0214-0 XL Y AND Z AXIS HARNESS.dwg	

PATH: V:\Mechanical\Drawing Archive\1xx-xxxx-x Assemblies\13x-xxxx-x Assemblies\132-0214-0 XL Y AND Z AXIS HARNESS.dwg

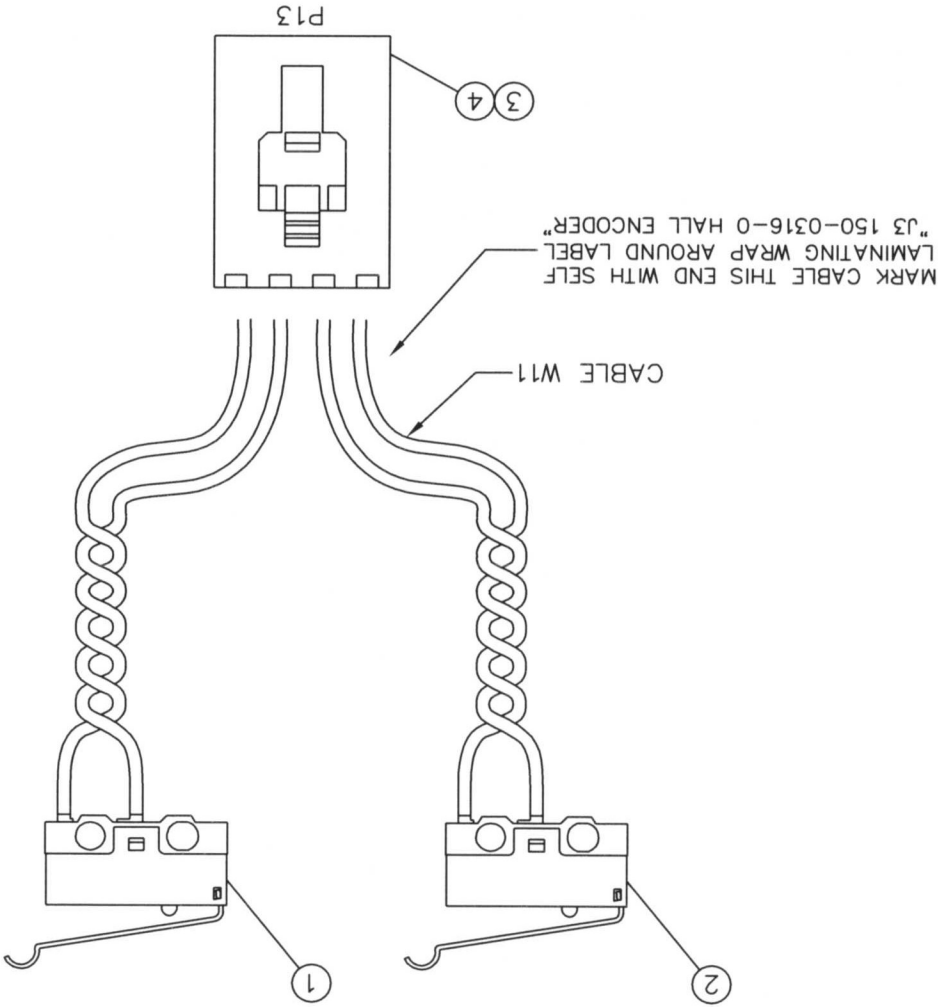
- NOTES:
- 1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
 - 2-ALL COMPONENTS MUST BE UL LISTED/RECOGNIZED WHERE NOTED
 - 3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
 - UL LISTING/RECOGNITION MUST BE SUPPLIED

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION	SPECIFICATIONS/RATINGS
1	1	OMRON	D2FW-G073M	LIMIT SW, LEADS 3.5" LONG	UL 94HB OR BETTER
2	1	OMRON	D2FW-G073M	LIMIT SW, LEADS 11.0" LONG	UL 94HB OR BETTER
3	1	MOLEX	50-57-9404	CONN C-GRID FEMALE 4POS HOUSING	UL 94V-2 OR BETTER
4	4	MOLEX	16-02-0087	TERM CRIMP FEMALE AU 22-24AWG CGRD	-

MATERIAL LIST

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	2	20 AWG	BLACK	Z LIMIT UP	LIMIT SW	P13-1
2	2	20 AWG	BLUE	Z LIMIT UP RTN	LIMIT SW	P13-2
3	1	20 AWG	BLACK	Z LIMIT DOWN	LIMIT SW	P13-3
4	1	20 AWG	BLUE	Z LIMIT DOWN RTN	LIMIT SW	P13-4

WIRE LIST

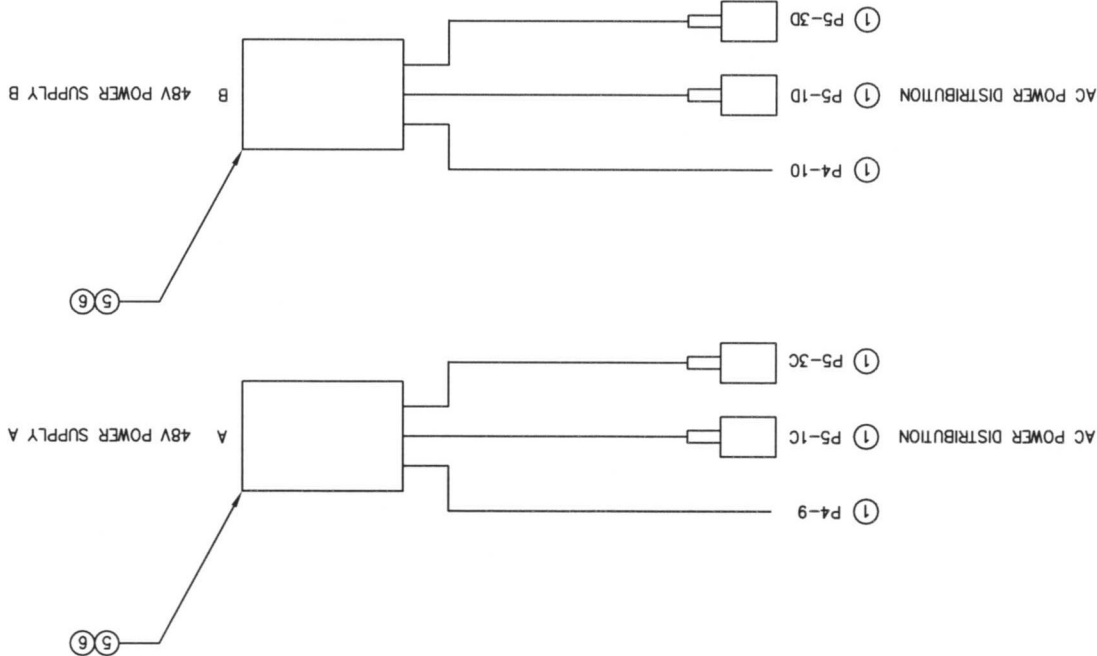
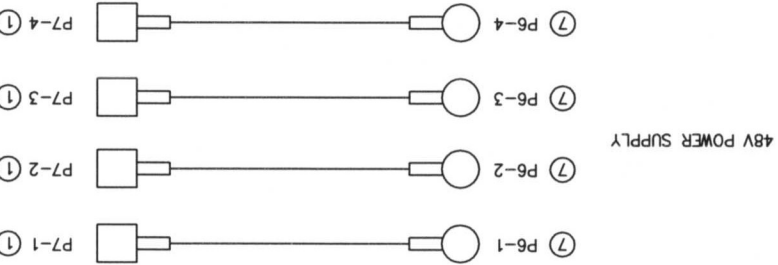
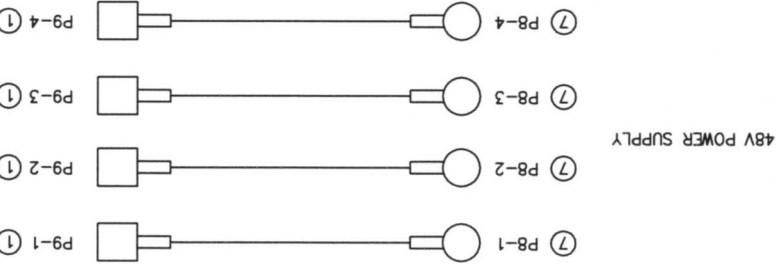


