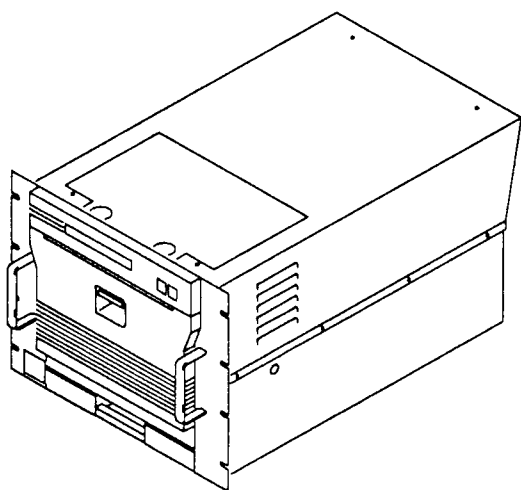
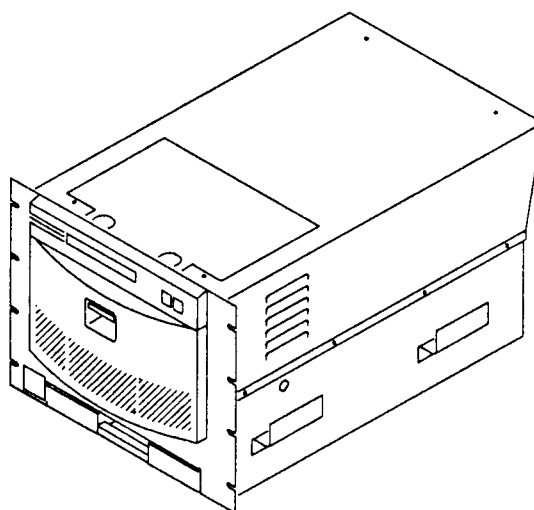




DIAGRAMS
for the
Kodak XL7700 and XLT7720
DIGITAL CONTINUOUS TONE PRINTERS



XL7700



XLT7720

A065_0180BC

PLEASE NOTE

The information contained herein is based on the experience and knowledge relating to the subject matter gained by Eastman Kodak Company prior to publication.

No patent license is granted by this information.

Eastman Kodak Company reserves the right to change this information without notice, and makes no warranty, express or implied, with respect to this information. Kodak shall not be liable for any loss or damage, including consequential or special damages, resulting from the use of this information, even if loss or damage is caused by Kodak's negligence or other fault.

CAUTION



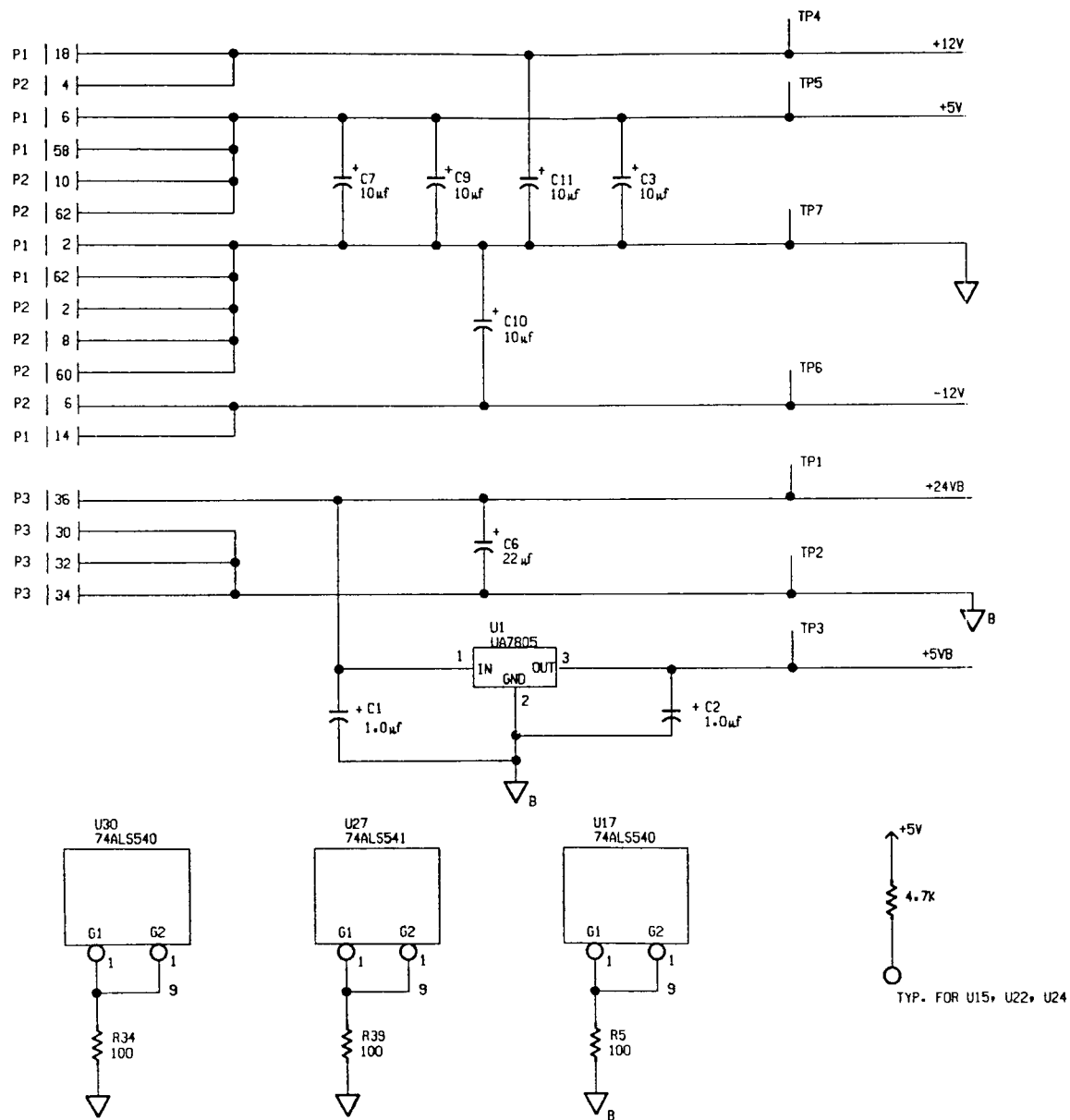
This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

TABLE OF CONTENTS

<u>FIGURE</u>	<u>DESCRIPTION</u>
Figure 1	I/O BOARD Schematic, Style 1, Model 7700
Figure 2	I/O BOARD Schematic, Style 1, Model 7700
Figure 3	I/O BOARD Schematic, Style 1, Model 7700
Figure 4	I/O BOARD Schematic, Style 1, Model 7700
Figure 5	I/O BOARD Components, Style 1, Model 7700
Figure 5A	I/O BOARD Schematic, Style 2, Model 7700
Figure 5B	I/O BOARD Schematic, Style 2, Model 7700
Figure 5C	I/O BOARD Schematic, Style 2, Model 7700
Figure 5D	I/O BOARD Schematic, Style 2, Model 7700
Figure 5E	I/O BOARD Components, Style 2, Model 7700
Figure 5F	I/O BOARD Schematic, Style 3, Models 7700 and 7720
Figure 5G	I/O BOARD Schematic, Style 3, Models 7700 and 7720
Figure 5H	I/O BOARD Schematic, Style 3, Models 7700 and 7720
Figure 5I	I/O BOARD Schematic, Style 3, Models 7700 and 7720
Figure 5J	I/O BOARD Components, Style 3, Models 7700 and 7720
Figure 6	DSP BOARD Schematic, Models 7700 and 7720
Figure 7	DSP BOARD Schematic, Models 7700 and 7720
Figure 8	DSP BOARD Schematic, Models 7700 and 7720
Figure 9	DSP BOARD Components, Models 7700 and 7720
Figure 10	FRAME DRIVER Schematic, Style 1, Model 7700
Figure 11	FRAME DRIVER Components, Style 1, Model 7700
Figure 11A	FRAME DRIVER Components, Style 2, Models 7700 and 7720
Figure 11B	FRAME DRIVER Schematic, Style 2, Models 7700 and 7720
Figure 11C	FRAME DRIVER Schematic, Style 2, Models 7700 and 7720
Figure 11D	FRAME DRIVER Schematic, Style 2, Models 7700 and 7720
Figure 11E	FRAME DRIVER Schematic, Style 2, Models 7700 and 7720
Figure 11F	FRAME DRIVER Schematic, Style 2, Models 7700 and 7720
Figure 12	FRAME SENSOR Schematic, Models 7700 and 7720
Figure 13	FRAME SENSOR Components, Models 7700 and 7720
Figure 14	FRAME SENSOR, B/W Schematic, Model 7700
Figure 15	FRAME SENSOR Components, B/W, Model 7700
Figure 16	FRONT PANEL Schematic, Models 7700 and 7720
Figure 17	FRONT PANEL Components, Models 7700 and 7720
Figure 18	FUSER CONTROLLER Schematic, Model 7700
Figure 19	FUSER CONTROLLER Schematic, Style 1, Model 7700
Figure 20	FUSER CONTROLLER Schematic, Style 1, Model 7700
Figure 21	FUSER CONTROLLER Components, Style 1, Model 7700
Figure 21A	FINISHER CONTROLLER Schematic, Style 2, Models 7700 and 7720
Figure 21B	FINISHER CONTROLLER Components, Style 2, Models 7700 and 7720
Figure 21C	FINISHER CONTROLLER Components, Style 2, Models 7700 and 7720
Figure 22	PRE-HEAT DRIVER Schematic, Model 7700

TABLE OF CONTENTS (CONTINUED)

<u>FIGURE</u>	<u>DESCRIPTION</u>
Figure 23	PRE-HEAT DRIVER Components, Model 7700
Figure 23A	PRE-HEAT DRIVER Schematic, Model 7720
Figure 23B	PRE-HEAT DRIVER Schematic, Model 7720
Figure 23C	PRE-HEAT DRIVER Components, Model 7720
Figure 24	ADJUSTABLE REGULATOR Schematic, Models 7700 and 7720
Figure 25	ADJUSTABLE REGULATOR Components, Models 7700 and 7720
Figure 26	POWER DISTRIBUTION BOARD Schematic, Models 7700 and 7720
Figure 27	POWER DISTRIBUTION BOARD Components, Models 7700 and 7720
Figure 28	Interface Schematic, Models 7700 and 7720
Figure 29	Interface Components, Models 7700 and 7720
Figure 30	BACKPLANE Schematic, Models 7700 and 7720
Figure 31	BACKPLANE Components, Models 7700 and 7720
Figure 32	Electrical Interconnect, Model 7700
Figure 32A	Electrical Interconnect, Model 7720
Figure 33	Signal Interconnect, Model 7700
Figure 33A	Electrical Interconnect, Model 7720
Figure 34	Cable Interconnects, Model 7700
Figure 34A	Cable Interconnects, Model 7720
Figure 35	Cable Interconnects, Model 7700
Figure 35A	Cable Interconnects, Model 7720
Figure 36	FRONT DOOR Interconnects, Model 7700
Figure 36A	FRONT DOOR Interconnects, Model 7720
Figure 37	FRONT DOOR Interconnects, Model 7700
Figure 37A	FRONT DOOR Interconnects, Model 7720
Figure 38	ASSEMBLY Interconnects, Model 7700
Figure 38A	ASSEMBLY Interconnects, Model 7720
Figure 39	FRONT BEZEL Connectors, Model 7700
Figure 39A	FRONT PANEL Interconnects, Model 7720
Figure 40	FINISHER Interconnect, Model 7700
Figure 40A	FINISHER Interconnect, Style 2, Models 7700 and 7720
Figure 41	FRAME Interconnect, Model 7700
Figure 41A	FRAME Interconnect, Model 7720
Figure 42	FRAME Connectors, Model 7700
Figure 42A	FRAME Connectors, Model 7720
Figure 43	Power Distribution, Model 7700
Figure 43A	Power Distribution, Model 7720
Figure 44	Power Connectors, Model 7700
Figure 44A	Power Connectors, Model 7720
Figure 45	Power Connectors, Model 7700
Figure 45A	Power Connectors, Model 7720
Figure 46	RECEIVER/PICKER Interconnect, Model 7720
Figure 47	RECEIVER/PICKER Interconnect, Model 7720



POWER TABLE

DESIG.	PART NO.	+5V	+12V	-12V	GND	+5VB	+24VB	GND
U1	UA7805							
U2	IL02							
U3	IL02							
U4	1K					16		
U5	ADC0844	20			7, 10			
U6	74ALS996	24			12			
U7	74ALS573	20			10			
U8	74ALS245	20			10			
U9	74ALS573	20			10			
U10	74ALS996	24			12			
U11	74ALS996	24			12			
U12	74ALS573	20			10			
U13	74ALS573	20			10			
U14	74ALS573	20			10			
U15	4.7K	16						
U16	LM336-5.0							
U17	74ALS540					20		
U18	10K					16	16	
U19	22K							
U20	LM324		4	11				
U21	LM339		3		12			
U22	4.7K	16						
U23	74ALS00	14			7			
U24	4.7K	16						
U25	PAL20L8	24			12			
U26	PAL20L8	24			12			
U27	74ALS541	20			10			
U28	ULN2068					14		4, 5
U29	ULN2068					14		4, 5
U30	74ALS540	20			10			
U31	74LS221	16			8			
U32	74ALS74	14			7			
U33	74ALS74	14			7			
U34	74ALS245	20			10			

BYPASS CAPACITORS

+5V, GND:	C100-C112, C115-C122, C128-C132
+12V, GND:	C114
-12V, GND:	C127
+5VB, GND:	C113, C125, C126

Figure 1
I/O BOARD Schematic
Style 1
Model 7700

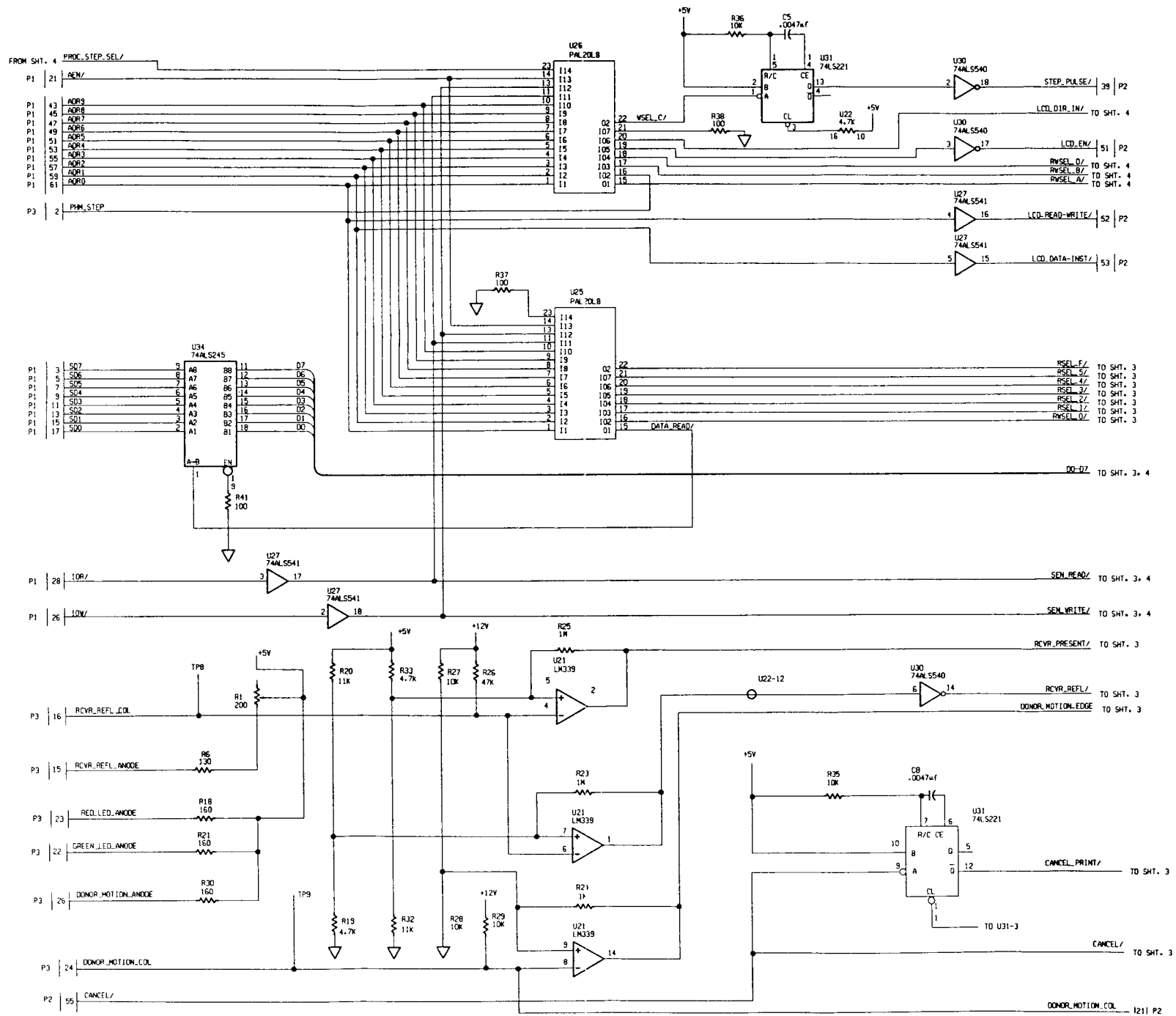
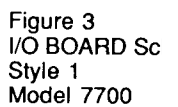


Figure 2
I/O BOARD Schem
Style 1
Model 7700



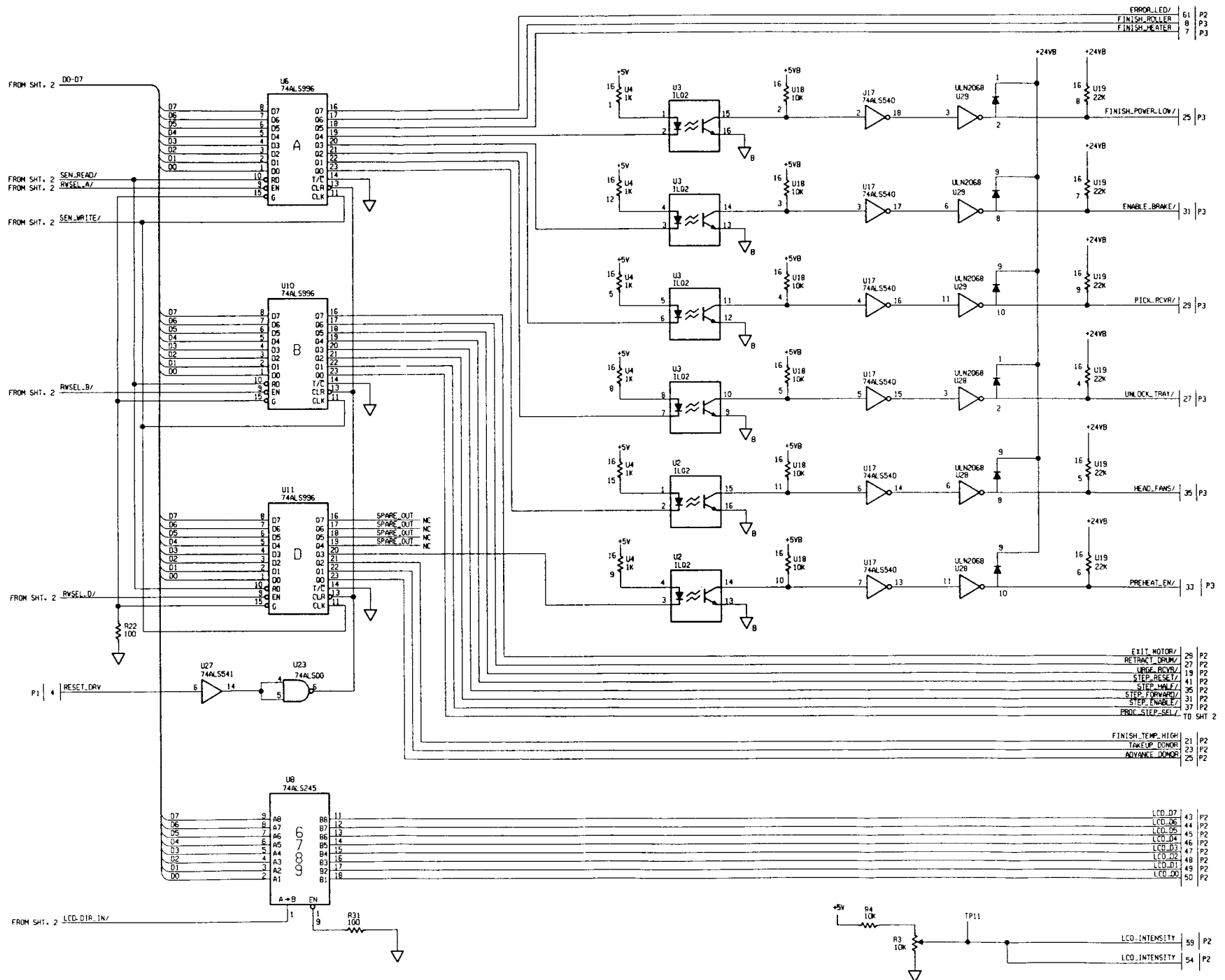


Figure 4
I/O BOARD
Style 1
Model 770

NOTES:

- (1) 251460 SHUNT ASSY TO BE PLACED
E1 PINS 5-6
E2 PINS 3-4

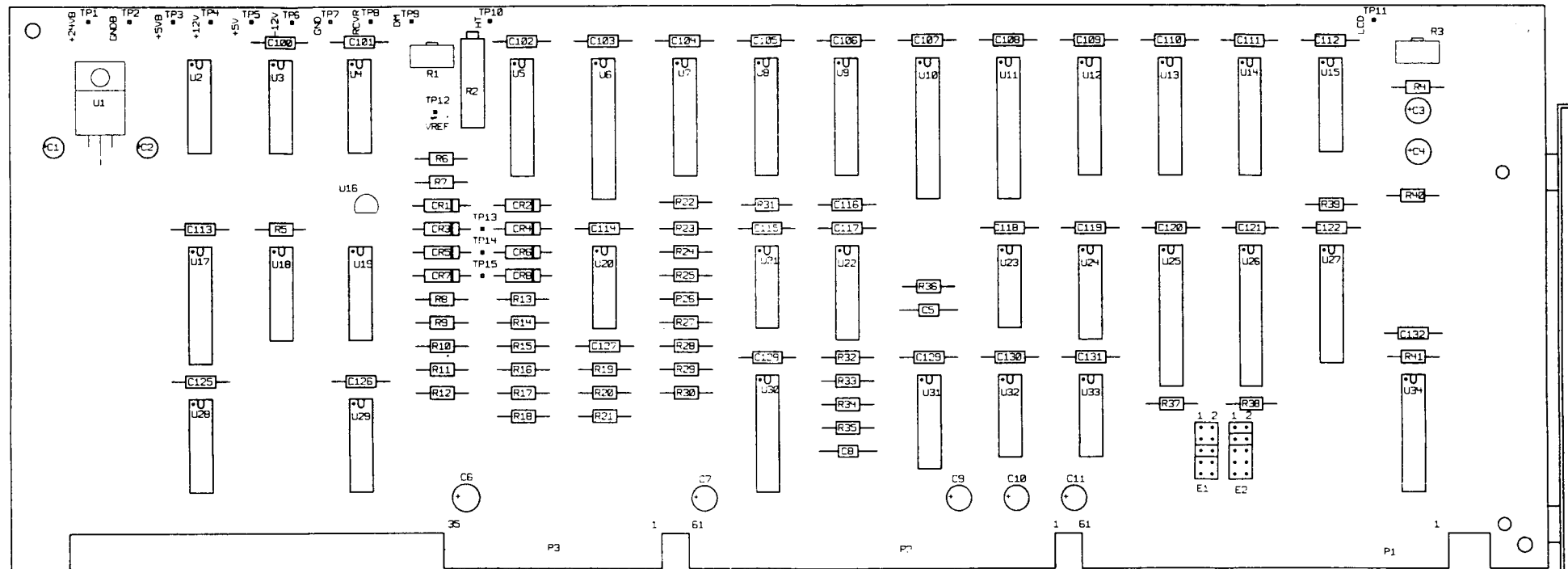
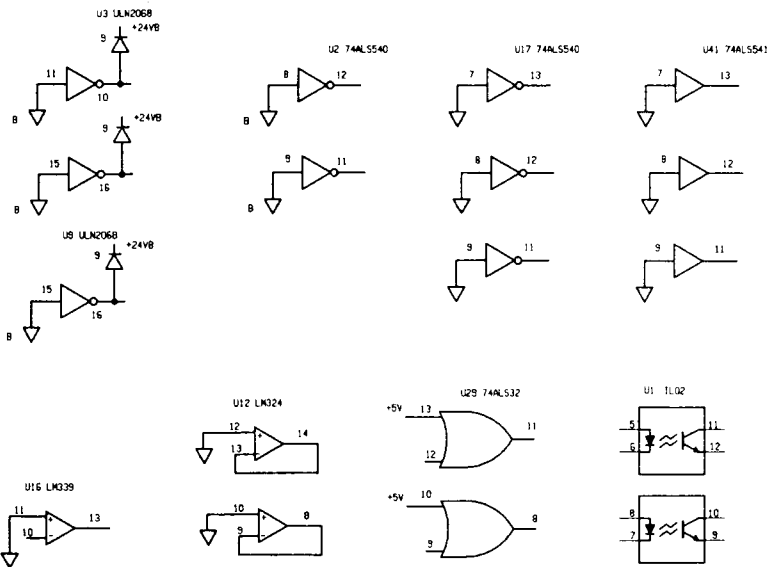
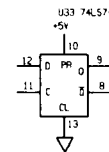


Figure 5
I/O BOARD Component
Style 1
Model 7700



DESIG.	PART NO.	+5V	+12V	-12V	GND	+5VB	+24VB	GND8	BYPASS CAPACITO
U1	1L02							13+16	C1
U2	74AL5540					20		1+8+9+10+19	C2
U3	ULN0208					14	1+9	4+5+12+13	C3
U4	1L02							9+12+13+16	C4
U5	uA7805					3	1	2	C7-C8
U6	10K					16			C5
U7	1K	16							C6
U8	22K						16		C9
U9	ULN0208					14	1+9	4+5+12+13	C10
U10	LM336-5.0				3				
U11	ADC0844	20			7+10				C14,C17
U12	LM324		4	11	5+10+12				C15
U13	74AL5573	20			10				C18
U14	74LS221	16			8				C20
U15	74AL5245				10+19				C21
U16	LM339		3		11+12				C22
U17	74AL5540	20			1+7+8+9+10+19				C23
U18	74AL5573	20			10				C25
U19	4.7K	16							C26
U20	74HC1273	20			10				C27
U21	74AL5240	20			1+10				C28
U22	74AL5240	20			19+10				C29
U23	74HC1273	20			10				C30
U24	74AL5240	20			1+10				C31
U25	74AL5240	20			19+10				C32
U26	74HC1273	20			10				C33
U27	74AL5240	20			1+10				C34
U28	74AL5240	20			19+10				C35
U29	74LS32	10+13+14			7				C37
U30	74LS32	14			7				C38
U31	74AL5573	20			10				C40
U32	74AL500	14			7				C41
U33	74LS74	10+14			7+13				C42
U34	74AL5573	20							C45
U35	4.7K	16							C46
U36	74LS74	14			7				C47
U37	74AL5573	20			10				C48
U38	PAL20L8	24			12				C49
U39	4.7K	16							C50
U40	PAL20L8	24			12				C51
U41	74AL5541	20			1+7+8+9+10+19				C53
U42	74AL5245	20			10+19				C54

U7-2,3,4,6,7,10,11,13,14
U39-9,10,11,12,13,14,15
U6-1,6,7,8,9,12,13,14,15,
U8-1,2,3,6,10,11,12,13,14,15
U35-4,6,7,15



TEST POINTS	
TP1	GND
TP2	+5VB
TP3	+24VB
TP4	+5V
TP5	GND
TP6	+12V
TP7	ADC CH1
TP8	-12V
TP9	RCVR_REF1_C0L
TP10	D0N0R_M0T10N_C0L
TP11	LCD_INTENSITY
TP12	ADC VREF
TP13	ADC CH2
TP14	ADC CH3
TP15	ADC CH4

Figure 5A
I/O BOARD Schemat
Style 2
Model 7700

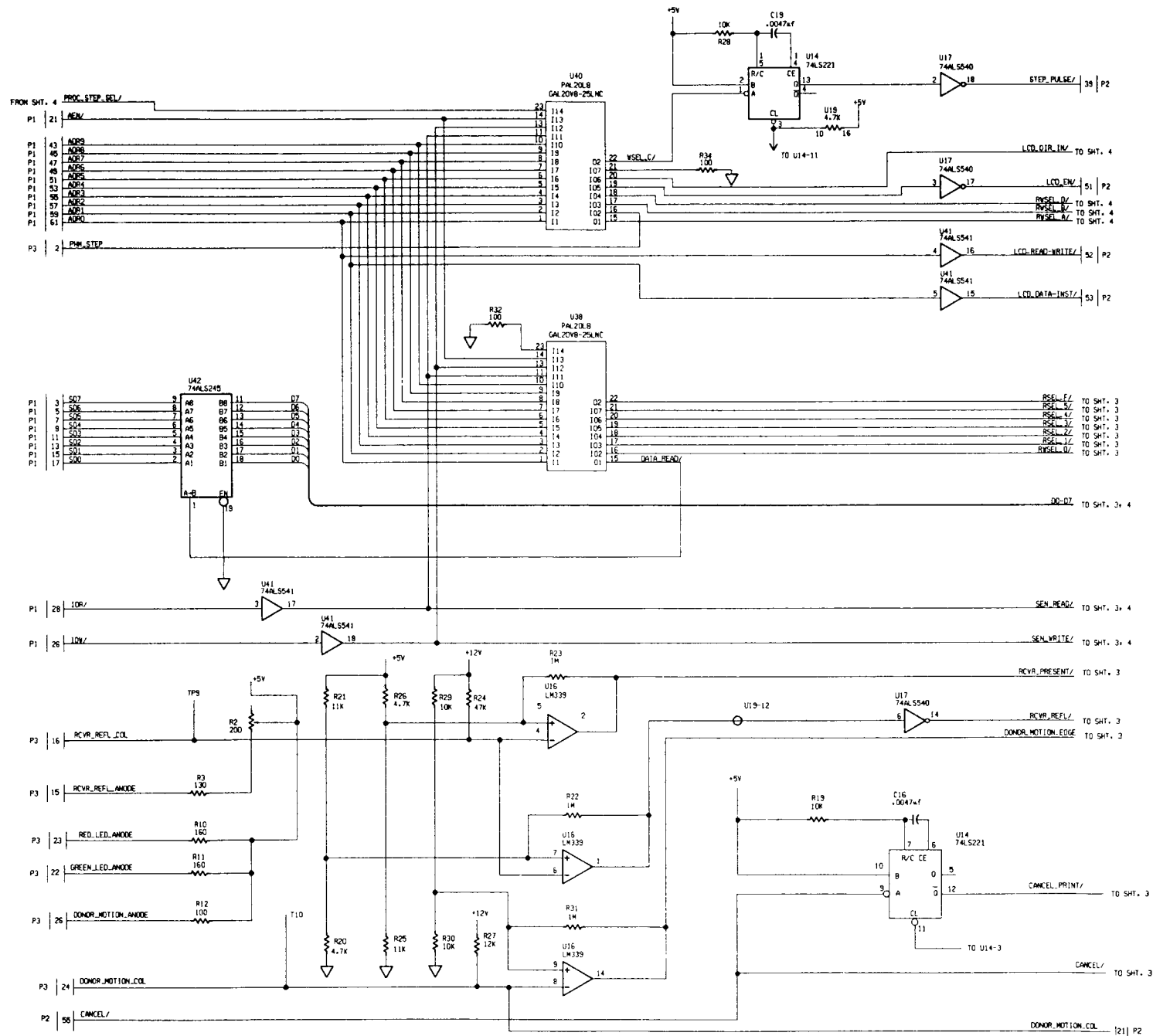
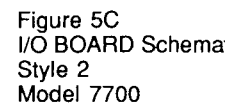
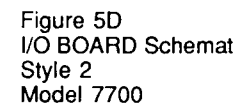


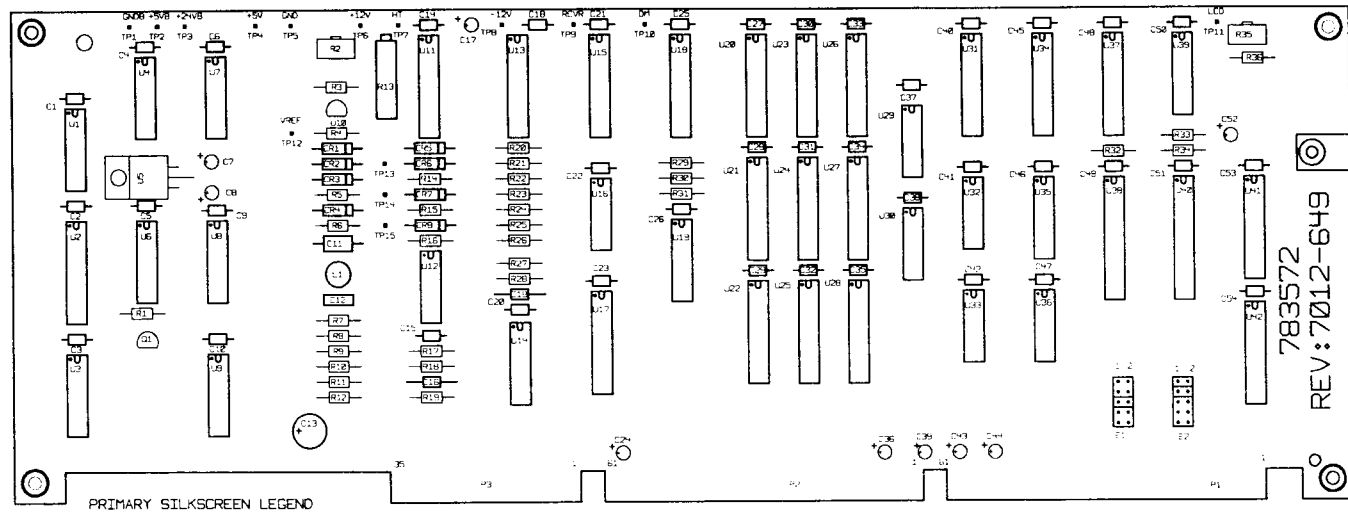
Figure 5B
I/O BOARD Schematic
Style 2
Model 7700





