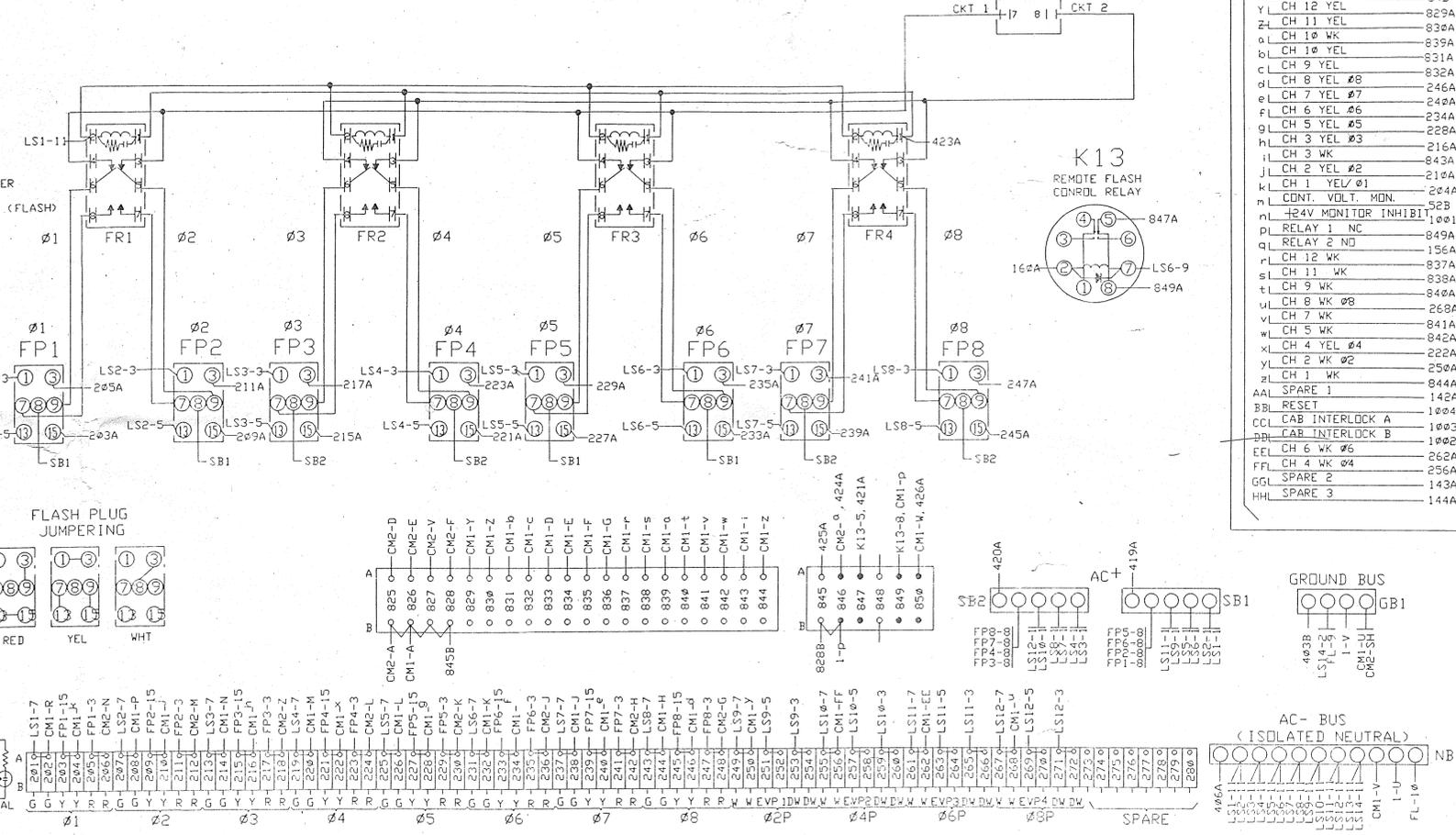


NOTE: 305, 310, 315, 320, 325, 330, 335, 340, 347, 352, 357, 362, 367 AND 372 ARE INTERCONNECTED BY THE WIDMULLER MOUNTING RAIL.

LS	1	2	3	4	5	6	7	8	9	10	11	12	13	14
CONT	1	2	3	4	5	6	7	8	2P	4P	6P	8P		
PLAN														
GREEN / WALK	10	62A	69A	76A	82A	102A	109A	116A	122A	72A	85A	112A	125A	
YELLOW/PED CLR	8	63A	70A	77A	83A	103A	110A	117A	123A	142B	144B	146B	148B	
RED/DON'T WALK	6	64A	71A	78A	84A	104A	111A	118A	124A	73A	86A	113A	126A	
GREEN / WALK	7	201A	207A	213A	219A	225A	231A	237A	243A	249A	255A	261A	267A	
YELLOW	5	FP1-13	FP2-13	FP3-13	FP4-13	FP5-13	FP6-13	FP7-13	FP8-13	251A	257A	263A	269A	
RED/DON'T WALK	3	FP1-1	FP2-1	FP3-1	FP4-1	FP5-1	FP6-1	FP7-1	FP8-1	253A	259A	265A	271A	
+24 VDC	2													▷ 60B
CHASSIS GROUND	9													▷ GB1
AC NEUTRAL	11	NB1	NB1	NB1	NB1	NB1								
115 VAC	1	SB1	SB1	SB2	SB2	SB1	SB1	SB2	SB2	SB1	SB2	SB1	SB2	



TIGHTENING TORQUE SPECIFICATIONS

SCREW SIZE	6-32	8-32	10-32
POUND INCHES	12	16	25.9
BLOCK TYPE	SAK55	RK6-13	SAK33A
POUND INCHES	14.5	16	35
BLOCK TYPE	2835	2810	
POUND INCHES	35.5	17.75	

VEHICLE SIGNALS

SIGNAL	TERMINAL	G	Y	R
2-1	201	203	205	
2-2	202	204	206	
2-3	225	227	201	203
2-4	226	228	202	204
4-1	217	219	221	
4-2	218	220	222	
4-3	231	233	235	
6-1	232	234	236	
6-2	201	203	231	233
6-3	202	204	232	234
8-1	243	245	247	
8-2	244	246	248	
8-3	243	245	247	

SIGNAL HEAD NEUTRALS TO BE TERMINATED ON FNBI OR FN2

VEH DETECTORS

DET	TERMINAL
D1-1	303-304
D1-2	306-307
D2-1	313-314
D2-2	316-317
D4-1	355-356
D4-2	323-324
D5-1	345-346
D5-2	348-349
D6-1	318-319
D6-2	321-322
D8-1	358-359
D8-2	326-327

