

Film-Tech

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SECTION 3

CABLE AND CONNECTOR DESCRIPTIONS

CONNECTOR, JM 4 (Processor Unit)

JM 4 (Pin #)	TO/FROM	FUNCTIONS AS
1	From JM3, pins 2 & 3	+24 V power
2	Blank	--
3	Blank	--
4	Blank	--
5	From JM2, pin 1	-15V power
6	Blank	--
7	To Cat. 150, pin 15	Cat. 150 Optical Surround logic line
8	To Cat. 150, pin 14	Cat. 150 Mono logic line
9	To JM3, pin 7	+15V power
10	Blank	--
11	From Cat. 150, pin E	Internal Cat. 150 control signal
12	From Cat. 150, pin F	Internal Cat. 150 control signal
13	To JM1, pins 6 & 9	Ground
14	Blank	--
15	From JM9, pin 17	Future 2 - control line #5
16	From Cat. 150, pin D	Internal Cat. 150 control signal
17	From JM8, pin 13	NR - control line #11
18	From Cat. 150, pin 4	Left optical output, 500 mV
19	From Cat. 150, pin 6	Right optical output, 500 mV
20	From JM9, pin 18	Future 1 - control line #7
21	To Cat. 150, pin 10	Left total input, 500 mV
22	To Cat. 150, pin L	Left total input, 300 mV
23	To Cat. 150, pin J	Right total input, 300 mV
24	To Cat. 150, pin 7	Right total input, 500 mV

CABLE/CONNECTOR DESCRIPTION

JM 5 (Processor Unit)	----- TO -----	JM 32 (Accessory Unit)
1	Dolby tone - control line #22	1
2	Re Dolby tone send	2
3	Le Dolby tone send	3
4	Le send	4
5	Re send	5
6	Projector 3/4 L opt. send	6
7	Projector 3/4 R opt. send	7
8	+24V (Non-switched)	8
9	+15V (Non-switched)	9
10	-15V (Non-switched)	10
11	NR (accessory) - control line #10	11
12	Mag stereo surround - control line #9	12
13	Fader "A" send	13
14	Le return	14
15	Re return	15
16	Surround send	16
17	Mag stereo surround Q send	17
18	Mag stereo surround P send	18
19	Blank	19
20	Blank	20

CABLE/CONNECTOR DESCRIPTION

JM 9 (Processor Unit)	----- TO -----	JM 22 (Control Unit)
1	Future 4 - control line #30	1
2	Blank	2
3	Future 5 - control line #8	3
4	Mag Stereo Surround - control line #9	4
5	Optical Split Surround - control line #3	5
6	Mag A - control line #6	6
7	Blank	7
8	Future 7 - control line #7	8
9	Future 6 - control line #27	9
10	Non-sync - control line #28	10
11	Spkr Reversal logic output (Cat. 213, pin 2, Acc. unit)	11
12	Future 3 - control line #25	12
13	Bass Extension - control line #1	13
14	Future 9 - control line #32	14
15	Future 8 - control line #31	15
16	Blank	16
17	Future 2 - control line #5	17
18	Future 1 - control line #7	18
19	Optical Surround - control line #13	19
20	Bypass output (Cat. 143, pin 2)	20

CONNECTOR, JM 10 (Processor Unit)

JM 10 (Pin #)	TO/FROM	FUNCTIONS AS
1	From Cat. 150, pin 6	Right Optical output, 500 mV
2	To Cat. 141 (SK16), pin B20	Right Optical input, 300 mV
3	To Cat. 141 (SK16), pin B1	Center Optical input, 300 mV
4	To Cat. 141 (SK18), pin B4	P Optical input (future), 300 mV
5	From Cat. 150, pin 4	Left Optical output, 500 mV
6	To Cat. 141 (SK16), pin A21	Left Optical input, 300 mV
7	From Cat. 150, pin 5	Center Optical output, 500 mV
8	From Cat. 150, pin 3	P Optical output (future)
9	From Special 1, pin 3	Re output, 300 mV
10	To Cat. 141 (SK16), pin A6	Re input, 300 mV
11	From JM9, pin 15	Future 8 - control line #31
12	From JM9, pin 14	Future 9 - control line #32
13	From Special 1, pin 2	Le output, 300 mV
14	To Cat. 141 (SK16), pin A2	Le input, 300 mV
15	From JM8, pin 20	Mono - control line #19
16	From JM9, pin 19	Optical Surround - control line #13
17	From Special 1, pin 4	Mag center output, 300 mV
18	To Cat. 141 (SK16), pin B2	Mag center input, 300 mV
19	From Special 1, pin 5	Mag Surround output, 300 mV
20	From Cat. 150, pin C	Q Optical output (future)
21	From Cat. 150, pin 1	Optical Surround output, 300 mV
22	To Cat. 141 (SK16), pin B5	Optical Surround input, 300 mV
23	To Cat. 141 (SK16), pin B6	Mag Surround input, 300 mV
24	To Cat. 141 (SK18), pin B8	Q Optical input (future), 300 mV

CABLE/CONNECTOR DESCRIPTION

JM 11 ----- TO ----- JM 21
(Processor Unit) (Control Unit)

1	Ground	1
2	Q	2
3	Blank	3
4	Blank	4
5	Blank	5
6	Blank	6
7	Blank	7
8	Blank	8
9	Blank	9
10	Blank	10
11	L	11
12	P	12
13	Re	13
14	R	14
15	Le	15
16	Blank	16
17	C	17
18	S	18
19	Blank	19
20	Blank	20

CONNECTOR, JM 23 (Control Unit)

JM 23
(Pin
#)

1	Ground
2	Blank
3	Blank
4	Future 7 - control line #4
5	+15V (Switched)
6	Blank
7	Blank
8	Future 2 - control line #5
9	Blank
10	Blank
11	Blank
12	Mag A - control line #6
13	Blank
14	Blank
15	Blank
16	Future 1 - control line #7
17	Future 10 - control line #12
18	Future 4 - control line #30
19	Valid buss - control line #26 (LED display flash)
20	Future 5 - control line #8
21	Future 11 - control line #29
22	Non-sync - control line #28
23	Future 6 - control line #27
24	Future 3 - control line #25

CABLE/CONNECTOR DESCRIPTION

JM 24 (Control Unit)	----- TO -----	JM 33 (Accessory Unit)
1	Ground	1
2	Q return (from Acc. unit or jumper)	2
3	P return (from Acc. unit or jumper)	3
4	Re return (from Acc. unit or jumper)	4
5	Le return (from Acc. unit or jumper)	5
6	S return (from Acc. unit or jumper)	6
7	Blank	7
8	Blank	8
9	Blank	9
10	Future 11 - control line #29	10
11	Optical Stereo Surround - control line #3	11
12	Future 9 - control line #32	12
13	Bass Extension - control line #1	13
14	Projector 4 control line	14
15	35mm Mag - control line #2	15
16	NR - control line #11	16
17	Speaker Reversal - control line #14	17
18	Blank	18
19	Q send (to Acc. unit or jumper)	19
20	P send (to Acc. unit or jumper)	20
21	Re send (to Acc. unit or jumper)	21
22	Le send (to Acc. unit or jumper)	22
23	S send (to Acc. unit or jumper)	23
24	Blank	24
25	Blank	25
26	Blank	26
27	Future 10 - control line #12	27
28	Optical Surround - control line #13	28
29	Future 8 - control line #31	29
30	Future 5 - control line #8	30
31	Projector 3 control line	31
32	Mag B - control line #23	32
33	Fader "A"	33
34	Speaker Reversal logic output (Cat. 213, pin 2, Acc. unit)	34

CONNECTOR, JM 25

JM 25
(Pin #)

1	Blank
2	Blank
3	Future 8 - control line #31
4	Optical Surround-control line #13
5	35mm Mag - control line #2
6	Future 12 - control line #16
7	Future 9 - control line #32
8	Mono - control line #19
9	NR - control line #11
10	Blank
11	Bass Extension - control line #1
12	Non-sync Mic - control line #18
13	Speaker Reverse - control line #14
14	Optical Stereo Surround - control line #3
15	Future 13 - control line #15
16	Non-sync 3 - control line #20
17	Mag Stereo Surround - control line #9
18	Filter bus - control line #17
19	Dolby tone - control line #22
20	Blank
21	NR (Accessory) - control line #10
22	Input Switch - control line #24
23	Mag B - control line #23
24	Non-sync 2 - control line #21

CABLE/CONNECTOR DESCRIPTION

JM 27 ----- TO ----- JM 13
(Control Unit) (Leverswitch Board)