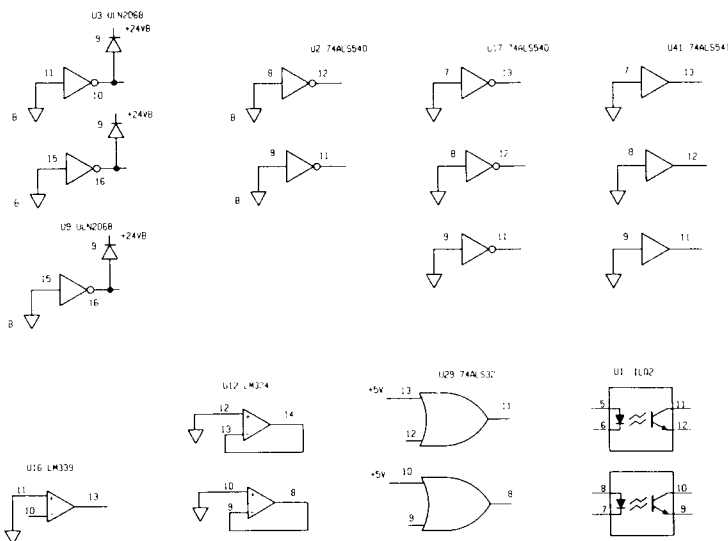
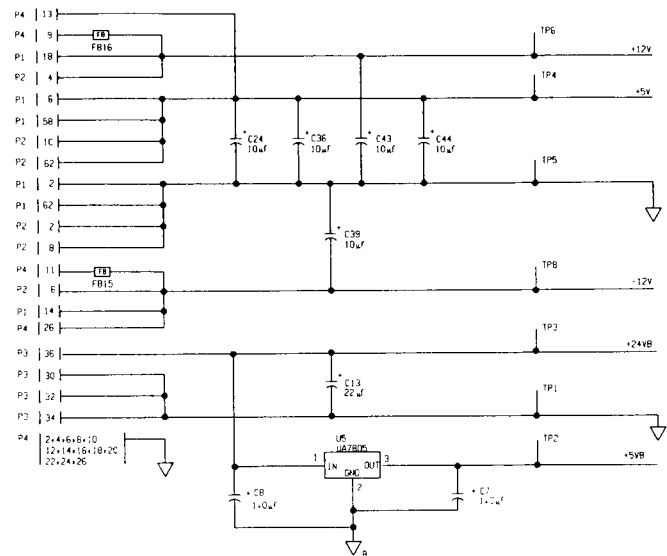
Item	Part no	Description	Quantity
1	744558	SCHEMATIC	1
2	783572	BOARD, PC (I/O)	1
3	122719	SCREW	1
4	251468	SHUNT, 2 PIN	1
5	946519	SOCKET, 16 PIN	2
6	252685	SOCKET, 24 PIN	2
7	363406	SOCKET, 20 PIN	1
8	256237	PROGRAM (744561) U38	1
9	256236	PROGRAM (744561) U40	1
10	220034	RESISTOR, 47K, 1/4W, 5%	2
11	220035	RESISTOR, 4.7K, 1/4W, 5%	2
12	220033	RESISTOR, 1.0 K, 1/4W, 5%, CARBON FILM	2
13	220034	RESISTOR, 10K, 1/4W, 5%	2
14	220056	RESISTOR, 1.2K, 1/4W, 5%	1
15	223490	RESISTOR, 100 OHM, 1/4W, 5%	1
16	231363	HEADER, UNSHROUDED 18 POSITION	1
17	231478	RESISTOR, 11K, 1/4W, 5%	2
18	239418	RESISTOR, 130 OHM, 1/4W, 5%	1
19	238107	RESISTOR, 20K, 1/4W, 1%, METAL FILM	1
20	241326	RESISTOR, 10K, 1/4W, 1%, METAL FILM	1
21	241424	IC, QUAD, OPTOISOLATOR, U102	1
22	251383	POTENTIOMETER, 10K, SINGLE TURN	1
23	251418	IC, A/D CONVERTOR, ADC0804HC04	1
24	253387	RESISTOR, 160 OHMS, 1/4W, 5%	2
25	253398	RESISTOR, 4.12K, 1/4W, 1%, MF	1
26	257317	BRANDKET, METAL	1
27	257427	RESISTOR, 3.40K, 1/4W, 1%, MF	1
28	258275	POTENTIOMETER, 200 OHM SINGLE TURN	1
29	258367	CAPACITOR, .1uF, 50V, 20%	38
30	259947	INDUCTOR, 2200uH, 10%	1
31	263096	IC, SN74ALS00N	1
32	337522	CAPACITOR, .002uF, 50V, 10%	1
33	375386	IC, 74HCT273N	3
34	379401	IC, 74ALS240N	2
35	379418	IC, 74ALS240N	2
36	379419	IC, SN74ALS240N	6
37	379459	IC, 74ALS594N	1
38	252337	CAPACITOR, 10.0uF 16V 20%	7
39	252314	CAPACITOR, 1.0uF 50V 20%	2
40	477966	IC, CLOCK MULTIVIBRATOR, 74LS221N	1
41	480043	RESISTOR NETWORK, 10K	1
42	486167	RESISTOR NETWORK, 4.7K	2
43	486275	CAPACITOR, .0047uF, 50V, 5%	2
44	486324	RESISTOR NETWORK, 1K	1
45	486268	RESISTOR NETWORK, 22K	1
46	496694	CAPACITOR, .220uF, 50V, 10%	1
47	522681	TRANSISTOR 2N3904RV TO-92	1
48	523609	DIODE, SIGNAL, 1N914	4
49	541858	IC, VOLTAGE COMPARATOR, LM339N	1
50	543668	VOLTAGE REGULATOR, 5V, 7805	1
51	569979	IC, LINEAR OP-AMP, LM324N	1
52	595952	IC, BINARY FLIP FLOP, 74LS74	2
53	613523	IC, 74ALS573	2
54	615226	IC, 74ALS32N	2
55	659576	IC, LOGIC BUFFER DRIVER, 74ALS540N	2
56	744561	IC, PAL20LBA-2	2
57	744694	LM336BZ, 5V REFERENCE DIODE	1
58	486168	CAPACITOR, 22uF, 100V, 20%	1
59	795638	TEST PIN .025 POST GOLD PLATED	876
60	220038	RESISTOR, 12K, 1/4W, 5%	1

NOTES: (1) 251468 SHUNT ASSY TO BE PLACED E1 PINS 5-6, E2 PINS 3-4
(2) U5 TO BE "AD" FORMED
(3) DO NOT PLACE C48, C50, TP14, TP15, P5, R13, R15, DR3, DR4, DR7, CR8, U37, U39



783572
REV: 7012-649

Figure 5E
I/O BOARD Componer
Style 2
Model 7700



POWER TABLE

DESIGN	PART NO.	+5V	+12V	-12V	GND	+5VB	+24VB	GND	BYPASS (CAPACITORS)
U1	74ALS540					20		13+16	C1
U2	74ALS540							1+8+9+10+19	C2
U3	74V2068					14	1+9	4+5+12+13	C3
U4	74ALS540							9+12+13+16	C4
U5	74V2068					3	1	2	C7+C8
U6	74ALS540					16			C5
U7	74ALS540								C6
U8	74ALS540						16		C9
U9	74ALS540								C10
U10	74ALS540					3	14	1+9	
U11	74ALS540								C14+C17
U12	74ALS540					7+10			C15
U13	74ALS540					5+10+12			
U14	74ALS540					10			C18
U15	74ALS540					8			C20
U16	74ALS540					10+19			C21
U17	74ALS540					11+12			C22
U18	74ALS540					1+7+8+9+10+19			C23
U19	74ALS540					10			C25
U20	74ALS540								C26
U21	74ALS540								C27
U22	74ALS540					1+10			C28
U23	74ALS540					19+10			C29
U24	74ALS540					10			C30
U25	74ALS540					1+10			C31
U26	74ALS540					19+10			C32
U27	74ALS540					10			C33
U28	74ALS540					19+10			C34
U29	74ALS540								C35
U30	74ALS540								C36
U31	74ALS540								C37
U32	74ALS540								C38
U33	74ALS540								C39
U34	74ALS540								C40
U35	74ALS540								C41
U36	74ALS540								C42
U37	74ALS540								C43
U38	74ALS540								C44
U39	74ALS540								C45
U40	74ALS540								C46
U41	74ALS540								C47
U42	74ALS540								C48
U43	74ALS540								C49
U44	74ALS540								C50
U45	74ALS540								C51
U46	74ALS540								C52
U47	74ALS540								C53
U48	74ALS540								C54
U49	74ALS540								C55

UNUSED RESISTOR SECTIONS

U7-2+3+4+6+7+10+11+13+14
 U9-9+10+11+12+13+14+15
 U6-1+6+7+8+9+12+13+14+15+
 U8-1+2+3+6+10+11+12+13+14+15
 U35 4+6+7+15

TEST POINTS

TP1	GND
TP2	+5VB
TP3	+24VB
TP4	+5V
TP5	GND
TP6	+12V
TP7	+12V
TP8	-12V
TP9	RECV REFL COL
TP10	DONOR MOTION COL
TP11	LCD INTENSITY
TP12	ADC VREF
TP13	FUNCTION H
TP14	HT2

Figure 5F
I/O BOARD Schematic
Style 3
Models 7700 and 77

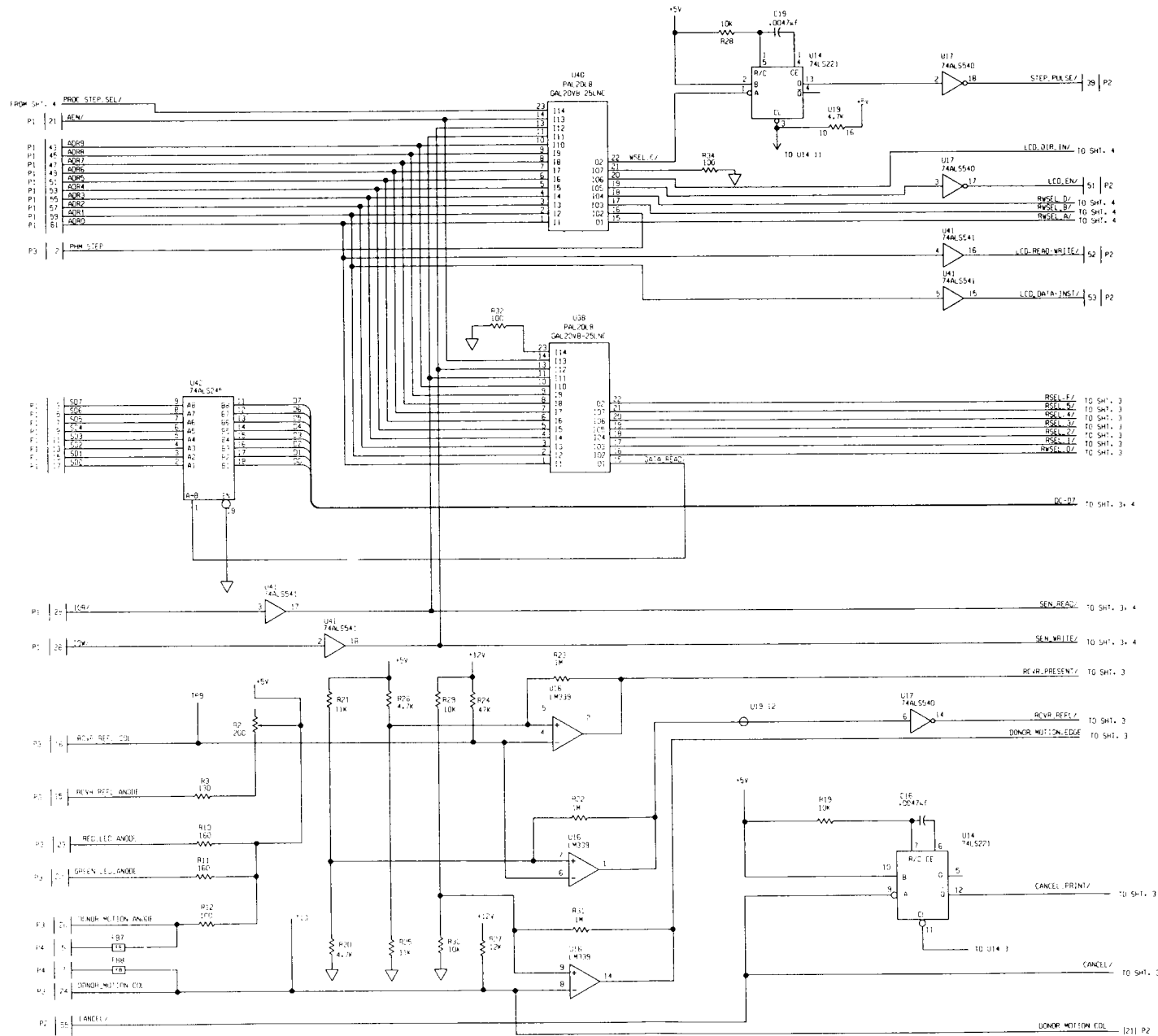


Figure 5G
I/O BOARD Schematic
Style 3
Models 7700 and 772

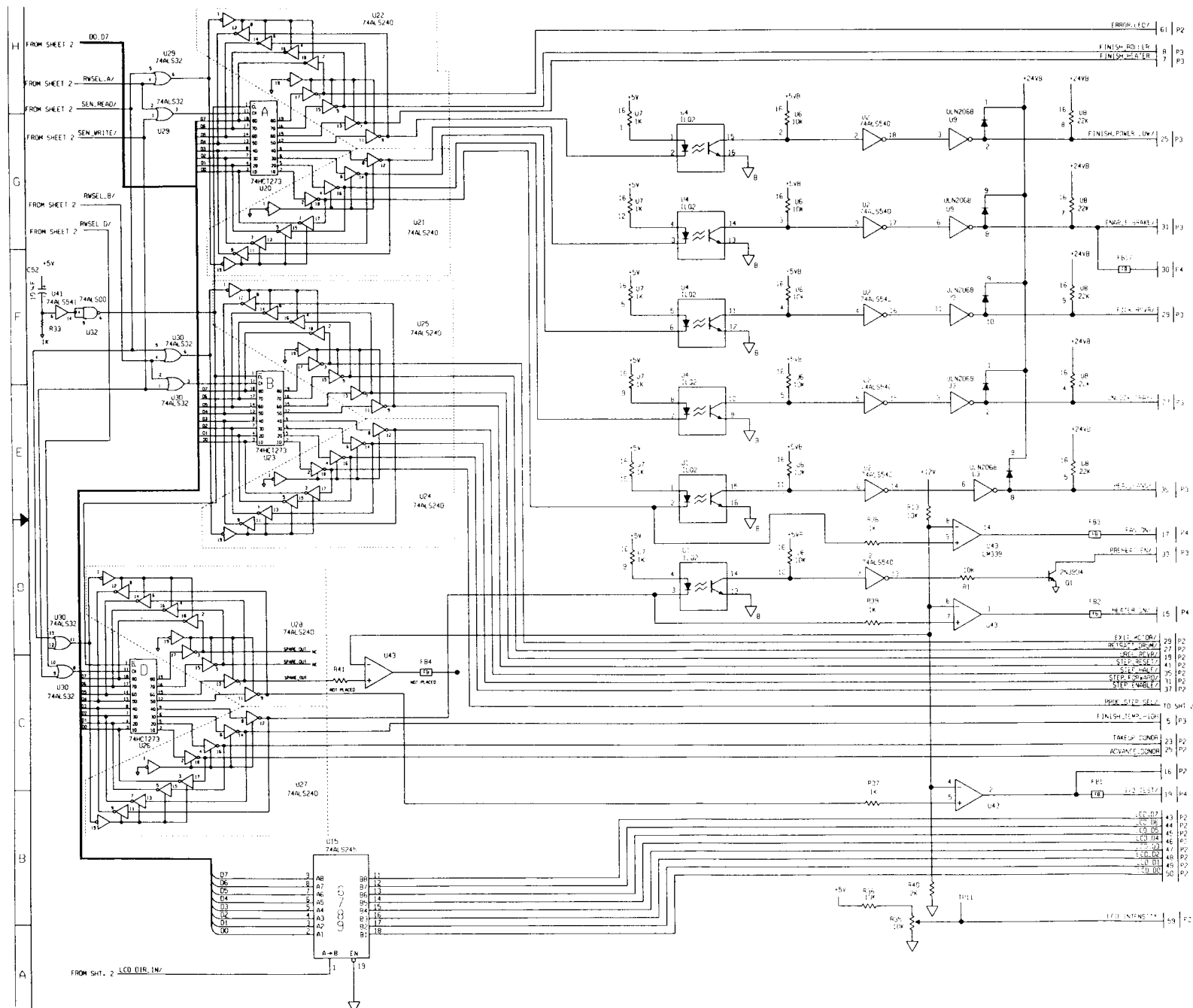
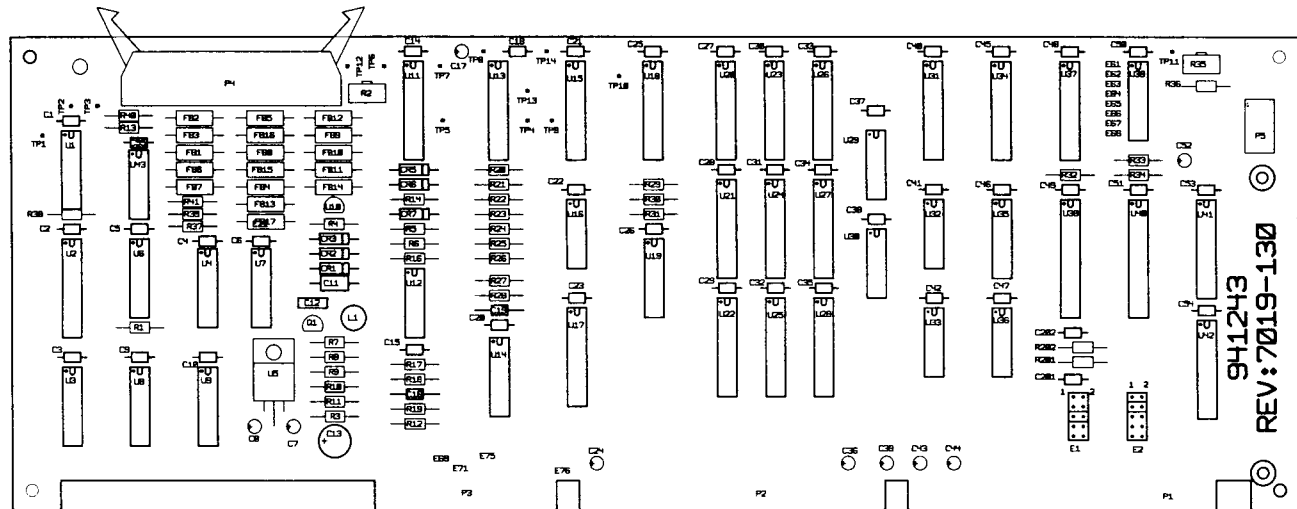


Figure 51
I/O BOARD Schematic
Style 3
Models 7700 and 772

Item	Part no	Description	Quantity
1	941242	SCHEMATIC	1
2	941243	BOARD,PC(1/0)	1
3	122719	SCREW	2
4	251468	SHUNT,2 PIN	2
5	548519	SOCKET,16 PIN	2
6	252325	SOCKET,24 PIN	2
7	363406	SOCKET,28 PIN	1
8	256297	PROGRAM (744561) U3B	1
9	256298	PROGRAM (744561) U4B	1
10	220058	RESISTOR,47K,1/4W,5%	1
11	220059	RESISTOR,4.7K,1/4W,5%	2
12	220060	RESISTOR 12K 1/4W 5% C.F.	1
13	220064	RESISTOR,1K,1/4W,5%	7
14	220063	RESISTOR,1.0 M,1/4W,5%,CARBON FILM	3
15	220064	RESISTOR,10K,1/4W,5%	7
16	220058	RESISTOR,2K 1/4W 5% CARBON FILM	1
17	220066	RESISTOR,1.2K,1/4W,5%	1
18	223498	RESISTOR,100 OHM,1/4W,5%	6
19	231393	HEADER,UNSHROUDED 18 POSITION	2
20	231478	RESISTOR,11K,1/4W,5%	2
21	233418	RESISTOR,130 OHM,1/4W,5%	1
22	239187	RESISTOR,20K 1/4W 1%,METAL FILM	1
23	241326	RESISTOR,10K 1/4W 1%,METAL FILM	3
24	241424	IC,QUAD,OPTOISOLATOR,IL02	2
25	241478	HEADER SHROUDED POLARIZED 2 POS	1
26	251393	POTENTIOMETER,10K, SINGLE TURN	1
27	251418	IC,A/D CONVERTER,AD0804HCN	1
28	252314	CAPACITOR,ELECTROLYTIC,1uF,50V,20%	2
29	252337	CAPACITOR,10uF,15V,20%	2
30	253387	RESISTOR,100 OHMS,1/4W,5%	7
31	253398	RESISTOR,4.12K,1/4W,1%,F	1
32	257317	BRACKET,METAL	1
33	257343	CONNECTOR,AMPLATCH 38 POS RIGHT	1
34	257427	RESISTOR,3.48K,1/4W,1%,F	1
35	258275	POTENTIOMETER,200 OHM SINGLE TURN	1
36	258367	CAPACITOR,1uF,50V,20%	4
37	259947	INDUCTOR,2200uH,10%	1
38	263066	IC,SN74ALS24N	1
39	337307	SHIELD BEAD,FERRITE	17
40	337522	CAPACITOR,.002uF,50V,10%	1
41	375399	IC,74HC1273N	3
42	375401	IC,74LS245N	2
43	375418	IC,74ALS245N	2
44	375419	IC,SN74ALS245N	2
45	375459	IC,74ALS511N	1
46	477366	IC,CLOCK MULTIVIBRATOR,74LS221N	1
47	480043	RESISTOR NETWORK,10K	1
48	486167	RESISTOR NETWORK 4.7K	3
49	486168	CAPACITOR,22uF,100V,20%	1
50	486275	CAPACITOR,.0047uF,50V,5%	2
51	486324	RESISTOR NETWORK,1K	1
52	482698	RESISTOR NETWORK 22K	1
53	488694	CAPACITOR,.220uF,50V,10%	1
54	522981	TRANSISTOR 2N3638V TO-18	1
55	523688	DIODE,SIGNAL,1N914	6
56	541058	IC,VOLTAGE COMPARATOR,LM339N	2
57	545698	VOLTAGE REGULATOR,5V,7805	1
58	555579	IC,LINEAR OP-AMP,LM324N	1
59	565052	IC,BINARY FLIP FLOP,74LS74	2
60	613523	IC,74ALS573	5
61	615226	IC 74ALS32N	2
62	659576	IC,LOGIC BUFFER DRIVER,74ALS540N	2
63	744561	IC,PAL20L8A-2	2
64	744564	LM555CZ,5V REFERENCE DIODE	1
65	795638	TEST PIN .025 POST GOLD PLATED 876	14
66	337448	CAPACITOR,.001uF,100V,20%	2
67	616392	LATCH	2

NOTES: (1) 251468 SHUNT ASSY TO BE PLACED E1 PINS 5-6,E2 PINS 3-4
(2) U5 TO BE "AD" FORMED



941243
REV:7019-130

Figure 5J
I/O BOARD Component
Style 3
Models 7700 and 7720

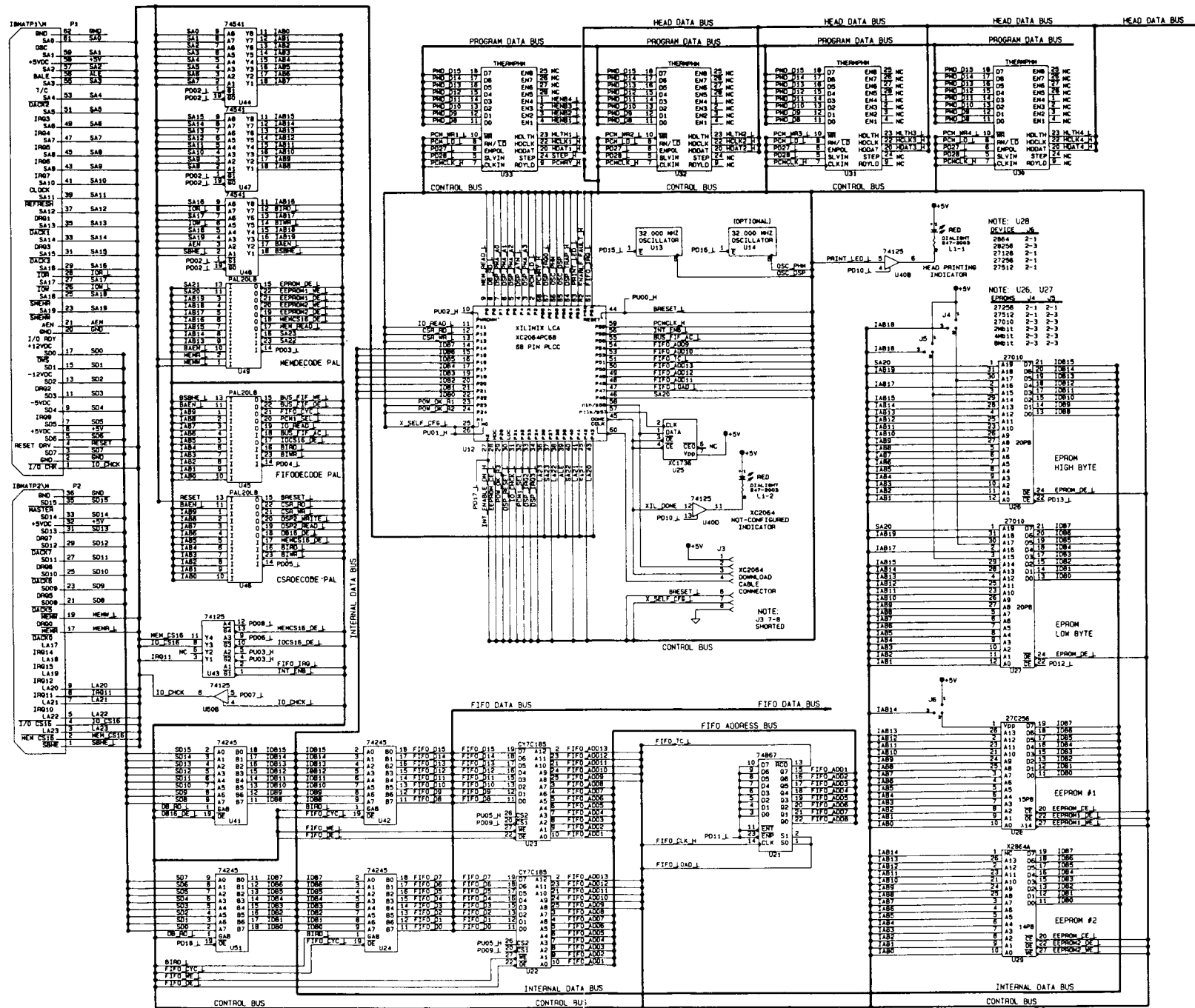


Figure 6
DSP BOARD Sx
Models 7700 an

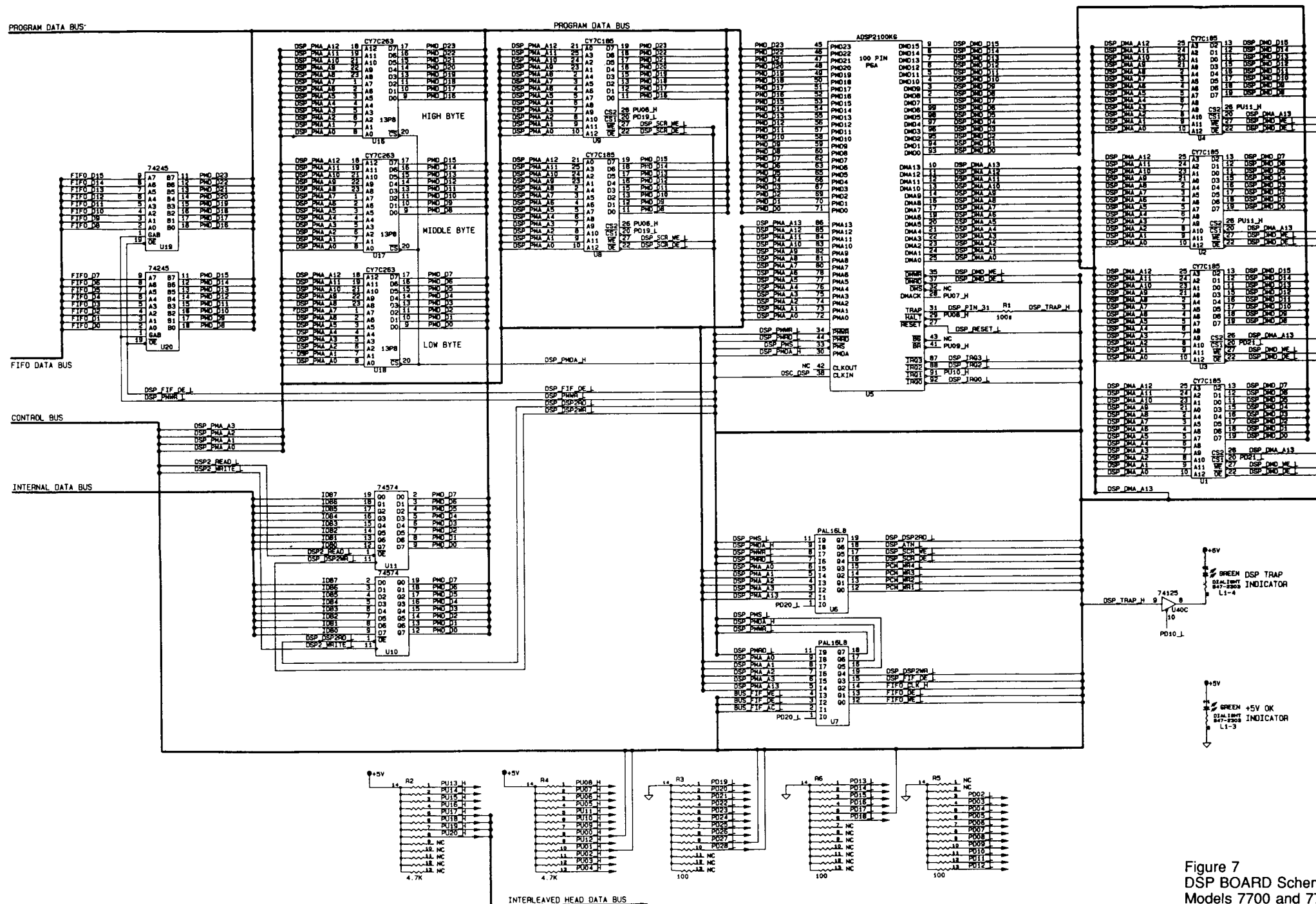
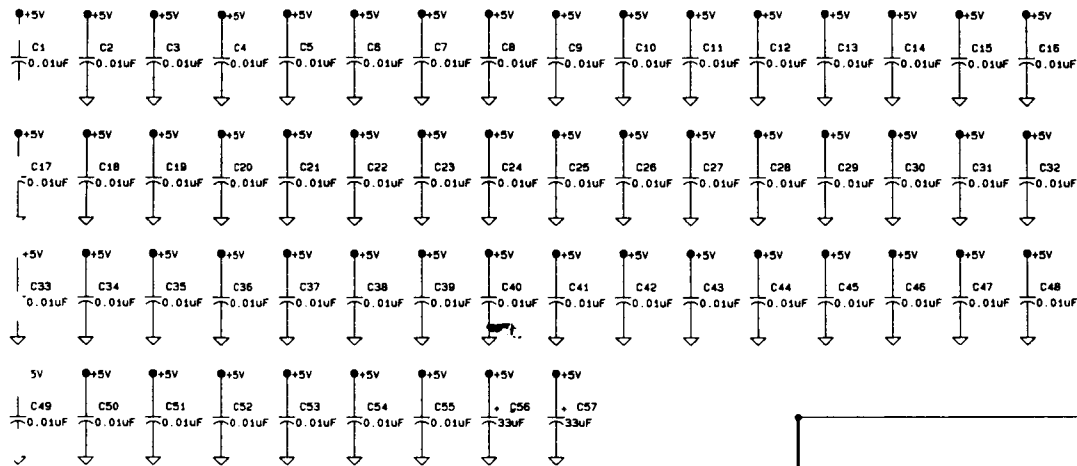
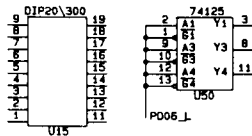