LOOP LEAD IN DRAIN WIRES ARE TO BE CONNECTED TO GREEN/TAN WIDMULLER BLOCKS ONLY

PED SIGNALS

SIGNAL	TERMINAL	WK	DW
P2-1	249	253	
P2-2	250	254	
P4-1	255	259	
P4-2	256	260	
P6-1	261	265	
P6-2	262	266	
P8-1	267	271	
P8-2	268	272	

PED HEAD NEUTRALS TO BE TERMINATED ON FNBI OR FN2

PED PUSHBUTTONS

PPB	TERMINAL
P82-1,2	301
P84-1,2	302
P86-1,2	343
P88-1,2	344

NOTES

1) IF EVR HEADS ARE INSTALLED JUMPER 367B TO 369B AND / OR 335B TO 337B

EVP SENSORS

CONTR. CHAN	PHASES	POLE #	SIGNAL	DC+	GND
1	2	4	333	334	337
2	6	2	336	334	337
3	4-8	1-3	338	339	342

EVP CONFIRMATORY LIGHTS

CONTR. CHAN	PHASES	POLE #	TERM
1	2	4	251
2	6	2	257
3	4-8	1-3	263

#12/109TH AT JEFFERSON 97012

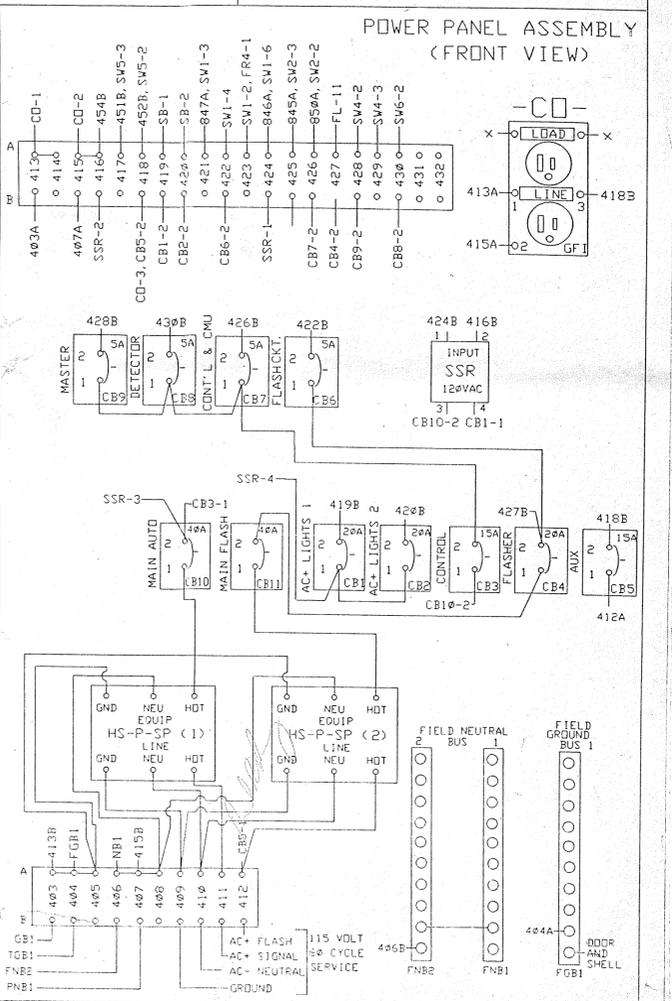
NEMA 12CH CONFLICT MONITOR

CM1	CM2
SHL SHELL GROUND	GB1
AL AC+I	826B
RL RELAY 1 NO	148A
CL RELAY 2 NC	141A
DL CH 12 GRN	833A
EL CH 11 GRN	834A
FL CH 9 GRN	835A
GL CH 8 GRN	836A
HL CH 7 GRN	244A
JL CH 6 GRN	238A
KL CH 5 GRN	232A
LL CH 4 GRN	226A
ML CH 3 GRN	220A
NL CH 2 GRN	214A
PL CH 1 GRV 01	208A
RL +24V MONITOR I	202A
SL LOGIC GROUND	59B
UL CHASSIS GROUND	53B
VL AC-(NEUTRAL)	SHELL
WL RELAY 1 COMMON (AG)	NB1
XL RELAY 2 COMMON (LG)	850A
YL CH 12 YEL	54B
ZL CH 11 YEL	829A
al CH 10 YEL	830A
bl CH 9 YEL	839A
cl CH 8 YEL	831A
dl CH 7 YEL	832A
el CH 6 YEL	246A
fl CH 5 YEL	249A
gl CH 4 YEL	234A
hl CH 3 YEL	228A
il CH 3 WK	216A
jl CH 2 YEL #2	843A
kl CH 1 YEL/01	210A
nl CONT. VOLT. MON.	204A
pl +24V MONITOR INHIBIT	52B
ql RELAY 1 NC	1001B
rl RELAY 2 NO	849A
sl CH 12 WK	156A
tl CH 11 WK	837A
ul CH 9 WK	838A
vl CH 8 WK	840A
wl CH 7 WK	268A
xl CH 5 WK	841A
yl CH 4 WK	842A
zl CH 4 YEL #4	222A
yl CH 2 WK #2	250A
zl CH 1 WK	844A
aa SPARE 1	142A
bb RESET	1004B
cc CAB INTERLOCK A	1003B
dd CAB INTERLOCK B	1002B
ee CH 6 WK #6	262A
ff CH 4 WK #4	256A
gg SPARE 2	143A
hh SPARE 3	144A

CONFLICT MONITOR MATRIX PROGRAMMING INSTRUCTIONS

1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12
1-3	2-4	3-5	4-6	5-7	6-8	7-9	8-10	9-11	10-12	
1-4	2-5	3-6	4-7	5-8	6-9	7-10	8-11	9-12		
1-5	2-6	3-7	4-8	5-9	6-10	7-11	8-12			
1-6	2-7	3-8	4-9	5-10	6-11	7-12				CH5-0.5
1-7	2-8	3-9	4-10	5-11	6-12					CH6-0.6
1-8	2-9	3-10	4-11	5-12						CH7-0.7
1-9	2-10	3-11	4-12							CH8-0.8
1-10	2-11	3-12								
1-11	2-12									
1-12										

CHANNEL-0 COMBINATIONS NOT PINNED WITH MATRIX JUMPERS CONSTITUTE CONFLICTING MOVEMENTS. TO PROGRAM, CIRCLE PERMISSIVE COMBINATIONS AND INSTALL JUMPERS ON CORRESPONDING PINS ON THE PROGRAM CARD.