1	Ground	1
2	+15V (Switched)	2
3	+15V (Non-switched)	3
4	Blank	4
5	Flasher	5
6	Valid bus - control line #26 (LED display flash)	6
7	Blank	7
8	Ext. lever switch input: 1's A	8
9	Ext. lever switch input: 1's B	9
10	Ext. lever switch input: 1's C	10
11	Ext. lever switch input: 1's D	11
12	To Format A lever switches	12
13	To Format C lever switches	13
14	Lever switch board output: 1's B	14
15	Lever switch board output: 1's D	15
16	Lever switch board output: 1's C	16
17	Lever switch board output: 10's B	17
18	Ground	18
19	+15V (Switched)	19
20	+15V (Non-switched)	20
21	Go bus	21
22	Blank	22
23	Blank	23
24	Blank	24
25	Ext. lever switch input: 10's A	25
26	Ext. lever switch input: 10's B	26
27	Ext. lever switch input: 10's C	27
28	Ext. lever switch input: 10's D	28
29	To Format B lever switches	29
30	To Format D lever switches	30
31	Lever switch board output: 1's A	31
32	Lever switch board output: 10's A	32
33	Lever switch board output: 10's D	33
34	Lever switch board output: 10's C	34

CABLE/CONNECTOR DESCRIPTION

JM 28 (Control Unit)	----- TO -----	JM 14 (Front Panel Board)
1	Ground	1
2	+15V (Switched)	2
3	+15V (Non-switched)	3
4	Blank	4
5	Blank	5
6	Blank	6
7	Blank	7
8	Blank	8
9	Special B (system status LED) logic input	9
10	Special A (system status LED) logic input	10
11	Optical Surround - control line #13	11
12	Non-sync - control line #28	12
13	Future 1 - control line #7	13
14	Mag A - control line #6	14
15	Bass Extension - control line #1	15
16	35mm Mag - control line #2	16
17	Optical Stereo Surround - control line #3	17
18	Ground	18
19	+15V (Switched)	19
20	+15V (Non-switched)	20
21	Blank	21
22	Blank	22
23	Blank	23
24	Blank	24
25	Blank	25
26	Non-sync Mic - control line #18	26
27	Mono - control line #19	27
28	Non-sync 3 - control line #20	28
29	Non-sync 2 - control line #21	29
30	Dolby tone - control line #22	30
31	Mag B - control line #23	31
32	Mag Stereo Surround - control line #9	32
33	NR - control line #11	33
34	Future 10/External - control line #12	34

CABLE/CONNECTOR DESCRIPTION

JM 29 (Control Unit)	----- TO -----	JM 15 (Front Panel Board)
1	Ground	1
2	+15V (Switched)	2
3	Format D pre-select switch	3
4	Format B pre-select switch	4
5	Blank	5
6	Output relay (RL21-22) control line	6
7	Projector 2 control line	7
8	+15V (pulsed) for projector relays (RL23-26)	8
9	Blank	9
10	Local fader	10
11	"Activate this fader" switch	11
12	"Local mute" switch	12
13	Projector 1 pre-select switch LED	13
14	Projector 2 pre-select switch LED	14
15	Projector 3 pre-select switch LED	15
16	Projector 4 pre-select switch LED	16
17	"System operation" switch	17
18	Ground	18
19	+15V (Switched)	19
20	Format C pre-select switch	20
21	Format A pre-select switch	21
22	Format A pre-select switch LED	22
23	Format B pre-select switch LED	23
24	Format C pre-select switch LED	24
25	Format D pre-select switch LED	25
26	Projector 4 pre-select switch	26
27	Projector 3 pre-select switch	27
28	Projector 2 pre-select switch	28
29	Projector 1 pre-select switch	29
30	Go bus	30
31	Fader common	31
32	"Local mute" switch LED	32
33	"Activate this fader" switch LED	33
34	Blank	34

CABLE/CONNECTOR DESCRIPTION

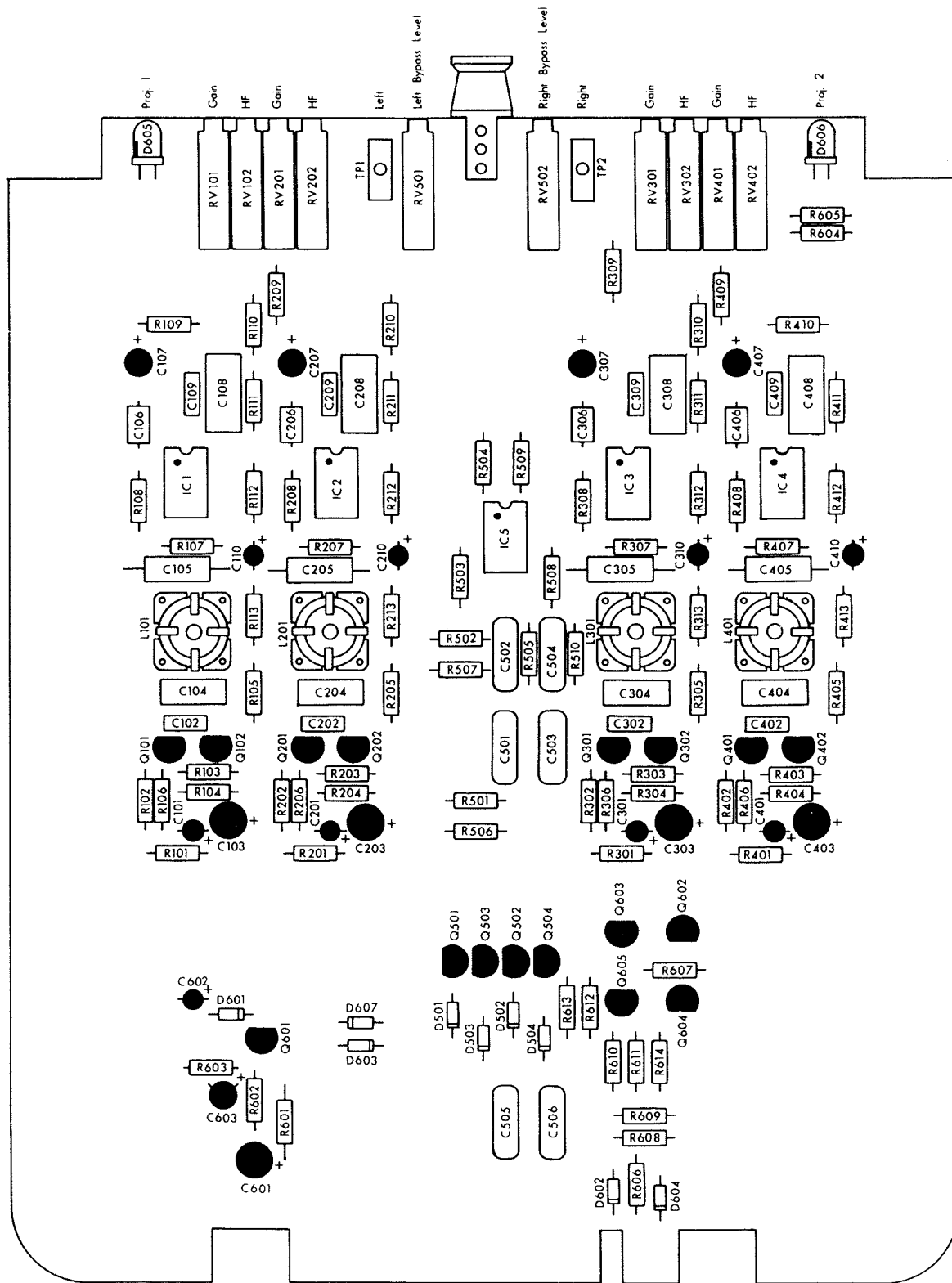
JM 30 (Processor Unit)	----- TO -----	JM 8 (Control Unit)
1	Fader "A" send	1
2	Relay RL1 control line	2
3	Blank	3
4	Blank	4
5	Filter bus - control line #17	5
6	Projector 3 control line	6
7	Projector 4 control line	7
8	Projector 2 control line	8
9	Non-sync Mic - control line #18	9
10	35mm Mag - control line #2	10
11	Mag Stereo Surround - control line #9	11
12	NR (accessory) - control line #10	12
13	NR - control line #11	13
14	Input Switch - control line #24	14
15	Mag B - control line #23	15
16	Dolby tone - control line #22	16
17	Non-sync 2 - control line #21	17
18	+15V (Non-switched)	18
19	Non-sync 3 - control line #20	19
20	Mono - control line #19	20