Figure 7
DSP BOARD Schen
Models 7700 and 771

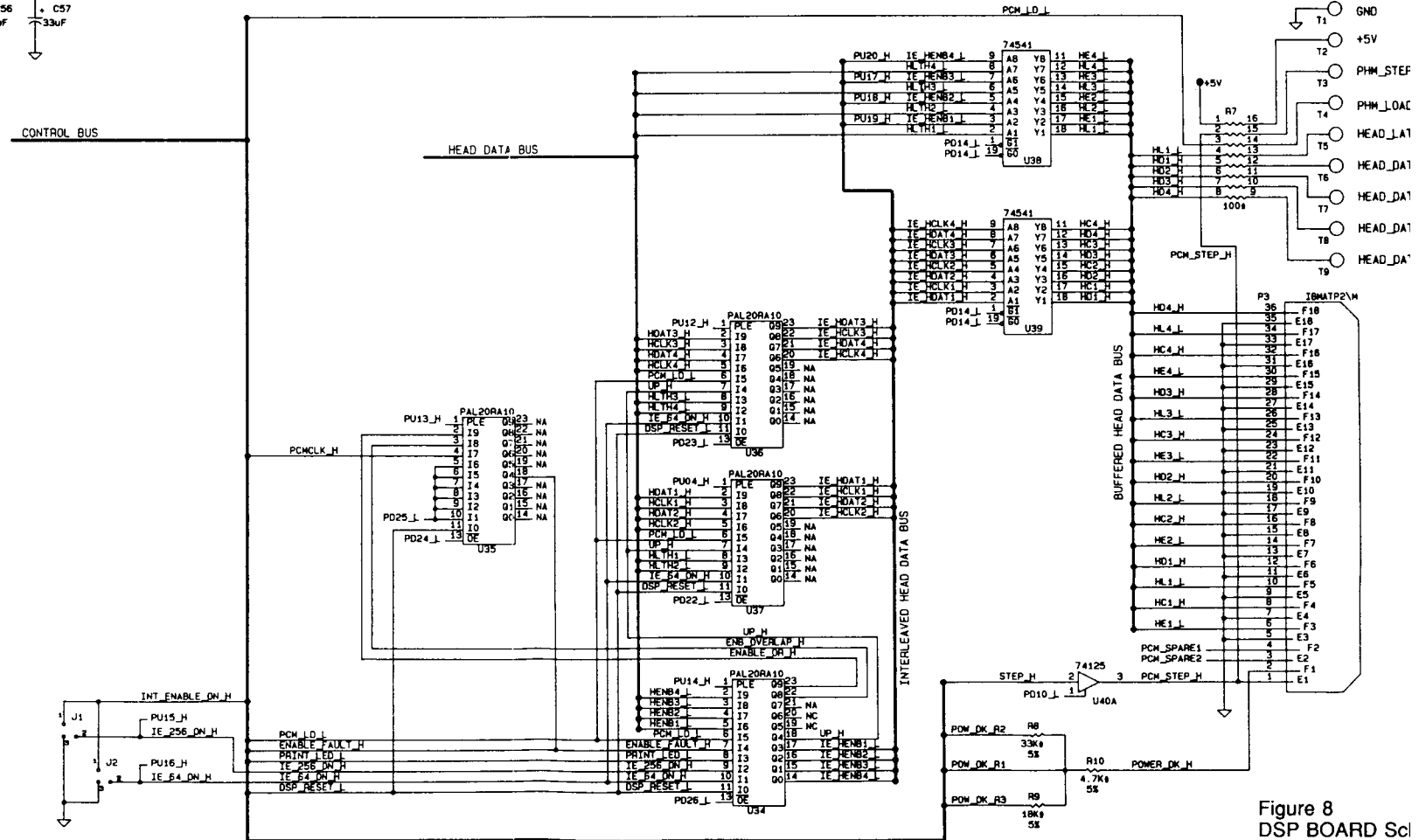


SPARE IC PACKAGES



NOTE: J1, J2 SETTINGS

	J1	J2
NO ENABLE PULSE INTERLEAVE	2-3	2-3
ENABLE PULSE INTERLEAVE WITH 64 LEVELS	2-3	1-2
ENABLE PULSE INTERLEAVE WITH 256 LEVELS	1-2	2-3



TEST

Figure 8
DSP BOARD Scl
Models 7700 and

NOTES:

SHUNT ASSY 7445B6 TO BE PLACED AS FOLLOWS:

- J1 2-3
- J2 1-2
- J3 7-8
- J4 2-3
- J5 2-3
- J6 2-3

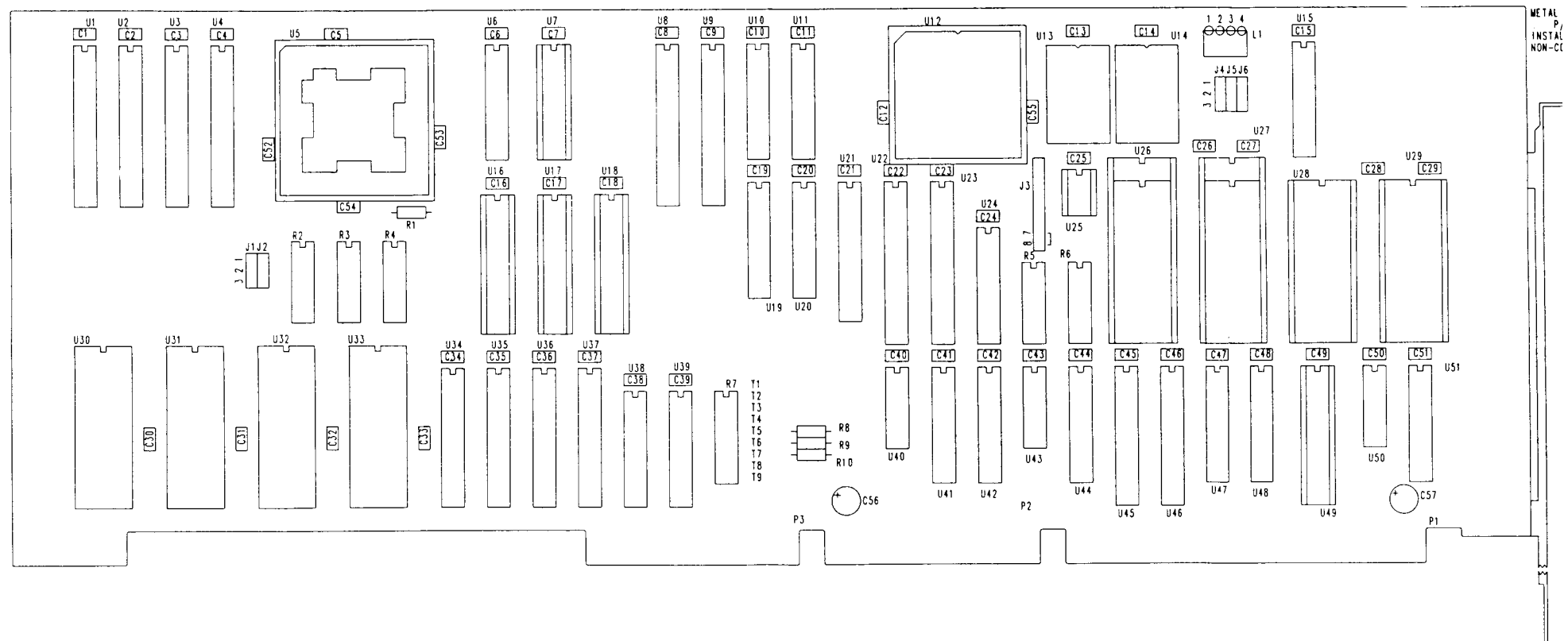


Figure 9
DSP BOARD Compop
Models 7700 and 772

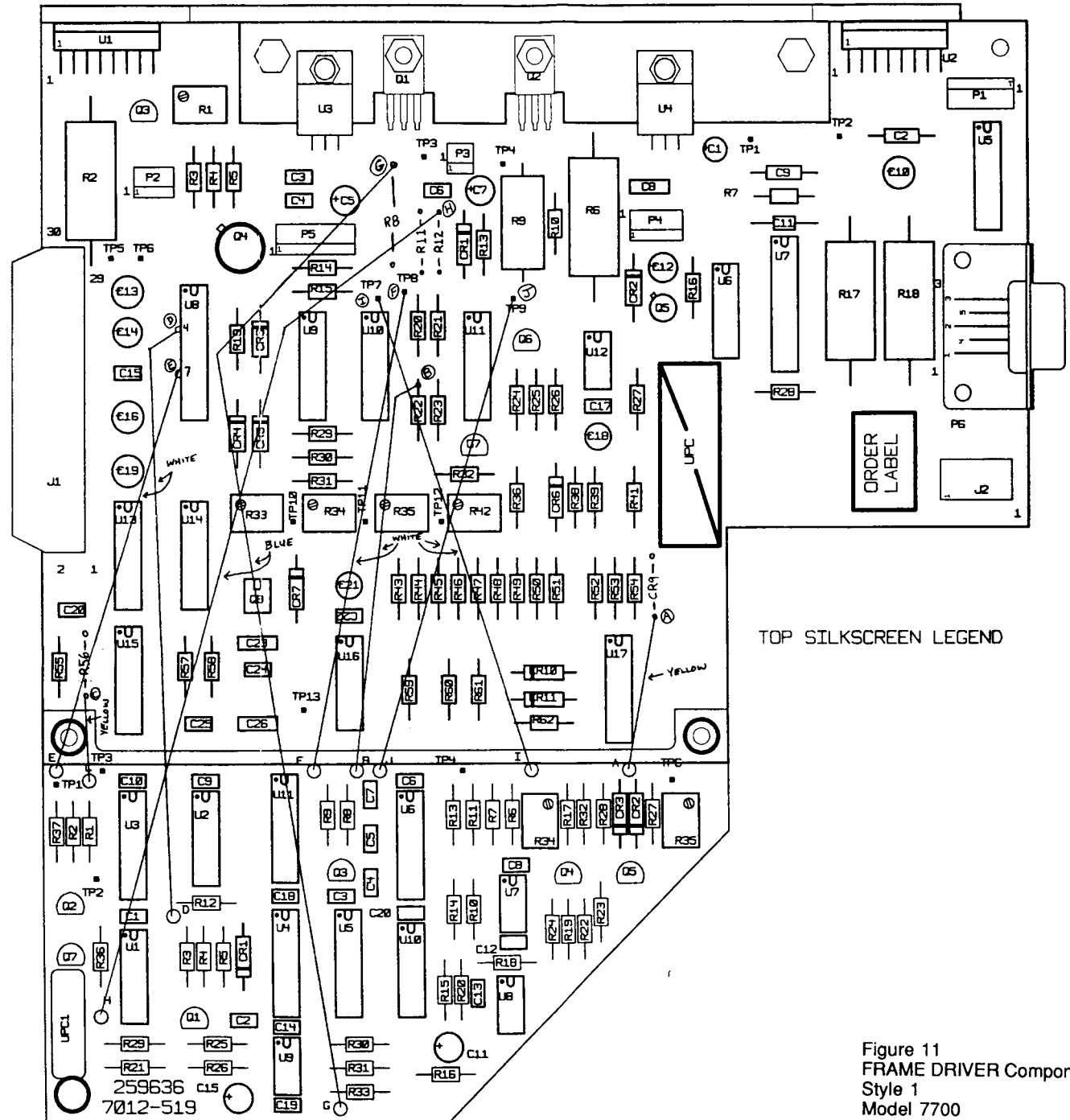


Figure 11
FRAME DRIVER Component
Style 1
Model 7700

NOTES:

- (1) U1,U2,Q1,Q2 TO BE "AH" FORM
- (2) LATCHING POSTS(744628)TO BE ASSEMBLED AS FOLLOWS:
POST THROUGH 1 LOCKWASHER, THEN 1 FLATWASHER, THEN
THROUGH CONNECTOR BODY AND SCREWED INTO RIGHT
ANGLE BRACKET OR STANDOFF.DO NOT TIGHTEN UNTIL
AFTER CONNECTOR IS INSTALLED ONTO BOARD,BUT PRIOR
TO SOLDER.
- (3) W2 NOT USED.
- (4) INSERT SCREW INTO HEATSINK FIRST, THEN INTO DEVICE
(U1 & U2).

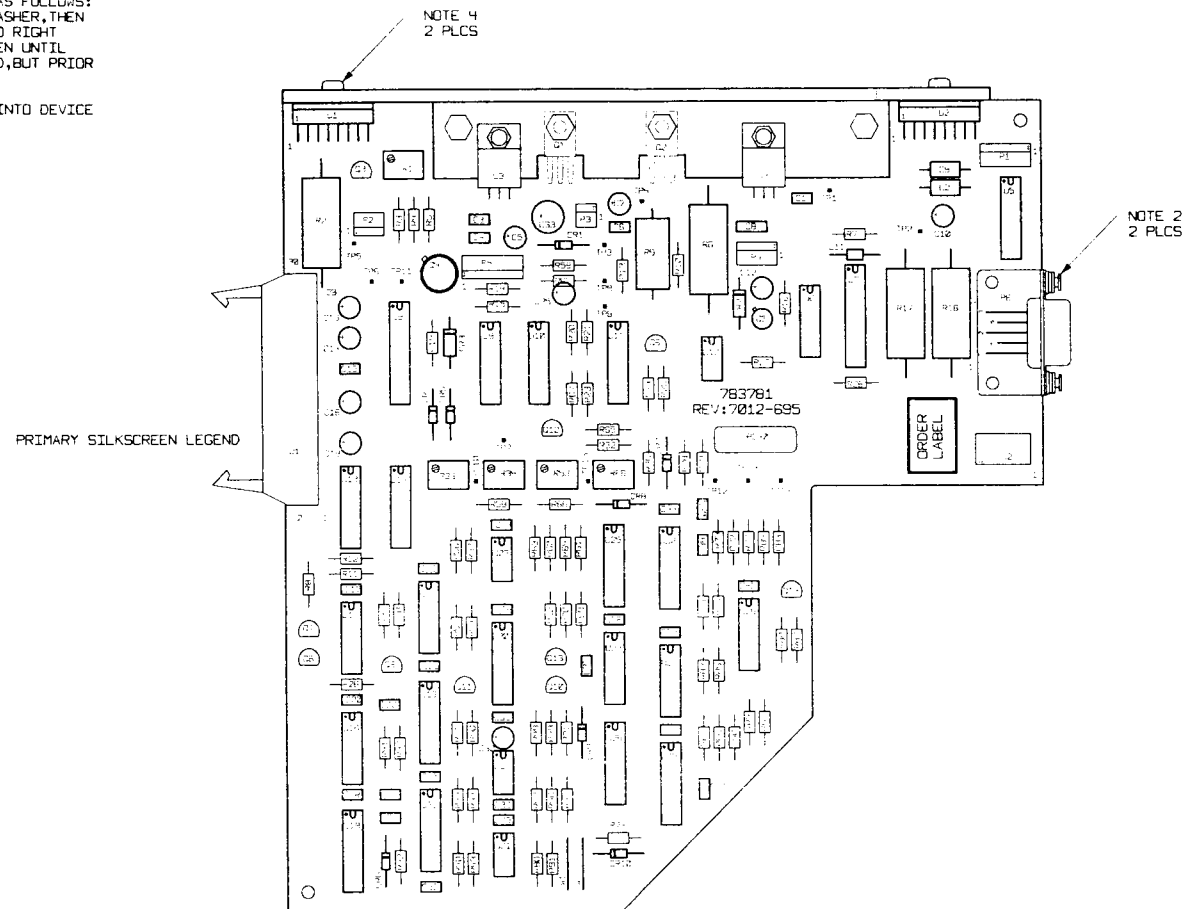


Figure 11A
FRAME DRIVER Componen
Style 2
Models 7700 and 7720

Item	Code no	Description	Quantity	Item	Code no	Description	Quantity
1	783780	SCHEMATIC,FRAME DRIVER	0	49	252336	CAPACITOR,4.7uF,35V,20%	1 C12
2	783781	BOARD-PRINTED CIRCUIT,FRAME DRIVER	1	50	253383	IC,L7150	1 U1
3	616392	LATCH, LONG	2 XU1	51	257340	L6210 DUAL SCHOTTKY DIODE BRIDGE	1 U5
4	744603	STUD	8 XH1 XP6 XU3 XU4 XQ1 XQ2	52	257341	CONNECTOR,POST 5 POS	1 P6
5	179713	NUT, SMALL	10 XH1 XP6 XU1 XU2 XU3 XU4 XQ1 XQ2	53	257343	CONNECTOR,AMPLATCH 30 POS RIGHT	1 J1
6	128531	FLATWASHER	10 XH1 XP6 XU1 XU2 XU3 XU4 XQ1 XQ2	54	258372	TRANSISTOR,2N3964	1 Q5
7	105420	LOCKWASHER	10 XH1 XP6 XU1 XU2 XU3 XU4 XQ1 XQ2	55	259629	IC,DAC-08 EP,DIP16	2 U31 U32
8	744608	LATCHING POST	2 XP6	56	291560	IC,LF353N,JFET DUAL OP AMP	1 U22
9	717786	PAD-MULTIWATT	2 XU1 XU2	57	324670	RESISTOR,12 OHM,1/4W,5%	1 R62
10	122666	SCREW,4-40	2 XU1 XU2	58	336676	CAPACITOR,3300pF 50V 10%	1 C11
11	241420	PAD,T0-18	4 XU3 XU4 XQ1 XQ2	59	336825	CAPACITOR,.1uF,50V,10%	25 C1 C3 C4 C6 C17 C18 C20 C21 C22 C23 C24 C26 C27 C28 C29 C31 C32 C34 C36 C37 C38 C39 C42 C43 C44
12	485986	SHOULDER WASHER	2 XU1 XU2				
13	175837	DIODE,1N4001	2 CR2 CR3				
14	190584	RESISTOR 0.5 OHM 5W 10%	2 R17 R18				
15	616706	SPACER	1 XQ4				
16	201109	Diode 1N4148	8 CR1 CR4 CR5 CR6 CR7 CR8 CR9 CR10	60	377300	2N4403 RV	1 Q3
17	218598	RESISTOR,75K,1/4W,5%	1 R91	61	432576	IC,HEX BUFFER,4049	1 U20
18	219433	RESISTOR,2.2K,1/4W,5%	8 R8 R21 R26 R35 R45 R46 R67 R70	62	432640	IC,2 IN DUAL NAND,4093BE	1 U15
19	220034	RESISTOR,47K,1/4W,5%	11 R25 R27 R50 R81 R82 R85 R86 R87 R88 R89	63	437412	RESISTOR NETWORK,10K 8 ISOLATED	1 U11
20	220035	RESISTOR,4.7K,1/4W,5%	2 R41 R79	64	440818	CAPACITOR,.1uF,50V,10%	2 C2 C9
21	220036	RESISTOR 470 OHM 1/4W 5%	1 R5	65	480042	IC,8 IN NAND,14068	2 U16 U27
22	220044	RESISTOR,1K,1/4W,5%	8 R11 R12 R38 R48 R59 R69 R84 R92	66	480139	HEADER AMP 640456-3 3 POS STRAIGHT	1 P2
23	220053	RESISTOR,1.0 M,1/4W,5%,CARBON FILM	2 R47 R49	67	480309	HEADER AMP 640456-2 2 POS STRAIGHT	1 P3
24	220054	RESISTOR,10K,1/4W,5%	11 R3 R14 R16 R28 R36 R43 R55 R58 R61 R77 R83	68	480700	IC,12 BIT BINARY COUNTER,14040	2 U19 U28
25	220060	RESISTOR,22K,1/4W,5%	1 R7	69	480877	IC,LINEAR OP-AMP,LM358N	3 U12 U21 U23
26	220062	RESISTOR,5.6K,1/4W,5%	4 R39 R40 R72 R73	70	486324	RESISTOR NETWORK,1K	1 U13
27	220064	100K 1/4W 5% CARBON FILM	8 R13 R19 R22 R56 R57 R71 R74 R520	71	493128	RESISTOR,2.4K,1/4W,5%	3 R44 R75 R76
28	223490	RESISTOR,100 OHM,1/4W,5%	2 R4 R64	72	493129	RESISTOR,20K,1/4W,5%	2 R63 R80
29	224790	RESISTOR,82K,1/4W,5%	1 R60	73	493131	RESISTOR,51K,1/4W,5%	1 R24
30	224781	RESISTOR,1.8K,1/4W,5%	1 R51	74	493221	RESISTOR,75 OHM,5%,10%	1 R6
31	224783	390 OHM 1/4W 5%	1 R68	75	522881	TRANSISTOR 2N3904RV TO-92	9 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14
32	224788	RESISTOR,8.2K,1/4W,5%	3 R20 R23 R54				
33	224791	RESISTOR 39K 1/4W 5% CARBON FILM	1 R52	76	257337	HEATSINK-CRIVER	1 H1
34	231347	RESISTOR,7.5K,1/4W,5%	3 R42 R65 R78	77	528668	TRANSISTOR,2N5191	2 Q1 Q2
35	235891	RESISTOR,820 OHM,1/4W,5%	1 R15	78	537898	RESISTOR,5 OHM,5W,5%	1 R2
36	236321	HEADER AMP 640456-6 6 POS STRAIGHT	1 P5	79	549660	VOLTAGE REGULATOR,5V,7805	1 U4
37	236322	HEADER 5 PIN 640456-5 AMP	1 P1	80	555081	IC,AND QUAD 2IN	2 U17 U24
38	236375	CAPACITOR,10uF,50V,20%,AL ELEC	4 C5 C7 C14 C35	81	565979	IC,LINEAR OP-AMP,LM324N	1 U29
39	236377	HEADER AMP 640456-4 4 POS STRAIGHT	1 P4	82	571752	RESISTOR,5.1K 1/4W 5% CARBON FILM	1 R32
40	241261	IC,L298N DUAL FULL BRIDGE DRIVER	1 U2	83	571770	POT,2K,1/2W,10%,MULTI-TURN	2 R33 R66
41	241262	L297N STEPPER MOTOR CONTROLLER	1 U7	84	571771	POTENTIOMETER,1K,1/2W,10%,MULTI	1 P1
42	241424	IC,QUAD,OPTOISOLATOR,IL02	3 U9 U10 U14	85	581471	CAPACITOR,47uF 50V 20% ELECTROLYTIC	1 C33
43	241470	HEADER SHROUDED POLARIZED 2 POS	1 J2	86	581477	50K 3255A-1-1503 80URNS	2 R34 R52
44	241522	RESISTOR,22 OHM,1/4W,5%	1 R10	87	588564	74LS541 OCTAL BUFFER/LINE DRIVER	1 U8
45	251446	CAPACITOR,1uF,50V,20%,ELECTRO	1 C30	88	595001	IC,SN74LS14N	1 U6
46	251448	CAPACITOR,22uF,50V,20%,AL ELECT	4 C10 C13 C16 C19	89	613996	IC,BINARY FLIP/FLOP,4027	3 U18 U25 U26
47	251499	CAPACITOR,0.01uF 15V CERAMIC 20%	4 C15 C25 C40 C41	90	678261	WIRE JUMPER,UNINSULATED,22 AWG	1 X1
48	251500	CAPACITOR,.33uF 50V 20%	1 C8	91	791685	TRANSISTOR,PNP GENERAL PURPOSE 2N2	1 Q4
				92	795638	TEST PIN .025 POST GOLD PLATED	15 TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 TP9 TP10 TP11 TP12 TP13 TP14 TP15
				93	898213	RESISTOR,2.2 OHM,2W,10%,WIREWOUND	1 R9
				94	588831	VOLTAGE REGULATOR,12V,7812	1 U3
				95	784085	MOD DRAWING-FRAME DRIVER ASSY	0
				96	236353	CAPACITOR,10 uF,50V,ELECTRO	1 C45

Figure 11B
FRAME DRIVER Schematic
Style 2
Models 7700 and 7720

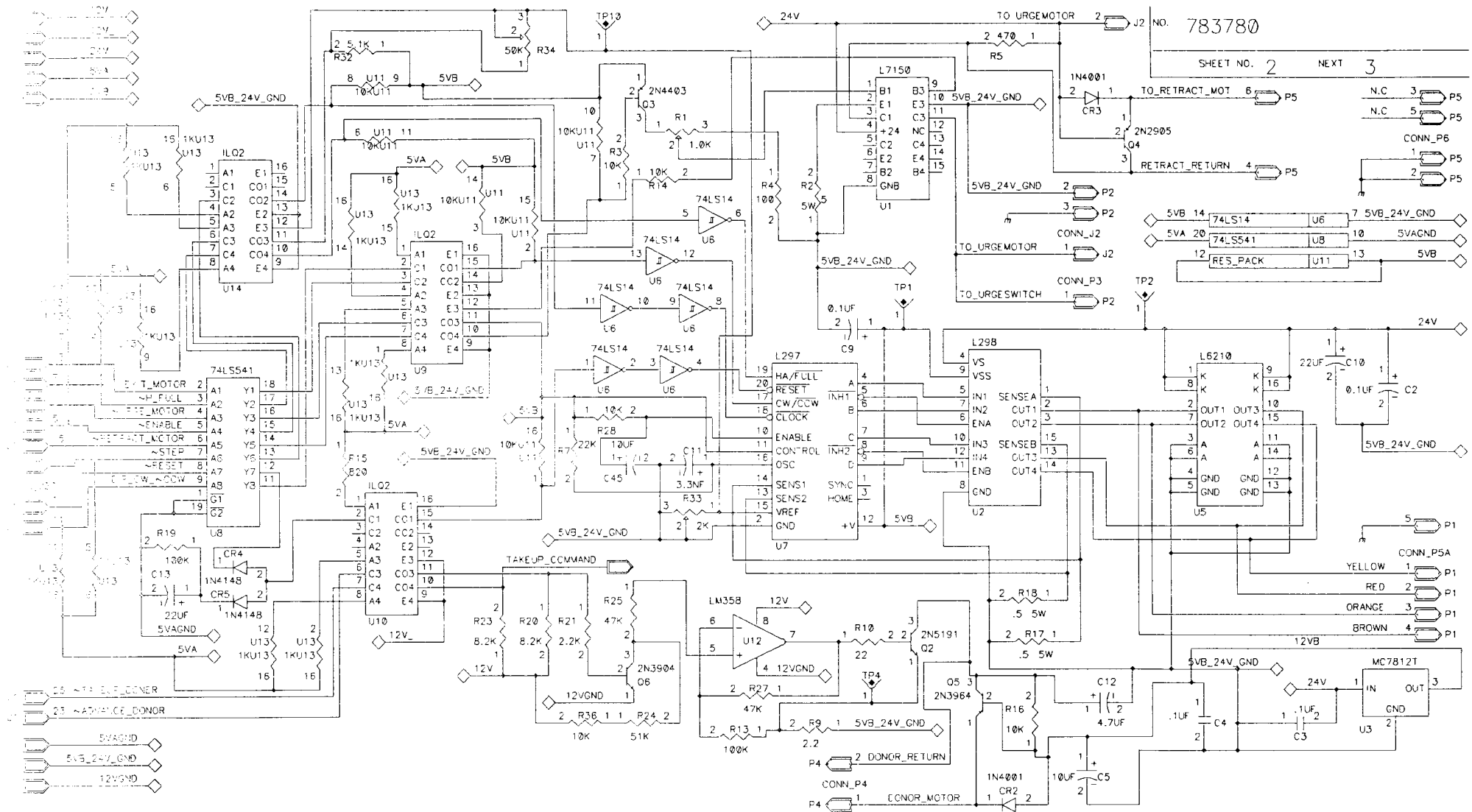


Figure 11D
FRAME DRIVER Schematic
Style 2
Models 7700 and 7720

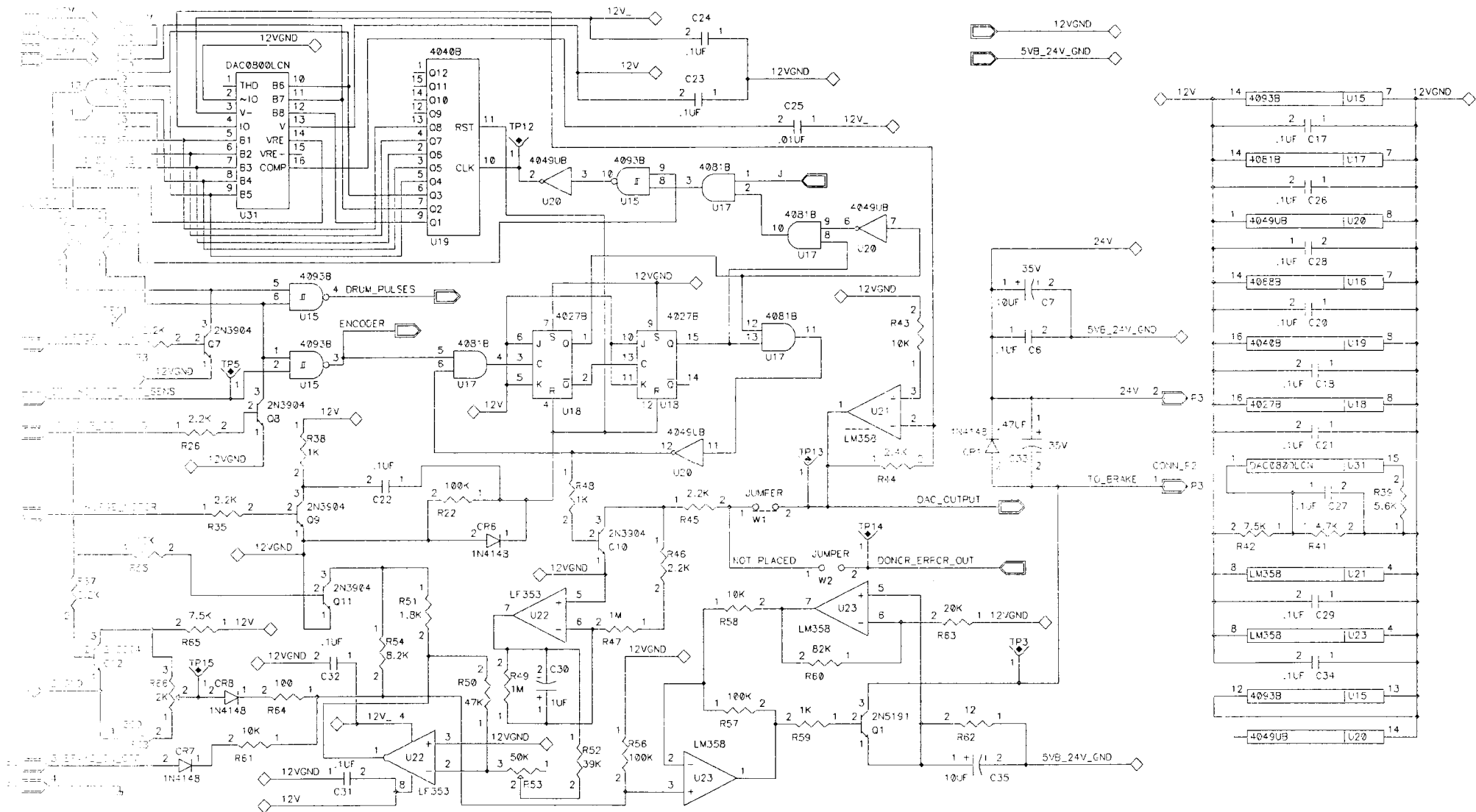


Figure 11E
FRAME DRIVER Schema
Style 2
Models 7700 and 7720



Part no	Description	Quantity	Ref Des
744540	BOARD-PC	1	
219433	RESISTOR,2.2K,1/4W,5%	2	R3 R21
220033	RESISTOR,3.3K,1/4W,5%	2	R5 R20
220035	RESISTOR,4.7K,1/4W,5%	6	R6 R7 R8 R14 R22 R23
220060	RESISTOR,22K,1/4W,5%	1	R18
220062	RESISTOR,5.6K,1/4W,5%	2	R1 R2
227563	RESISTOR,240K,1/4W,5%	2	R4 R19
241470	HEADER SHROUDED POLARIZED 2 POS	4	J1 J2 J3 J10
253387	RESISTOR,160 OHMS,1/4W,5%	3	R10 R12 R13
273970	HEADER SHROUDED POLARIZED 5 POS	5	J4 J5 J6 J7 J8
734518	HEADER,RIGHT ANGLE 20 POS.	1	J12
440818	CAPACITOR,.1uF,50V,10%	4	C1 C2 C3 C4
448117	POT,250K,1/2W	1	R9
535871	IC,VOLTAGE COMPARATOR,311N	2	U1 U2
795638	TEST PIN,AMP .025	14	TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 TP9 TP10 TP11 TP12 TP13 TP14
616392	LATCH, LONG	2	XJ12
273970	HEADER SHROUDED POLARIZED 5 POS	0	J9
220035	RESISTOR,4.7K,1/4W,5%	0	R15
253387	RESISTOR,160 OHMS,1/4W,5%	0	R11 R16 R17