REV. STATUS

REV	DATE	BY	DESCRIPTION
1	12/10/97	DC	INITIAL
2	01/08/98	CC	REVISED
3	02/05/98	CC	REVISED

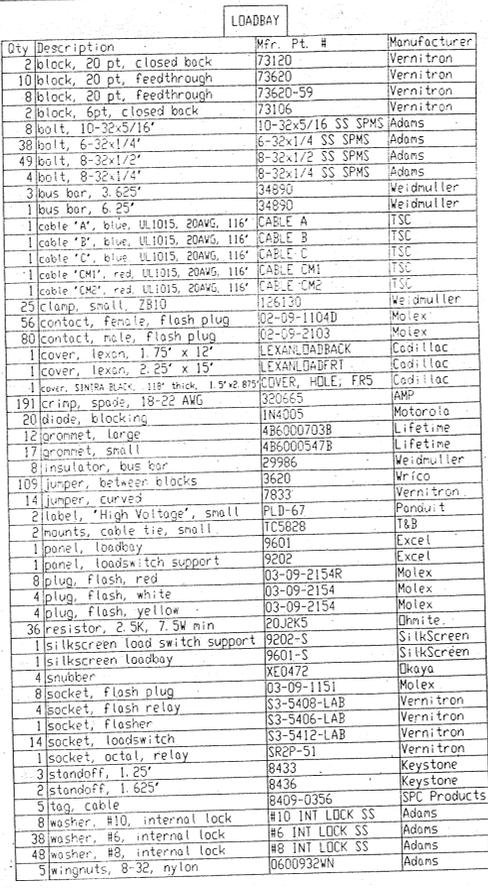
AC Electronics, Inc.

MODEL 1997 R CABINET

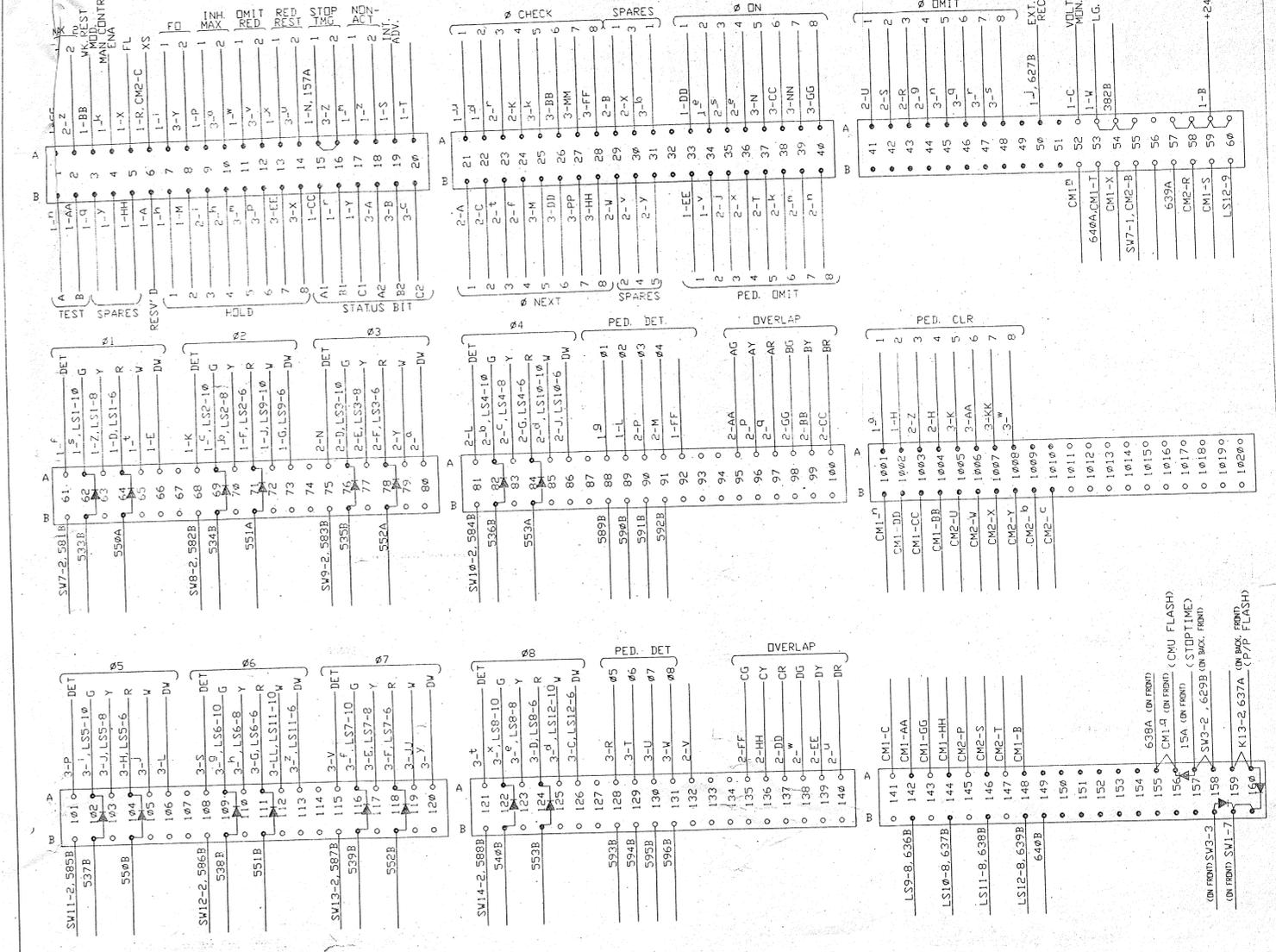
SCALE: 1" = 1"