SECTION 4

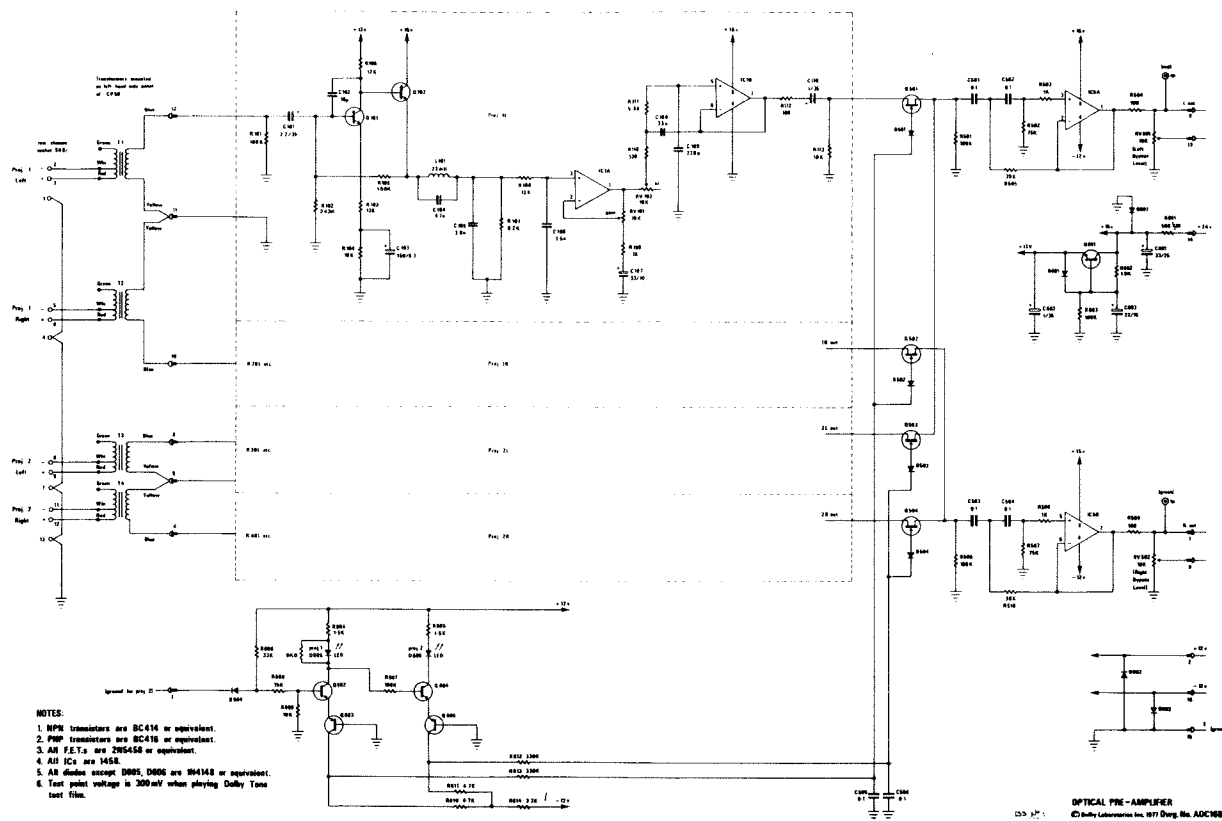
CIRCUIT DIAGRAMS

CIRCUIT DIAGRAMS

- 4.1 Cat. No. 108 Optical Preamplifier Card
- 4.3 Cat. No. 109C Meter/Filter Card
- 4.4 Cat. No. 143 Non-sync Card
- 4.5 Cat. No. 201 Magnetic Input Card
- 4.6 Cat. No. 141A Electronic Switch Card
- 4.7 Cat. No. 146 Decoder Section of Cat. No. 150
- 4.8 Cat. No. 116B Delay Line Section of Cat. No. 150
- 4.9 Cat. No. 142 Equalizer/Filter Card
- 4.10 Cat. No. 160 Bass Extension Card
- 4.11 Cat. No. 64 Equalizer Module
- 4.12 Cat. No. 137 Output Amplifier Card
- 4.13 Cat. No. 117 Remote Fader Card
- 4.14 Cat. No. 156 Projector/Format Logic Card
- 4.15 Cat. No. 157 Fader/Mute Logic Card
- 4.16 Cat. No. 153 Format Decoder Logic Card
- 4.17 Cat. No. 154 Bus Driver Logic Card
- 4.18 Cat. No. 158 Magnetic Stereo Surround Card
- 4.19 Cat. No. 213 Switch Card
- 4.20 Cat. No. 216 3-Band Surround Equalizer Card
- 4.21 Cat. No. 85C Pink Noise Generator Card
- 4.22 Cat. No. 202 Remote Control Unit
- 4.23 Cat. No. 204 Remote Control Unit with Format Control and Fader
- 4.24 PS1 Circuit Diagram
- 4.25 Lever Switch Board
- 4.26 Front Panel Board
- 4.27 Emergency Projector Control/Power Distribution
- 4.28 CP200 Control and Audio Diagram
- 4.29 CP200 Logic Block Diagram