APPROVALS	DATE	6-04	C	RISSER	SERVICE	PRODUCTION	ENGINEERING	PROPRIETARY NOTE	THIS DRAWING AND ANY DATA DISCLOSED HEREIN IS THE PROPERTY OF UNIVERSAL LASER SYSTEMS, INC. AND CONSTITUTES AND CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. NEITHER RECEIPT NOR POSSESSION OF THIS DRAWING CONFERES OR IMPLIES ANY RIGHT TO DUPLICATE, USE, OR DISCLOSE ANY INFORMATION CONTAINED HEREIN EXCEPT AS EXPRESSLY AUTHORIZED BY UNIVERSAL LASER SYSTEMS, INC.
DO NOT SCALE DRAWING		SCALE		NONE		SHEET		5 OF 6	
DRAWING NO.		132-0214-0		REV		G		D	
TITLE		XL		Z LIMIT CABLE					
UNIVERSAL LASER SYSTEMS, INC.									

WIRE #	ITEM #	GAUGE	COLOR	LENGTH	DESCRIPTION	FROM	TO
14	2	14 AWG	GREEN/YELLOW	36"	GND	P5-3C	A-1
15	3	14 AWG	WHITE	36"	NEUTRAL	P5-1C	A-3
16	4	14 AWG	BLACK	36"	LINE FUSED	P4-9	A-2
17	8	12 AWG	RED	20"	48 VOLT	P6-1	P7-1
18	4	12 AWG	BLACK	20"	COMMON	P6-2	P7-2
19	8	12 AWG	RED	20"	48 VOLT	P6-3	P7-3
20	4	12 AWG	BLACK	20"	COMMON	P6-4	P7-4
21	2	14 AWG	GREEN/YELLOW	36"	GND	P5-3D	B-1
22	3	14 AWG	WHITE	36"	NEUTRAL	P5-1D	B-3
23	4	14 AWG	BLACK	36"	LINE FUSED	P4-10	B-2
24	8	12 AWG	RED	20"	48 VOLT	P8-1	P9-1
25	4	12 AWG	BLACK	20"	COMMON	P8-2	P9-2
26	8	12 AWG	RED	20"	48 VOLT	P8-3	P9-3
27	4	12 AWG	BLACK	20"	COMMON	P8-4	P9-4

NOTES: 1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2-ALL COMPONENTS MUST BE ROHS COMPLIANT AND UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF ROHS COMPLIANCE AND
UL LISTING/RECOGNITION MUST BE SUPPLIED
4-ENCLOSE WIRE KIT IN PLASTIC BAG LABELED WITH PART NUMBER

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION	SPECIFICATIONS/RATINGS
1	12	AMP	184265-1	LOW INSERTION FORCE .250 FASTON (NO SHIELD)	UL 94V-2 OR BETTER
2	72"	-	-	GRN/YEL, 14 AWG STRANDED	VW-1 or FT-1 or BETTER
3	72"	-	-	WHT, 14 AWG STRANDED	VW-1 or FT-1 or BETTER
4	152"	-	-	BLK, 14 AWG STRANDED	VW-1 or FT-1 or BETTER
5	2	POSITRONICS	PLB06F0050	6 POSITION CONNECTOR AND HOOD	UL 94V-2 OR BETTER
6	6	POSITRONICS	FS114N2	14 AWG SOLDER PINS	UL 94V-2 OR BETTER
7	8	AMP/TYCO	50840	RING TERMINAL, 14 AGW, #8 STUD	UL 94V-2 OR BETTER
8	80"	-	-	RED, 14 AWG STRANDED	VW-1 or FT-1 or BETTER



APPROVALS	DATE	5-04	DESIGN	C. REISER	SCALE	NONE	REV	1 OF 1
CHECKED	REWORK		PRODUCTION		DRAWING NO.			
TITLE								
XL POWER HARNESS HP-400								
UNIVERSAL LASER SYSTEMS, INC.								

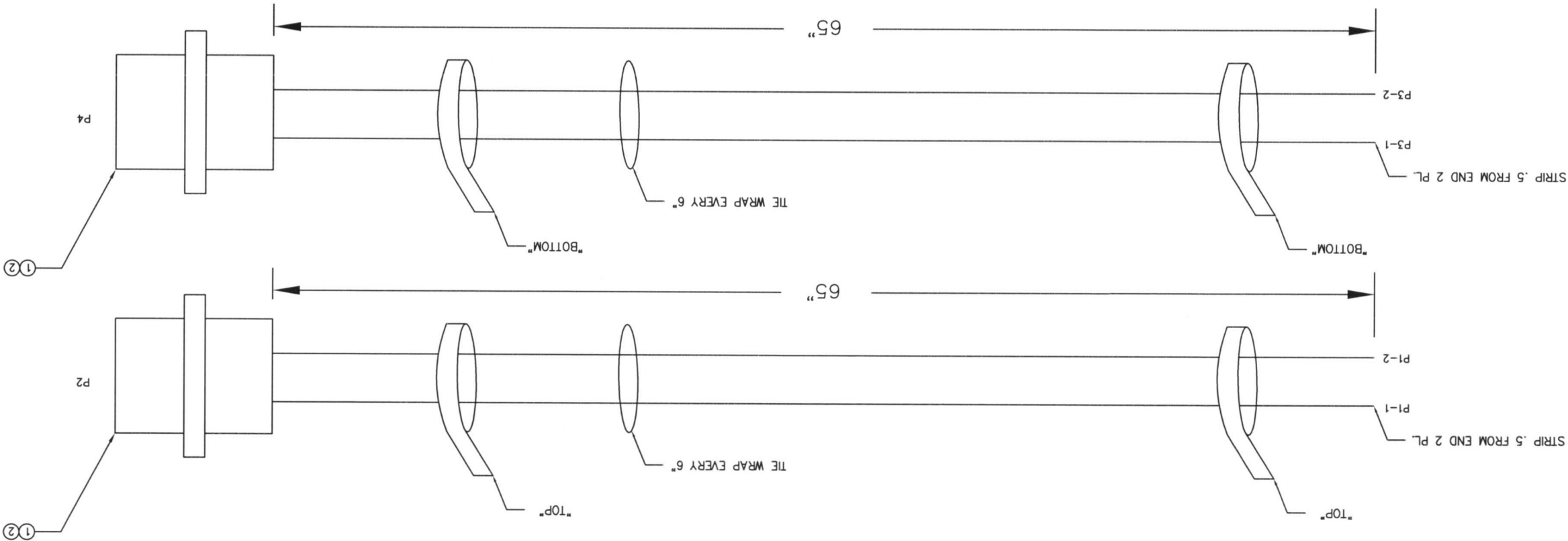
PROPRIETARY NOTE
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REVISIONS			
REV	DATE	ECO	APP'D
A	4-06	1467	CR