CONTROLLER INTERFACE PANEL

Qty	Description	Mfr. Pt. #	Manufacturer
2	block, 20 pt, closed back	73120	Vernitron
10	block, 20 pt, feedthrough	73620	Vernitron
8	block, 20 pt, feedthrough	73620-59	Vernitron
2	block, 6pt, closed back	73106	Vernitron
8	bolt, 10-32x5/16"	10-32x5/16 SS SPMS	Adams
38	bolt, 6-32x1/4"	6-32x1/4 SS SPMS	Adams
49	bolt, 8-32x1/2"	8-32x1/2 SS SPMS	Adams
4	bolt, 8-32x1/4"	8-32x1/4 SS SPMS	Adams
3	bus bar, 3.625"	34890	Weidmuller
1	bus bar, 6.25"	34890	Weidmuller
1	cable "A", blue, UL1015, 20AWG, 116"	CABLE A	TSC
1	cable "B", blue, UL1015, 20AWG, 116"	CABLE B	TSC
1	cable "C", blue, UL1015, 20AWG, 116"	CABLE C	TSC
1	cable "CM1", red, UL1015, 20AWG, 116"	CABLE CM1	TSC
1	cable "CM2", red, UL1015, 20AWG, 116"	CABLE CM2	TSC
23	clamp, small, 2810	136130	Weidmuller
25	contact, female, flash plug	02-09-1104D	Molex
80	contact, male, flash plug	02-09-2103	Molex
1	cover, lexan, 7.5" x 12"	LEXANLABBACK	Codillac
1	cover, lexan, 2.25" x 15"	LEXANLABFRNT	Codillac
1	cover, SENSIBLACK, 118" thick, 1.5" x 2.8125"	COVER, HDLE, FR5	Codillac
191	crimp, spade, 18-22 AWG	930655	AMP
20	diode, blocking	1M4005	Motorola
12	grommet, large	486000703B	Lifetime
17	grommet, small	486000547B	Lifetime
8	insulator, bus bar	93986	Weidmuller
105	juniper, between blocks	9620	Wrico
14	juniper, curved	7833	Vernitron
2	label, "High Voltage", small	PLD-67	Panduit
2	mounts, cable tie, small	TC5828	T&B
1	panel, loadboy	9601	Excel
1	panel, loadswitch support	9202	Excel
8	plug, flash, red	03-09-2154R	Molex
4	plug, flash, white	03-09-2154	Molex
4	plug, flash, yellow	03-09-2154	Molex
36	resistor, 2.5K, 7.5W min	20J2K5	SilkScreen
1	silkscreen load switch support	9601-S	SilkScreen
4	snubber	KE0472	Dkaya
8	socket, flash plug	03-09-1151	Molex
4	socket, flash relay	S3-5408-LAB	Vernitron
1	socket, flasher	S3-5406-LAB	Vernitron
14	socket, loadswitch	S3-5412-LAB	Vernitron
1	socket, octal, relay	SR2P-51	Vernitron
3	standoff, 1.25"	8433	Keystone
2	standoff, 1.625"	8436	Keystone
5	tag, cable	8409-0356	SFC Products
8	washer, #10, internal lock	#10 INT LOCK SS	Adams
38	washer, #6, internal lock	#6 INT LOCK SS	Adams
48	washer, #8, internal lock	#8 INT LOCK SS	Adams
5	wingnuts, 8-32, nylon	0600932WN	Adams



Qty	Description	Mfr. Pt. #	Manufacturer
8	bolt, 10-32x1/4"	10-32x1/4 SS SPMS	Adams
0	111 hinge, 2-4" pieces	NA570-1-1/2	Austin
2	panel, hinge	9603	Strand
16	washer, #10, internal lock	#10 INT LOCK SS	Adams

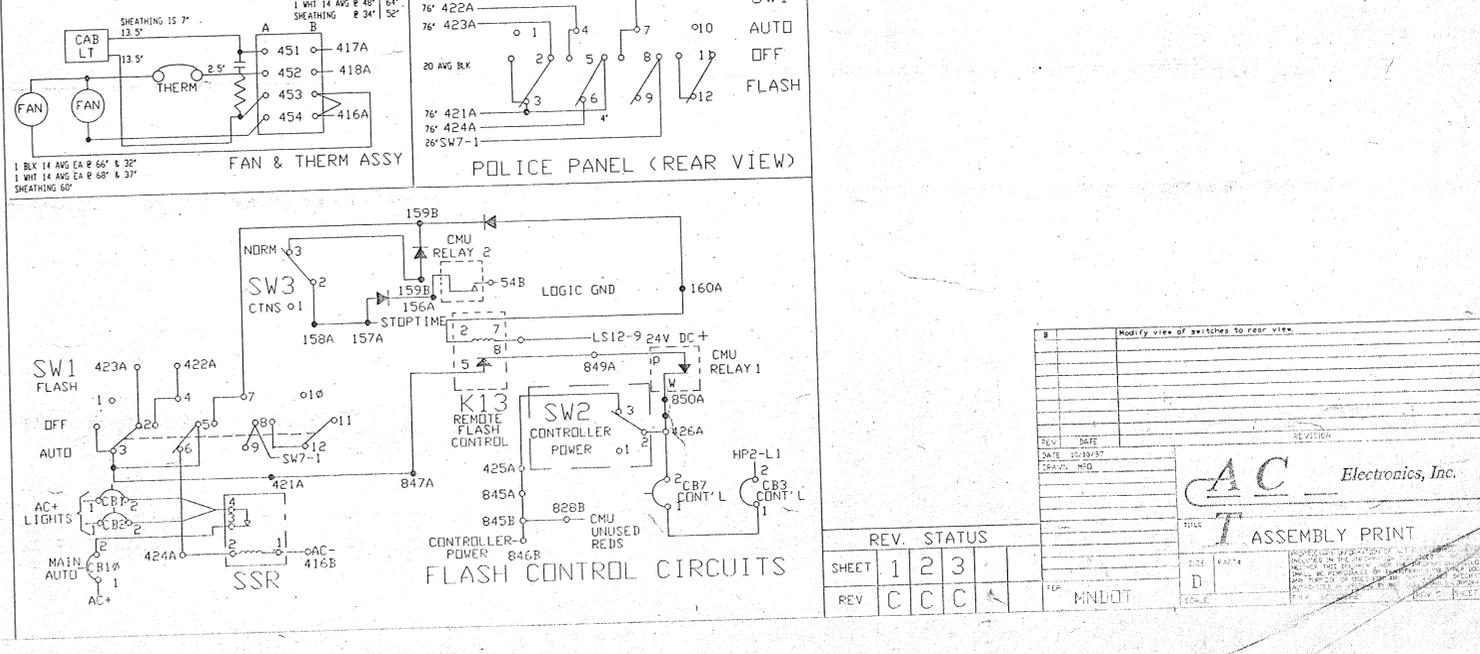
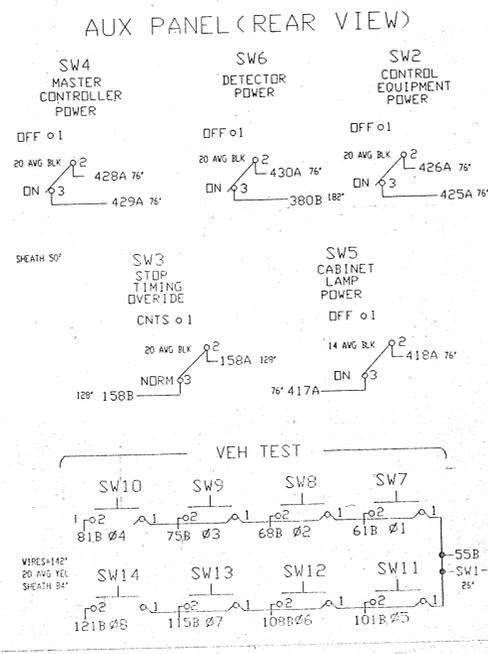