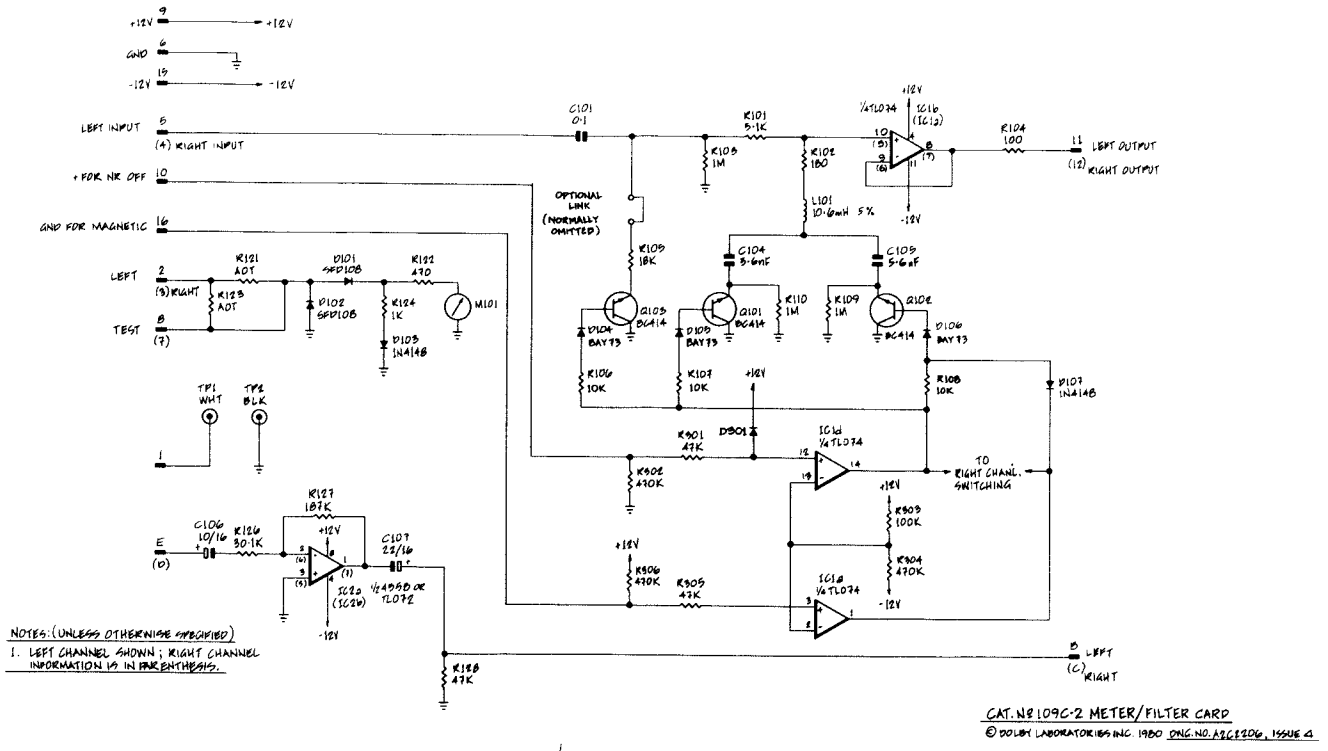


T
A
1
TOPSIDE CONTACTS T
BOTTOMSIDE CONTACTS 16



S83/228/5127

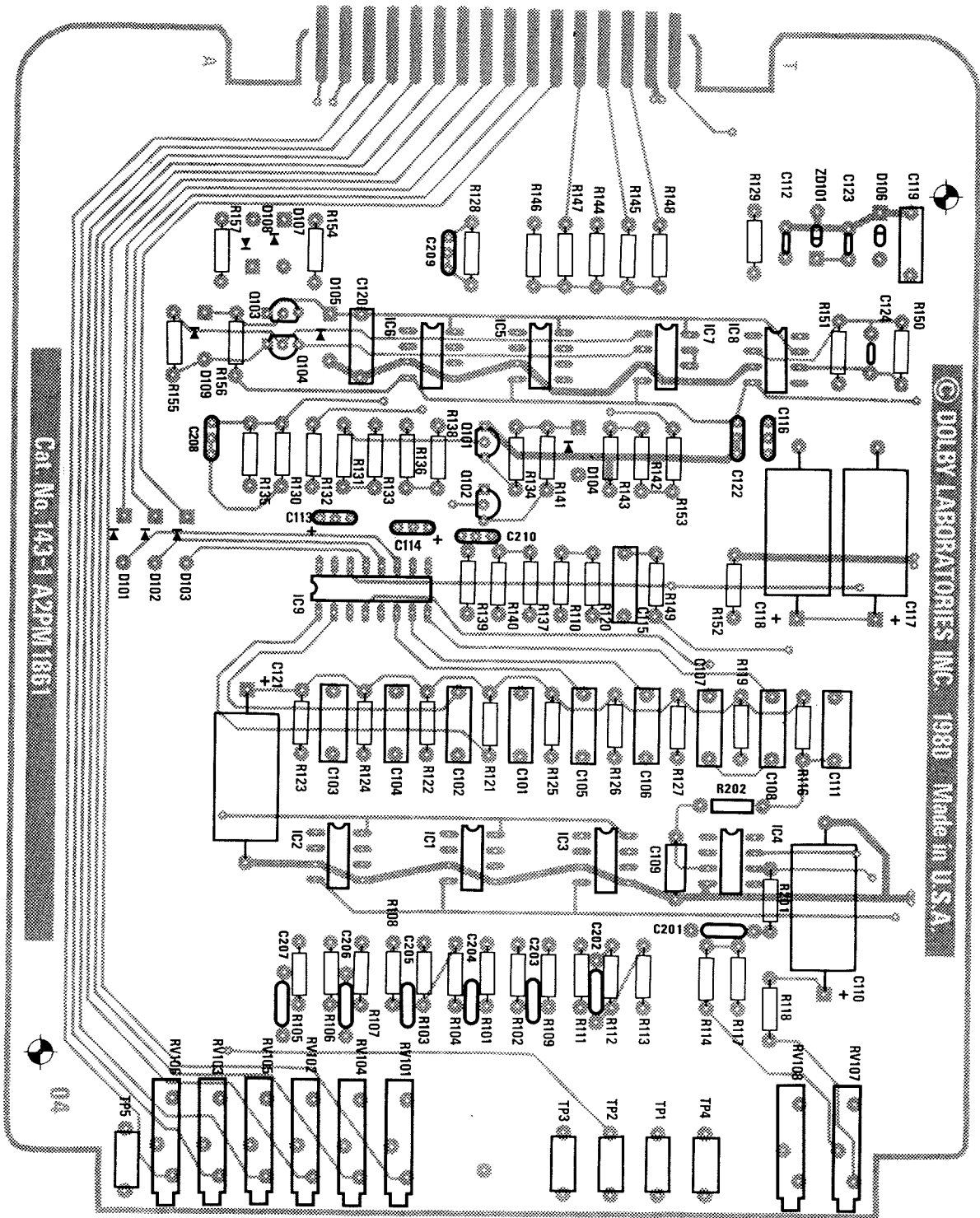
Figure 4.1 Cat. No. 108 Optical Pre-amplifier Card



S83/3481/5129

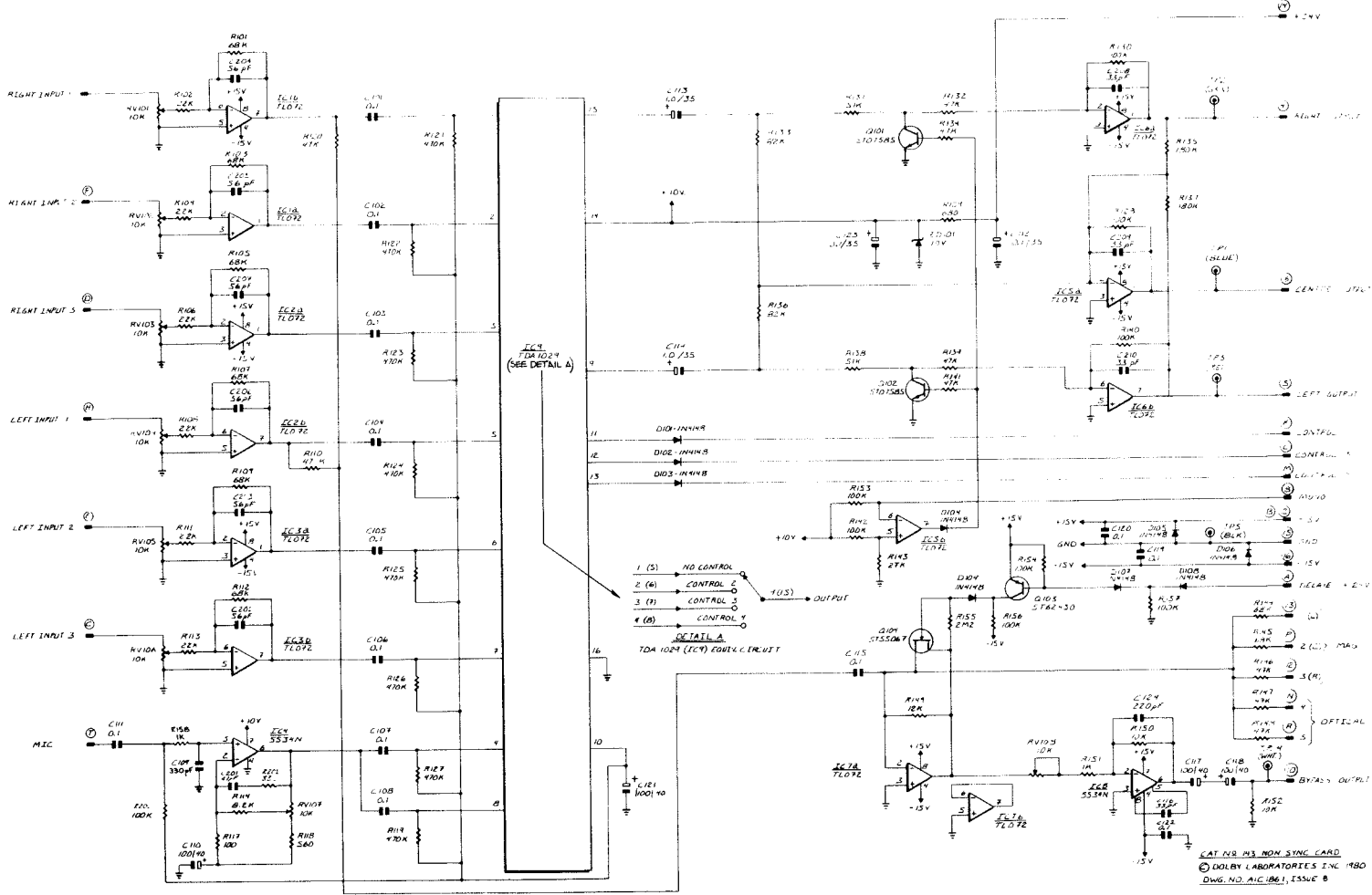
Figure 4.3 Cat. No. 109C Meter/Filter Card