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION	SPECIFICATIONS/RATINGS
1	2	ITT	121583-0026	HIGH POWER CONNECTOR 2 PIN	UL 94V-2 OR BETTER
2	4	ITT	430-8645-003	PINS	
3	130"	-	-	RED, 8 AWG STRANDED	VW-1 or FT-1 or BETTER
4	130"	-	-	BLK, 8 AWG STRANDED	VW-1 or FT-1 or BETTER
5	16	PANDUIT	-	THE WRAP 4" NAT	
6	4	-	-	LABEL	

WIRE #	ITEM #	GAUGE	COLOR	LENGTH	DESCRIPTION	FROM	TO
1	3	8 AWG	RED	65"	48 VOLTS	P1-1	P2-1
2	4	8 AWG	BLACK	65"	COMMON	P1-2	P2-2
3	3	8 AWG	RED	65"	48 VOLTS	P3-1	P4-1
4	4	8 AWG	BLACK	65"	COMMON	P3-2	P4-2

NOTES: 1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2-ALL COMPONENTS MUST BE ROHS COMPLIANT AND UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF ROHS COMPLIANCE AND
UL LISTING/RECOGNITION MUST BE SUPPLIED
4-PLACE LABELS 6" FROM ENDS WITH TEXT AS INDICATED
5-ENCLOSE WIRE KIT IN PLASTIC BAG LABELED WITH PART NUMBER

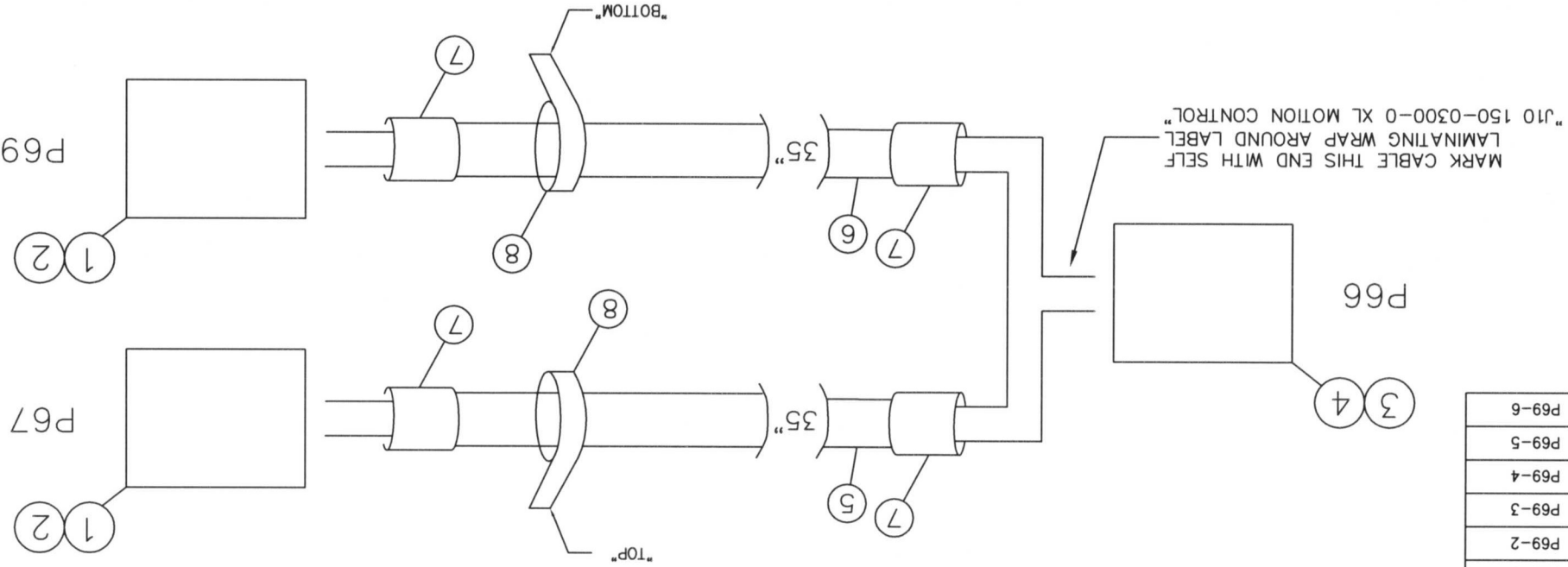


UNIVERSAL LASER SYSTEMS, INC.	DATE	5-04	DESIGNER	C. RISER	CHECKED	DATE	5-04
UNIVERSAL LASER SYSTEMS, INC.	DATE	5-04	DESIGNER	C. RISER	CHECKED	DATE	5-04
UNIVERSAL LASER SYSTEMS, INC.	DATE	5-04	DESIGNER	C. RISER	CHECKED	DATE	5-04
UNIVERSAL LASER SYSTEMS, INC.	DATE	5-04	DESIGNER	C. RISER	CHECKED	DATE	5-04
UNIVERSAL LASER SYSTEMS, INC.	DATE	5-04	DESIGNER	C. RISER	CHECKED	DATE	5-04
UNIVERSAL LASER SYSTEMS, INC.	DATE	5-04	DESIGNER	C. RISER	CHECKED	DATE	5-04
UNIVERSAL LASER SYSTEMS, INC.	DATE	5-04	DESIGNER	C. RISER	CHECKED	DATE	5-04
UNIVERSAL LASER SYSTEMS, INC.	DATE	5-04	DESIGNER	C. RISER	CHECKED	DATE	5-04
UNIVERSAL LASER SYSTEMS, INC.	DATE	5-04	DESIGNER	C. RISER	CHECKED	DATE	5-04
UNIVERSAL LASER SYSTEMS, INC.	DATE	5-04	DESIGNER	C. RISER	CHECKED	DATE	5-04