SHEATHING IS 70"

SHEATHING IS 73"

Qty	Description	Mfr. Pt. #	Manufacturer
1	block, 20 pt, closed back	73120	Vernitron
10	block, 20 pt, feedthrough	73620	Vernitron
8	block, 20 pt, feedthrough	73620-59	Vernitron
2	block, 6pt, closed back	73106	Vernitron
8	bolt, 10-32x5/16"	10-32x5/16 SS SPMS	Adams
38	bolt, 6-32x1/4"	6-32x1/4 SS SPMS	Adams
49	bolt, 8-32x1/2"	8-32x1/2 SS SPMS	Adams
4	bolt, 8-32x1/4"	8-32x1/4 SS SPMS	Adams
3	bus bar, 3.625"	34890	Weidmuller
1	bus bar, 6.25"	34890	Weidmuller
1	cable "A", blue, UL1015, 20AWG, 116"	CABLE A	TSC
1	cable "B", blue, UL1015, 20AWG, 116"	CABLE B	TSC
1	cable "C", blue, UL1015, 20AWG, 116"	CABLE C	TSC
1	cable "CM1", red, UL1015, 20AWG, 116"	CABLE CM1	TSC
1	cable "CM2", red, UL1015, 20AWG, 116"	CABLE CM2	TSC
23	clamp, small, 2810	136130	Weidmuller
25	contact, female, flash plug	02-09-1104D	Molex
80	contact, male, flash plug	02-09-2103	Molex
1	cover, lexan, 7.5" x 12"	LEXANLABBACK	Codillac
1	cover, lexan, 2.25" x 15"	LEXANLABFRNT	Codillac
1	cover, SENSIBLACK, 118" thick, 1.5" x 2.8125"	COVER, HDLE, FR5	Codillac
191	crimp, spade, 18-22 AWG	930655	AMP
20	diode, blocking	1M4005	Motorola
12	grommet, large	486000703B	Lifetime
17	grommet, small	486000547B	Lifetime
8	insulator, bus bar	93986	Weidmuller
105	juniper, between blocks	9620	Wrico
14	juniper, curved	7833	Vernitron
2	label, "High Voltage", small	PLD-67	Panduit
2	mounts, cable tie, small	TC5828	T&B
1	panel, loadboy	9601	Excel
1	panel, loadswitch support	9202	Excel
8	plug, flash, red	03-09-2154R	Molex
4	plug, flash, white	03-09-2154	Molex
4	plug, flash, yellow	03-09-2154	Molex
36	resistor, 2.5K, 7.5W min	20J2K5	SilkScreen
1	silkscreen load switch support	9601-S	SilkScreen
4	snubber	KE0472	Dkaya
8	socket, flash plug	03-09-1151	Molex
4	socket, flash relay	S3-5408-LAB	Vernitron
1	socket, flasher	S3-5406-LAB	Vernitron
14	socket, loadswitch	S3-5412-LAB	Vernitron
1	socket, octal, relay	SR2P-51	Vernitron
3	standoff, 1.25"	8433	Keystone
2	standoff, 1.625"	8436	Keystone
5	tag, cable	8409-0356	SFC Products
8	washer, #10, internal lock	#10 INT LOCK SS	Adams
38	washer, #6, internal lock	#6 INT LOCK SS	Adams
48	washer, #8, internal lock	#8 INT LOCK SS	Adams
5	wingnuts, 8-32, nylon	0600932WN	Adams

Qty	Description	Mfr. Pt. #	Manufacturer
2	block, 20 pt, closed back	73120	Vernitron
10	block, 20 pt, feedthrough	73620	Vernitron
8	block, 20 pt, feedthrough	73620-59	Vernitron
2	block, 6pt, closed back	73106	Vernitron
8	bolt, 10-32x5/16"	10-32x5/16 SS SPMS	Adams
38	bolt, 6-32x1/4"	6-32x1/4 SS SPMS	Adams
49	bolt, 8-32x1/2"	8-32x1/2 SS SPMS	Adams
4	bolt, 8-32x1/4"	8-32x1/4 SS SPMS	Adams
3	bus bar, 3.625"	34890	Weidmuller
1	bus bar, 6.25"	34890	Weidmuller
1	cable "A", blue, UL1015, 20AWG, 116"	CABLE A	TSC
1	cable "B", blue, UL1015, 20AWG, 116"	CABLE B	TSC
1	cable "C", blue, UL1015, 20AWG, 116"	CABLE C	TSC
1	cable "CM1", red, UL1015, 20AWG, 116"	CABLE CM1	TSC
1	cable "CM2", red, UL1015, 20AWG, 116"	CABLE CM2	TSC
23	clamp, small, 2810	136130	Weidmuller
25	contact, female, flash plug	02-09-1104D	Molex
80	contact, male, flash plug	02-09-2103	Molex
1	cover, lexan, 7.5" x 12"	LEXANLABBACK	Codillac
1	cover, lexan, 2.25" x 15"	LEXANLABFRNT	Codillac
1	cover, SENSIBLACK, 118" thick, 1.5" x 2.8125"	COVER, HDLE, FR5	Codillac
191	crimp, spade, 18-22 AWG	930655	AMP
20	diode, blocking	1M4005	Motorola
12	grommet, large	486000703B	Lifetime
17	grommet, small	486000547B	Lifetime
8	insulator, bus bar	93986	Weidmuller
105	juniper, between blocks	9620	Wrico
14	juniper, curved	7833	Vernitron
2	label, "High Voltage", small	PLD-67	Panduit
2	mounts, cable tie, small	TC5828	T&B
1	panel, loadboy	9601	Excel
1	panel, loadswitch support	9202	Excel
8	plug, flash, red	03-09-2154R	Molex
4	plug, flash, white	03-09-2154	Molex
4	plug, flash, yellow	03-09-2154	Molex
36	resistor, 2.5K, 7.5W min	20J2K5	SilkScreen
1	silkscreen load switch support	9601-S	SilkScreen
4	snubber	KE0472	Dkaya
8	socket, flash plug	03-09-1151	Molex
4	socket, flash relay	S3-5408-LAB	Vernitron
1	socket, flasher	S3-5406-LAB	Vernitron
14	socket, loadswitch	S3-5412-LAB	Vernitron
1	socket, octal, relay	SR2P-51	Vernitron
3	standoff, 1.25"	8433	Keystone
2	standoff, 1.625"	8436	Keystone
5	tag, cable	8409-0356	SFC Products
8	washer, #10, internal lock	#10 INT LOCK SS	Adams
38	washer, #6, internal lock	#6 INT LOCK SS	Adams
48	washer, #8, internal lock	#8 INT LOCK SS	Adams
5	wingnuts, 8-32, nylon	0600932WN	Adams