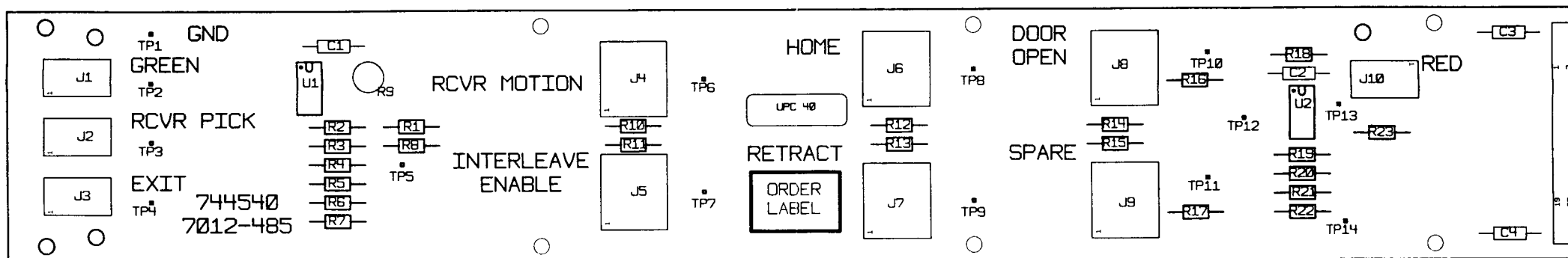


Figure 13
FRAME SENSOR Compor
Models 7700 and 7720

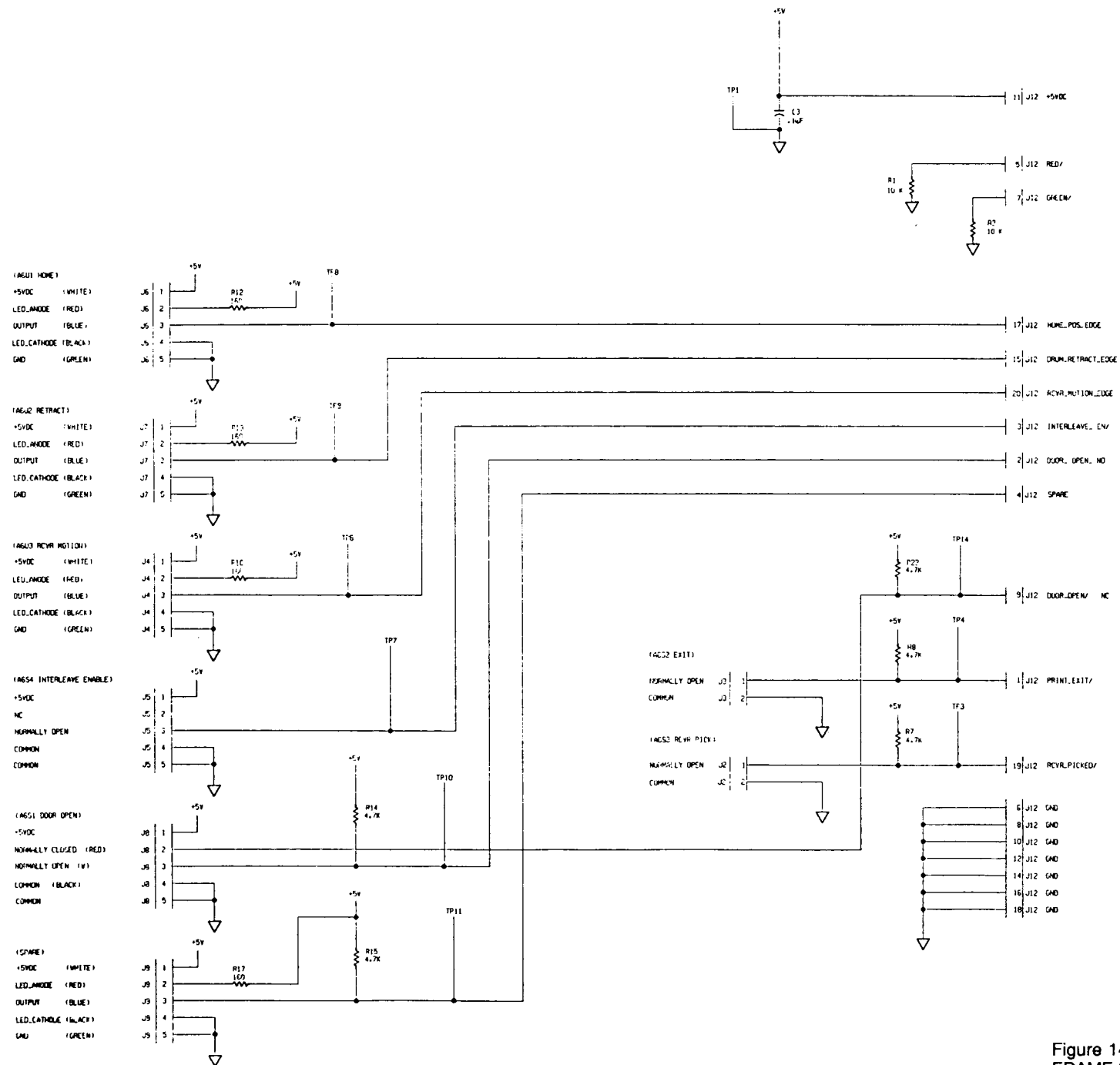


Figure 14
FRAME SENSOR, B/W Schematic
Model 7700

Part No	Description	Quantity
259366	BOARD-PC,FRAME SENSOR,8/W	1
220035	RESISTOR,4.7K,1/4W,5%	4 R7 R8 R14 R22
220054	RESISTOR,10K,1/4W,5%	2 R1 R2
241470	HEADER SHROUDED POLARIZED 2 POS	2 J2 J3
253387	RESISTOR,160 OHMS,1/4W,5%	3 R10 R12 R13
273970	HEADER SHROUDED POLARIZED 5 POS	5 J4 J5 J6 J7 J8
734518	HEADER,RIGHT ANGLE 20 POS.	1 J12
440818	CAPACITOR,.1uF,50V,10%	1 C3
795638	TEST PIN,AMP .025	9 TP1 TP3 TP4 TP6 TP7 TP8 TP9 TP10 TP14
616392	LATCH, LONG	2 XJ12

273970	HEADER SHROUDED POLARIZED 5 POS	0 J9
220035	RESISTOR,4.7K,1/4W,5%	0 R15
253387	RESISTOR,160 OHMS,1/4W,5%	0 R17
795638	TEST PIN,AMP .025	0 TP11

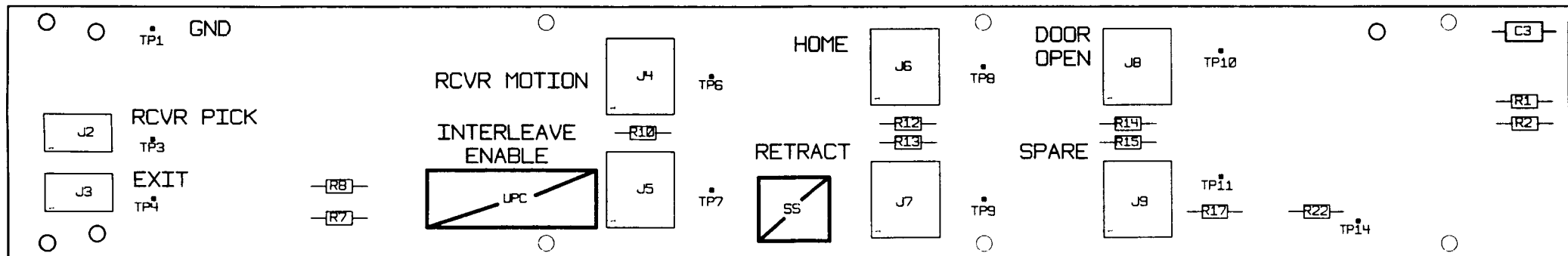
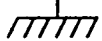


Figure 15
FRAME SENSOR Components, E
Model 7700

NOTE:  CONNECTION TO ENCLOSURE AT MOUNTING HOLE.

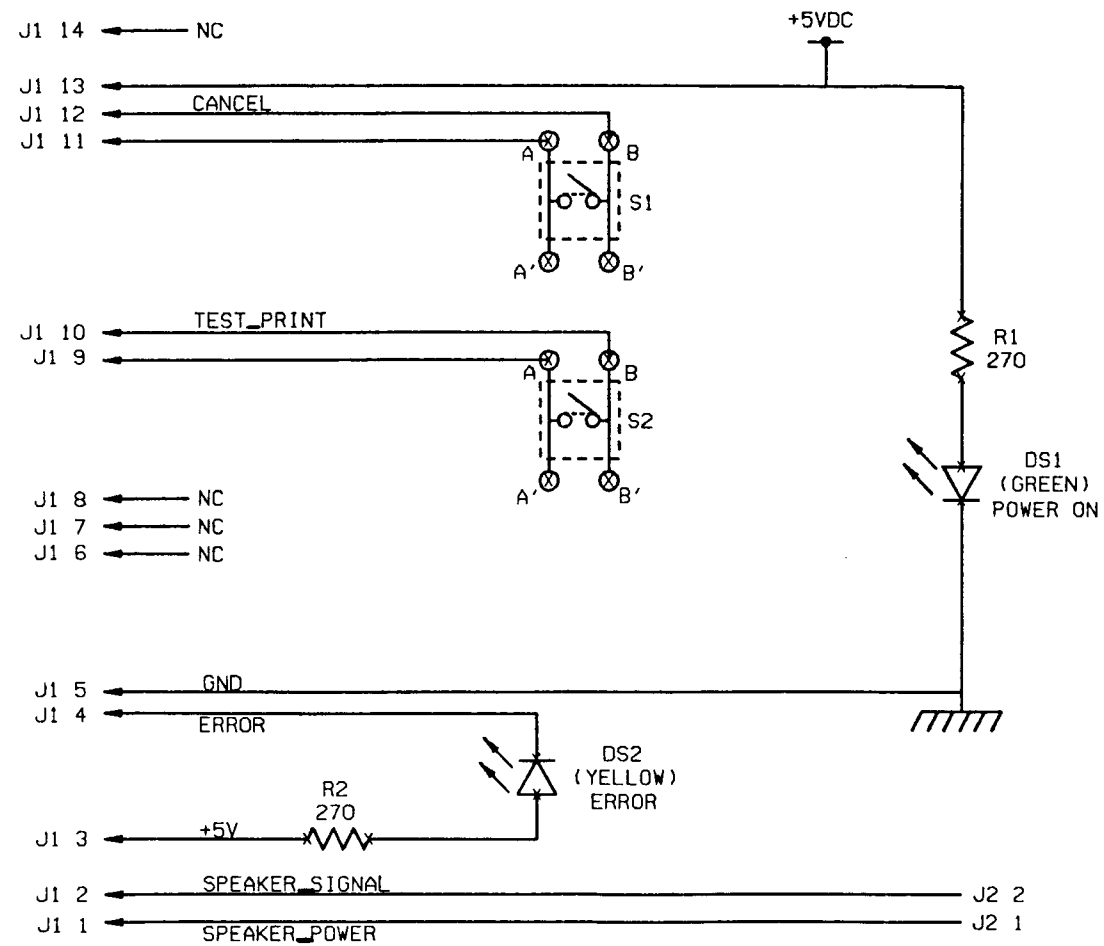


Figure 16
FRONT PANEL Schematic
Models 7700 and 7

NJTE: DS1,DS2 HEIGHT ABOVE PCB TO BE .310 MAX

Part no	Description	Quantity	Ref
717757	P.C. BOARD	Ø	
220051	RESISTOR,270 OHM 1/4W 5%	1	
253425	SWITCH,PUSH BUTTON,MOMENTARY ACTION	2	R1
257911	LED,YELLOW	2	S1
257912	LED,GREEN	1	DS2
744594	HEADER,RIGHT ANGLE,14 POSITION	1	DS1
744595	HEADER,RIGHT ANGLE,2 POSITION	1	J1

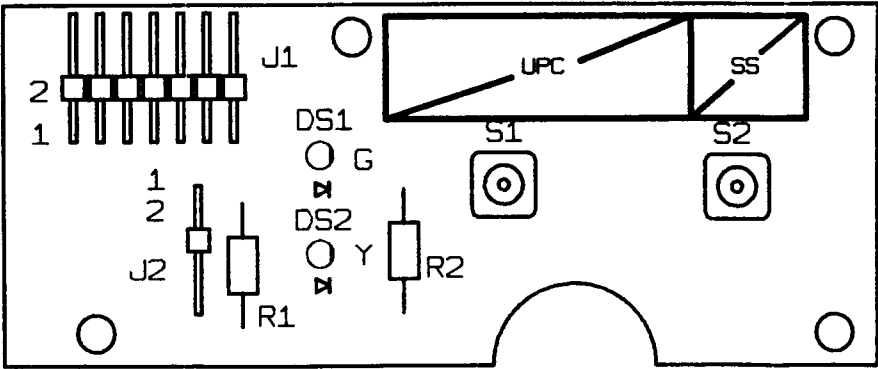


Figure 17
FRONT PANEL Component
Models 7700 and 7720

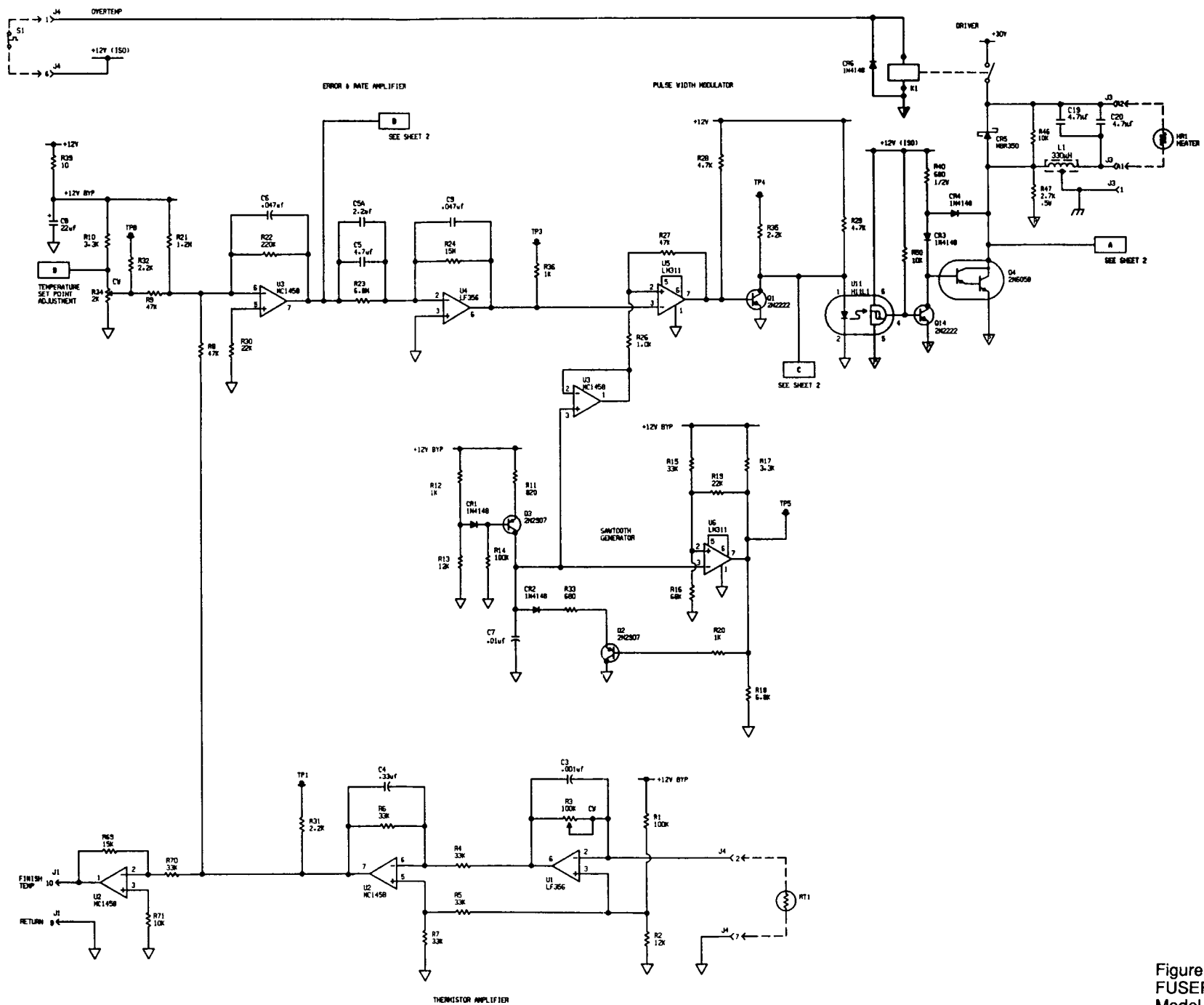


Figure 18
FUSER CONTROLLER Scl
Model 7700

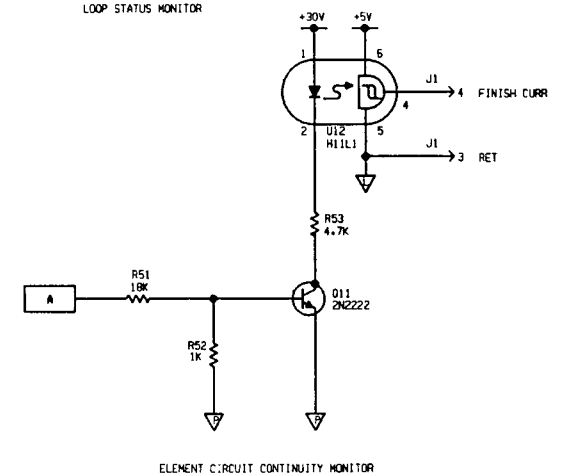
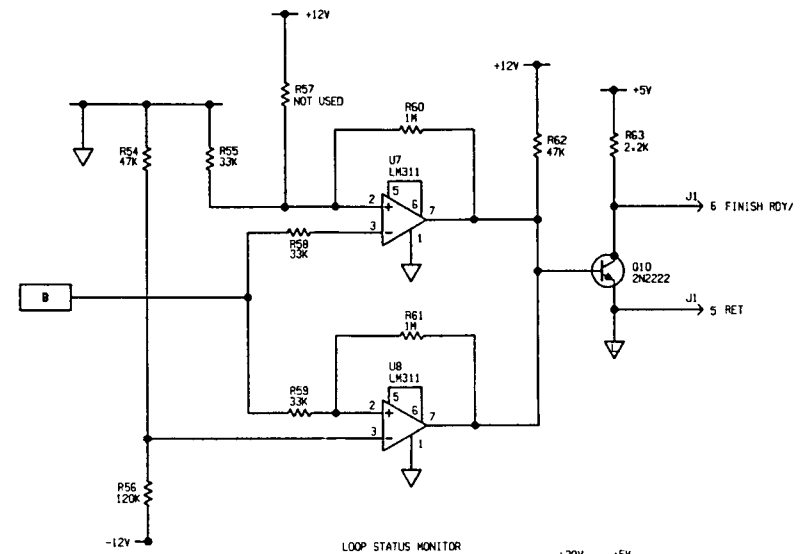
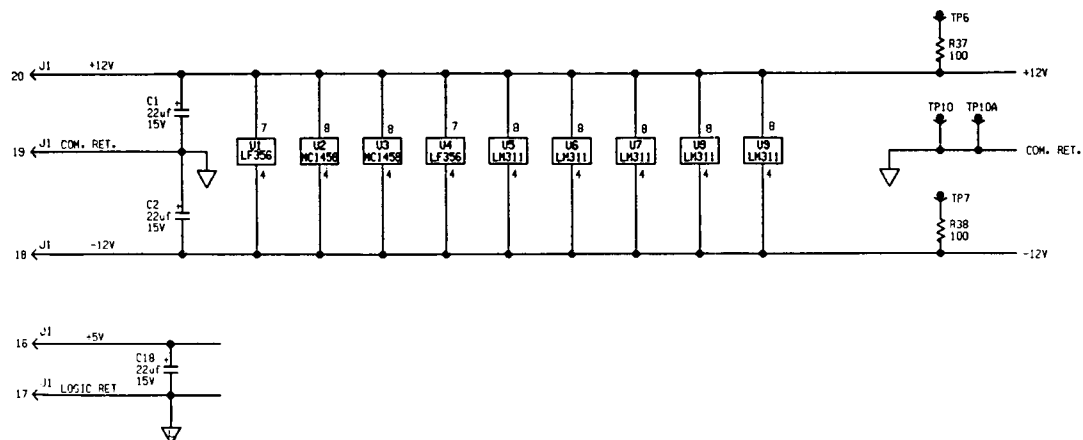
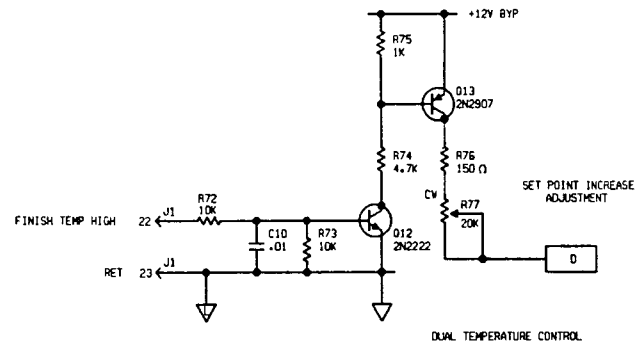
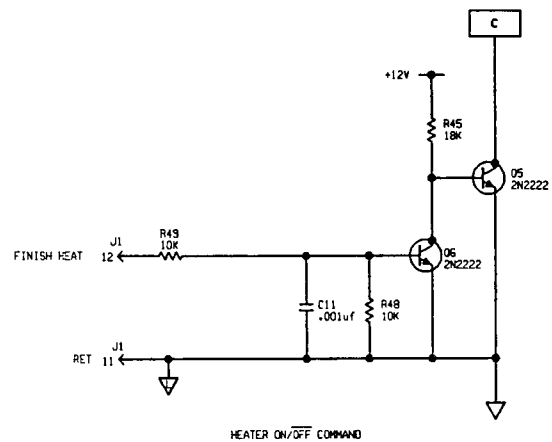


Figure 19
Style 1 FUSER CONTROLLER Sche
Model 7700

NOTES

- ▽ LOGIC SUPPLY (+5V) RETURN
- ▽ ANALOG SUPPLY (+ & -12V) COMMON RETURN
- ▽ 24-VOLT A.C. RETURN
- ▽ ACTUATOR SUPPLY (+24V UNREG.) RETURN
- ▽ PRINthead SUPPLY RETURN
- ≡ NON CURRENT-CARRYING CONDUCTIVE SURFACE

PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATOR, ADD PREFIX FROM 'NEXT ASSY' TABLE.

UNLESS INDICATED OTHERWISE, ALL RESISTORS ARE 1/4W, 5%.

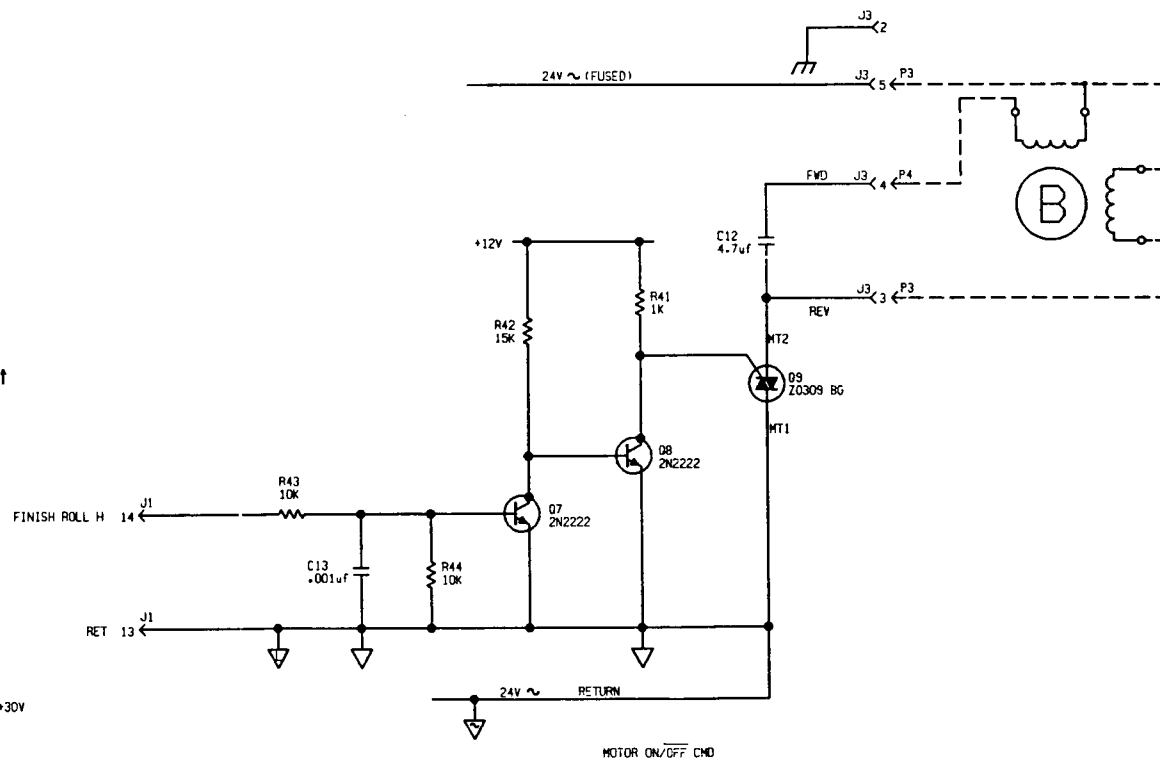
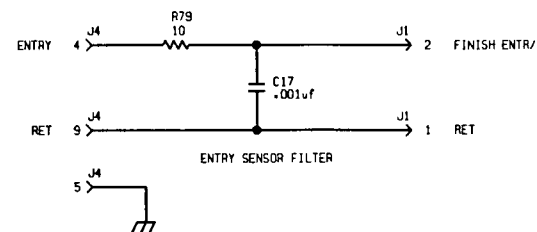
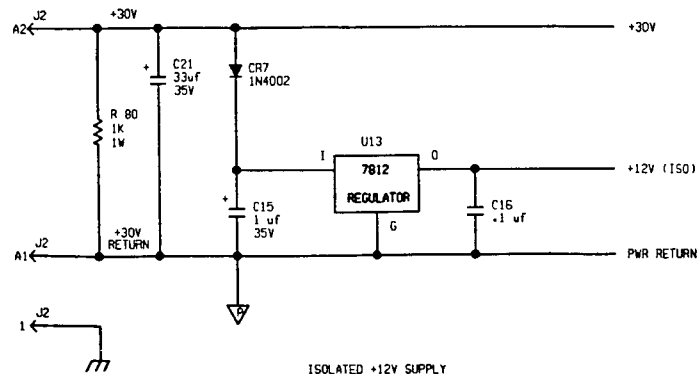
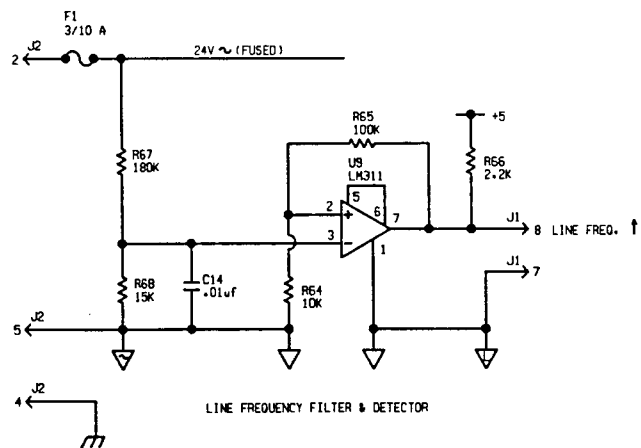


Figure 20
Style 1 FUSER CONTROLLER Scher
Model 7700

NOTE

WARNING: TO INSURE CORRECT HEAT SINKING,
DIODE CR5 MUST BE MOUNTED WITH ANODE GND
AGAINST PCB AS SHOWN.

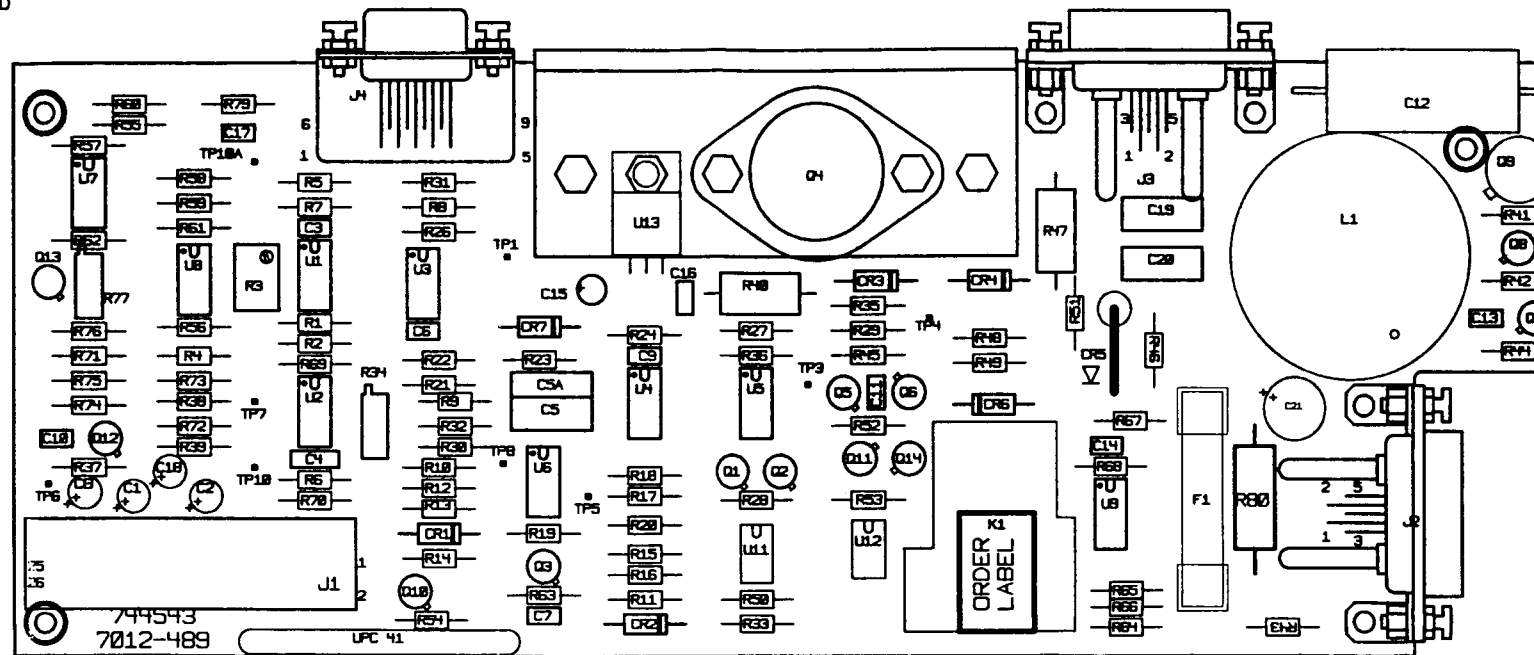
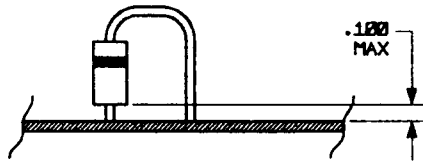


Figure 21
Style 1 FUSER CONTROLLER Con
Model 7700

1.1 GROUND SYMBOLOGY

-  LOGIC SUPPLY (+5V) RETURN
-  ANALOG SUPPLY (+ & -12V) RETURN
-  24-VOLT A.C. RETURN
-  POWER GROUND (ISOLATED ON BOARD)
-  CHASSIS GROUND (ISOLATED ON BOARD)

2) PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATOR, ADD PREFIX FROM 'NEXT ASSY' TABLE.

3) UNLESS INDICATED OTHERWISE, ALL RESISTORS ARE 1/4W, 5%.

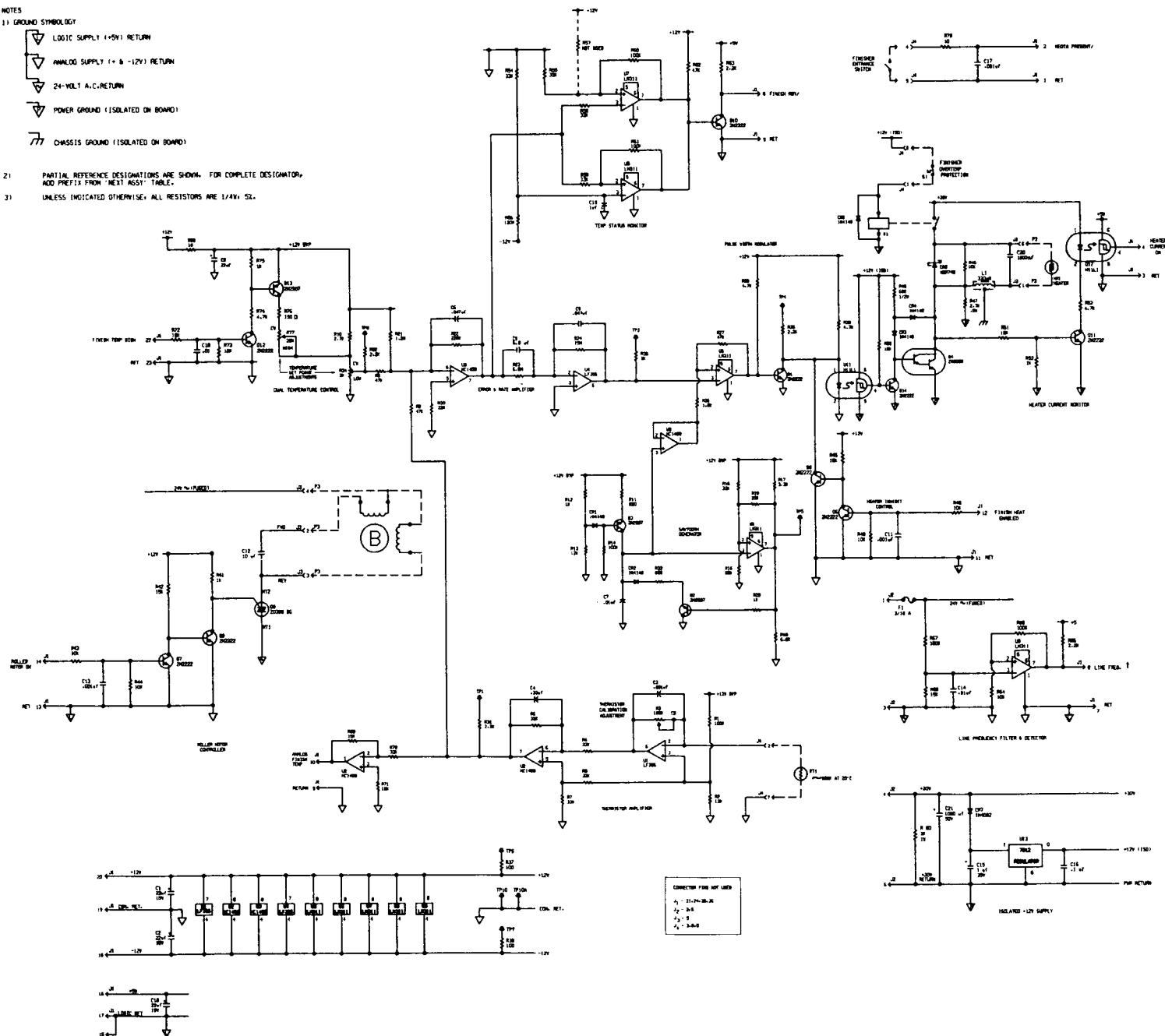


Figure 21A
FINISHER CONTROLLER Schem
Style 2
Models 7700 and 7720

NOTES:

- (1) U13 TO BE "AH" FORM
- (2) LATCHING POSTS(744628)TO BE ASSEMBLED AS FOLLOWS:
POST THROUGH 1 LOCKWASHER, THEN 1 FLATWASHER, THEN
THROUGH CONNECTOR BODY AND SCREWED INTO RIGHT
ANGLE BRACKET OR STANDOFF. DO NOT TIGHTEN UNTIL
AFTER CONNECTOR IS INSTALLED ONTO BOARD, BUT PRIOR
TO SOLDER.
- (3) ATTACH HEAT SINK (259B48)
TO CR5 (259B39) BEFORE
INSTALLING CR5 ON BOARD
- (4) R57 NOT USED.