REV	DATE	ECO	APP'D
A	10-04	1241	CR
B	1-05	1259	CR
C	4-06	----	GW

WIRE LIST						
WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	5	22 AWG	BLK	+12V	P66-1	P67-1
2	5	22 AWG	RED	MOD	P66-2	P67-2
3	5	22 AWG	WHT	GND	P66-3	P67-3
4	5	26 AWG	-	SHIELD	P66-4	P67-4
5	5	22 AWG	ORG	PTR	P66-5	P67-5
6	5	22 AWG	GRN	I-LOCK	P66-6	P67-6
7	6	22 AWG	BLK	+12V	P66-7	P69-1
8	6	22 AWG	RED	MOD	P66-8	P69-2
9	6	22 AWG	WHT	GND	P66-9	P69-3
10	6	22 AWG	-	SHIELD	P66-10	P69-4
11	6	22 AWG	ORG	PTR	P66-11	P69-5
12	6	22 AWG	GRN	I-LOCK	P66-12	P69-6

MATERIAL LIST				
ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	2	AMP/TYCO	206705-1	CPC CONNECTOR
2	12	AMP/TYCO	66107-3	PIN
3	1	MOLEX	43025-1200	CONN 12 PIN DUAL ROW
4	12	MOLEX	43030-0002	SOCKET
5	35"	ALPHA (OR UL EQUIV.)	1295C	5 WRE JACKETED CABLE SHIELDED, UL 2576
6	35"	ALPHA (OR UL EQUIV.)	1295C	5 WRE JACKETED CABLE SHIELDED, UL 2576
7	4	3M/ESM (OR UL EQUIV.)	FP-301 3/8" BL200'	HEATSHRINK FP301 3/8 X 1" BLK
8	2	TBD	TBD	LABEL



NOTES:
1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2-ALL COMPONENTS MUST BE ROHS COMPLIANT AND UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF ROHS COMPLIANCE AND
UL LISTING/RECOGNITION MUST BE SUPPLIED
4-APPLY LABEL APPROX. 6" FROM CONNECTOR WITH TEXT AS INDICATED

APPROVALS		DATE	
DRAWN		6-04	
C RISSER			
CHECKED			
ENGINEERING			
PRODUCTION			
PROPERTY NOTE			
SIZE		D	
DRAWING NO.		132-0212-0	
SCALE		NONE	
SHEET		2 OF 2	
REV		C	

REVISIONS			
REV	DATE	ECO	APP'D
A	04/21/2006	1467	GRW

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	9	22 AWG	BLK	LOGIC GND (LASER A)	P17-9	P28-3
2	9	22 AWG	RED	MODULATION (LASER A)	P17-6	P28-2
3	9	22 AWG	WHT	POINTER (LASER A)	P17-11	P28-5
4	9	22 AWG	GRN	12V (LASER A)	P17-8	P28-1
5	9	22 AWG	BRN	I-LOCK SENSE (LASER A)	P17-5	P28-6
6	10	14 AWG	RED	48V POWER (LASER A)	P17-1	P27-1
7	11	14 AWG	BLK	GND (LASER A)	P17-7	P27-2
8	12	14 AWG	RED	48V POWER (LASER A)	P17-4	P27-1
9	13	14 AWG	BLK	GND (LASER A)	P17-10	P27-2
10	9	22 AWG	SHIELD	SHIELD (LASER A)	-	P28-4

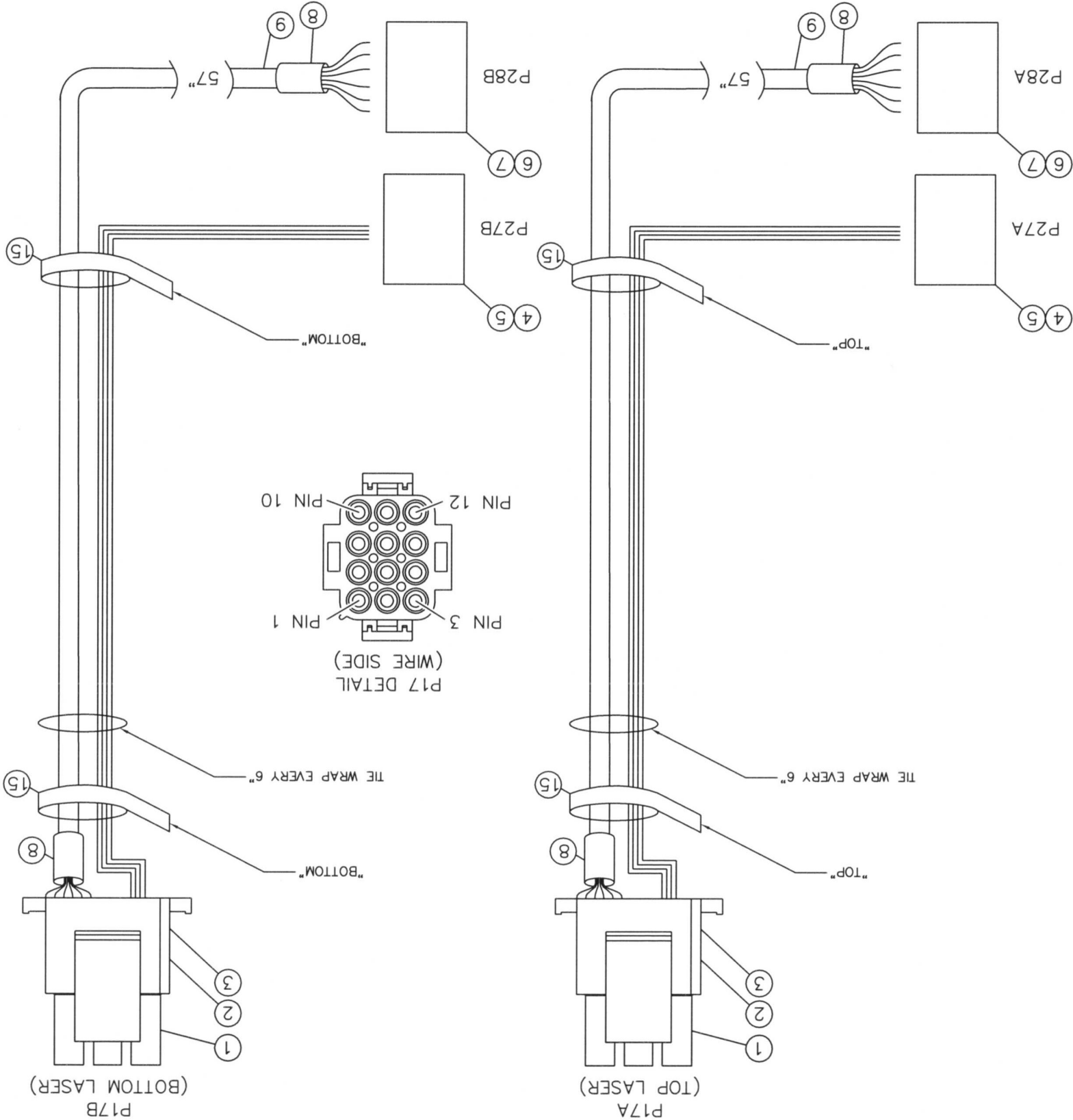
WIRE LIST - SAME FOR A & B

ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	2	AMP/TYCO	1-480708-0	CONN PLUG 12POS 94V-2 UNI-MATE
2	10	AMP/TYCO	350689-3	CONN SOCKET 18-24 AWG TIN CRIMP
3	8	AMP/TYCO	350919-3	CONN SOCKET 14-18 AWG TIN CRIMP
4	2	ITT	121583-0025	HIGH POWER SOCKET
5	4	ITT	031-8646-003	SOCKET PIN
6	2	AMP/TYCO	206708-1	PLUG
7	12	AMP/TYCO	66109-3	RECEPTACLE PIN
8	4	3M/ESM (OR UL EQUIV.)	FP-301 1/4" BL200'	HEATSHRINK FP301 1/4X1" BLK
9	114"	ALPHA	1295C	5 CONDUCTOR SHIELDED, UL 2576
10	114"	-	-	RED, 14AWG STRANDED, UL 1015
11	114"	-	-	BLK, 14AWG STRANDED, UL 1015
12	114"	-	-	RED, 14AWG STRANDED, UL 1015
13	114"	-	-	BLK, 14AWG STRANDED, UL 1015
14	6	3M	TBD	TIE WRAP 4" NAT
15	4	TBD	TBD	LABEL