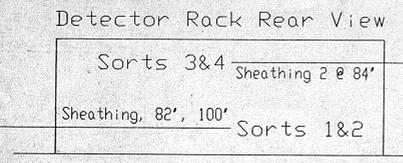
REV.	STATUS	
1	2	3
REV	C	C

AC Electronics, Inc.
ASSEMBLY PRINT
MNL/DLT

SA I/O Terminals				
Point	Wire Color	Description	Sort#	Length
1	White/Red	CH1 Delay Inhibit	2	120'
2	Red	CH2 Delay Inhibit	2	120'
3	Brown	CH1 Loop Input	3 or 4	96'
4	White/Brown	CH1 Loop Input	3 or 4	96'
5	White/Blue	CH1 Output (C)	2	120'
6	Blue	CH1 Output (E)	1	120'
7	Black/Red	CH2 Loop Input	3 or 4	96'
8	Black/White	CH2 Loop Input	3 or 4	96'
9	Orange	CH3 Loop Input	3 or 4	96'
10	White/Orange	CH3 Loop Input	3 or 4	96'
11	White/Grey	CH3 Output (C)	2	120'
12	Grey	CH3 Output (E)	2	120'
13	Yellow	CH4 Loop Input	3 or 4	96'
14	White/Yellow	CH4 Loop Input	3 or 4	96'
15	White/Violet	CH2 Output (C)	2	120'
16	Violet	CH2 Output (E)	2	120'
17	White/Green	CH4 Output (C)	2	120'
18	White/Black	CH4 Output (E)	2	120'

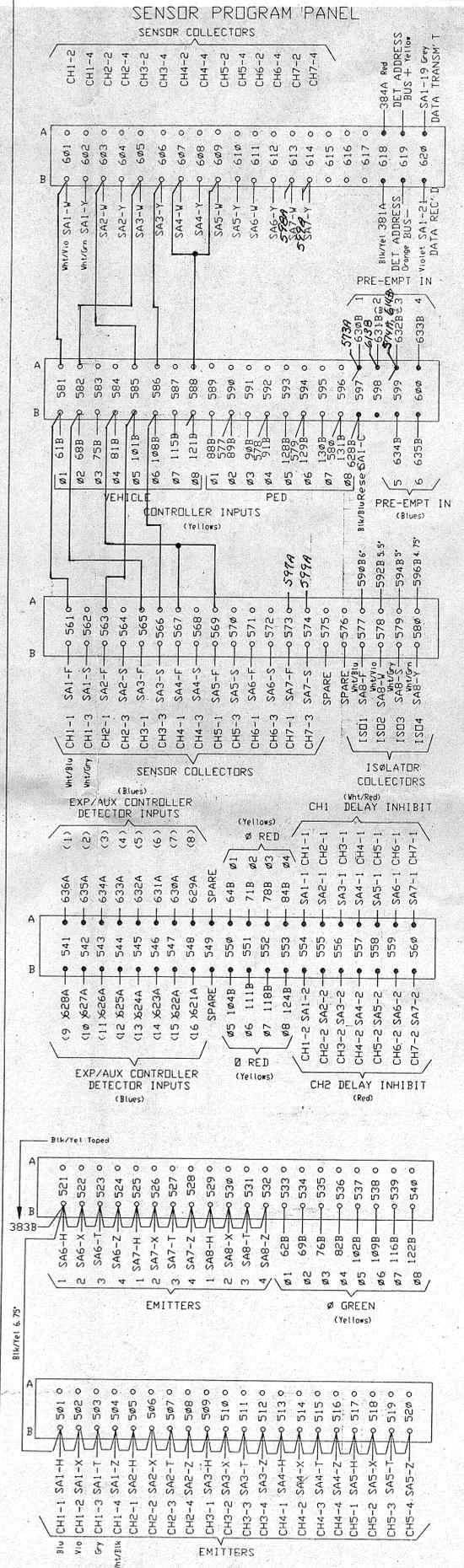
Main I/O Terminals				
Point	Wire Color	Description	Sort#	Length
1	Black/Yellow	Logic Ground	Even	96'
2	Red	24VDC+	Even	96'
3	Black/Blue	Reset	2	120'
4				
5	Orange	Address Bit 0	2	120'
6	Yellow	Address Bit 1	2	120'
7				
8	Grey	Data Transmit	2	120'
9				
10	Violet	Data Receive	2	120'
11				
12	Green	Chassis Ground	Even	96'
13	Black	AC+	Even	96'
14				
15	White	AC-	Even	96'

Add 20' Red, Blk/Yel, Blk/Yel (tape each end) run from sort 2 through sort 3 (even).
Do not use White/Red on SAB.