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Cat. No. 143-1-A2PW/1851

04

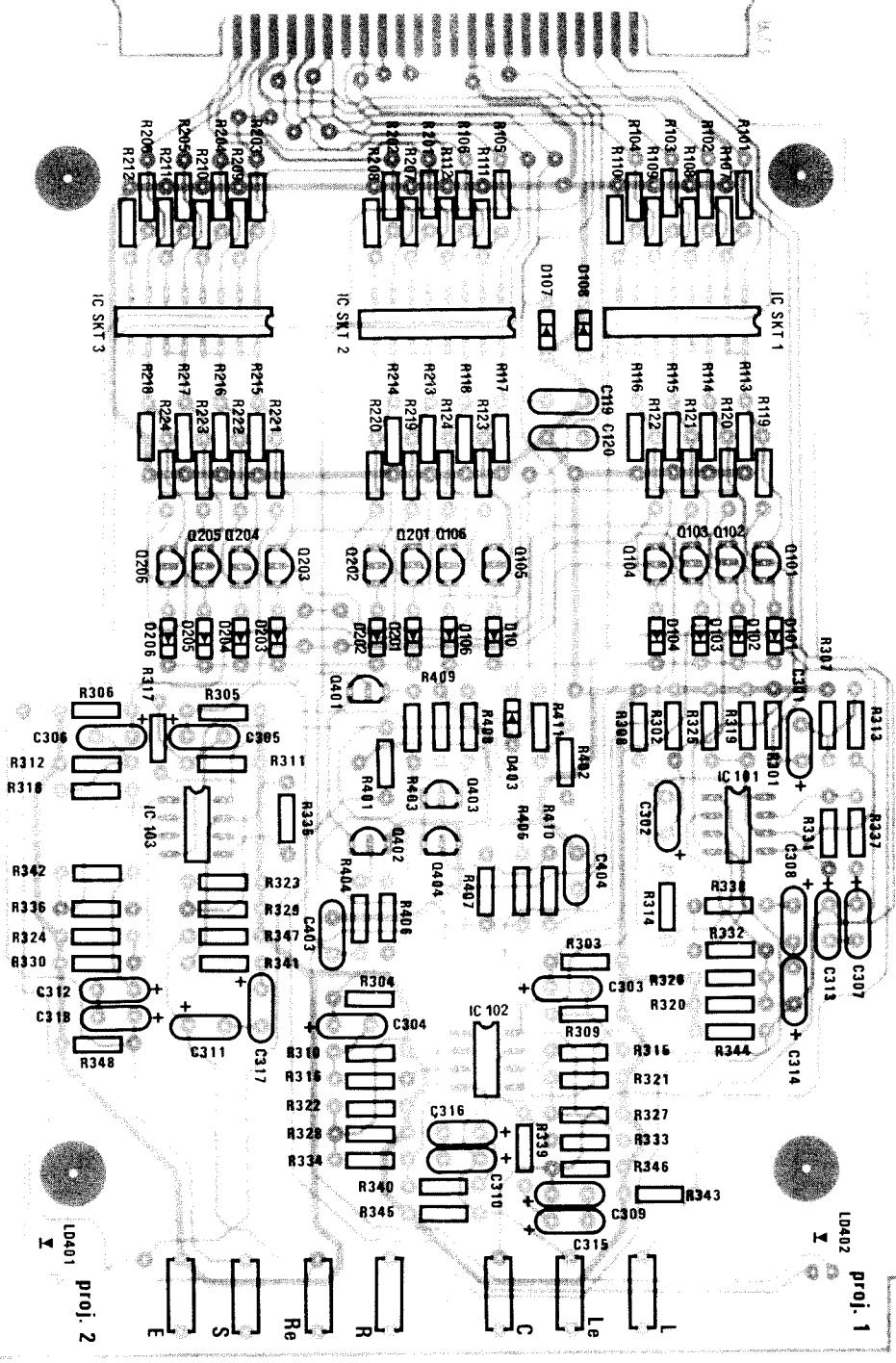


S83/3482/5130

Figure 4.4 Cat. No. 143 Non-sync Card

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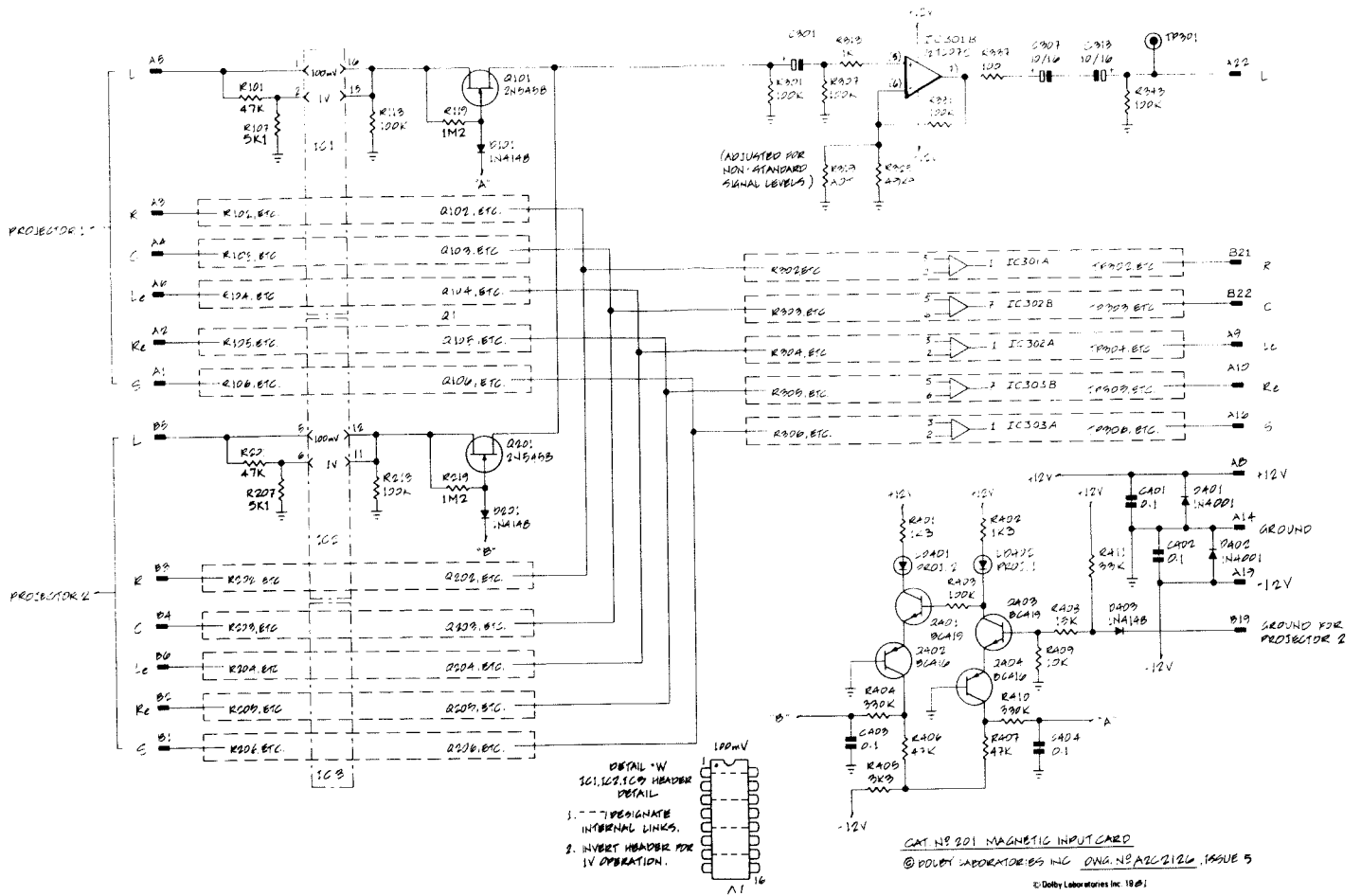