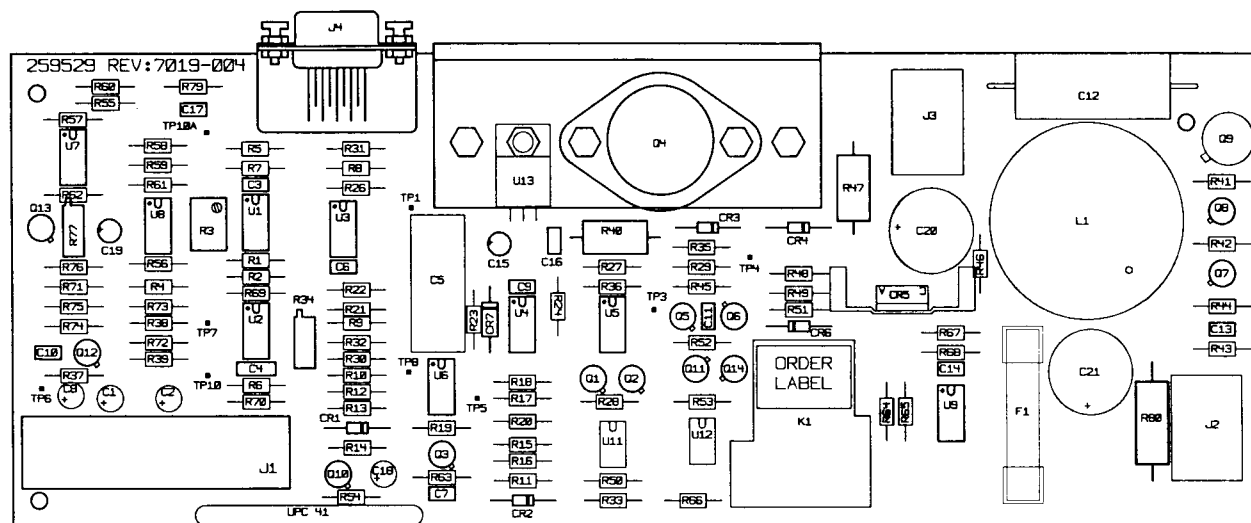


Figure 21B
FINISHER CONTROLLER Comp
Style 2
Models 7700 and 7720

Item	Part no	Description	Quantity	Item	Part no	Description	Quantity
1	259531	SCHEMATIC	0	37	224778	150 OHM 1/4W 5%	1 R76
2	259529	BOARD,PC(FUSER CONTROLLER)	1	38	895278	CAPACITOR,.1uF,100V,20%	1 C16
3	179713	NUT 4-40	7	39	224798	RESISTOR 15K 1/4W 5%	3 R42 R68 R69
4	105420	LOCKWASHER	7	40	235691	RESISTOR,820 OHM,1/4W,5%	1 R11
5	126531	WASHER	4	41	236378	POT,20K,1/2W,10%,22 TURN	1 R77
6	253368	THERMAL PAD FOR T0-220 TRANS	1	42	241076	CAPACITOR,.001uF 100V 20%	4 C3 C11 C13 C17
7	257320	HEATSINK FOR 2N6058 TRANSISTOR	1	43	243853	26 PIN RIGHT ANGLE CONNECTOR	1 J1
8	257325	THERMAL PAD FOR T0-3 TRANS	1	44	251499	CAPACITOR .01uF 15V CERAMIC 20%	3 C7 C10 C14
9	616392	LATCH, LONG, W/O PUSH PINS	2	45	251500	CAPACITOR,.33uF 50V 20%	1 C4
10	259840	HEATSINK	1	46	252338	CAPACITOR,22uF,16V,20%	4 C1 C2 C8 C18
11	744603	PEM STUD 4-40	7	47	258280	RELAY,GENERAL PURPOSE,30A,T90	1 K1
12	744608	LATCHING POST KIT	2	48	259377	INDUCTOR,CUSTOM,330uH	1 L1
13	258282	FUSE, .3A	1	49	259831	CAPACITOR,1000uF,50V,20%,ELECT	2 C20 C21
14	163046	RESISTOR 1K 1W 5%	1	50	259839	DIODE,MBR735	1 CR5
15	191179	Diode 1N4002	1	51	259948	CAPACITOR,6.8uF,63V,10%	1 C5
16	201109	Diode 1N4148	5	52	330797	RESISTOR 680 1/2W 5% CARBON FILM	1 R40
17	201207	CLIP-FUSE	2	53	336608	POT,2K,1/2W,10%,22 TURN	1 R34
18	219300	2.2K 1/4W 5% CARBON FILM	5	54	336827	CAPACITOR,.047uF,15V,20%,CERAMIC	2 C6 C9
19	220033	RESISTOR,3.3K,1/4W,5%	1	55	376773	CAPACITOR,1.0uF 35V 20%	2 C15 C19
20	220034	RESISTOR,47K,1/4W,5%	4	56	486292	RESISTOR,10 OHM,1/4W,5%	2 R39 R79
21	220035	RESISTOR,4.7K,1/4W,5%	4	57	482943	RESISTOR,15 MEG,1/4W,5%,CC	1 R24
22	220038	RESISTOR 12K 1/4W 5% C.F.	2	58	498221	2N2222	9 01 05 06 07 08
23	220039	RESISTOR,120K,1/4W,5%	1				3 010 011 012 014
24	220040	68K 1/4W 5% CARBON FILM	1	59	498300	2N2907	2 02 03 013
25	220041	RESISTOR,6.8K,1/4W,5%	1	60	498338	IC,LF356	2 U1 U4
26	220043	33K 1/4W 5% CARBON FILM	10	61	535871	IC,VOLTAGE COMPARATOR,311N	5 U5 U6 U7 U8 U9
				62	540645	MC1458PI	2 U2 U3
27	220044	RESISTOR,1K,1/4W,5%	7	63	549661	IC,7812,+12V REGULATOR	1 U13
				64	563569	2N6058	1 Q4
28	220045	RESISTOR,18K,1/4W,5%	2	65	571772	POT,100K,1/2W,10 TURN,TOP ADJ	1 R3
29	220046	RESISTOR,680 OHM,1/4W,5%	1	66	598810	RESISTOR,1.2M,1/4W,5%	1 R21
30	220052	RESISTOR,2.7K,1/4W,5%	1	67	620143	IC,OPTO-ISOLATOR,H11L1	2 U11 U12
31	220054	RESISTOR,10K,1/4W,5%	10	68	659588	CAPACITOR,10uF,63V,10%	1 C12
				69	721582	RESISTOR,6.8M,1/4W,5%	1 R23
32	220056	RESISTOR 180K 1/4W 5%	1	70	744588	RESISTOR 2.7K 1/2W 5% CARBON FIL	1 R47
33	220057	RESISTOR,220K,1/4W,5%	1	71	259537	HEADER,6 CKT,PINS	1 J2
34	220060	RESISTOR,22K,1/4W,5%	2	72	744600	TRIAC,203098G	1 Q9
35	220064	100K 1/4W 5% CARBON FILM	5	73	744602	CONNECTOR,9 PIN SOCKET	1 J4
36	223490	RESISTOR,100 OHM,1/4W,5%	2	74	259536	HEADER,6 CKT,SOCKETS	1 J3
				75	795638	TEST PIN .025 POST GOLD PLATED	9 TP1 TP3 TP4 TP5 TP6 TP7 TP8 TP10 TP10A

Figure 21C
FINISHER CONTROLLER Componer
Style 2
Models 7700 and 7720

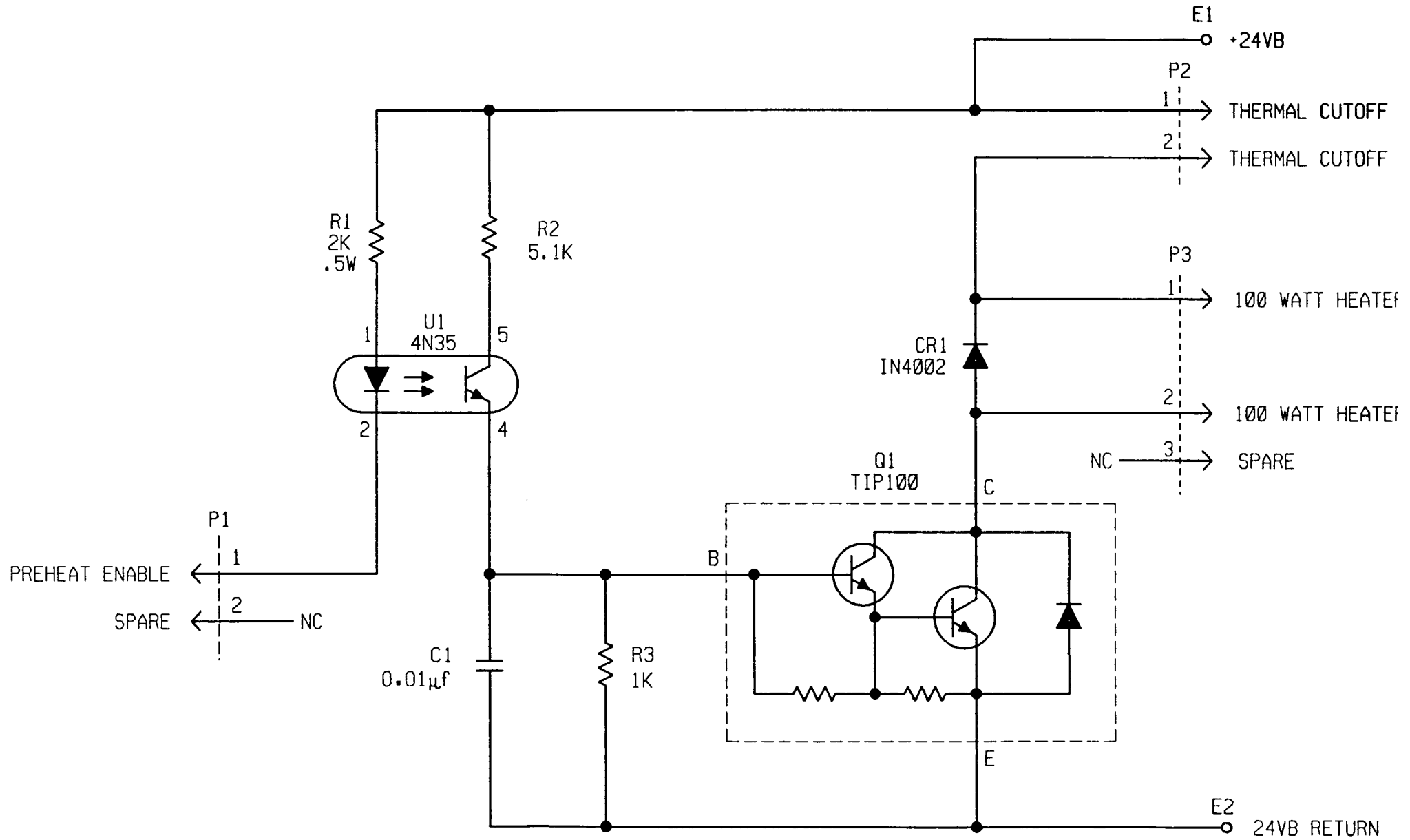


Figure 22
 PRE-HEAT DRIVER BOARD Sc
 Figure 7700

Part no	Description	Quantity	
258707	BOARD-PC,PREHEAT DRIVER	1	
191179	Diode 1N4002	1	CR1
220044	RESISTOR,1K,1/4W,5%	1	R3
241470	HEADER SHROUDED POLARIZED 2 POS	1	P1
258771	RESISTOR,2K,1/2W,5%	1	R1
258773	HEADER,2 POS.,RIGHT ANGLE,LOCKING	1	P2
258774	HEADER,3 POS. RIGHT ANGLE,LOCKING	1	P3
485864	IC,OPTOISOLATOR,4N35	1	U1
571752	RESISTOR,5.1K 1/4W 5% CARBON FILM	1	R2
659452	Capacitor 0.01UF 50V 10%	1	C1
724647	LOW PROFILE POWER TAP,10 PIN	2	E1 E2
738973	TRANSISTOR,POWER,TIP100	1	Q1

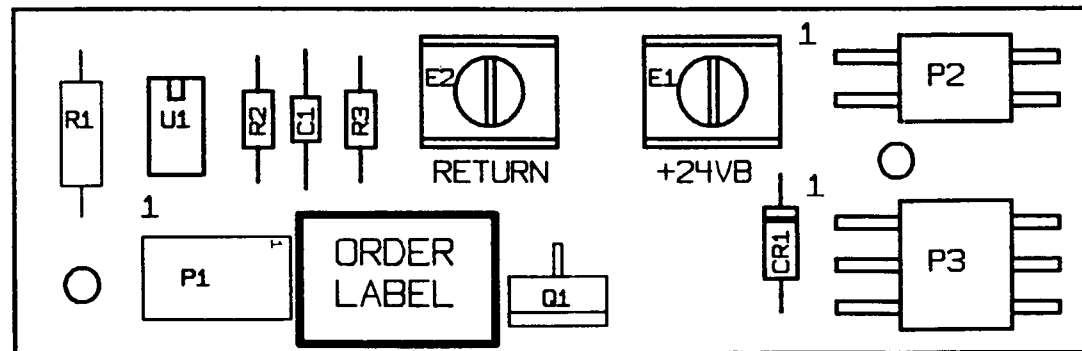


Figure 23
PRE-HEAT DRIVER BOARD Component
Model 7700

U1 LM229
 U2 LM229
 U3 LM229
 U4 LM229
 U5 4013
 U7 4013
 U8 4013
 U9 LM229
 U11 LM217
 U12 LM229
 U13 4009
 U14 LM336-5.0
 U15 LM229
 U16 LM229
 U17 LM229

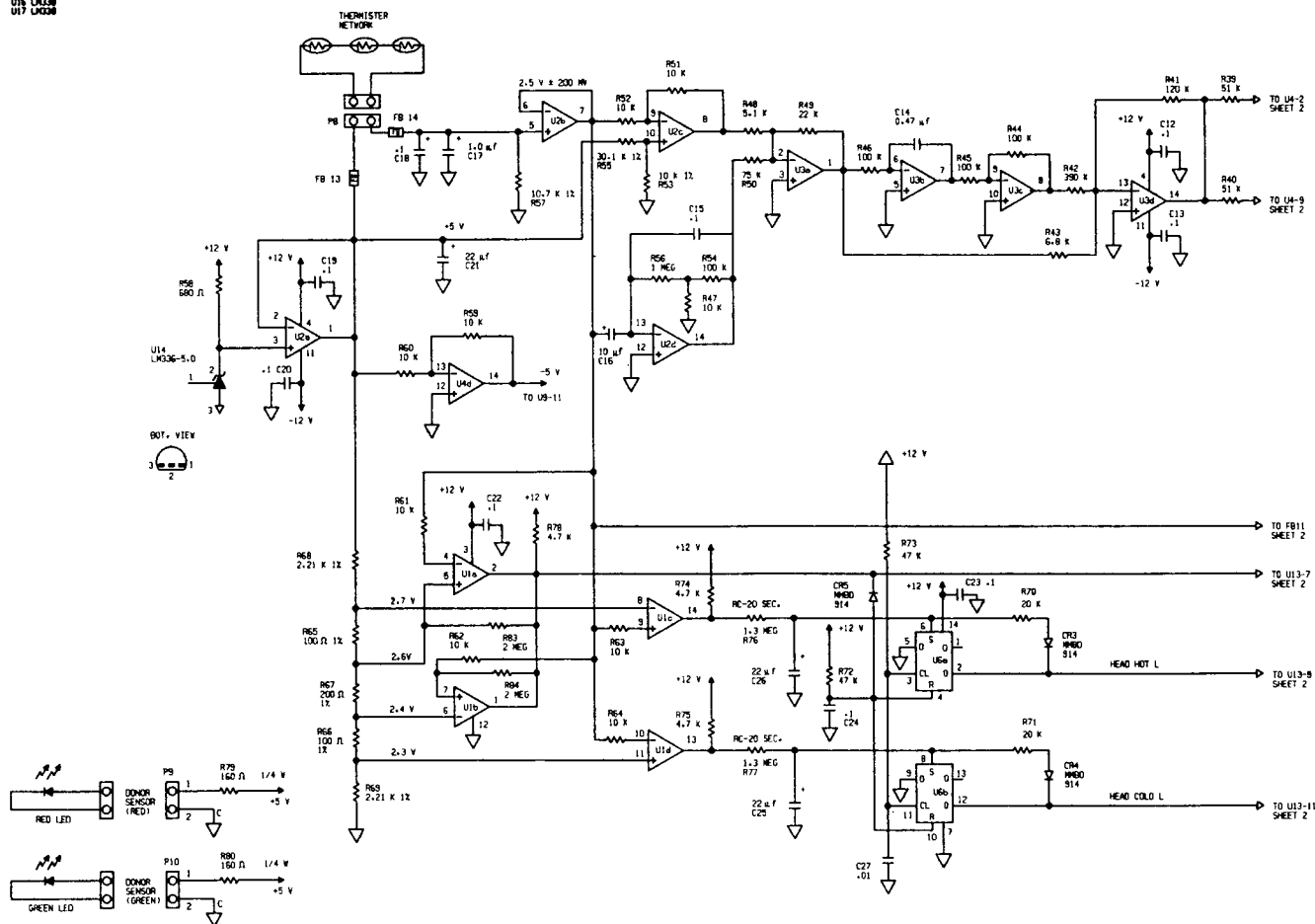


Figure 23A
 PRE-HEAT DRIVER Schematic
 Model 7720

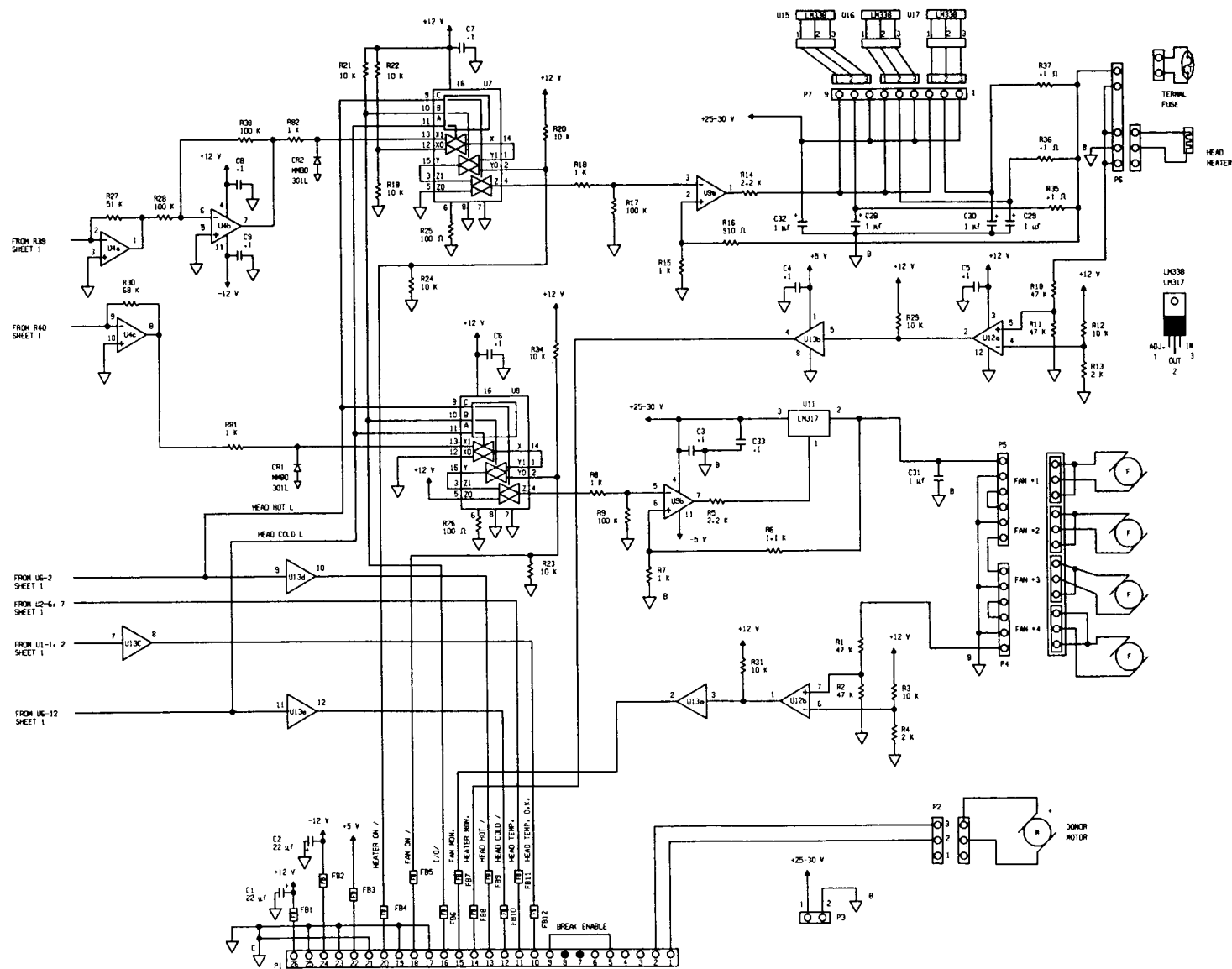
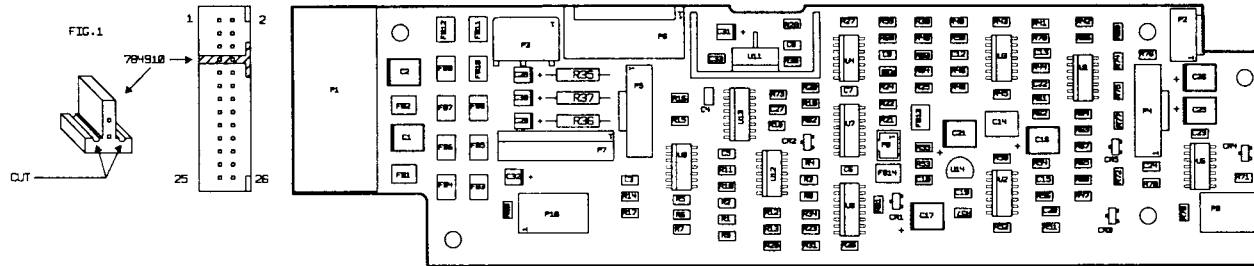


Figure 23B
PRE-HEAT DRIVER Schematic
Model 7720

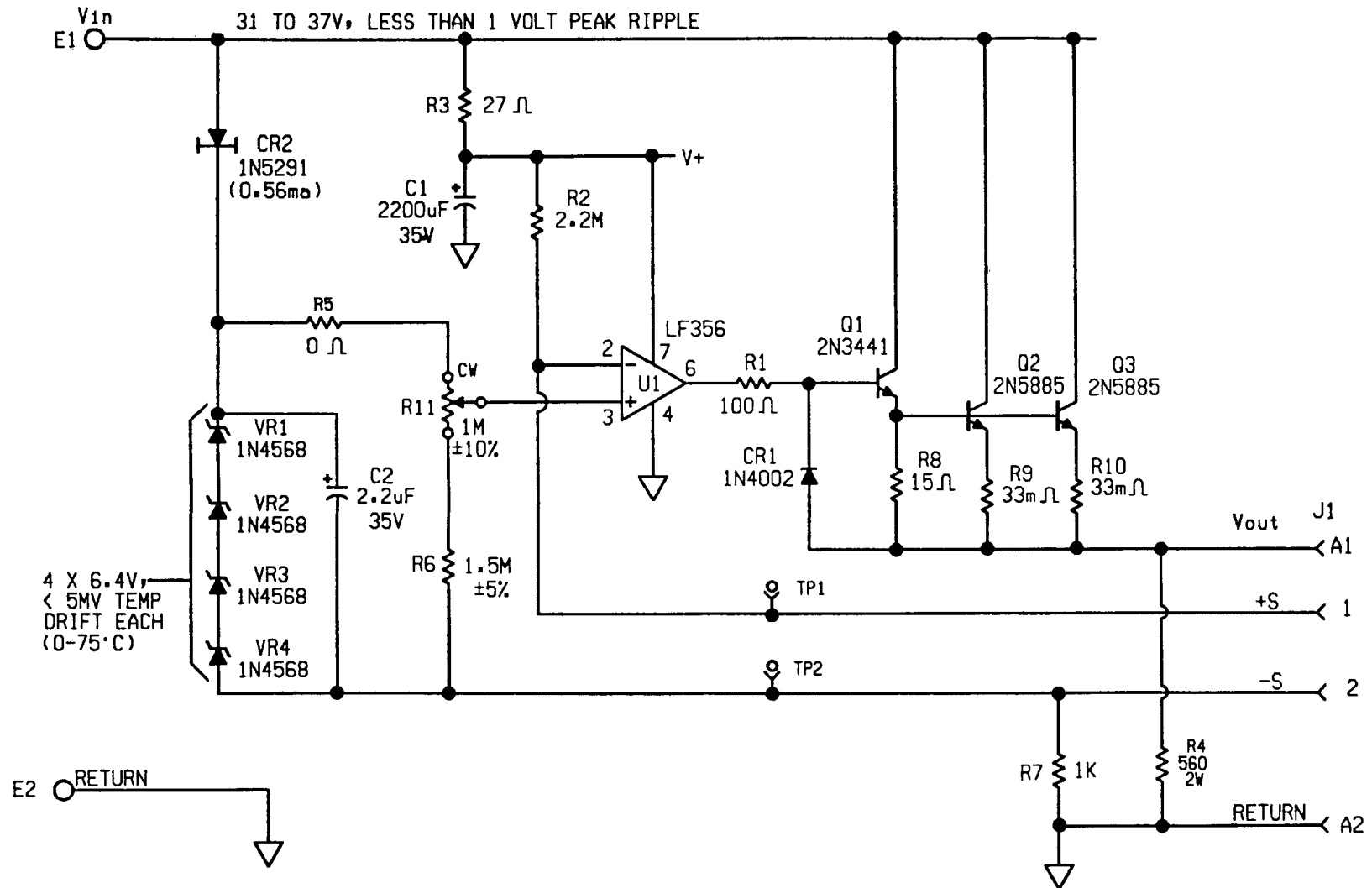
- NOTE: 1. 784910, CUT WINGS AT DETENTS, BOTH SIDES, BEFORE INSERTING AT PIN7 AND 8 (P1) FIG. 1
2. 122719 (SCREW), 128531 (WASHER), AND 179713 (NUT) ARE USED TO MOUNT 498310 (REG. LM317T) TO 748915 (HEATSINK).
HARDWARE MUST BE TIGHTEND PRIOR TO SHIPPING TO STOCK.