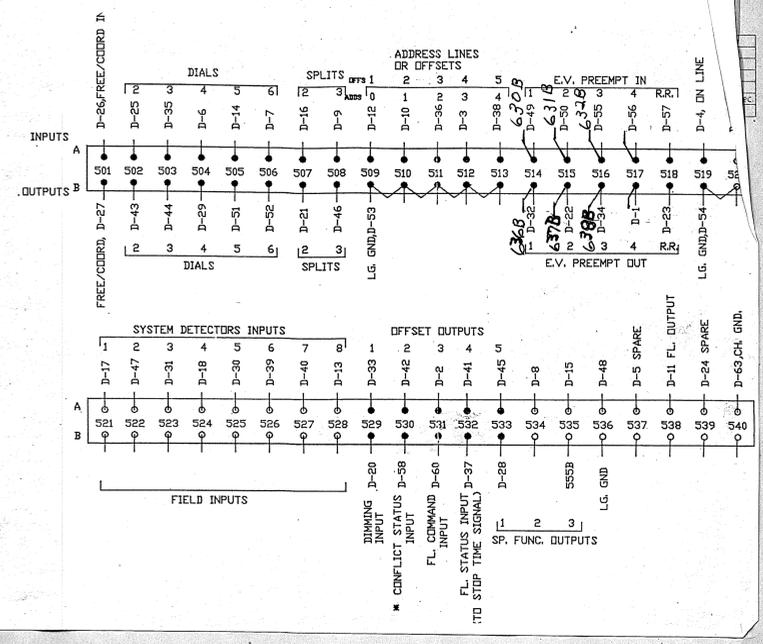


Sheathing	
Sort 1	82'
Sort 2	100'
Sort 3	84'
Sort 4	84'

DETECTOR RACK			
Qty	Description	Mfr. Pt. #	Manufacturer
18	bolt, 4-40x1/4", phillips	4-40x1/4 SS PH HD	Adams
18	washer, #4, internal lock	#4 INT LOCK SS	Adams
1	case	9411	Excel
1	circuit board	01R5SHHC	Actec
2	mounts, cable tie, small	TC5828	T&B
2	clamp, wire	754-20-2-10	Adel
2	bolt, 10-32x5/8"	10-32x5/8 SS SPMS	Adams
3	bolt, 10-32	10-32 NUT SS	Adams
15	connector, edge	29422-71ADDS	Viking
3	key, polarizing	091-0024-000	Lexmark
1	connector, 12 pt	32 012	Altech
1	connector, 3pt	32 003	Altech
8	connector, MK8/10 DG	30266	Weidmuller
16	connector, MK8/4 DG	30776	Weidmuller
1	labor, assy of PC board	ASSTPCBOARD	Production Tech
2	cover, lexon, 1/8", 1-3/16"x2"	LEXONET	Cadi Ilac
2	washer, #10, internal lock	#10 INT LOCK SS	Adams



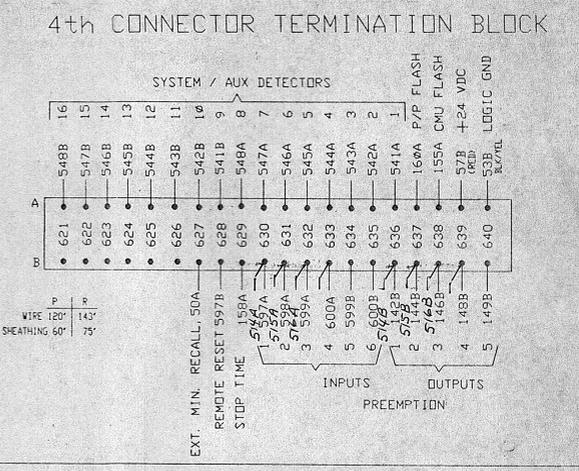
SPECIAL FUNCTION MODULE PIN ASSIGNMENT 'D' CABLE 28022900-004				
CONN. PIN	I/O	FUNCTION	TERM.	
1	0	EMERG. PR. 4 OUT	517B	
2	0	OFFSET 3 OUT	531A	
3	0	OFFSET 4 (ADD BIT 3)	518A	
4	0	ON LINE SPARE	519A	
5	0	SPARE	537A	
6	0	DIAL 4	804A	
7	0	DIAL 5	806A	
8	0	SPECIAL FUNCTION 2 OUT	534A	
9	0	SPECIAL FUNCTION 3 OUT	508A	
10	0	SPLIT 3	510A	
11	0	OFFSET 1 (ADD BIT 1)	510A	
12	0	FLASH OUT	509A	
13	0	SYSTEM DET. 8	528A	
14	0	DIAL 3	505A	
15	0	SPECIAL FUNCTION 3 OUT	535A	
16	0	SPLIT 2	507A	
17	0	SYSTEM DET. 1 (SEQ. #1)	521A	
18	0	SYSTEM DET. 4 (SEQ. #4)	524A	
19	0	SYSTEM ENABLE	520A	
20	0	DIMMING ENABLE	529B	
21	0	EMERG. PR. 2 OUT	515B	
22	0	RAILROAD PR. OUT	518B	
23	0	SPARE	539A	
24	0	DIAL 2 (SPECIAL FUNCTION 2)	501A	
25	0	DIAL 3 (SPECIAL FUNCTION 1)	501B	
26	0	FREE/COORD OUT	533B	
27	0	SPECIAL FUNCTION 1 OUT	504B	
28	0	DIAL 1 OUT	525A	
29	0	SYSTEM DET. 5	523A	
30	0	SYSTEM DET. 3 (SEQ. #3)	529A	
31	0	EMERG. PR. 1 OUT	516B	
32	0	OFFSET 1 OUT	529A	
33	0	EMERG. PR. 3 OUT	516B	
34	0	DIAL 2 (SPECIAL FUNCTION 3)	502A	
35	0	OFFSET 3 (ADD BIT 2)	511A	
36	0	FLASH STATUS	532B	
37	0	OFFSET 2 OUT	513A	
38	0	DIAL 2 OUT	520B	
39	0	DIAL 3 OUT	503B	
40	0	OFFSET 5 OUT	539A	
41	0	SPLIT 3 OUT	508B	
42	0	SYSTEM DET. 2 (SEQ. #2)	522A	
43	0	LOGIC GND.	536A	
44	0	EMERG. PREEMPT 1	534A	
45	0	EMERG. PREEMPT 2	515A	
46	0	DIAL 5 OUT	505B	
47	0	DIAL 6 OUT	506B	
48	0	LOGIC GND.	519B	
49	0	EMERG. PREEMPT 3	516A	
50	0	EMERG. PREEMPT 4	517A	
51	0	RAILROAD PREEMPT	518A	
52	0	CONFLICT STATUS	530B	
53	0	RESERVED	531B	
54	0	RESERVED	531B	
55	0	RESERVED	531B	
56	0	RESERVED	531B	
57	0	RESERVED	531B	
58	0	RESERVED	531B	
59	0	RESERVED	531B	
60	0	RESERVED	531B	
61	0	RESERVED	531B	
62	0	RESERVED	531B	
63	0	RESERVED	531B	
64	0	RESERVED	531B	
65	0	RESERVED	531B	
66	0	RESERVED	531B	
67	0	RESERVED	531B	
68	0	RESERVED	531B	
69	0	RESERVED	531B	
70	0	RESERVED	531B	
71	0	RESERVED	531B	
72	0	RESERVED	531B	
73	0	RESERVED	531B	
74	0	RESERVED	531B	
75	0	RESERVED	531B	
76	0	RESERVED	531B	
77	0	RESERVED	531B	
78	0	RESERVED	531B	
79	0	RESERVED	531B	
80	0	RESERVED	531B	
81	0	RESERVED	531B	
82	0	RESERVED	531B	
83	0	RESERVED	531B	
84	0	RESERVED	531B	
85	0	RESERVED	531B	
86	0	RESERVED	531B	
87	0	RESERVED	531B	
88	0	RESERVED	531B	
89	0	RESERVED	531B	
90	0	RESERVED	531B	
91	0	RESERVED	531B	
92	0	RESERVED	531B	
93	0	RESERVED	531B	
94	0	RESERVED	531B	
95	0	RESERVED	531B	
96	0	RESERVED	531B	
97	0	RESERVED	531B	
98	0	RESERVED	531B	
99	0	RESERVED	531B	
100	0	RESERVED	531B	