prof. 1

prof. 2

prof. 1

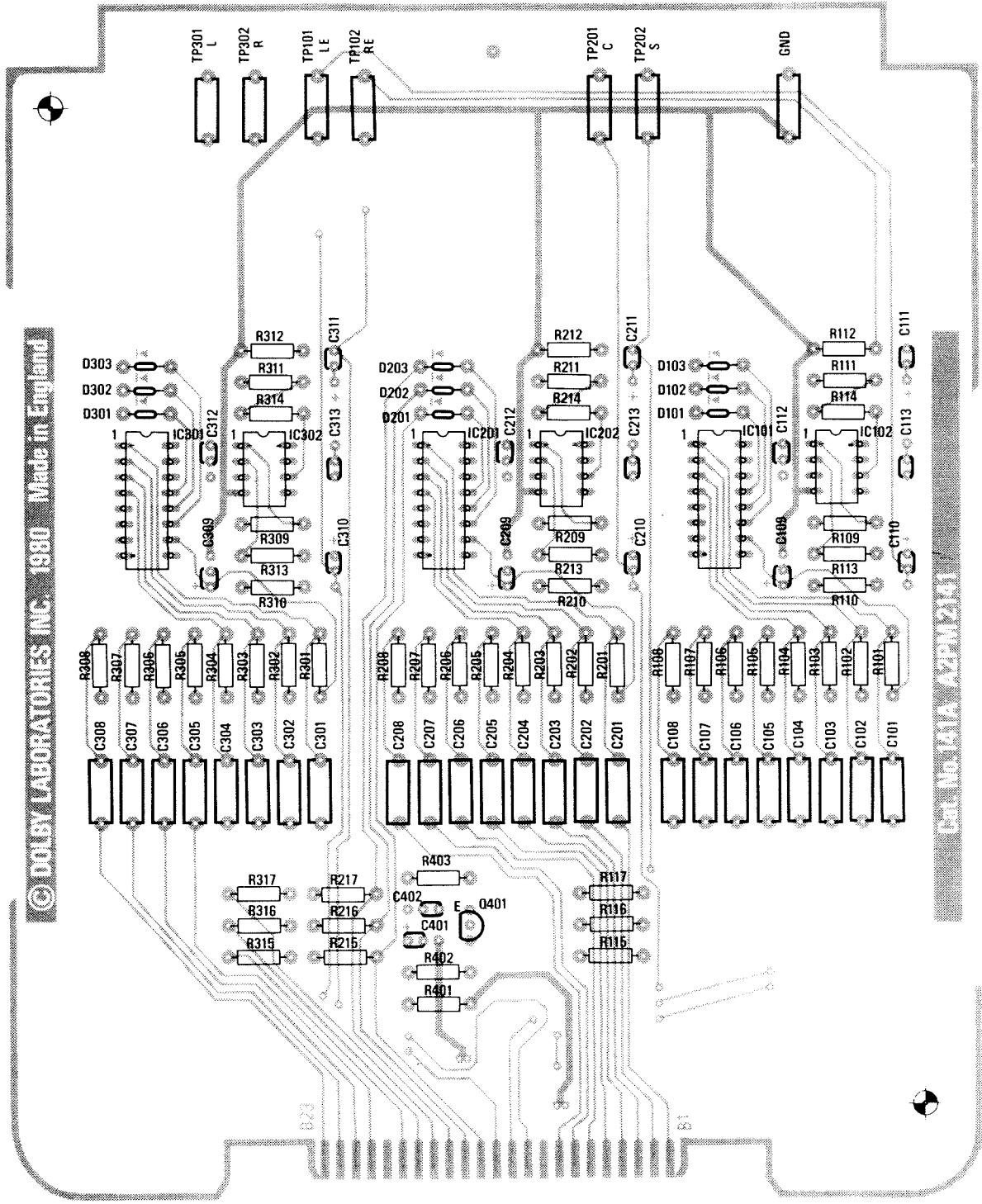
prof. 2



S83/3483/5131

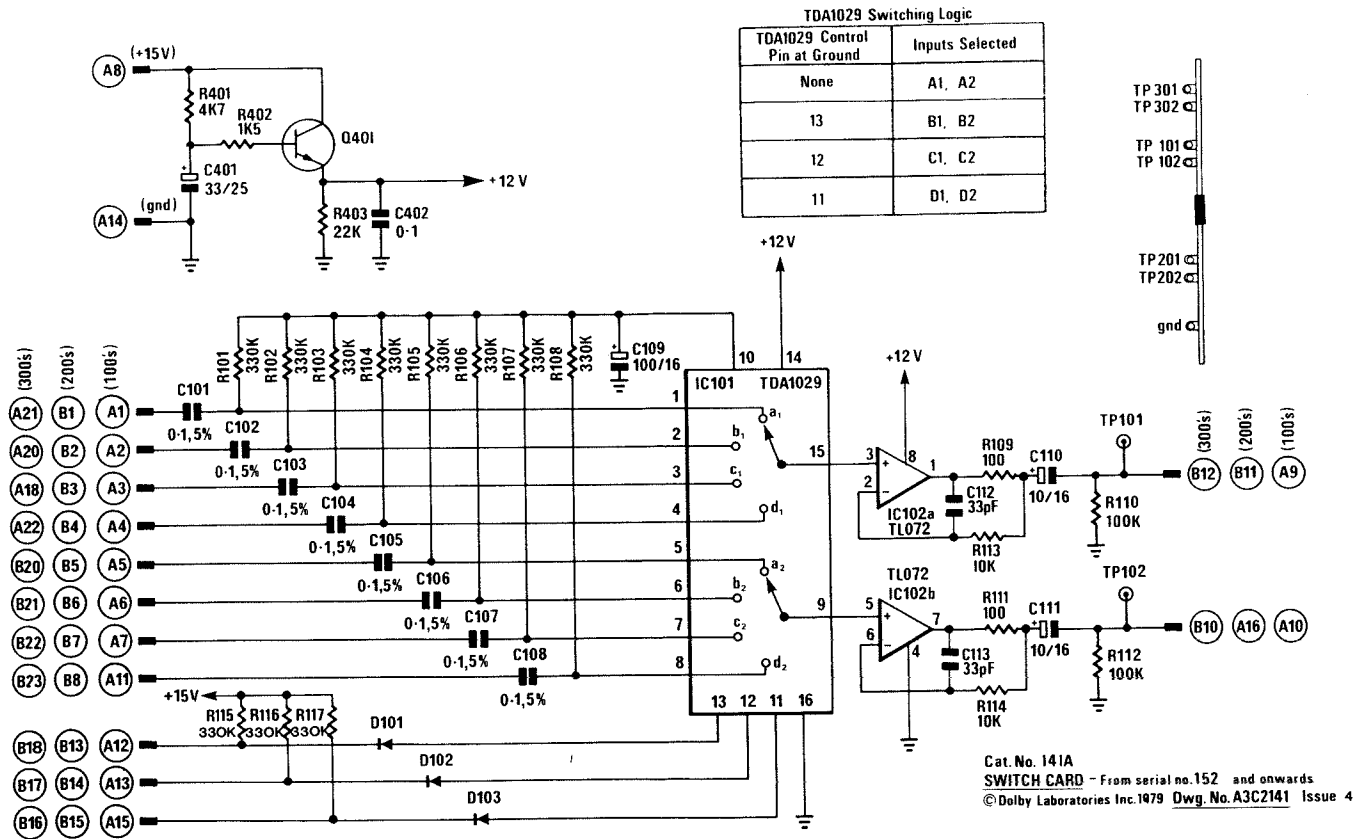
Figure 4.5 Cat. No. 201 Magnetic Input Card

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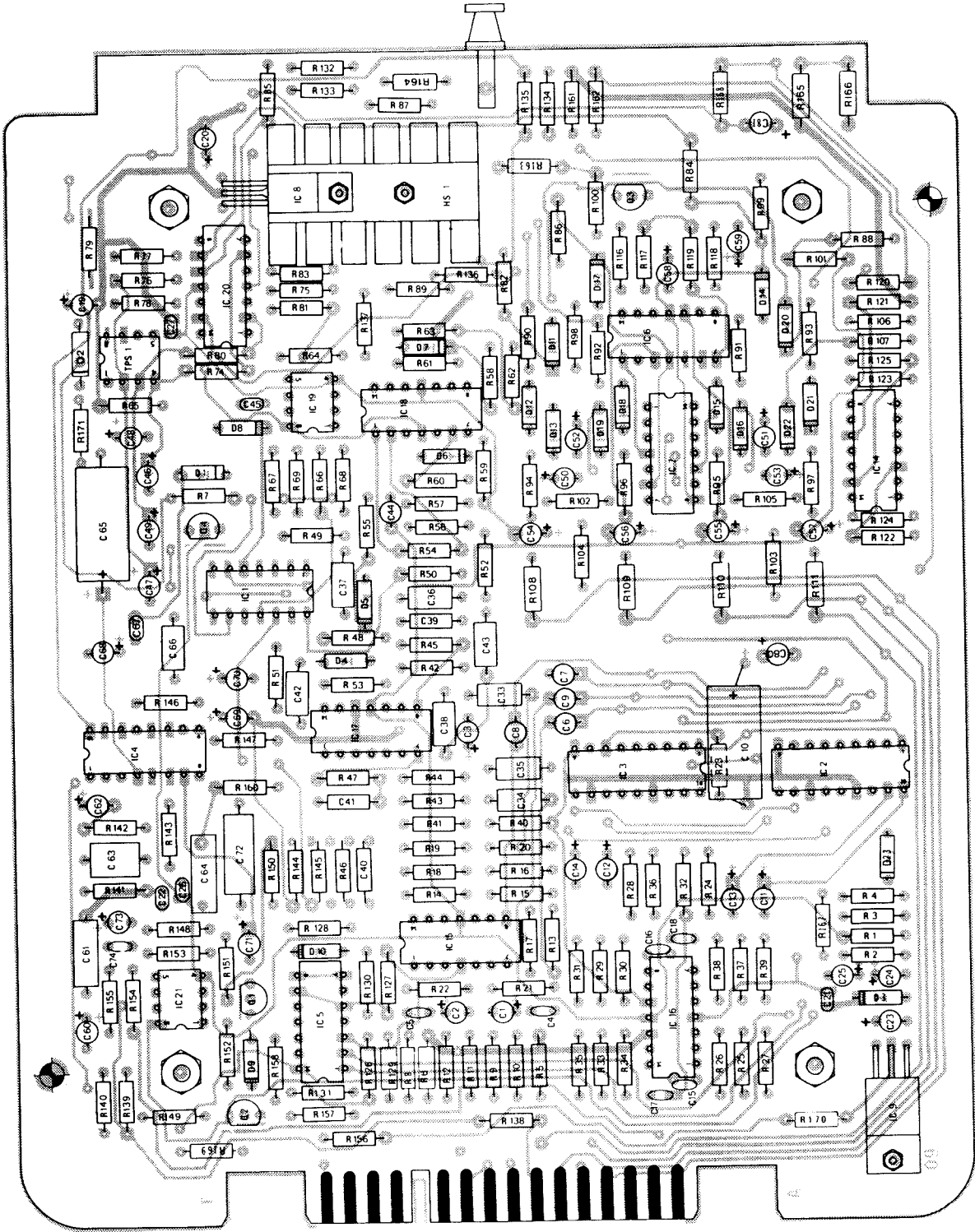
Doc. No. 141A, 12PM, 2/80