NOTES: 1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2-ALL COMPONENTS MUST BE ROHS COMPLIANT AND UL APPROVED/RECOGNIZED WHERE NOTED
3-APPLY LABELS APPROX 6" FROM CONNECTORS WITH TEXT AS INDICATED
4-ENCLOSE WIRE KIT IN PLASTIC BAG LABELED WITH PART NUMBER

APPROVALS	DATE	DRAWN	CHECKED	ENGINEERING	PRODUCTION	PROPRIETARY NOTE		
		C RISSER	12-03					
Universal Laser Systems, Inc.						TITLE		
XL 60W						LASER HARNESS		
						DRAWING NO.		
						132-0213-0		
						REV A		
						SCALE NONE		
						SHEET 1 OF 1		

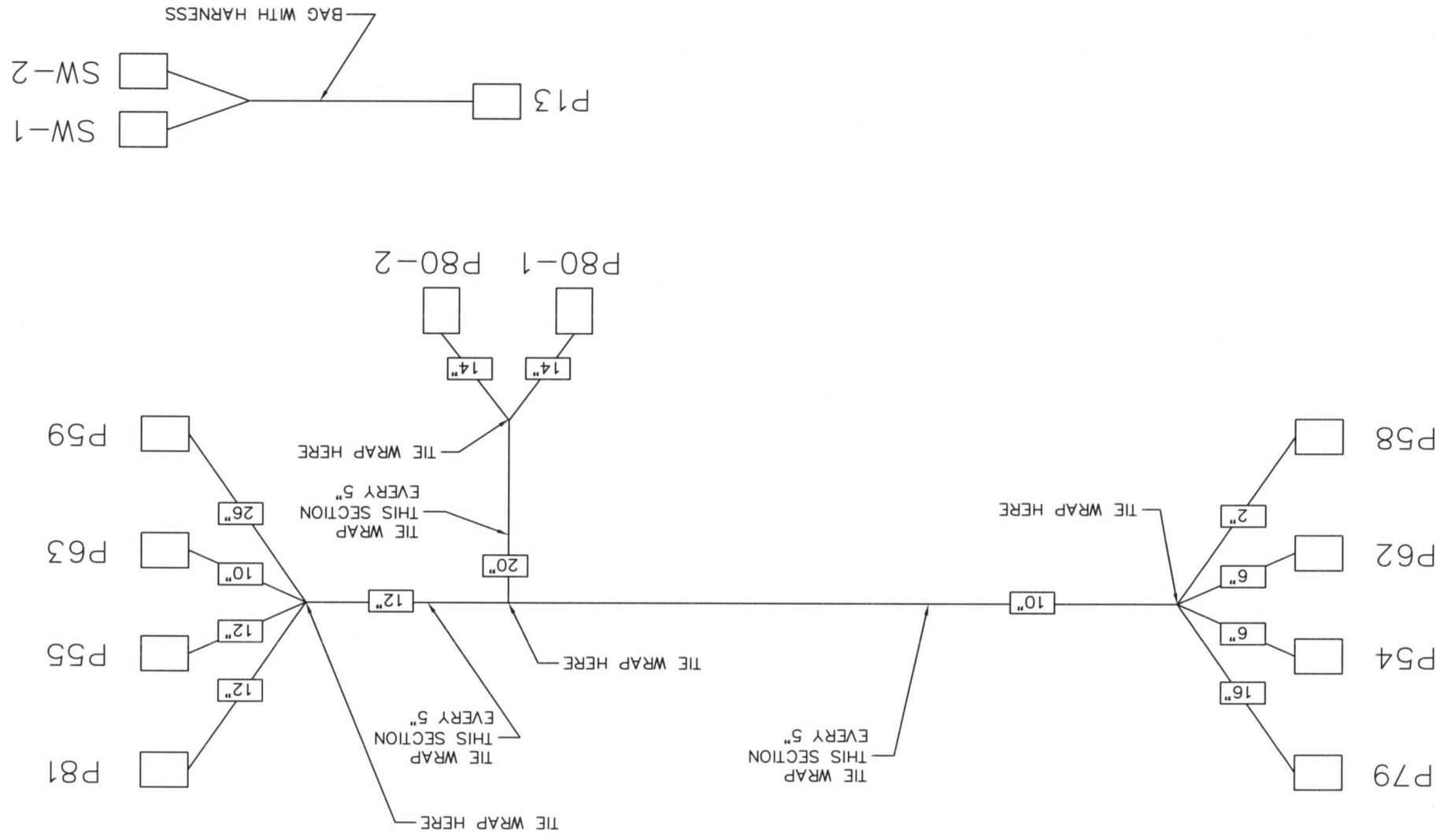
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PATH: V:\Mechanical\Drawing Archive\1xx-xxxx-x Assemblies\13x-xxxx-x Assemblies\132-0214-0 XL Y AND Z AXIS HARNESS.dwg