Item	Part no	Description	Quantity	Item	Part no	Description	Quantity
1	784906	SCHEMATIC, HEAD TEMP. CONTROL	0	36	263513	RESISTOR, 680 OHM, 1/8W, 5% SMD-1206	1
2	940861	BOARD-PC, HEAD TEMP. CONTROL	1	37	263534	RESISTOR, 1K 1/8W 5% SMD-1206	6
3	784910	BARFLER-INSERT	1	38	263535	RESISTOR, 10K 1/8W 5% SMD-1206	20
4	784915	HEATSINK	1	39	263537	100K OHM 1/8W 5%	8
5	122719	SCREW, 4-48 X.25 PANHEAD	1	40	263539	RESISTOR, 2.2K 1/8W 5%	2
6	128531	WASHER	1	41	263540	RESISTOR, 22K 1/8W 5% RV	1
7	179713	NUT, 4-48	1	42	263543	RESISTOR, 4.7K 1/8W 5% SMD-1206	3
8	273564	RESISTOR, 30, 1K, 1/8W, 1%	1	43	263544	RESISTOR, 47K 1/8W 5% RV	6
9	233947	RESISTOR, 150 OHM, 1/4W, SMD-1206	2	44	325806	CONNECTOR, MATE-N-LOCK 2 POS., LEADED	1
10	233329	RESISTOR, 5.1K 1/8W 5% SMD-1206	1	45	337540	1M OHM 1/8W 5%	1
11	233330	RESISTOR, 350K, 1/8W, 5%, SMD-1206	1	46	498318	IC, REG, LM317T, LEADED	1
12	233333	RESISTOR, 2M, 1/8W, SMD-1206	2	47	498321	HEADER, 25 POS., AMP 1-182617-1	1
13	233350	CAPACITOR, .47UF, 50V, SMD-1825	1	48	785459	IC, 74HC4050 SO-16	1
14	233924	RESISTOR, 10, 7K, 1/8W, SMD-1206	1	49	616293	MM60914 SMD DIODE	3
15	233909	RESISTOR, 2K, 1/8W, 5%, SMD-1206	2	50	717900	HEADER, 6 POS., POLARIZED LATCHING	2
16	233913	RESISTOR, 120K, 1/8W, 5%	1	51	716312	IC, VOLTAGE COMPARATOR, LM339AD, SO-14	2
17	233941	RESISTOR, 5.1K, 1/8W, SMD-1206	3	52	724834	SHIELD BEAD, FERRITE, 120 OHM, 180MHZ	14
18	233946	20K 1/8W 5%	2	53	739506	HEADER, 3 POS., POLARIZED LATCHING	1
19	233914	RESISTOR, 30K 1/8W 5% SMD-1206	1	54	744634	LM33682, 5V REFERENCE DIODE	1
20	233946	SC 0.1UF 25V 10% SMD-1206	17	55	784907	HEADER, 6 POS., MOLEX 41761 (PIN 3 OMITTED)	1
21	234053	RESISTOR, 910 OHM, 1/8W 5% SMD-1206	1	56	784908	HEADER, STRAIGHT, 2MM PITCH, LEADED	1
22	234057	IC, MC1401380, SO-14	1	57	784909	HEADER, AMP 6W456-9 9 POS STRAIGHT	1
23	234343	6.8K OHM 1/8W 5%	1	58	784911	RESISTOR, .1 OHM, 1/2W, LEADED	3
24	237530	RESISTOR, 200 OHM, 1/8W, 1%, SMD-1206	2	59	784965	DIODE, SCHOTTKY, MM6030LL, SMD-SOT-23	2
25	237552	2.2K 1/8W 1%	1	60	903657	IC, LINEAR OP-AMP, LM324AD, SO-14	4
26	237563	RESISTOR, 10K 1/8W 1% SMD-1206	1	61	235630	RESISTOR, 100 OHM 1/8W 1% SMD-1206	2
27	237981	RESISTOR, 100 OHM 1/8W 5% SMD-1206	2	62	237587	RESISTOR, 1.1K 1/8W 5% SMD-1206	1
28	241478	HEADER, SHROUDED POLARIZED 2 POS	1				
29	252281	RESISTOR, 75K 1/8W 5% SMD-1206	1				
30	252345	CAPACITOR, .01UF, 50V, 5%	1				
31	252625	CAPACITOR, .1UF, 35V, 20%, SMD-B CASE	1				
32	252620	IC, MC140380, SO-16	2				
33	252650	CAPACITOR, .10UF, 25V, SMD-CASE D	2				
34	255314	RESISTOR, 1.3M 1/8W 5% SMD-1206	2				
35	256540	CAPACITOR, .22UF, 20V, SMD-CASE D	5				

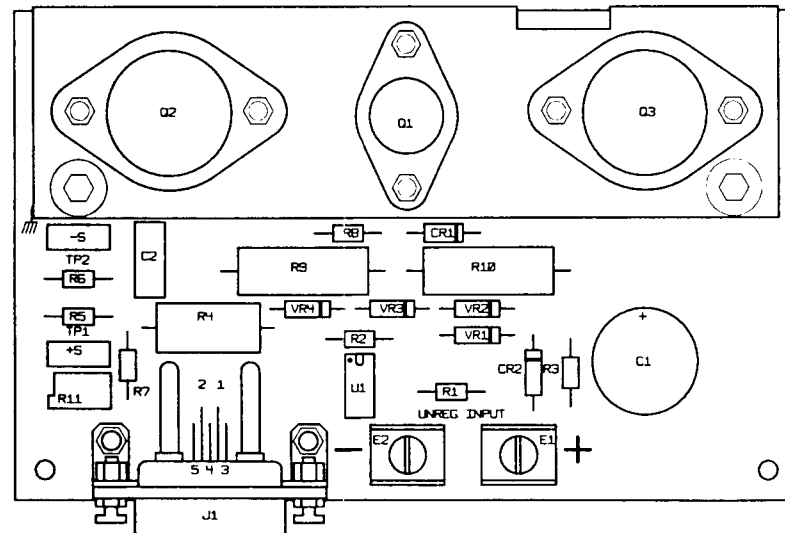
Figure 23C
PRE-HEAT DRIVER Components
Model 7720

18 TO 20 VOLT ADJUSTABLE REGULATOR



4
 5
 Figure 24
 ADJUSTABLE REGULATOR
 Models 7700 and 7720

Part No.	Description	Qty.	Part No.	Description	Qty.
744640	BOARD-PRINTED CIRCUIT	1	616748	CAPACITOR,2.2uF,35V,20%	1 C2
191179	Diode 1N4002	1 CR1	655224	RESISTOR,15 OHM,1/4W,5%	1 R8
220044	RESISTOR,1K,1/4W,5%	1 R7	744604	RECEPTACLE,D-TYPE,7 POS.	1 J1
223490	RESISTOR,100 OHM,1/4W,5%	1 R1	744652	RESISTOR,33 MILLIOHMS,5W,5%	2 R9 R10
232370	CAPACITOR,2200uF,35V,20%	1 C1	744653	DIODE,1N5291	1 CR2
257309	ZENER DIODE,1N4568	4 VR1 VR2 VR3 VR4	220063	RESISTOR,1.5M,1/4W,5%	1 R6
571820	RESISTOR,JUMPER	1 R5	744678	HEATSINK	1 H1
337498	POT,1M 1/2W 10%	1 R11	179713	NUT,4-40,SMALL	10 XH1 XQ1 XQ2 XQ3
724647	LOW PROFILE TAP 10 PIN AMP	2 E1 E2	105420	LOCKWASHER	10 XH1 XQ1 XQ2 XQ3
498139	TRANSISTOR,2N3441	1 Q1	128531	FLATWASHER	10 XH1 XJ1
498338	IC,LF356	1 U1	257324	SIL-PAD,T0-66	1 XQ1
498567	RESISTOR,560 OHM 2W 5%	1 R4	257325	SIL-PAD,T0-3	2 XQ2 XQ3
498806	RESISTOR,27 OHM,1/4W,5%	1 R3	258673	PEM STUD 4-40	10 XH1 XQ1 XQ2 XQ3
531354	HORIZONTAL TEST JACK,BLACK	1 TP2	744608	LATCHING POST KIT	2 XJ1
894328	HORIZONTAL TEST JACK,RED	1 TP1			
593051	POWER TRANSISTOR,2N5885	2 Q2 Q3			
616350	RESISTOR,2.2M,1/4W,5%	1 R2			



TOP SILKSCREEN LEGEND

Figure 25
ADJUSTABLE REGULATOR Compor
Models 7700 and 7720

NOTES:

1.  IS CONNECTION TO EQUIPMENT ENCLOSURE AT HEATSINK / MOUNTING BRACKET.

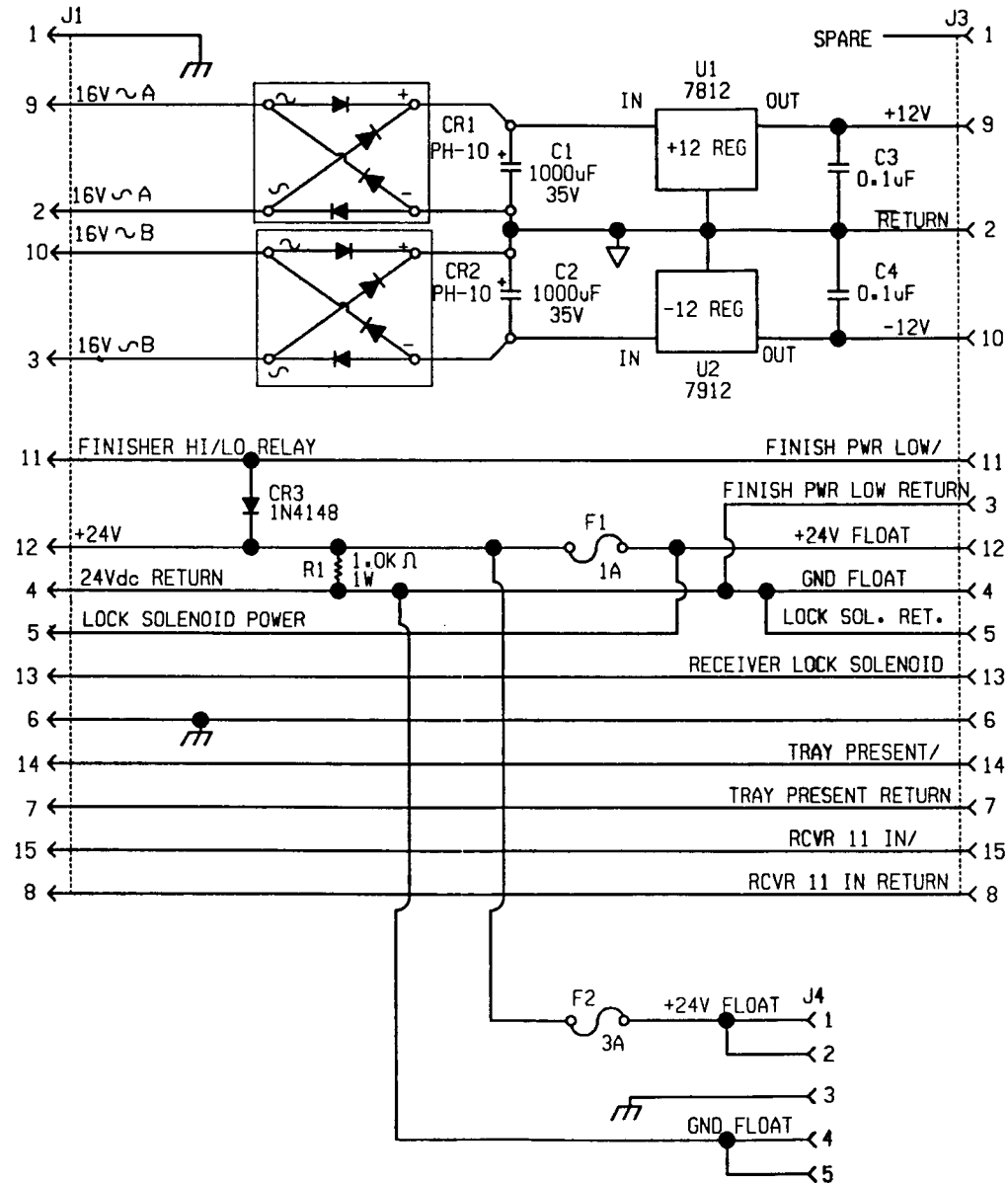
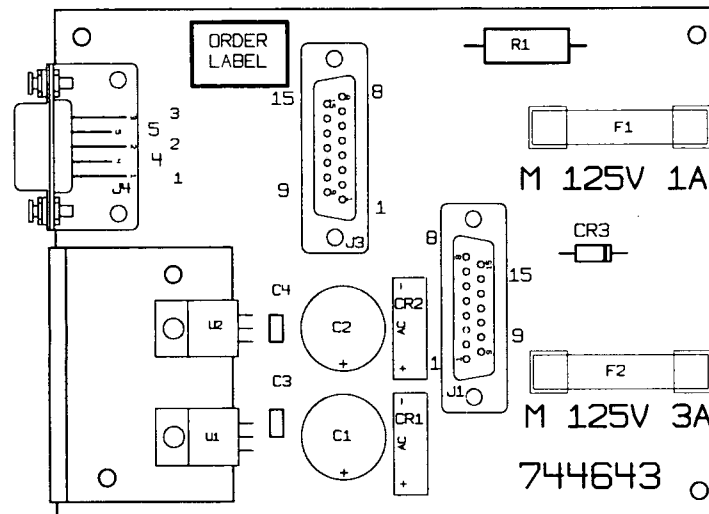


Figure 26
POWER DISTRIBUTION BOARD S
Models 7700 and 7720

Part no	Description	Quantity
744643	BOARD-PRINTED CIRCUIT,DISTRIBUTION	1
204274	FUSE-1 AMP	1 F1
132927	FUSE-3 AMP	1 F2
201207	CLIP-FUSE	4 XF1 XF2
243979	CAPACITOR,1000UF,35V,20%	2 C1 C2
257945	SUB MINI RECTANGULAR RECEPTACLE,STR	1 J3
403993	IC,7812,-12V REGULATOR	1 U2
549661	IC,7812,+12V REGULATOR	1 U1
253889	INSULATING PLATE,TO-220	2 XU1 XL2
744603	STUD-PM1,4-40	6 XU1 XU2 XJ4

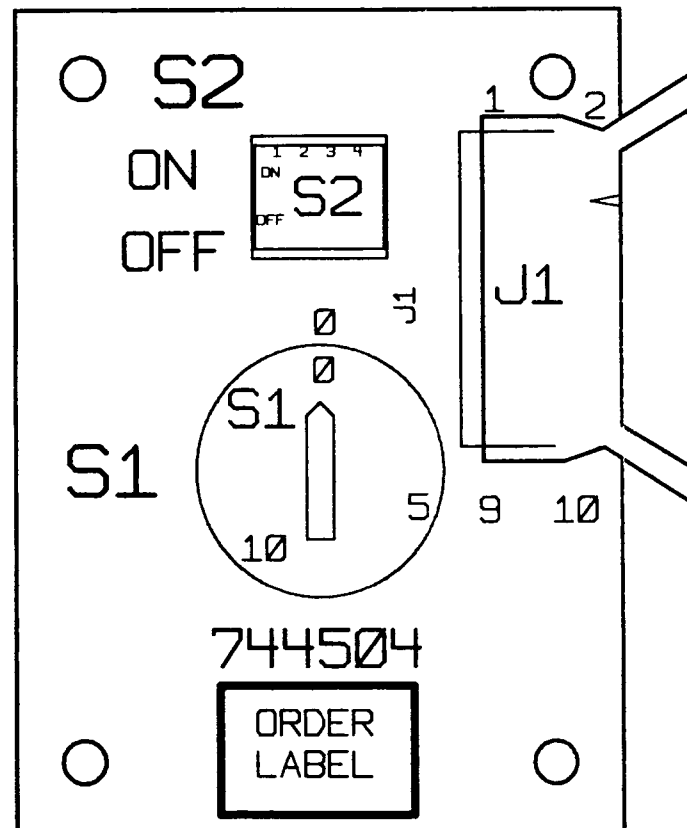


1. THE BOARD'S 4 MOUNTING HOLES ARE
CONNECTED TO CHASSIS GROUND .

SWITCH POSITION	COMMON TO:			
	1	2	4	8
0				
1		*		
2			*	
3		*	*	
4				*
5		*		*
6			*	*
7		*	*	*
8				*
9		*		*
10			*	*
11		*	*	*
12			*	*
13		*	*	*
14			*	*
15		*	*	*



Figure 28
Interface Scherr
Models 7700 ar



Part no -----	Description -----	Quantity -----
744504	BOARD-PRINTED CIRCUIT	1
362805	4 POS SPST DIP SWITCH	1 S2
493252	16 POS HEXADECIMAL ROTARY SWITCH	1 S1
243863	AMP UNIVERSAL EJECTION STYLE 10 PIN	1 J1
616392	LATCH, LONG, W/O PUSH PINS	2

Figure 29
Interface Components
Models 7700 and 7720





Figure 31
BACKPLANE Comp
Models 7700 and 7

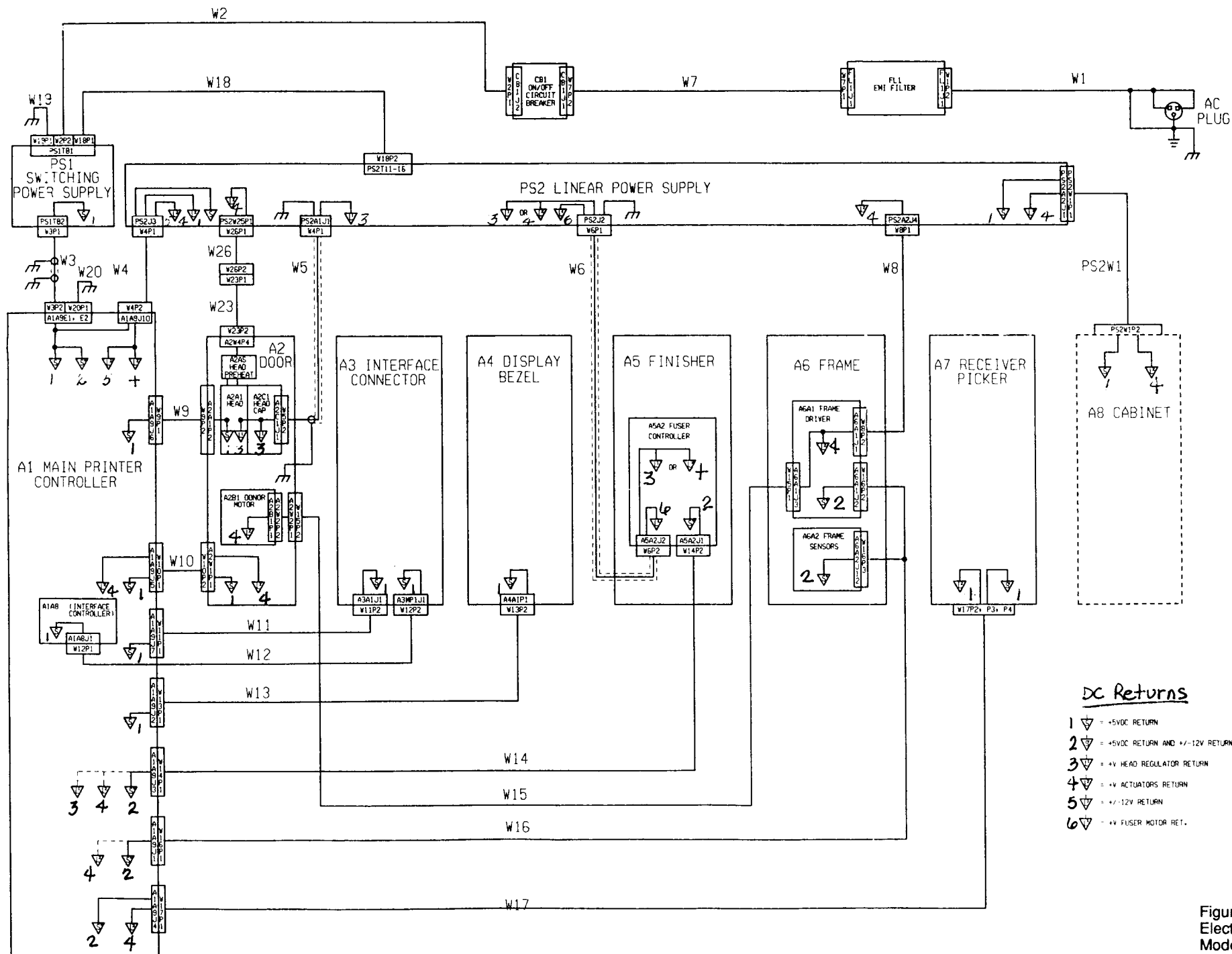


Figure 32
Electrical Interconnect
Model 7700

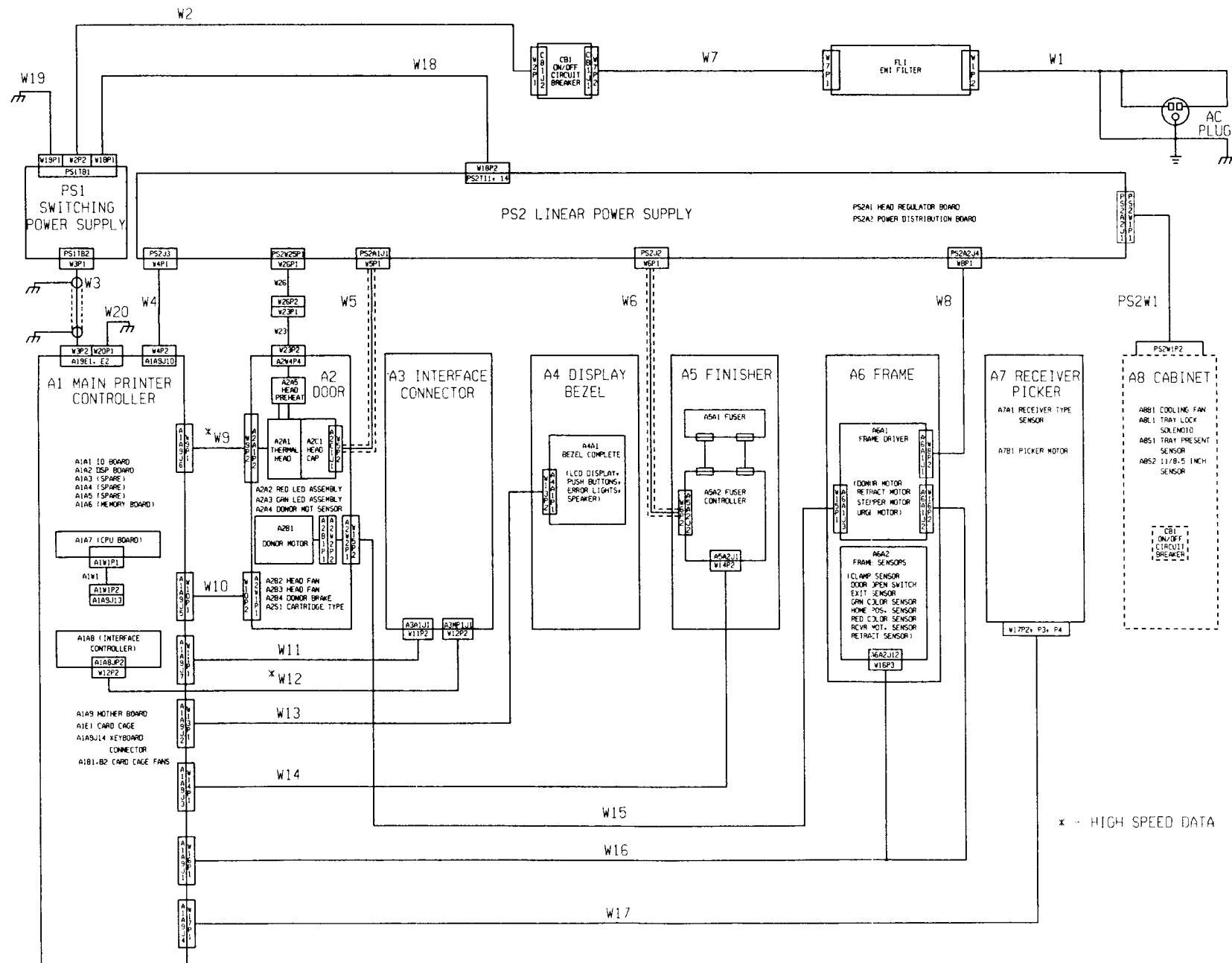
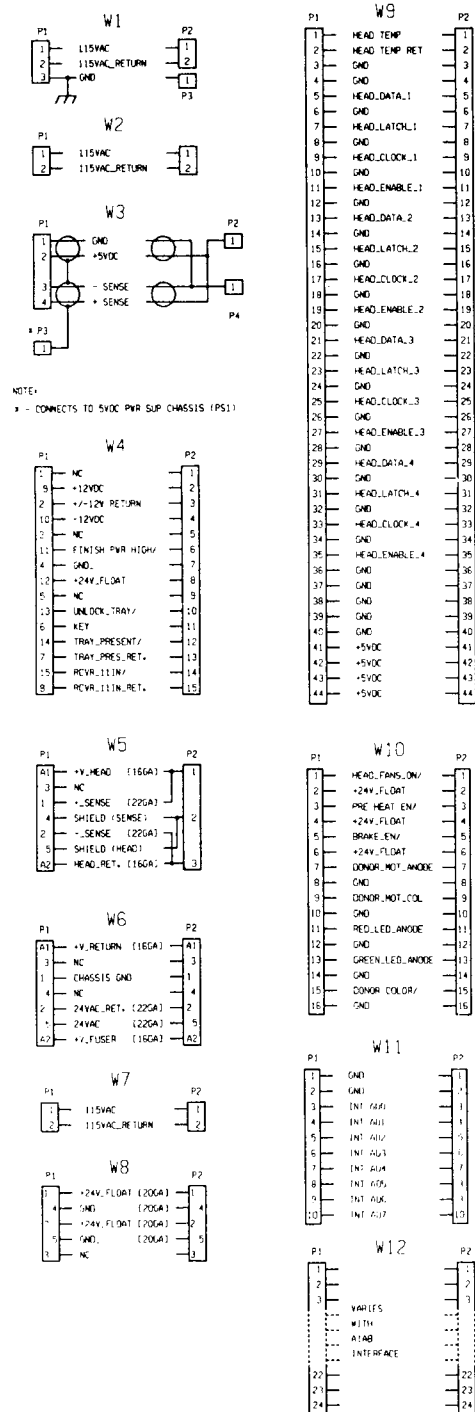
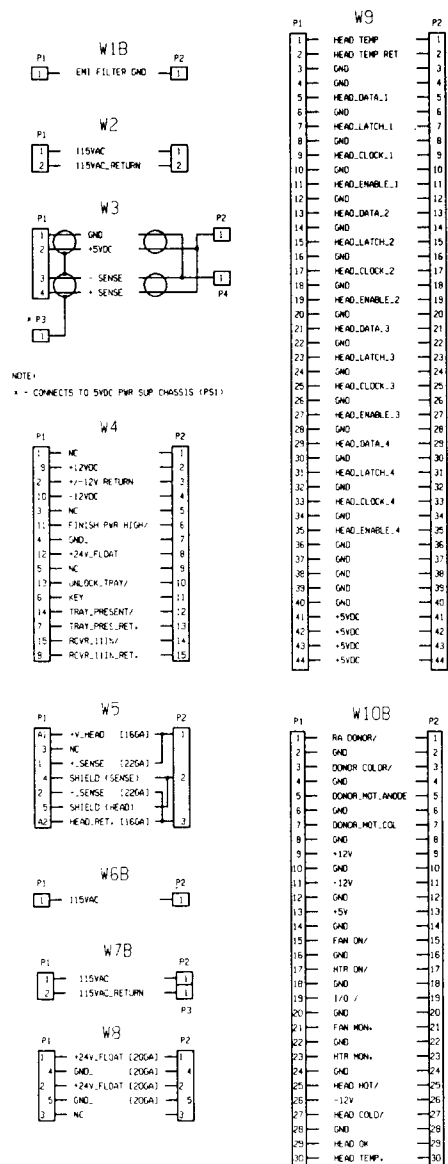


Figure 33
Signal Interconnect
Model 7700



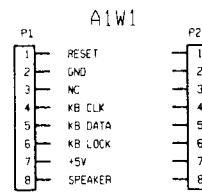
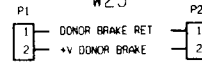
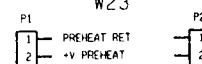
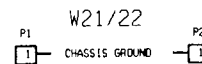
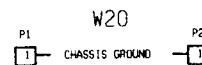
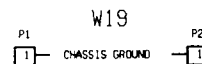
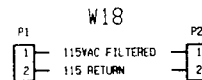
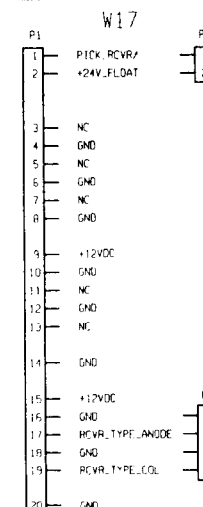
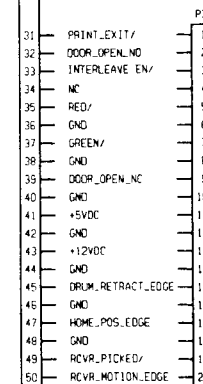
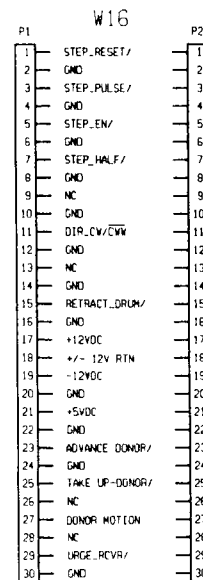
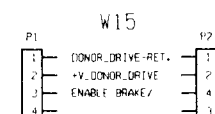
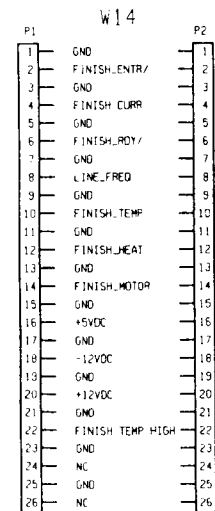
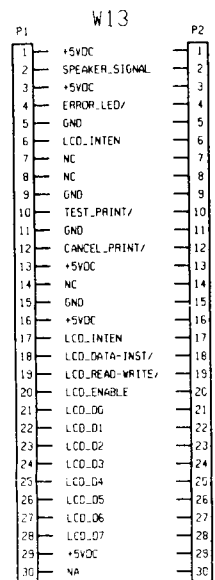
	CABLE TYPE	CONNECTORS						NOTES
		P1	P2	P3	P4	P5	P6	
		KAD PART NUM.						
W1	18 GAUGE 3 WIRES TWISTED PAIR	AC POWER MODULE	.250 FAST-ONS	*8 5 TOOTH RING LUG				744611
W2	18 GAUGE TWISTED PAIR	.250 FAST-ONS	*8 RING LUGS (2)					257445
W3	12GA SHIELDED TWISTED PAIR 22GA SHIELDED TWISTED PAIR	*8 RING LUGS (4)	*8 RING LUG	*6 RING LUG	*8 RING LUG			717790
W4	20 GAUGE 12 WIRES	CANNON D-TYPE DWM-15P	MOLEX SINGLE ROW 15 POSITION					744614
W5	16GA SHIELDED TWISTED PAIR 22GA SHIELDED TWISTED PAIR	CANNON D-TYPE DWM-722P	*10 RING LUGS (2) *6 RING LUG (1)					*10 RING LUGS ON P2-1, 3 *6 RING LUG ON P2-2 783561
W6	16 GAUGE TWISTED PAIR 22 GAUGE 3 WIRES	CANNON D-TYPE DWM-722P	CANNON D-TYPE DWM-722S					783562
W7	16 GAUGE 2 WIRES TWISTED PAIR	.250 FAST-ONS PLUGS (2)	.250 FAST-ONS (2)					717788
W8	20 GAUGE 4 WIRES TWISTED PAIR	CANNON D-TYPE DEU-5P	CANNON D-TYPE DEU-5S					744618
W9	RIBBON (44)	DOUBLE ROW SOCKET CONNECTOR 44 PIN FEM.	DOUBLE ROW SOCKET CONNECTOR 40 PIN FEM.					744619
W10	RIBBON (16)	DOUBLE ROW SOCKET CONNECTOR 16 PIN FEM.	DOUBLE ROW SOCKET CONNECTOR 16 PIN MALE					744620
W11	RIBBON (10)	DOUBLE ROW SOCKET CONNECTOR 10 PIN FEM.	DOUBLE ROW SOCKET CONNECTOR 10 PIN FEM.					744621
W12	RIBBON (24)	DOUBLE ROW CENTRONICS 24 PIN MALE	DOUBLE ROW CENTRONICS 24 PIN FEMALE					744626

Figure 34
Cable Interconnects
Model 7700



CABLE TYPE	CONNECTORS						NOTES
	P1	P2	P3	P4	P5	P6	
W18	16 GAUGE 1 WIRE	.250 FAST-ON	*8 5 TOOTH RING LUG				785435
W2	16 GAUGE TWISTED PAIR	.250 FAST-ONS	*8 RING LUGS (2)				257445
W3	12GA SHIELDED TWISTED PAIR 22GA SHIELDED TWISTED PAIR	*8 RING LUGS (4)	*8 RING LUG	*8 RING LUG	*8 RING LUG		717790
W4	20 GAUGE 12 WIRES	CANNON D-TYPE DMM-15P	MOLEX SINGLE ROW 15 POSITION				744614
W5	16GA SHIELDED TWISTED PAIR 22GA SHIELDED TWISTED PAIR	CANNON D-TYPE DMM-7V2P	*10 RING LUGS (2)			*10 RING LUGS ON P2-1 + 3 *6 RING LUG ON P2-2 MOLDED CABLE	782561
W6B	16 GAUGE 1 WIRE	.250 FAST-ON (1)	.187 FAST-ON (1)				785461
W7B	16 GAUGE 2 WIRES TWISTED PAIR	.250 FAST-ONS (2)	.187 FAST-ON (1)	.250 FAST-ON (1)			785460
W8	20 GAUGE 4 WIRES TWISTED PAIR	CANNON D-TYPE DEU-5P	CANNON D-TYPE DEU-5S				744618
W9	RIBBON (30)	DOUBLE ROW SOCKET CONNECTOR 44 PIN FEM.	DOUBLE ROW SOCKET CONNECTOR 40 PIN FEM.				744619
W10B	RIBBON (30)	DOUBLE ROW SOCKET CONNECTOR 30 PIN FEM.	DOUBLE ROW SOCKET CONNECTOR 30 PIN MALE				785456
W11	RIBBON (10)	DOUBLE ROW SOCKET CONNECTOR 10 PIN FEM.	DOUBLE ROW SOCKET CONNECTOR 10 PIN FEM.				744621
W12	RIBBON (24)	DOUBLE ROW CENTRONICS 24 PIN MALE	DOUBLE ROW CENTRONICS 24 PIN FEMALE				744636

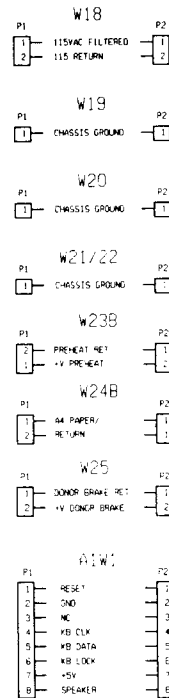
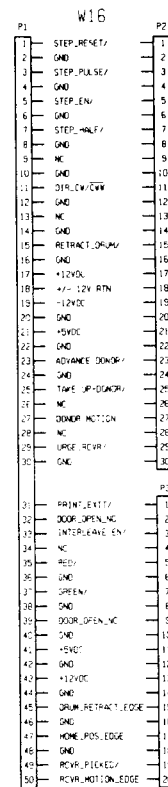
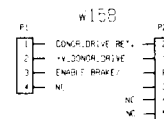
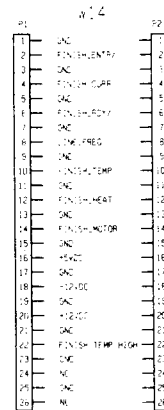
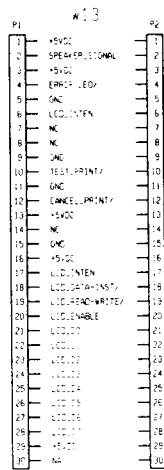
Figure 34A
Cable Interconnects
Model 7720



		CONNECTORS				NOTES
		P1	P2	P3	P4	
W13	RIBBON (30)	DOUBLE ROW SOCKET CONNECTOR 30 PIN FEM.	DOUBLE ROW SOCKET CONNECTOR 30 PIN MALE			744623
W14	RIBBON (26)	DOUBLE ROW SOCKET CONNECTOR 26 PIN FEM.	DOUBLE ROW SOCKET CONNECTOR 26 PIN MALE			744624
W15	22 GAUGE (1) TWISTED PAIR (1) SINGLE WIRE	AMP MTA SERIES 4 PIN FEM.	AMP MODU MTE SERIES 4 PIN MALE			744625
W16	RIBBON (50) TWISTED PAIR	DOUBLE ROW SOCKET CONNECTOR 50 PIN FEM.	DOUBLE ROW SOCKET CONNECTOR 30 PIN FEM.	DOUBLE ROW SOCKET CONNECTOR 20 PIN FEM.		744626
W17	24 GAUGE 10 WIRES	AMP MODU DOUBLE ROW 20 PIN FEM.	AMP MODU MTE SERIES 3 PIN MALE		AMP MODU MTE SERIES 4 PIN MALE	744627
W18	16 GAUGE 2 WIRES	.250 FAST-ONS	#8 RING LUG (2)			717658
W19	16 GAUGE 1 WIRE	#8 RING LUG	#8 RING LUG			717659
W20	7/32" BRAID	#6 RING LUG	#8 RING LUG			P1 IS CONNECTED TO A148E1 257942
W21/22	ALUM STRIP	#6 SCREW HOLE	#6 SCREW HOLE			257943
W23	16 GAUGE TWISTED PAIR	MOLEX 1545 SERIES 2 PIN FEMALE	MOLEX 1545 SERIES 2 PIN MALE			258397
W25	22 GAUGE TWISTED PAIR	MTA SERIES 2 PIN FEMALE	AMP MODU MTE SERIES 2 PIN MALE			258766