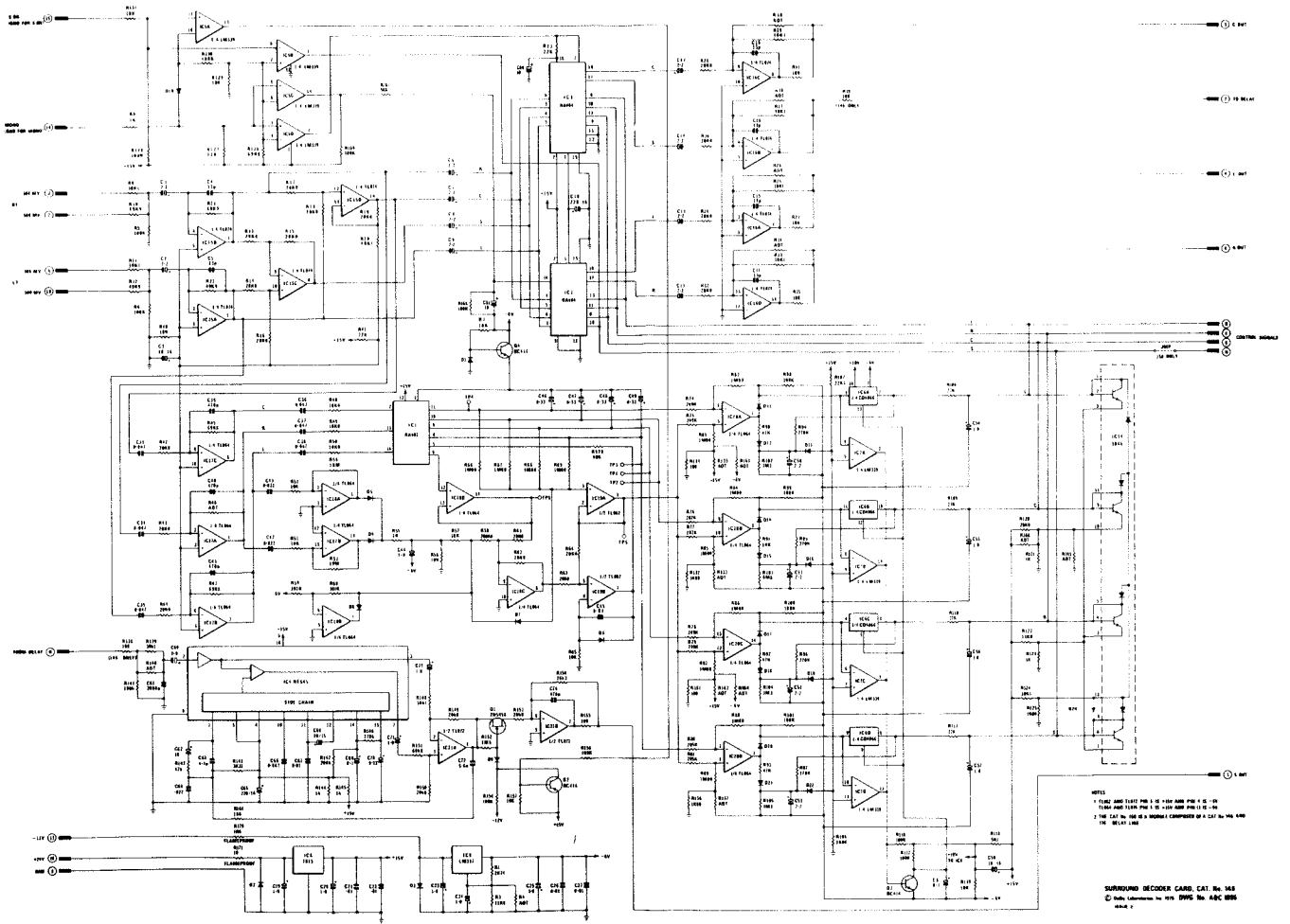
NOTE: Each Switch Card has six channels, only two of which are shown below. Other four channels comprise IC 201, 202, 301, 302



S83/3484/5132

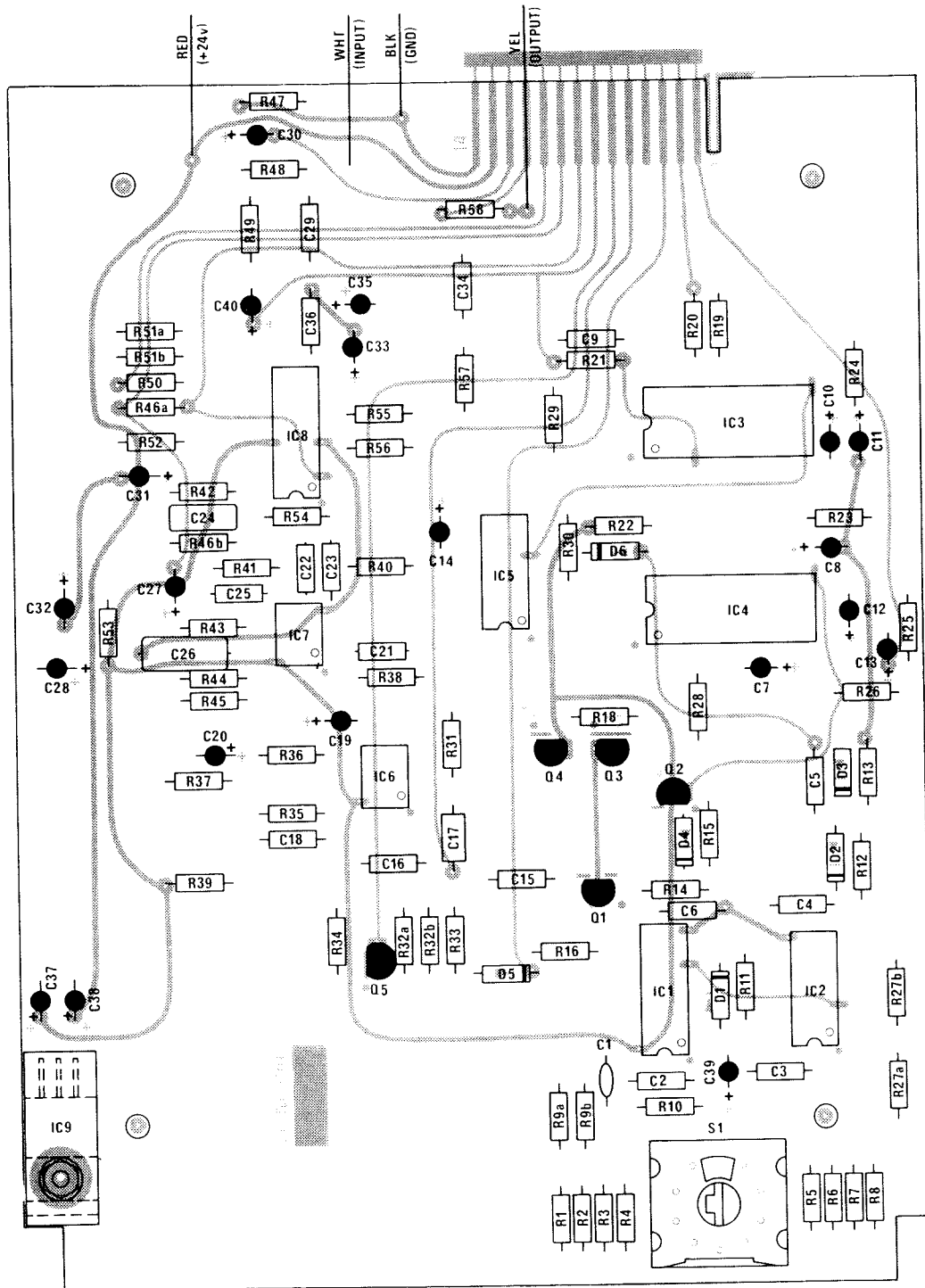
Figure 4.6 Cat. No. 141A Electronic Switch Card