APPROVALS	DATE	DRAWN	C RISSEY	SERVICE	6-04
CHECKED					
ENGINEERING					
PROPRIETARY NOTE					
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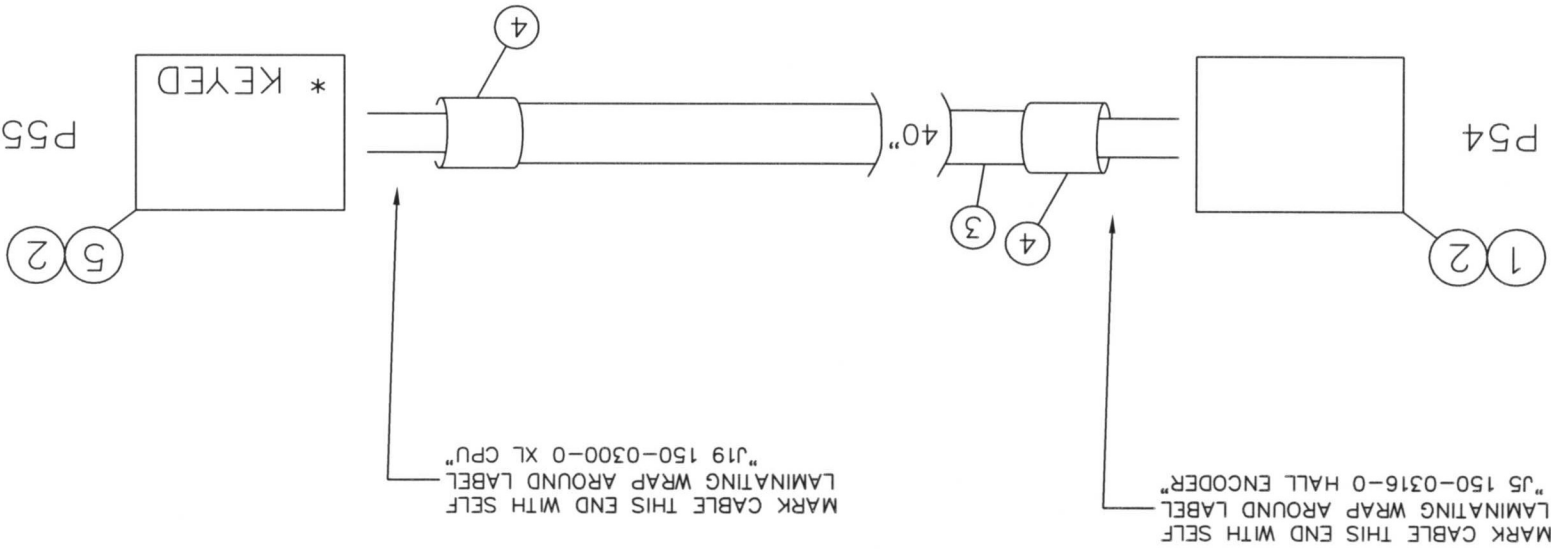
UNIVERSAL LASER SYSTEMS, INC.	TITLE	XL HARNESS Y AND Z-AXIS HARNESS
DATE	6-04	
DRAWN	C RISSEY	
CHECKED		
ENGINEERING		
PRODUCTION		
SIZE	B	
DRAWING NO.	132-0214-0	
SCALE	NONE	
SHEET	1 OF 6	
REV	G	



REVISIONS				
REV	DATE	ECO	APP'D	
A	10-04	1241	CR	
B	11-04	1251	CR	
C	11-04	1264	CR	
D	12-04	1272	CR	
E	12-04	1289	CR	
F	7/7/05	1371	GW	
G	9/15/05	1390	GW	

WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM	TO
1	5	22 AWG	BLK	+5V	P54-6	P55-13
2	5	22 AWG	RED	GND	P54-5	P55-3
3	5	22 AWG	WHT	ENC A (Z-AXIS)	P54-13	P55-7
4	5	26 AWG	GRN	ENC /A (Z-AXIS)	P54-14	P55-17
5	5	22 AWG	ORG	ENC B (Z-AXIS)	P54-15	P55-8
6	5	22 AWG	BLU	ENC /B (Z-AXIS)	P54-16	P55-18
7	5	22 AWG	BRN	Z-LIMIT UP	P54-17	P55-9
8	5	22 AWG	YEL	Z-LIMIT DWN	P54-18	P55-19
9	5	22 AWG	W/O	HALL W (Y-AXIS)	P54-1	P55-1
10	5	22 AWG	GRY	HALL V (Y-AXIS)	P54-2	P55-11
11	5	22 AWG	PINK	HALL U (Y-AXIS)	P54-4	P55-12
12	5	26 AWG	TAN	ENC B (Y-AXIS)	P54-7	P55-4
13	5	22 AWG	RED/GRN	ENC A (Y-AXIS)	P54-8	P55-14
14	5	22 AWG	RED/YEL	ENC /B (Y-AXIS)	P54-9	P55-5
15	5	22 AWG	RED/BLK	ENC /A (Y-AXIS)	P54-10	P55-15

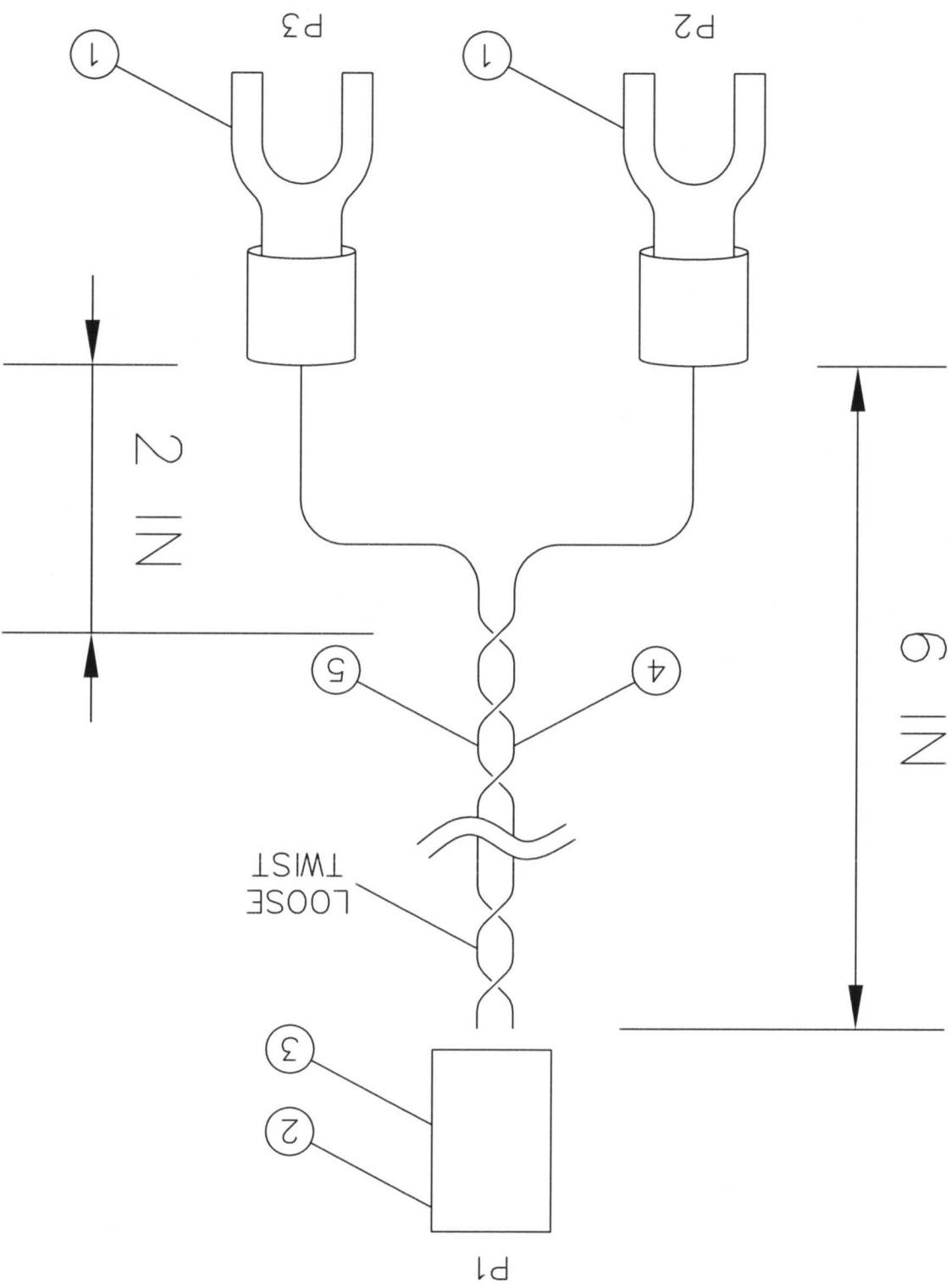
MATERIAL LIST					
ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION	
1	1	SAMTEC	IPD1-10-D	CONN MINI PWR 20 PIN DUAL ROW F CORD	
2	30	SAMTEC	C-179-01-L	SOCKET	
3	40"	ALPHA (OR UL EQUIV.)	1181/15C	15 WRE JACKETED CABLE, UL 2576	
4	2	3M/ESM (OR UL EQUIV.)	FP-301 3/8" BL200'	HEATSHRINK FP301 3/8 X 1" BLK	
5	1	SAMTEC	IPD1-10-D-P	CONN MINI PWR 20PIN DUAL ROW F CORD KEYED	