A1W1	RIBBON (8)	AMP MTA SERIES 8 PIN FEMALE	AMP MTA SERIES 8 PIN FEMALE			744656
------	------------	-----------------------------	-----------------------------	--	--	--------

Figure 35
Cable Interconnects
Model 7700



	CABLE TYPE	CONNECTORS				NOTES
		P1	P2	P3	P4	
W13	RIBBON (30)	DOUBLE ROW SOCKET CONNECTOR 30 PIN FEM.	DOUBLE ROW SOCKET CONNECTOR 30 PIN MALE			744623
W14	RIBBON (26)	DOUBLE ROW SOCKET CONNECTOR 26 PIN FEM.	DOUBLE ROW SOCKET CONNECTOR 26 PIN FEM.			744624
W15B	22 GAUGE (1) TWISTED PAIR (1) SINGLE WIRE	AMP NTA SERIES 4 PIN FEM.	AMP MOD. MOD IV 4 PIN FEM.			784913
W16	RIBBON (50)	DOUBLE ROW SOCKET CONNECTOR 50 PIN FEM.	DOUBLE ROW SOCKET CONNECTOR 30 PIN FEM.	DOUBLE ROW SOCKET CONNECTOR 20 PIN FEM.		744626
W18	16 GAUGE 2 WIRE	+250 FAST-ONS	+8 RING LUG (2)			717558
W19	16 GAUGE 2 WIRE	+8 RING LUG	+8 RING LUG			717559
W20	7/32" BRAD	+6 RING LUG	+8 RING LUG			P1 IS CONNECTED TO ALARM (15V GND) MOTHER BO. 257942
W21/22	ALUM STRIP	+6 SCREW HOLE	+6 SCREW HOLE			257943
W23B	16 GAUGE TWISTED PAIR	MOLEX 1545 SERIES 2 PIN FEM.	AMP MOD. 2 PIN FEM.			784914
W24B	24 GAUGE TWISTED PAIR	AMP MOD. NTE 2 PIN FEM.	+110 FASTON (2)			785457
W25	22 GAUGE TWISTED PAIR	NTA SERIES 2 PIN FEMALE	AMP MOD. NTE SERIES 2 PIN MALE			258766

A1W1	RIBBON (8)	AMP NTA SERIES 8 PIN FEMALE	AMP NTA SERIES 8 PIN FEMALE			744656
------	------------	-----------------------------	-----------------------------	--	--	--------

Figure 35A
Cable Interconnects
Model 7720

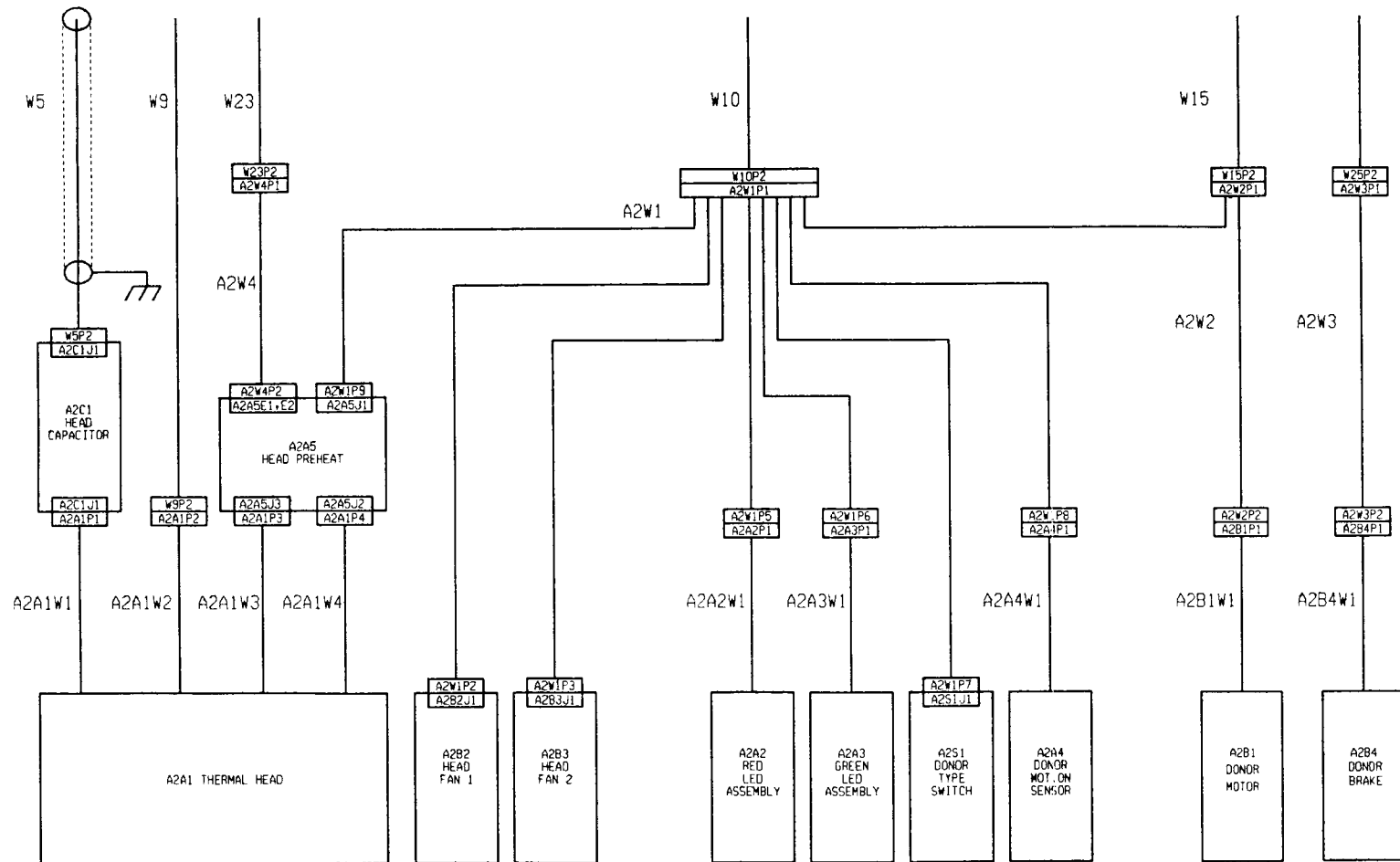
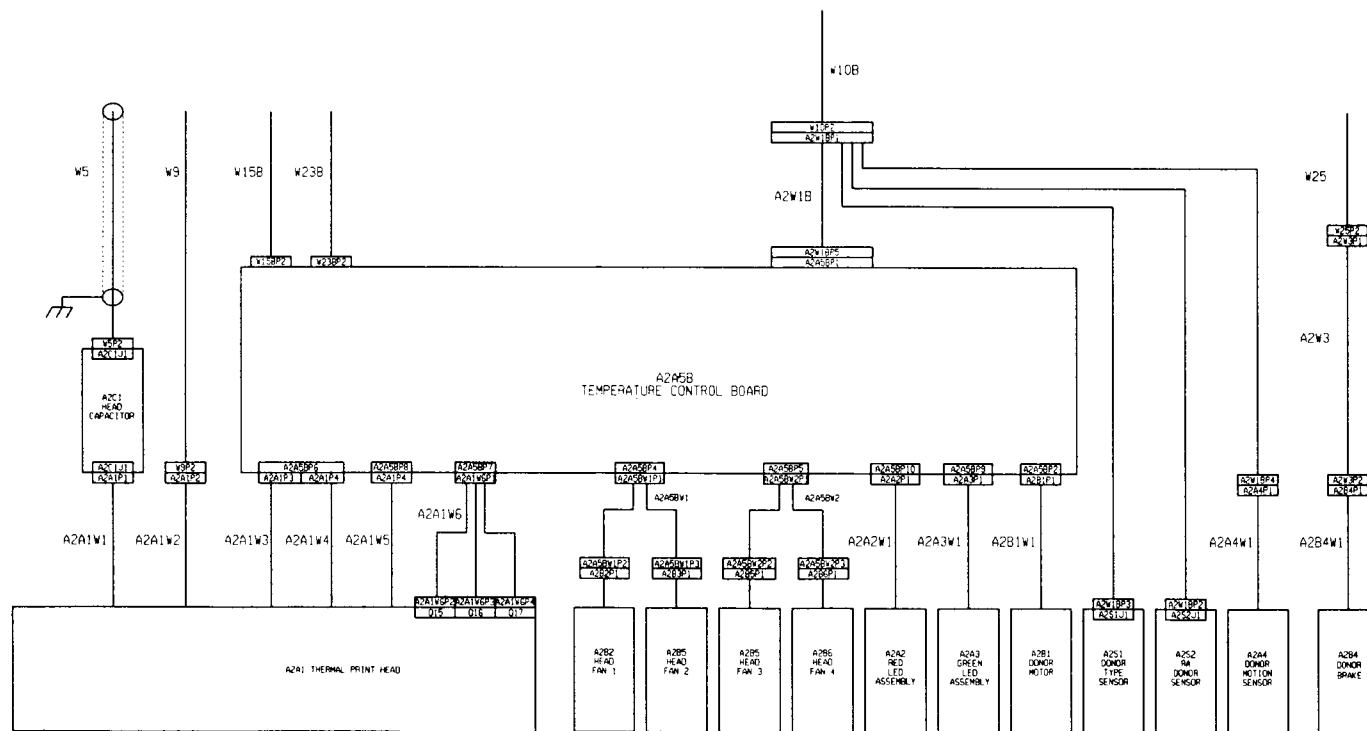
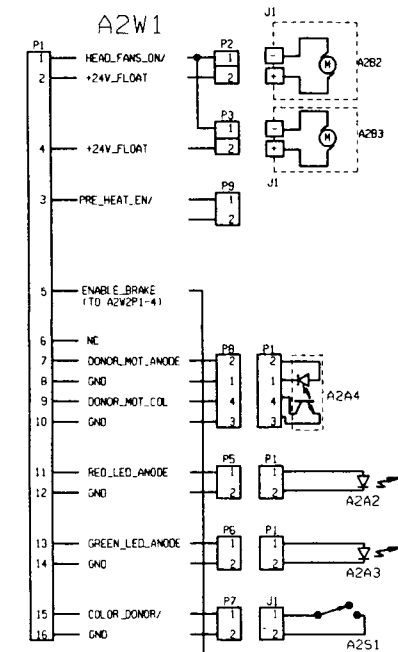


Figure 36
FRONT DOOR Interconnect:
Model 7700



SCHEMATIC: HEAD PREHEAT 258706

Figure 36A
FRONT DOOR Interconnects
Model 7720



	CABLE TYPE	CONNECTORS									NOTES KAO PART NUM.
		P1	P2	P3	P4	P5	P6	P7	P8	P9	
A2W1	26 GAUGE 12 WIRES	AMP MOOU DOUBLE ROW 16 PIN FEM.	+110 FAST-ON (2)	+110 FAST-ON (2)	AMP MTE CRIMP TERMINAL	AMP MOOU MTE SERIES 2 PIN MALE	AMP MOOU MTE SERIES 2 PIN MALE	+110 FAST-ON (2)	AMP MOOU MTE SERIES 4 PIN MALE	AMP MOOU MTE SERIES 2 PIN FEMALE	744629
A2W2	22 GAUGE (3) WIRE (1) SINGLE (1) TWISTED	AMP MOOU MTE SERIES 4 PIN MALE	AMP MOOU MTE SERIES 3 PIN FEM.	*6 RING LUG							744630
A2W3	22 GAUGE TWISTED PAIR	AMP MOOU MTE SERIES 2 PIN FEMALE	AMP MOOU MTE SERIES 2 PIN MALE								25870
A2W4	16 GAUGE TWISTED PAIR	MOLEX 2 PIN MALE	*6 RING LUG (2)								258493

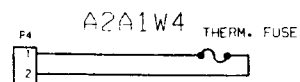
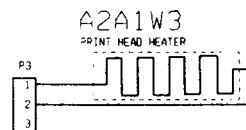
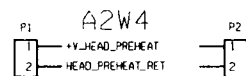
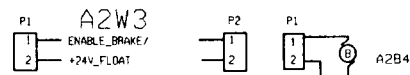
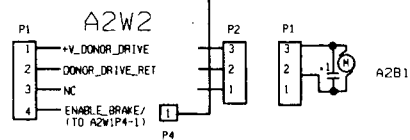
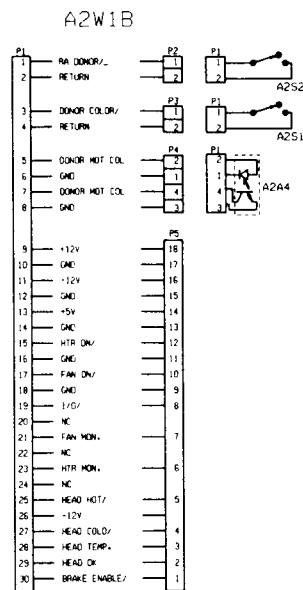


Figure 37
FRONT DOOR Interconne
Model 7700



	CABLE TYPE	CONNECTORS					NOTES
		P1	P2	P3	P4	P5	
A2W1B	24 GAUGE 24 WIRES	AMP MODU DOUBLE PON 30 PIN FEM.	+110 FAST-ON (12)	+110 FAST-ON (12)	AMP MODU MTE SERIES 4 PIN MALE	AMP MODU MOD IV 18 PIN FEM.	784912
A2W3	22 GAUGE TWISTED PAIR	AMP MODU MTE SERIES 2 PIN FEMALE	AMP MODU MTE SERIES 2 PIN MALE				258770

	CABLE TYPE	CONNECTORS				NOTES
		P1	P2	P3	P4	
A2A1W6B	24 GAUGE 9 WIRES	AMP MTA SERIES 8 PIN FEMALE	AMP MTA SERIES 3 PIN FEMALE	AMP MTA SERIES 3 PIN FEMALE	AMP MTA SERIES 3 PIN FEMALE	785458
A2A5BW1	24 GAUGE 6 WIRES	AMP MODU MTE SERIES 6 PIN FEMALE	MOLEX 1625 SERIES 3 PIN RECP	MOLEX 1625 SERIES 3 PIN RECP		785465

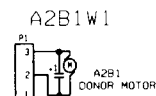
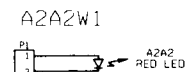
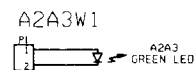
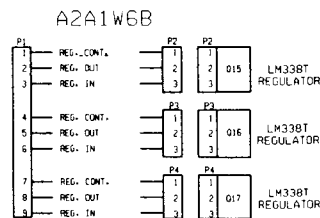
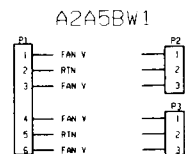
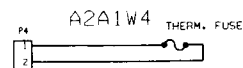
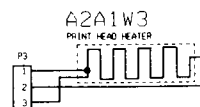
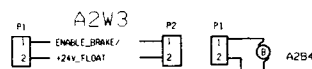
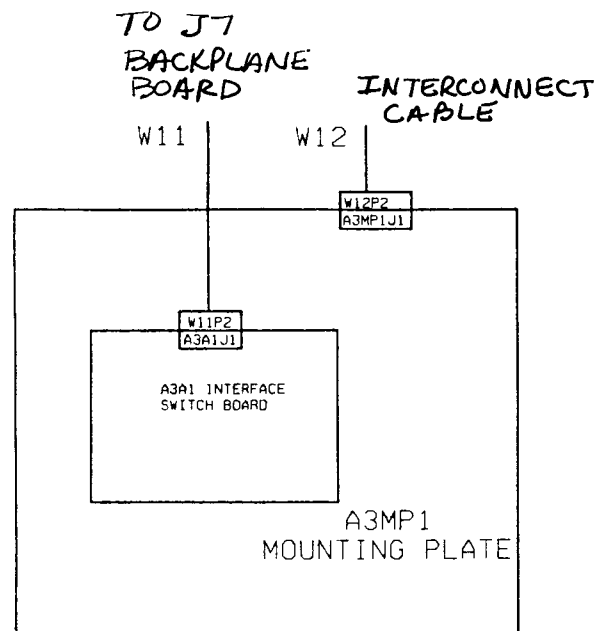
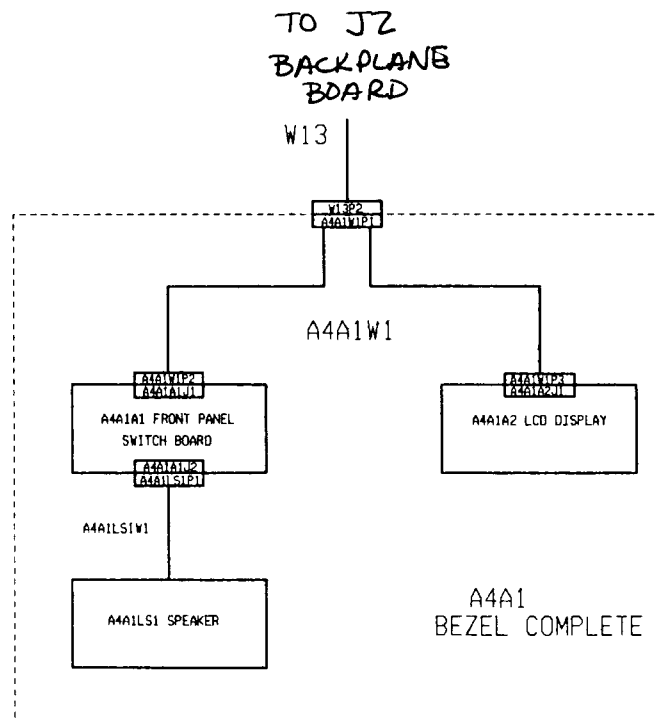


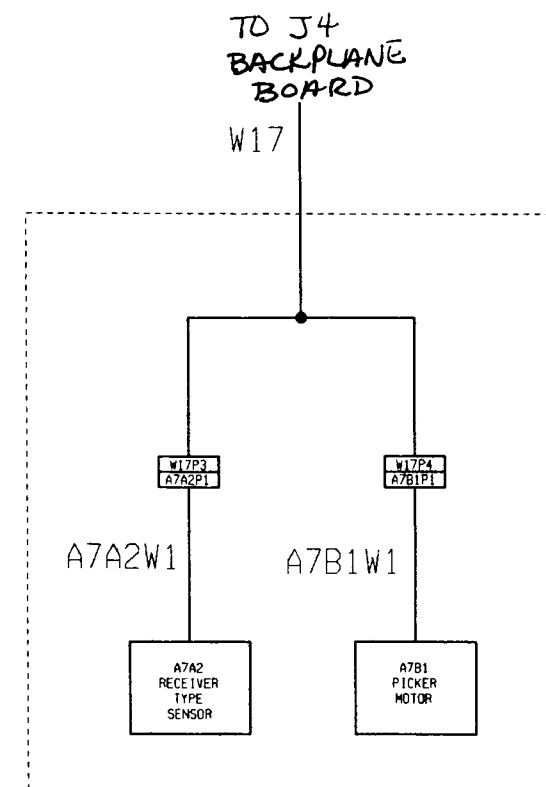
Figure 37A
FRONT DOOR Interconnects
Model 7720



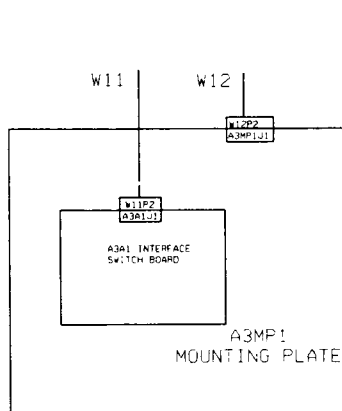
A3 INTERFACE ASSEMBLY



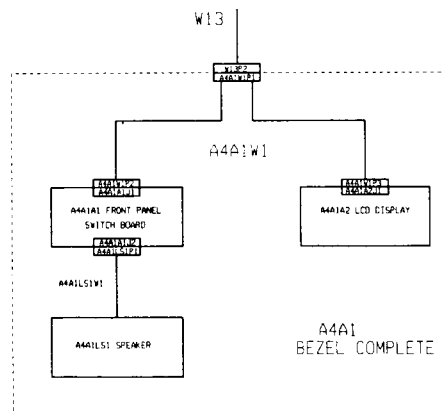
A4 FRONT PANEL ASSEMBLY



A7 RECEIVER PICKER ASSEMBLY

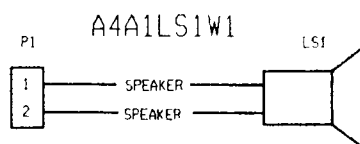
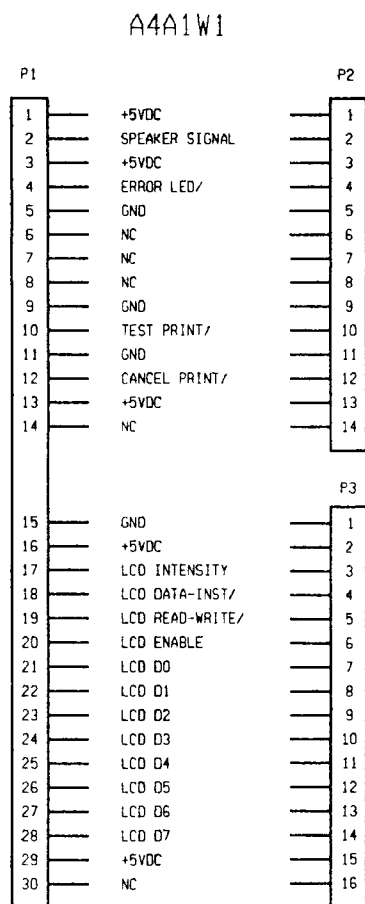


A3 INTERFACE ASSEMBLY



A4 FRONT PANEL ASSEMBLY

SCHEMATIC: INTERFACE 744505
FRONT PANEL 717759

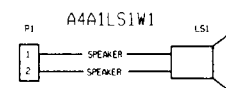
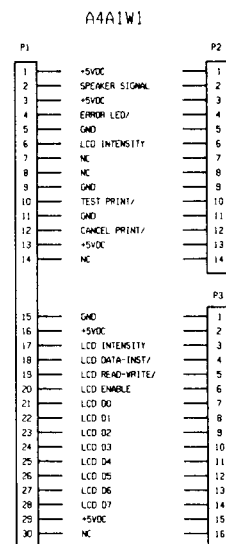


CONNECTORS

	CABLE TYPE	P1	P2	P3	NOTES KAD PART NO.
A4A1W1	RIBBON (30)	DOUBLE ROW SOCKET CONNECTOR 30 PIN FEMALE	DOUBLE ROW SOCKET CONNECTOR 14 PIN FEMALE	DOUBLE ROW SOCKET CONNECTOR 16 PIN FEMALE	744631

	CABLE	P1	LS1	NOTES KAD PART NO.
A4A1LS1W1	26 GAUGE 2 WIRE	MTA SERIES 2 PIN FEMALE	SPEAKER 1" FLAT	717742

Figure 39
FRONT BEZEL Connectors
Model 7700

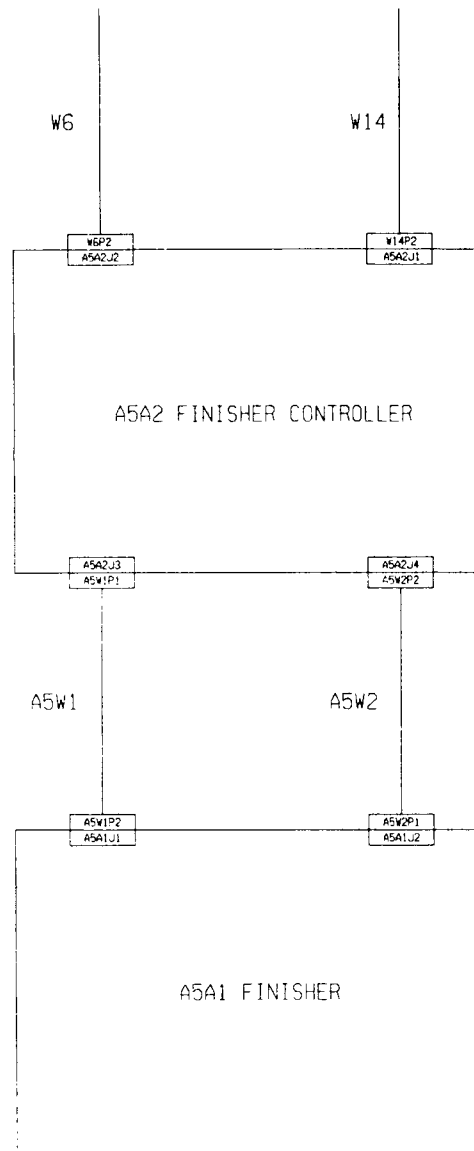


CONNECTORS

	CABLE TYPE	P1	P2	P3	NOTES KNO PART NO.
A4A1W1	RIBBON (30)	DOUBLE ROW SOCKET CONNECTOR 30 PIN FEMALE	DOUBLE ROW SOCKET CONNECTOR 14 PIN FEMALE	DOUBLE ROW SOCKET CONNECTOR 16 PIN FEMALE	744631

	CABLE	P1	LS1	NOTES KNO PART NO.
A4A1LS1W1	26 GAUGE 2 WIRE	MTA SERIES 2 PIN FEMALE	SPEAKER 1" FLAT	717742

Figure 39A
FRONT PANEL Interconnects
Model 7720



	CABLE TYPE	P1	P2	NOTES KAD PART NUM.
A5W1	16GA SHIELDED PAIR 22GA SHIELDED 3 WIRES	CANNON D-TYPE DAM-7W2P	CANNON D-TYPE DAM-7W2S	783563
A5W2	RIBBON (9)	CANNON D-TYPE DESF-9S	CANNON D-TYPE DESF-9P	744633

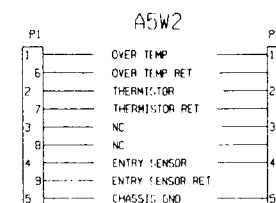
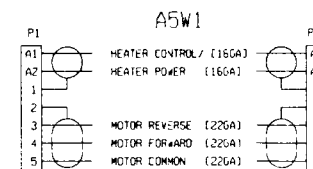
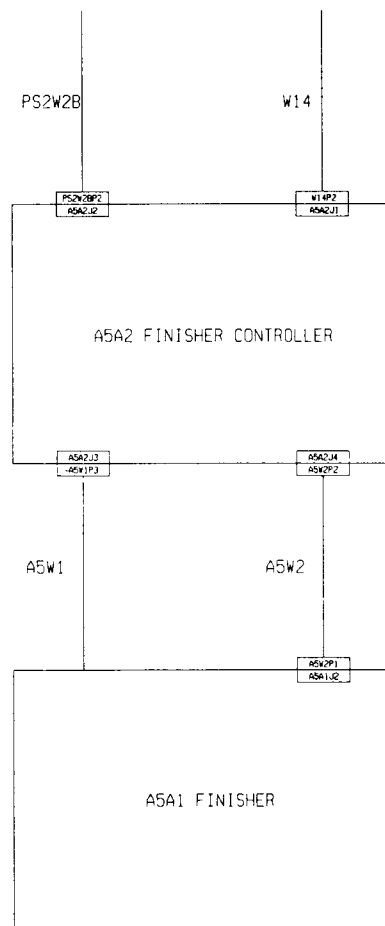
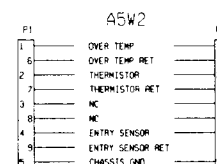


Figure 40
FINISHER Interconnect
Model 7700



	CABLE TYPE	P1	P2	NOTES
A5W2	RIBBON 191	CANNON D-TYPE DESF-95	CANNON D-TYPE DESF-9P	KAD PART NUM. 744633



SCHEMATIC: FINISHER 259533
SCHEMATIC: FINISHER CONTROLLER 259531

Figure 40A
Style 2 FINISHER Interconnect
Models 7700 and 7720

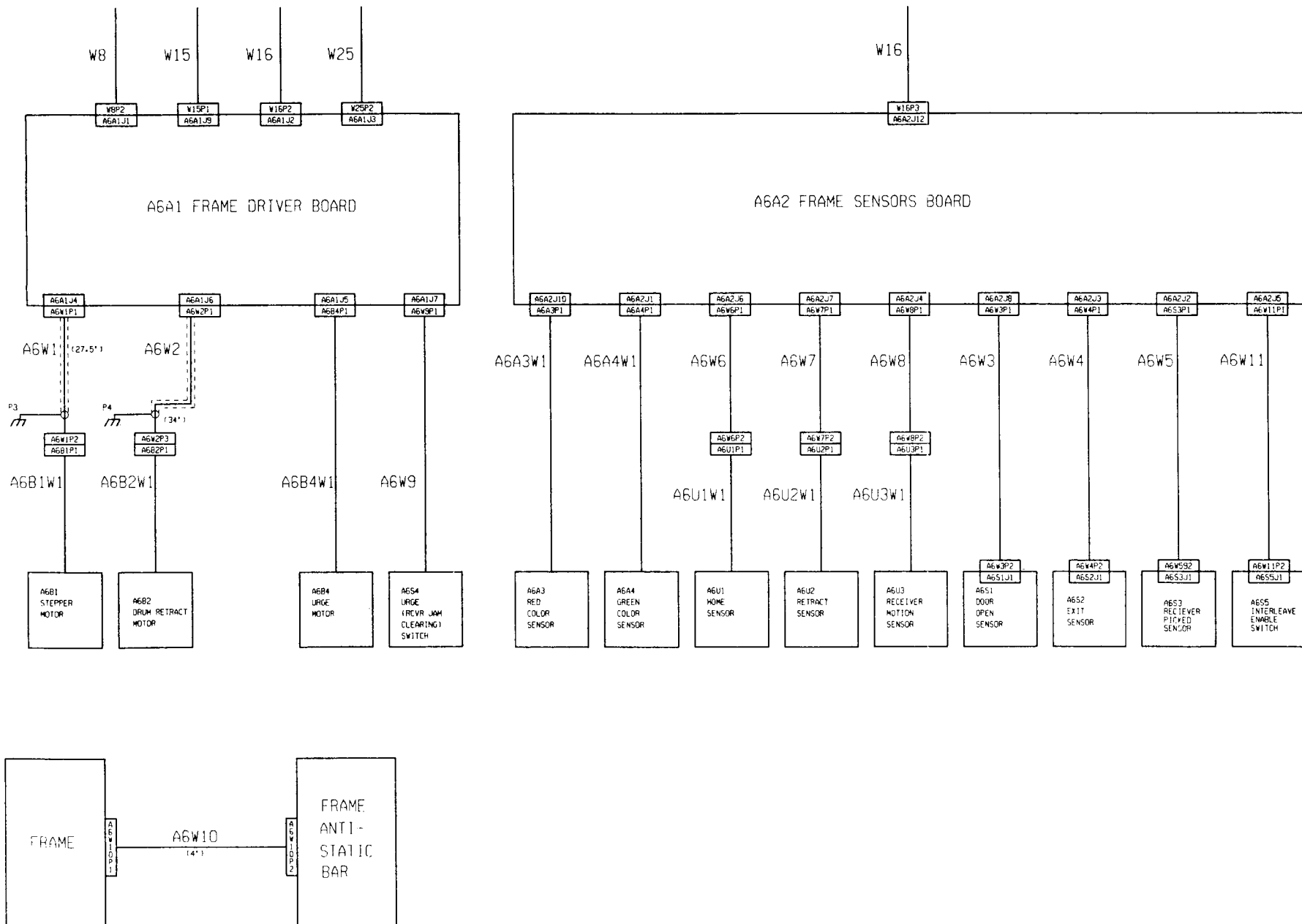
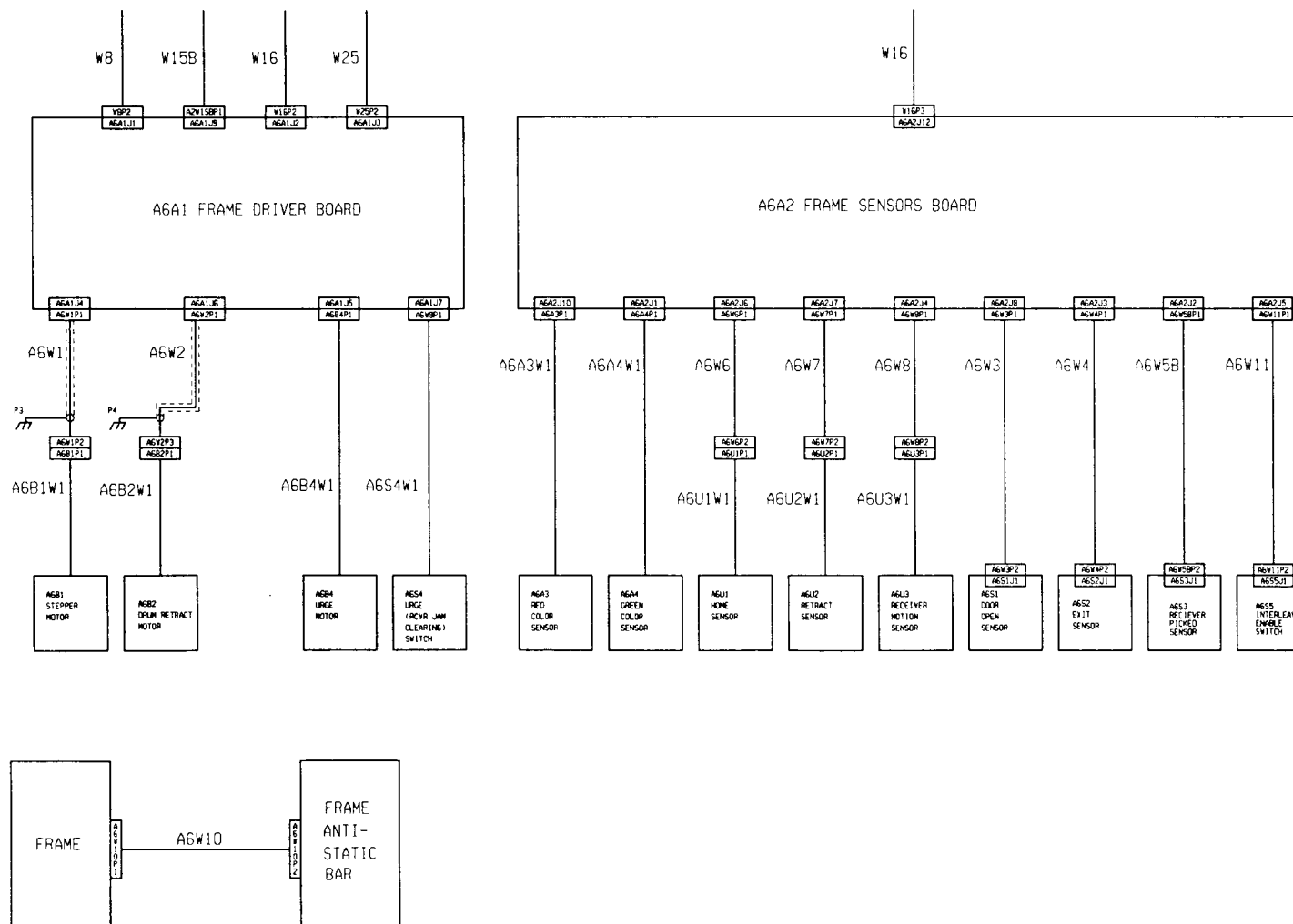
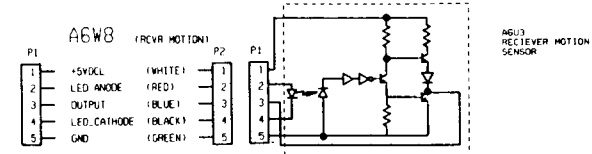
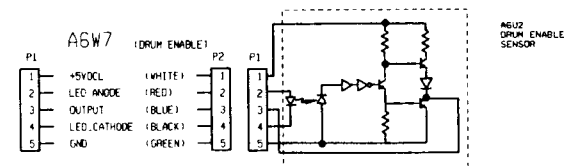
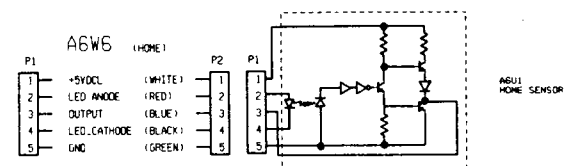
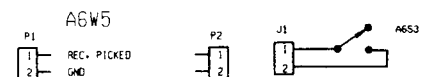
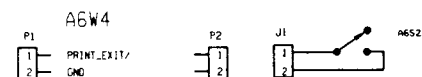
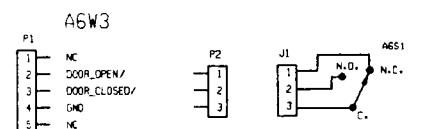
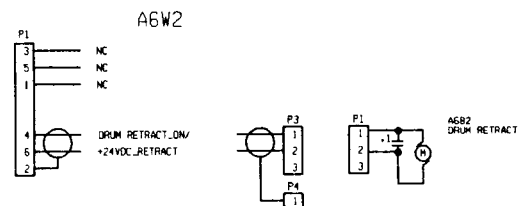
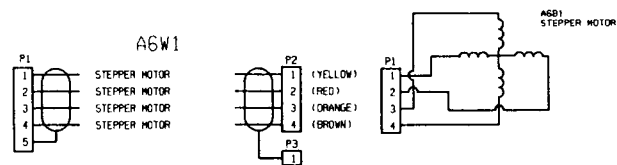