DETECTORS AND PPB ISOLATION

ALL SOCKETS ARE WIRED TO ACCEPT VEH DET. OR EVP DISCRIMINATOR PPB ISOLATOR		SA1	SA2	SA3	SA4	SA5	SA6	SA7	SA8	FUNCTIONS		
PIN	RACK	PHASE	FUNC	PHASE	FUNC	PHASE	FUNC	PHASE	FUNC			
1	A	DC GROUND	381B 4							NC	SPARE	A
2	B	24V DC+	384B 4							NC	SPARE	B
3	C	REMOTE RESET	597B 4							NC	SPARE	C
4	D-4	CH 1 LOOP	303A	345A	313A	355A	323A	365A	333A	301A	INPUT CH 1	D
5	E-5	CH 1 LOOP	304A	346A	314A	356A	324A	366A	334A	379B	INPUT COMMON	E
6	F	ADDRESS BI## 0	619B	SA1-15	SA2-10	SA3-15	SA4-15	SA5-10	SA6-15	NC		F
7	G	CH 1 OUTPUT (+)	561B	563B	565B	567B	569B	571B	573B	575B	OUTPUT CH 1 (+)	G
8	H	CH 1 OUTPUT (-)	501B	505B	509B	513B	517B	521B	525B	529B	OUTPUT CH 1 (-)	H
9	J-8	CH 2 LOOP	306A	348A	316A	358A	326A	368A	336A	302A	INPUT CH 2	J
10	K-9	CH 2 LOOP	307A	349A	317A	359A	327A	369A	337A	378B	INPUT COMMON	K
11	L	ADDRESS BI## 1	619A	SA1-6	SA3-6	SA4-6	SA4-10	SA5-15	SA7-6	NC		L
12	M	CHASSIS GROUND	340A 4								CHASSIS GROUND	M
13	N	AC-	SA2-M 4							378A	AC (NEUTRAL)	N
14	P-13	LOOP CH 3	308A	350A	318A	360A	328A	370A	338A	343A	INPUT CH 3	P
15	R-14	LOOP CH 3	309A	351A	319A	361A	329A	371A	339A	377B	INPUT COMMON	R
16	S	ADDRESS BI## 2	SA1-10	SA2-6	SA2-15	SA3-10	SA5-6	SA6-10	SA7-10	NC		S
17	T	CH 3 OUTPUT (+)	562B	564B	566B	568B	570B	572B	574B	579B	OUTPUT CH 3 (+)	T
18	U	CH 3 OUTPUT (-)	503B	507B	511B	515B	519B	523B	527B	531B	OUTPUT CH 3 (-)	U
19	V-17	CH 4 LOOP	311A	353A	321A	363A	331A	373A	341A	344A	INPUT CH 4	V
20	W-18	CH 4 LOOP	312A	354A	322A	364A	332A	374A	342A	377A	INPUT COMMON	W
21	X	DATA TRANSMIT	620A 4							NC		X
22	Y	DATA RECEIVE	620B 4							NC		Y
23	Z	CH 2 OUTPUT (+)	601B	603B	605B	607B	609B	611B	613B	578B	OUTPUT CH 2 (+)	Z
24	1	CH 2 OUTPUT (-)	502B	506B	510B	514B	518B	522B	526B	530B	OUTPUT CH 2 (-)	1
25	2	CH 4 OUTPUT (+)	602B	604B	606B	608B	610B	612B	614B	580B	OUTPUT CH 4 (+)	2
26	3	CH 4 OUTPUT (-)	504B	508B	512B	516B	520B	524B	528B	532B	OUTPUT CH 4 (-)	3
27	4	CH 1 GREEN	554A	555A	556A	557A	558A	559A	560A		SPARE	4
28	5	CH 2 GREEN	554B	555B	556B	557B	558B	559B	560B		SPARE	5

USE 754-20-2-10 CLAMPS



POWER SUPPLY			
Qty	Description	Mfr. Pt. #	
4	bolt, 4-40x1/2", phillips	4-40x1/2 SS PH HD	Adams
1	bolt, 6-32x3/4", phillips	6-32x3/4 Z F PH HD	Adams
4	bolt, 6-32x3/8", phillips	6-32x3/8 SS PH HD	Adams
4	bolt, 8-32x1/2", phillips	8-32x1/2 SS PH HD	Adams
1	connector	206705-1	Ampt
1	contact, male	66361-4	Ampt
3	cover, transistor	8905NB	Thermalloy
1	crimp, 18-22AWG, #6, ring	18-22-06X	Motex-ETC
1	fuse, 2 amp, slo-blo	313002	Littelfuse
1	fuseholder	342014A	Littelfuse
4	nut, 4-40	4-40 NUT SS	Adams
1	panel, base	9209A	Excel
1	panel, cover	9209B	Excel
1	power supply, 24VDC, 4.8	11024-4.8-512	IHD
4	rubber feet	321131	SPC Products
1	silkscreen base	9209A-S	SPC Products
4	washer, #4, internal lock	#4 INT LOCK SS	Adams
4	washer, #6, internal lock	#6 INT LOCK SS	Adams
4	washer, #8, internal lock	#8 INT LOCK SS	Adams

WIRE = 60' SHEATHING = 50'	
BLK	380A 1 AC+
WHT	379A 2 AC-NEUTRAL
GRN	372A 3 CH GND
RED	384A 7 DC+
BLK/YEL	381A 8 DC-

REV. STATUS

SHEET	1	2	3
REV	C	C	C

DATE: 10/16/97 DRAWN: MDDT

REVISION

AC Electronics, Inc.

ASSEMBLY PRINT