NOTES:
1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2-ALL COMPONENTS MUST BE UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED

APPROVALS		DATE	DRAWN C RISSER	CHECKED SERVICE	ENGINEERING PRODUCTION	PROPERTY NOTE
Universal Laser Systems, Inc.						
TITLE		XL HARNESS, Y AND Z ENCODER/SENSOR CABLES				
SIZE D		DRAWING NO. 132-0214-0		REV G		
DO NOT SCALE DRAWING		SCALE NONE		SHEET 2 OF 6		

PATH: V:\Mechanical\Drawing Archive\1xx-xxxx-x Assemblies\13x-xxxx-x Assemblies\132-0214-0 XL Y AND Z AXIS HARNESS.dwg



WIRE LIST					
WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	FROM
1	-	22 AWG	RED	TEMP SENSE	P1-1
2	-	22 AWG	BLK	TEMP SENSE	P1-2
TO					

MATERIAL LIST					
ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
1	2	AMP	8-320665-1	SPADE TERMINAL, #6 LUG, 22-16 AWG	----
2	1	MOLEX	50-57-9404	CONN 4POS C-GRID HOUSING, MALE	----
3	2	MOLEX	16-02-0087	TERM CRIMP FEMALE 22-24AWG GOLD	----
4	1	ALPHA	2845/7 RED	22AWG, Stranded, TFE Teflon, 250V	----
5	1	ALPHA	2845/7 BLK	22AWG, Stranded, TFE Teflon, 250V	----

NOTES: 1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
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3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF
UL LISTING/RECOGNITION MUST BE SUPPLIED
4-ENCLOSE WIRE KIT IN PLASTIC BAG LABELED "132-0205-0 REV(-)"

APPROVALS		DATE	DRAWN		CHECKED		ENGINEERING		PRODUCTION		PROPERTY NOTE		
UNIVERSAL LASER SYSTEMS, INC.		11-MAY-2004	KEVIN HAY										
TITLE		FIRE ALARM HARNESS		D		DRAWING NO.		132-0205-0		SCALE		NONE	
REV		-		SHEET		1 OF 1							

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REVISIONS			
REV	DATE	ECO	APP'D
-	11-MAY-2004	(NONE)	KAH

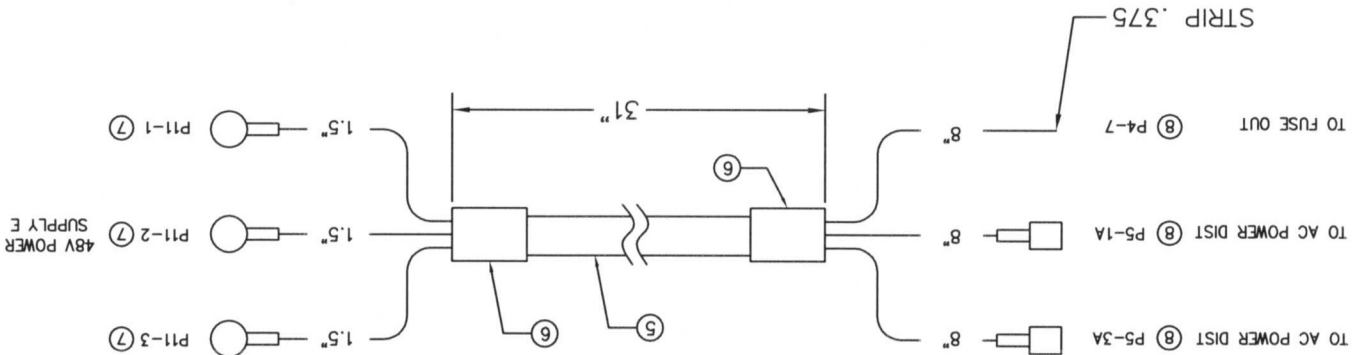
ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION	SPECIFICATIONS/RATINGS
1	2	AMP	696050-1	RING TERMINAL, #10 STUD MOUNT, 8 AWG	UL 94V-2 OR BETTER
2	26"	-	-	GRN/YEL, 8 AWG STRANDED	VW-1 or FT-1 or BETTER
3	21"	-	-	WHT, 8 AWG STRANDED	VW-1 or FT-1 or BETTER
4	21"	-	-	BLK, 8 AWG STRANDED	VW-1 or FT-1 or BETTER
5	37"	ALPHA	1943/3	3 CONDUCTOR SJT - PVC JACKET UNSHIELDED	VW-1 or FT-1 or BETTER
6	2	3M/ESM	FP-301 3/8" BL200'	HEATSHRINK FP301 3/8x1.5" BLK	UL 94HB OR BETTER
7	3	AMP	8-34158-1	RING TERMINAL, #6 STUD MOUNT, 14 AWG	UL 94V-2 OR BETTER
8	2	AMP	184265-1	LOW INSERTION FORCE .250 FASTON (NO SHIELD)	UL 94V-2 OR BETTER

MATERIAL LIST

- NOTES: 1-LENGTHS ARE GIVEN AS CUT BEFORE STRIPPING
2-ALL COMPONENTS MUST BE ROHS COMPLIANT AND UL LISTED/RECOGNIZED WHERE NOTED
3-IF ALTERNATE MANUFACTURERS ARE USED, DOCUMENTATION OF ROHS COMPLIANCE AND
UL LISTING/RECOGNITION MUST BE SUPPLIED
4-ENCLOSE WIRE KIT IN PLASTIC BAG LABELED WITH PART NUMBER

WIRE #	ITEM #	GAUGE	COLOR	LENGTH	DESCRIPTION	FROM	TO
1	2	8 AWG	WHITE	9"	NEUTRAL	P1-1	P3-1
2	3	8 AWG	BLACK	9"	LINE	P1-2	P3-2
3	4	8 AWG	GREEN/YELLOW	6"	GND	P1-3	P2-1
4	3	8 AWG	WHITE	12"	NEUTRAL SWITCHED	P4-1	P5-1
5	4	8 AWG	BLACK	12"	LINE SWITCHED	P4-2	P5-2
6	2	8 AWG	GREEN/YELLOW	20"	GND	P2-2	P5-3
7	5	14 AWG	BROWN	37"	LINE FUSED	P4-7	P11-1
8	5	14 AWG	BLUE	37"	NEUTRAL	P5-1A	P11-2
9	5	14 AWG	GREEN/YELLOW	37"	GND	P5-3A	P11-3

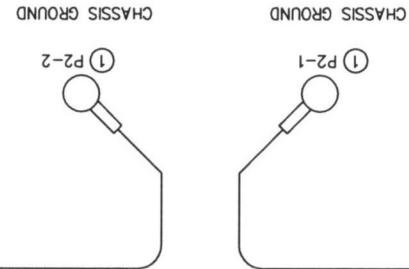
WIRE LIST



AC POWER DISTRIBUTION BLOCK

STRIP .5 FROM END 3 PL. STRIP .5 FROM END 3 PL.