Figure 41
FRAME Interconnect
Model 7700



SCHEMATIC: FRAME DRIVER BOARD 783780
FRAME SENSOR 744541

Figure 41A
FRAME Interconnect
Model 7720



	CABLE TYPE	P1	P2	P3	P4	NOTES KAD PART NUM.
A6W1	22 GAUGE SHIELDED 4 WIRE	AMP MTA SERIES 5 PIN FEMALE	AMP MODU MTE SERIES 4 PIN MALE	*6 RING LUG		744634
A6W2	22 GAUGE SHIELDED TWISTED PAIR	AMP MTA SERIES 5 PIN FEMALE		AMP MTE SERIES 3 PIN FEMALE	*6 RING LUG	744635
A6W3	22 GAUGE 2 WIRES	AMP MODU MTE SERIES 2 PIN FEMALE	+110 FAST-ONS (2)			744636
A6W4	22 GAUGE 2 WIRES	AMP MODU MTE SERIES 2 PIN FEMALE	+110 FAST-ONS (2)			744637
A6W5	22 GAUGE 2 WIRES	AMP MODU MTE SERIES 2 PIN FEMALE	+110 FAST-ONS (2)			744638
A6W6	26 GAUGE 5 WIRES	AMP MODU MTE SERIES 5 PIN FEMALE	AMP MODU MTE SERIES 5 PIN MALE			717743
A6W7	26 GAUGE 5 WIRES	AMP MODU MTE SERIES 5 PIN FEMALE	AMP MODU MTE SERIES 5 PIN MALE			744560
A6W8	26 GAUGE 5 WIRES	AMP MODU MTE SERIES 5 PIN FEMALE	AMP MODU MTE SERIES 5 PIN MALE			744563
A6W10	22 GAUGE 1 WIRE	*6 RING LUG	*4 RING LUG			744567
A6W11	22 GAUGE 2 WIRES	AMP MODU MTE SERIES 5 PIN FEMALE	+187 FLAG FAST-ONS (2)			258765

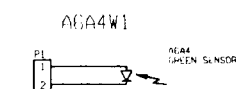
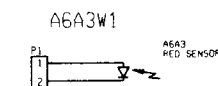
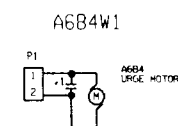
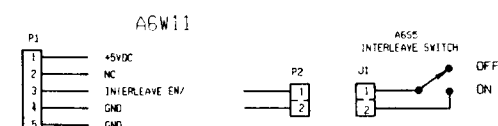
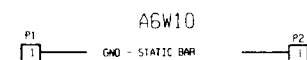
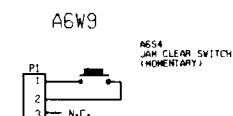
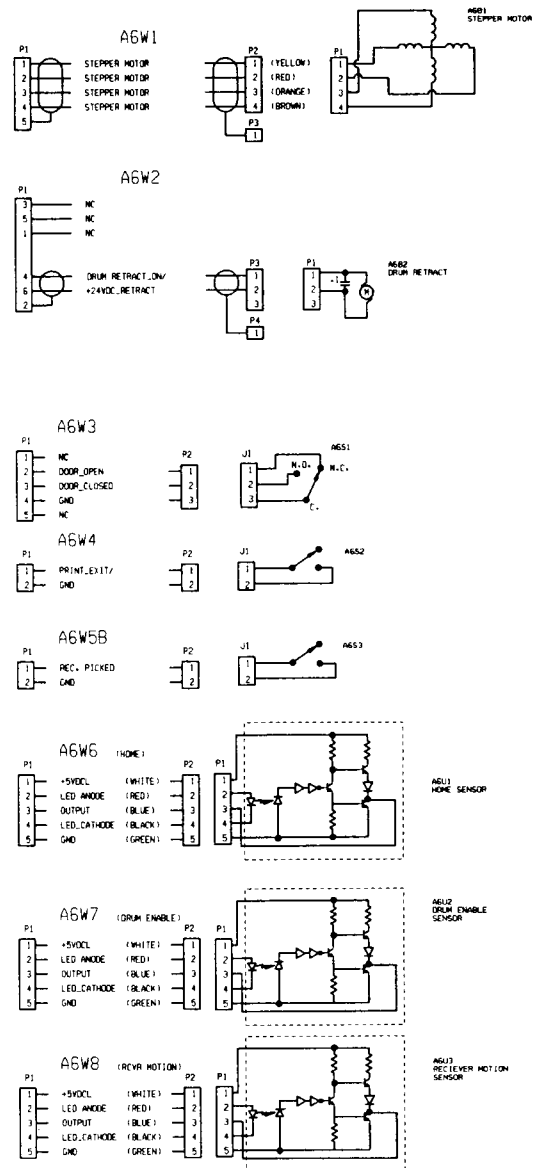


Figure 42
FRAME Connectors
Model 7700



CONNECTORS					
	CABLE TYPE	P1	P2	P3	P4
					NOTES
					KAD PART NUM.
A6W1	22 GAUGE SHIELDED 4 WIRE	AMP MTA SERIES 5 PIN FEMALE	AMP NODU MTE SERIES 4 PIN MALE	*6 RING LUG	744634
A6W2	22 GAUGE SHIELDED 4 WIRE	AMP MTA SERIES 5 PIN FEMALE	AMP NODU MTE SERIES 4 PIN MALE	*6 RING LUG	744635
A6W3	22 GAUGE SHIELDED 4 WIRE	AMP MTA SERIES 5 PIN FEMALE	AMP NODU MTE SERIES 4 PIN MALE	*6 RING LUG	744636
A6W4	22 GAUGE SHIELDED 4 WIRE	AMP MTA SERIES 5 PIN FEMALE	AMP NODU MTE SERIES 4 PIN MALE	*6 RING LUG	744637
A6W5B	22 GAUGE SHIELDED 4 WIRE	AMP MTA SERIES 5 PIN FEMALE	AMP NODU MTE SERIES 4 PIN MALE	*6 RING LUG	785454
A6W6	26 GAUGE 5 WIRE	AMP NODU MTE SERIES 5 PIN FEMALE	AMP NODU MTE SERIES 5 PIN MALE		717743
A6W7	26 GAUGE 5 WIRE	AMP NODU MTE SERIES 5 PIN FEMALE	AMP NODU MTE SERIES 5 PIN MALE		744560
A6W8	26 GAUGE 5 WIRE	AMP NODU MTE SERIES 5 PIN FEMALE	AMP NODU MTE SERIES 5 PIN MALE		744563
A6W10	22 GAUGE 1 WIRE	*6 RING LUG	*4 RING LUG		744567
A6W11	22 GAUGE 2 WIRE	AMP NODU MTE SERIES 5 PIN FEMALE	AMP NODU MTE SERIES 5 PIN MALE		258785

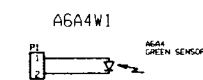
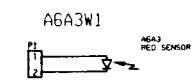
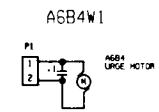
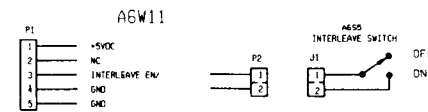
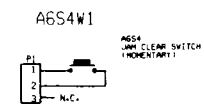


Figure 42A
FRAME Connectors
Model 7720

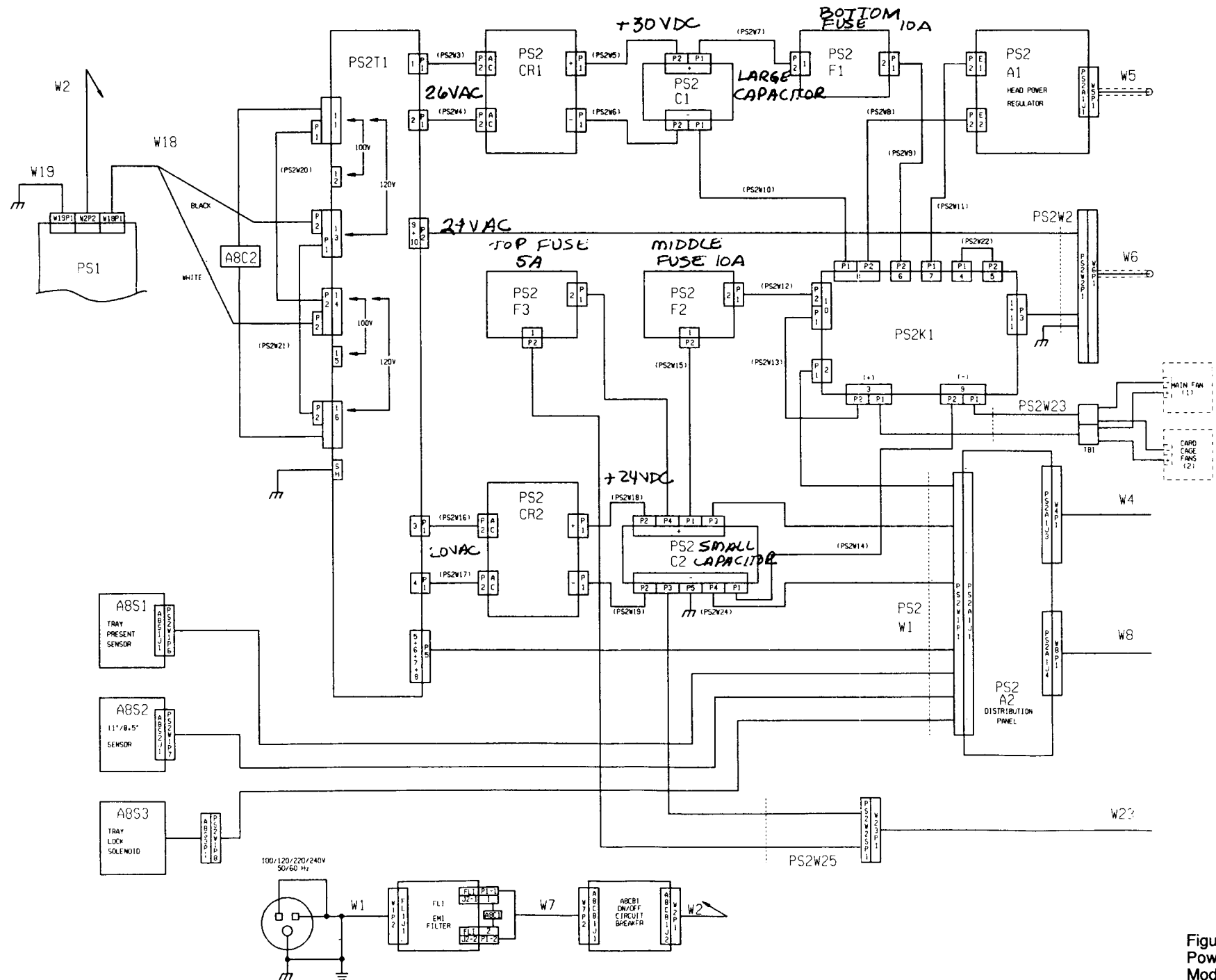


Figure 43
Power Distribution
Model 7700

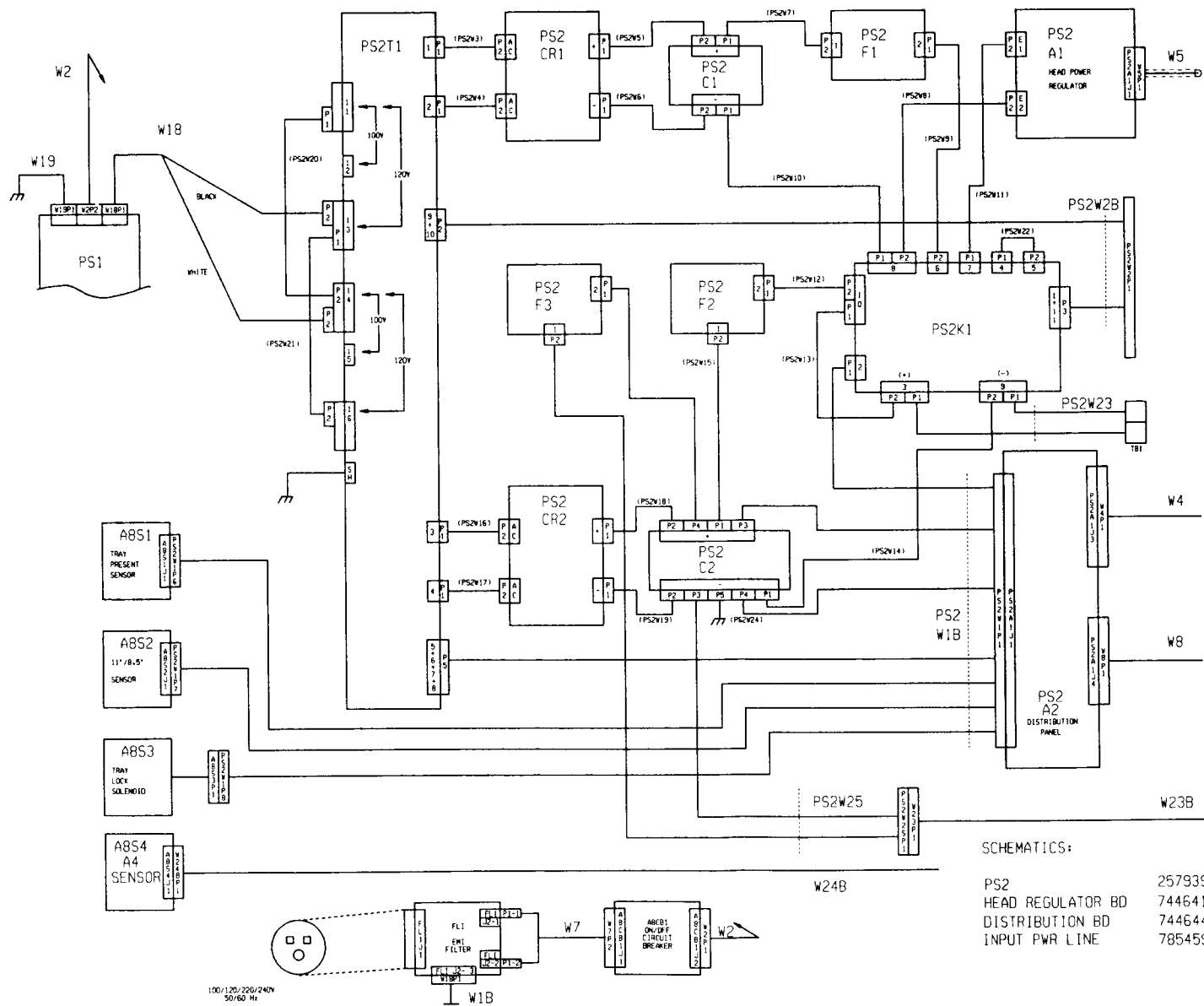
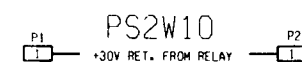
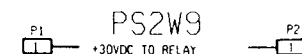
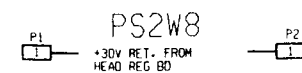
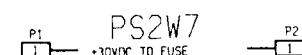
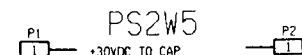
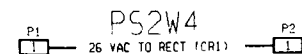
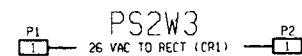
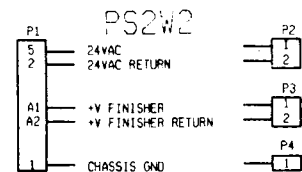
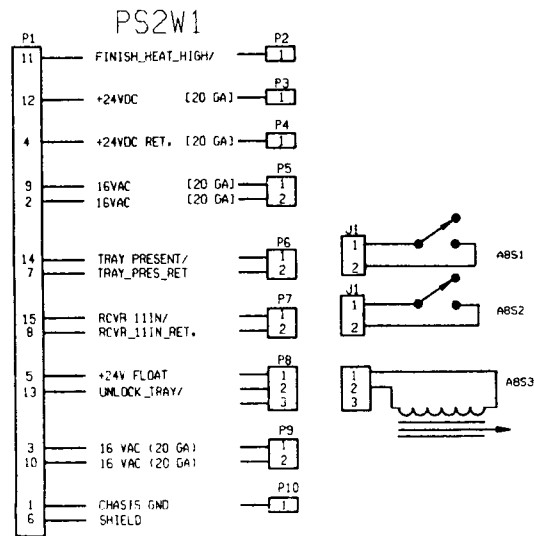
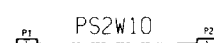
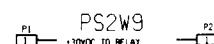
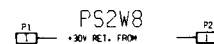
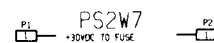
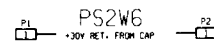
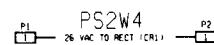
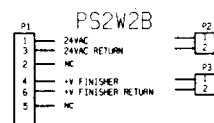
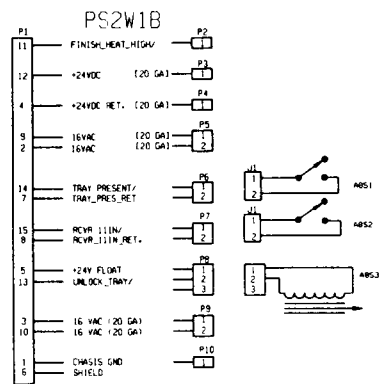


Figure 43A
Power Distribution
Model 7720



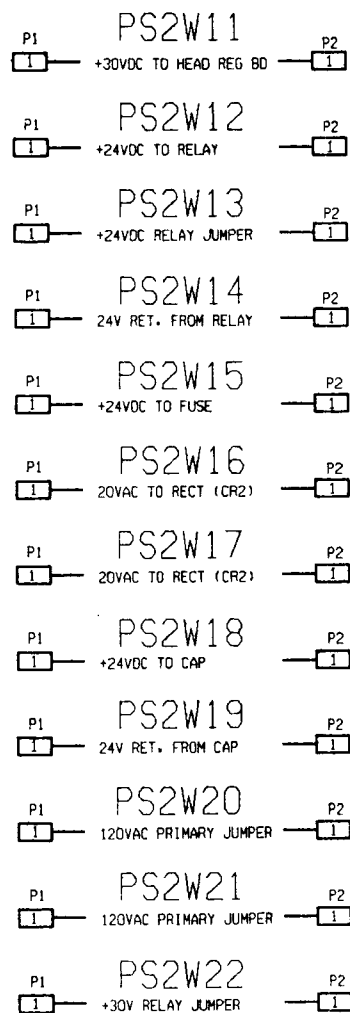
	CABLE TYPE	CONNECTORS										KAD PART NUM.
		P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	
PS2W1	20 GAUGE 5 WIRE 22 GAUGE 7 WIRE	CANNON D-TYPE DAU-15S	*6 RING LUGS	*10 RING LUG	*10 RING LUG	*250 FAST-ONS (2)	*110 FAST-ONS (2)	*110 FAST-ONS (2)	AMP MTE SERIES 3 PIN FEMALE	*250 FAST-ONS (2)	* 6 RING LUG	257444
PS2W2	16 GAUGE 2 WIRE 22 GAUGE 3 WIRE	CANNON D-TYPE DAM-7W2S	*250 FAST-ONS (2)	*6 RING LUGS (2)	*8 "5 TOOTH" RING LUG							257346
PS2W3	16 GAUGE 1 WIRE	*250 FAST-ON	*250 FAST-ON									258791
PS2W4	16 GAUGE 1 WIRE	*250 FAST-ON	*250 FAST-ON									258791
PS2W5	16 GAUGE 1 WIRE	*250 FAST-ON	1/4" RING LUG									717676
PS2W6	16 GAUGE 1 WIRE	*250 FAST-ON	1/4" RING LUG									717649
PS2W7	16 GAUGE 1 WIRE	1/4" RING LUG	*187 FLAG FAST-ON									717718
PS2W8	16 GAUGE 1 WIRE	*6 RING LUG	*6 RING LUG									717720
PS2W9	16 GAUGE 1 WIRE	*187 FLAG FAST-ON	*6 RING LUG									717719
PS2W10	16 GAUGE 1 WIRE	1/4" RING LUG	*6 RING LUG									717722

Figure 44
Power Connectors
Model 7700



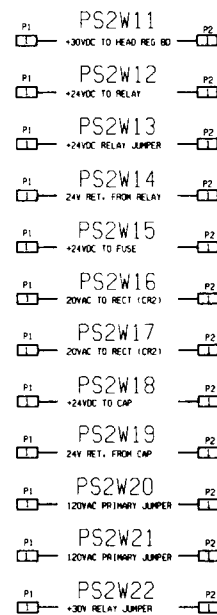
	CABLE TYPE	CONNECTORS										KNO PART NUM.
		P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	
PS2W1B	20 GAUGE 5 WIRE 22 GAUGE 7 WIRE	CANNON D-TYPE ONLY-55	*6 RING LUGS	*10 RING LUG	*10 RING LUG	*250 FAST-ONS (2)	*110 FAST-ONS (2)	*110 FAST-ONS (2)	AMP NTE SERIES 3 PIN FEMALE	*250 FAST-ONS (2)	* 6 RING LUG	785463
PS2W2B	16 GAUGE 2 WIRE 22 GAUGE 3 WIRE	MATE-N-LOCK PLUS 6 PIN	*250 FAST-ONS (2)	*250 STRIP (BARE WIRE) (2)								784385
PS2W3	16 GAUGE 1 WIRE	*250 FAST-ON	*250 FAST-ON									258791
PS2W4	16 GAUGE 1 WIRE	*250 FAST-ON	*250 FAST-ON									258791
PS2W5	16 GAUGE 1 WIRE	*250 FAST-ON	1/4" RING LUG									717676
PS2W6	16 GAUGE 1 WIRE	*250 FAST-ON	1/4" RING LUG									717649
PS2W7	16 GAUGE 1 WIRE	1/4" RING LUG	*187 FLAG FAST-ON									717718
PS2W8	16 GAUGE 1 WIRE	*6 RING LUG	*6 RING LUG									717720
PS2W9	16 GAUGE 1 WIRE	*187 FLAG FAST-ON	*6 RING LUG									717719
PS2W10	16 GAUGE 1 WIRE	1/4" RING LUG	*6 RING LUG									717722

Figure 44A
Power Connectors
Model 7720



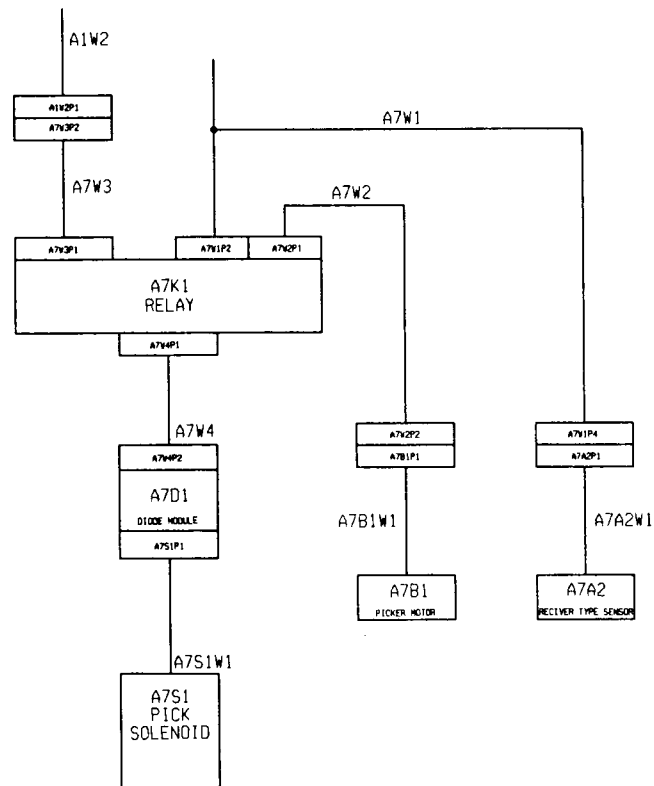
	CABLE TYPE	CONNECTORS			NOTES KAD PART NUM.
		P1	P2	P3	
PS2W11	16 GAUGE 1 WIRE	•6 RING LUG	•6 RING LUG		717723
PS2W12	16 GAUGE 1 WIRE	•187 FLAG FAST-ON	•6 RING LUG		717713
PS2W13	16 GAUGE 1 WIRE	•6 RING LUG	•6 RING LUG		717728
PS2W14	16 GAUGE 1 WIRE	•10 RING LUG	•6 RING LUG		717707
PS2W15	16 GAUGE 1 WIRE	•10 RING LUG	•187 FLAG FAST-ON		717712
PS2W16	16 GAUGE 1 WIRE	•250 FAST-ON	•250 FAST-ON		258791
PS2W17	16 GAUGE 1 WIRE	•250 FAST-ON	•250 FAST-ON		258791
PS2W18	16 GAUGE 1 WIRE	•10 RING LUG	•250 FAST-ON		717685
PS2W19	16 GAUGE 1 WIRE	•10 RING LUG	•250 FAST-ON		717688
PS2W20	16 GAUGE 1 WIRE	•250 FAST-ON/TAB COMBO	•250 FAST-ON		717729
PS2W21	16 GAUGE 1 WIRE	•250 FAST-ON/TAB COMBO	•250 FAST-ON		717730
PS2W22	16 GAUGE 1 WIRE	•6 RING LUG	•6 RING LUG		717728
PS2W23	22 GAUGE TWISTED PAIR	•6 RING LUG (2)	•250 FAST-ONS (2)		258272
PS2W24	7/32" BRAID	•10 RING LUG	•6 •5 TOOTH RING LUG		257944
PS2W25	16 GAUGE 2 WIRE	MOLEX 1545 SERIES 2 PIN FEMALE	•10 RING LUG	•187 FLAG FAST-ON	258396
PS2W26	16 GAUGE 1 WIRE	•10 RING LUG	•187 FLAG FAST-ON		717712

Figure 45
Power Connectors
Model 7700



	CABLE TYPE	CONNECTORS			NOTES AND PART NUM.
		P1	P2	P3	
PS2W11	16 GAUGE 1 WIRE	*6 RING LUG	*6 RING LUG		717723
PS2W12	16 GAUGE 1 WIRE	*187 FLAG FAST-ON	*6 RING LUG		717713
PS2W13	16 GAUGE 1 WIRE	*6 RING LUG	*6 RING LUG		717728
PS2W14	16 GAUGE 1 WIRE	*10 RING LUG	*6 RING LUG		717707
PS2W15	16 GAUGE 1 WIRE	*10 RING LUG	*187 FLAG FAST-ON		717712
PS2W16	16 GAUGE 1 WIRE	*250 FAST-ON	*250 FAST-ON		258791
PS2W17	16 GAUGE 1 WIRE	*250 FAST-ON	*250 FAST-ON		258791
PS2W18	16 GAUGE 1 WIRE	*10 RING LUG	*250 FAST-ON		717685
PS2W19	16 GAUGE 1 WIRE	*10 RING LUG	*250 FAST-ON		717688
PS2W20	16 GAUGE 1 WIRE	*250 FAST-ON/TAB COMBO	*250 FAST-ON		717729
PS2W21	16 GAUGE 1 WIRE	*250 FAST-ON/TAB COMBO	*250 FAST-ON		717730
PS2W22	16 GAUGE 1 WIRE	*6 RING LUG	*6 RING LUG		717728
PS2W23	22 GAUGE TWISTED PAIR	*6 RING LUG (21)	*250 FAST-ONS (21)		258272
PS2W24	7/32" BRAID	*10 RING LUG	*6 TOOTH* RING LUG		257944
PS2W25	16 GAUGE 2 WIRE	MOLEX 1540 SERIES 2 PIN FEMALE	*10 RING LUG	*187 FLAG FAST-ON	258396
PS2W26	16 GAUGE 1 WIRE	*10 RING LUG	*187 FLAG FAST-ON		717712

Figure 45A
Power Connectors
Model 7720



A7 RECEIVER PICKER ASSEMBLY

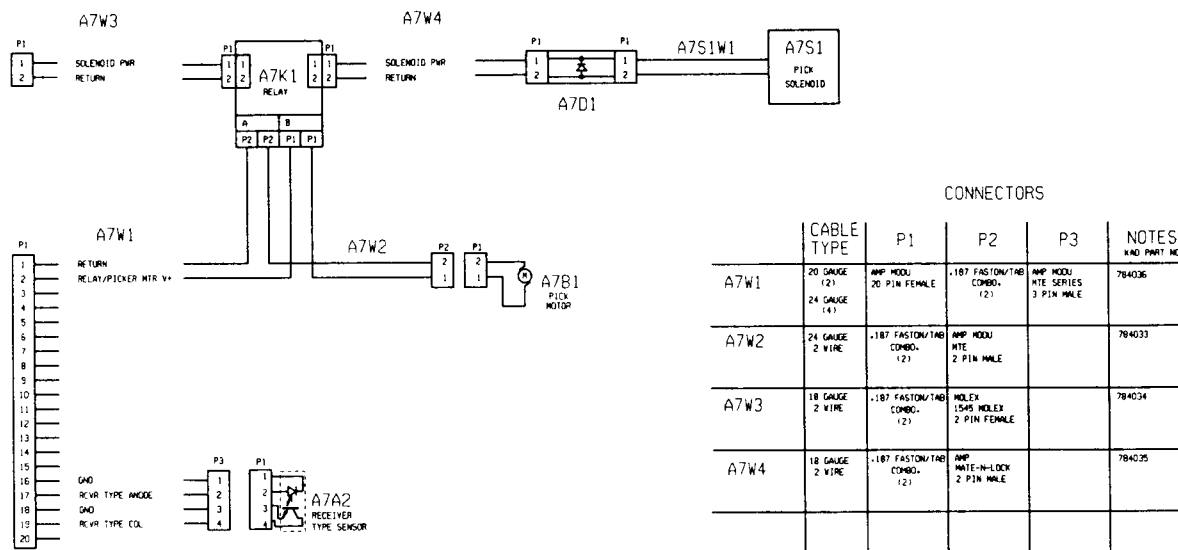


Figure 47
RECEIVER/PICKER Interconnect
Model 7720