STRIP .5 FROM END 3 PL.



CIRCUIT BREAKER

P5-3

P5-2

P5-1

REV	DATE	ECO	APPRD
A	10-04	1241	CR
B	12-04	1208	CR
C	4-06	1467	CR

REVISIONS

APPROVALS	DATE	DESIGN	CHECKED	REWORK	PRODUCTION
		C. HESSER		5-04	

UNIVERSAL LASER SYSTEMS, INC.
XL MAIN AC HARNESS

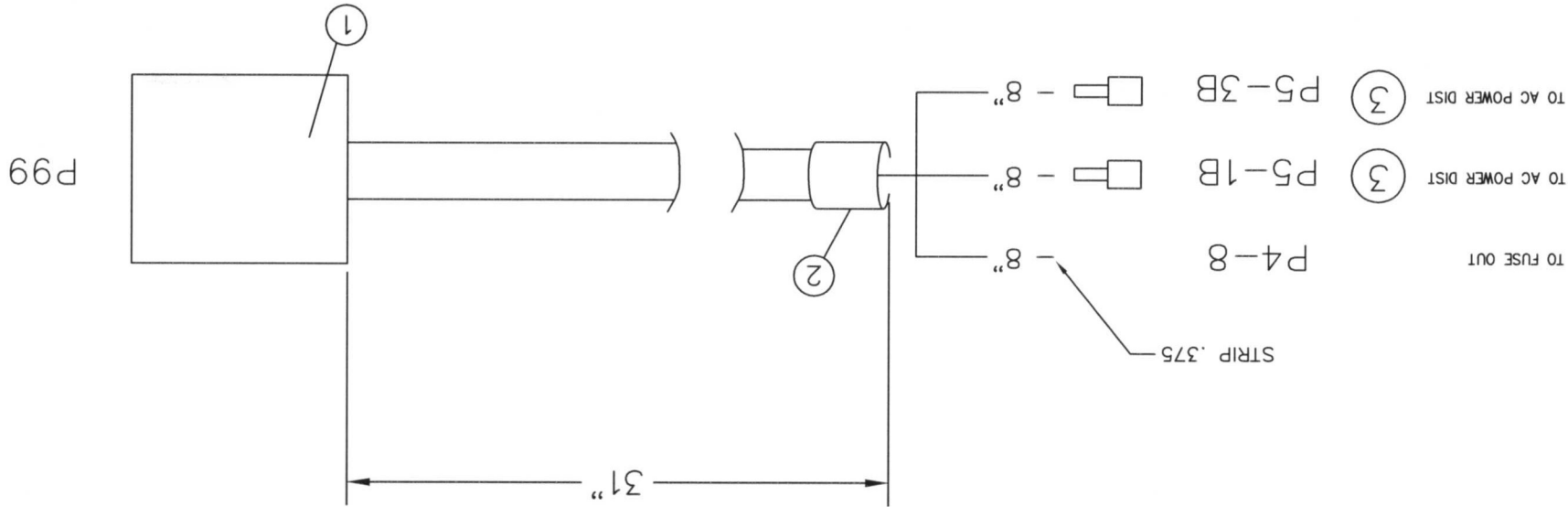
DO NOT SCALE DRAWING
SCALE: NONE
SHEET: 1 OF 3

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MATERIAL LIST					
ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION	
1	1	POWER DYNAMICS	10088	IEC 60320 C13 STYLE POWER CORD	
2	2	3M/ESM (OR UL EQUIV.)	FP-301 1/2" BL200'	HEATSHRINK FP301 1/2 x 1" BLK	
3	2	AMP	184265-1	LOW INSERTION FORCE .250 FASTON (NO SHIELD)	

WIRE LIST					
WIRE #	ITEM #	GAUGE	COLOR	DESCRIPTION	
10	2	18 AWG	BLK	LINE FUSED	P4-8 P99
11	2	18 AWG	WHT	NEUTRAL	P5-1B P99
12	2	18 AWG	GRN/YEL	GND	P5-3B P99



APPROVALS		DATE	DRAWN		C RISSE	5-04	CHECKED		SERVICE	ENGINEERING		PRODUCTION	PROPRIETARY NOTE		
Universal Laser Systems, Inc.			TITLE		XL MAIN AC HARNESS		SIZE		B		DRAWING NO.		132-0209-0		
REV		C		SHEET		2 OF 3		SCALE		NONE		SHEET		2 OF 3	

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MATERIAL LIST					
ITEM #	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION	SPECIFICATIONS/RATINGS
1	6	AMP	184265-1	LOW INSERTION FORCE .250 FASTON (NO SHIELD)	UL 94V-2 OR BETTER
2	12	AMP	8-34158-1	RING TERMINAL, #6 STUD MOUNT, 14 AWG	UL 94V-2 OR BETTER
3	33'	-	-	GRN/YEL, 14 AWG STRANDED	VW-1 or FT-1 or BETTER
4	33"	-	-	WHT, 14 AWG STRANDED	VW-1 or FT-1 or BETTER
5	96"	-	-	BLK, 14 AWG STRANDED	VW-1 or FT-1 or BETTER
6	36"	-	-	RED, 14 AWG STRANDED	VW-1 or FT-1 or BETTER

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4-ENCLOSE WIRE KIT IN PLASTIC BAG LABELED WITH PART NUMBER

WIRE LIST							
WIRE #	ITEM #	GAUGE	COLOR	LENGTH	DESCRIPTION	FROM	TO
14	3	14 AWG	GREEN/YELLOW	30"	GND	P5-30	B1-1
15	4	14 AWG	WHITE	30"	NEUTRAL	P5-10	B1-2
16	5	14 AWG	BLACK	30"	LINE FUSED	P4-11	B1-3
17	3	14 AWG	GREEN/YELLOW	3"	GND	B1-1	B2-1
18	4	14 AWG	WHITE	3'	NEUTRAL	B1-2	B2-2
19	5	14 AWG	BLACK	30"	LINE FUSED	P4-12	B2-3
20	6	14 AWG	RED	16"	48 VOLTS	P8-1	P9-1
21	5	14 AWG	BLACK	16"	COMMON	P8-2	P9-2
22	6	14 AWG	RED	20"	48 VOLTS	P10-1	P11-1
24	5	14 AWG	BLACK	20"	COMMON	P10-2	P11-2