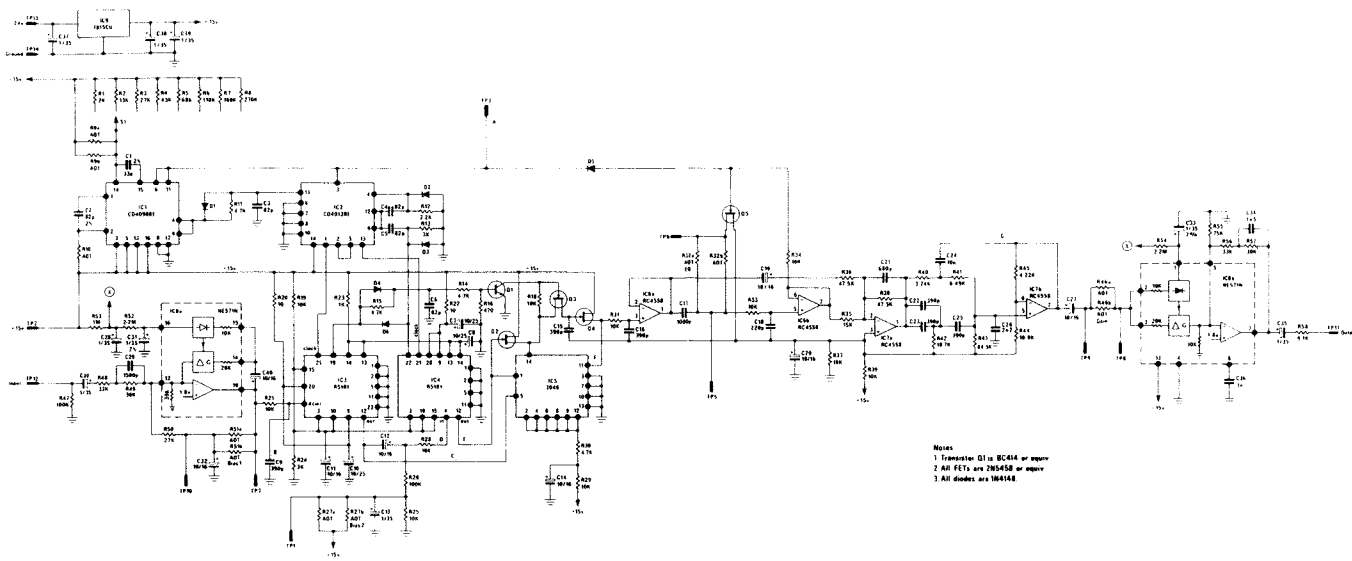




S83/3485/5133

Figure 4.7 Cat. No. 146 Decoder Section of Cat. No. 150

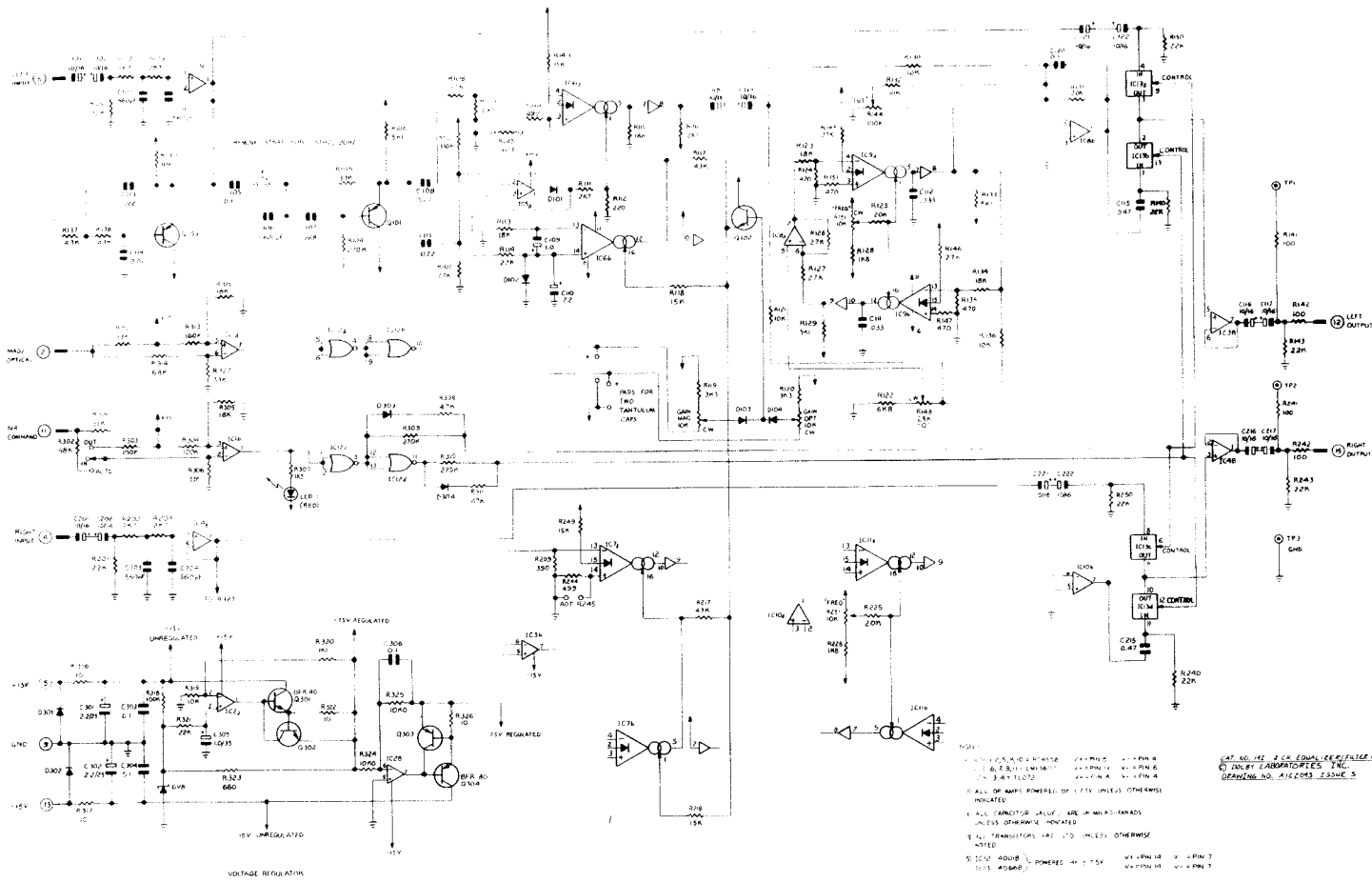




DELAY LINE CARD (2) Rev. 1-1968 - 10110g No. ABC178
Issue 1

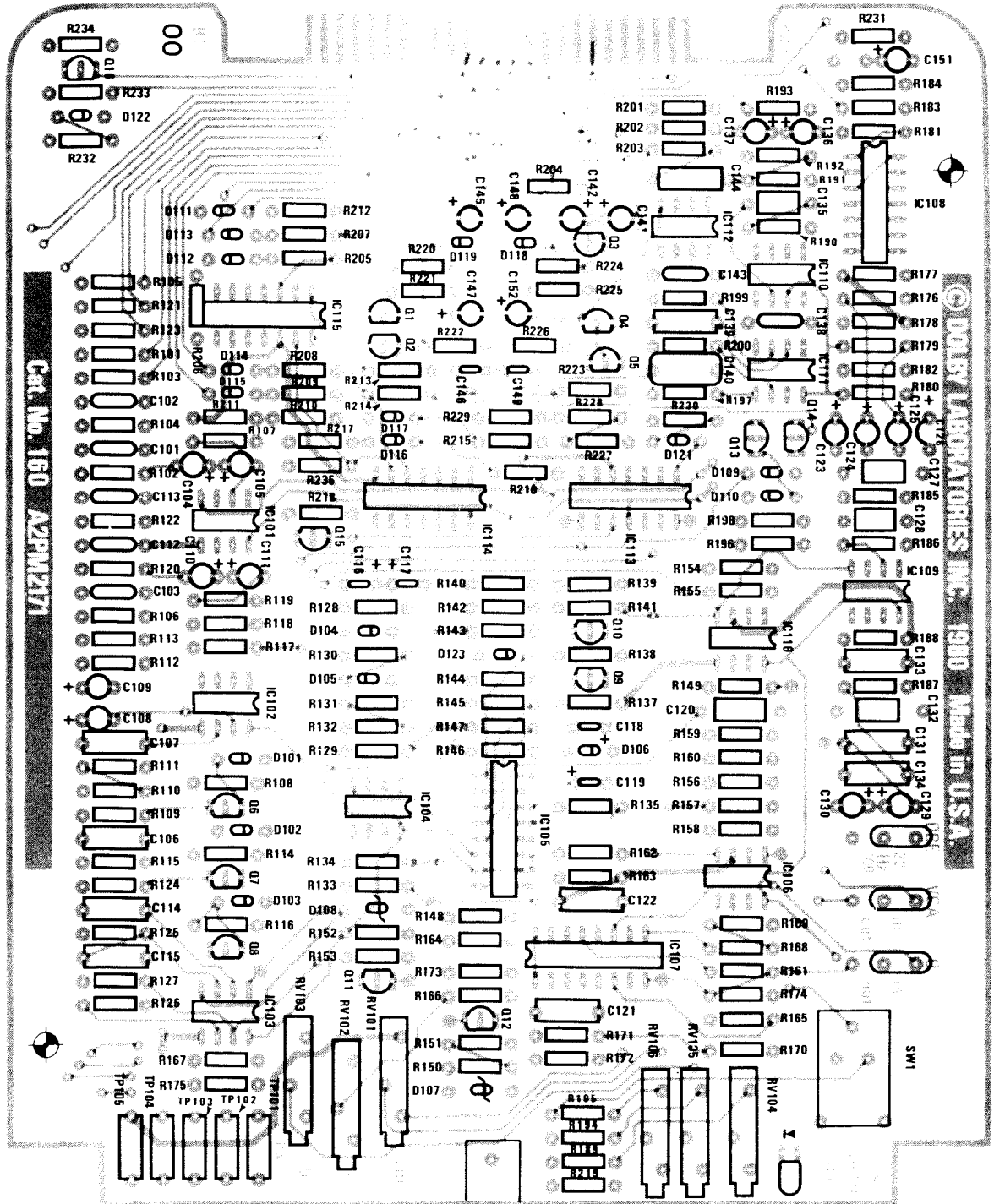
S83/3486/5134

Figure 4.8 Cat. No. 116B Delay Line Section of Cat. No. 150



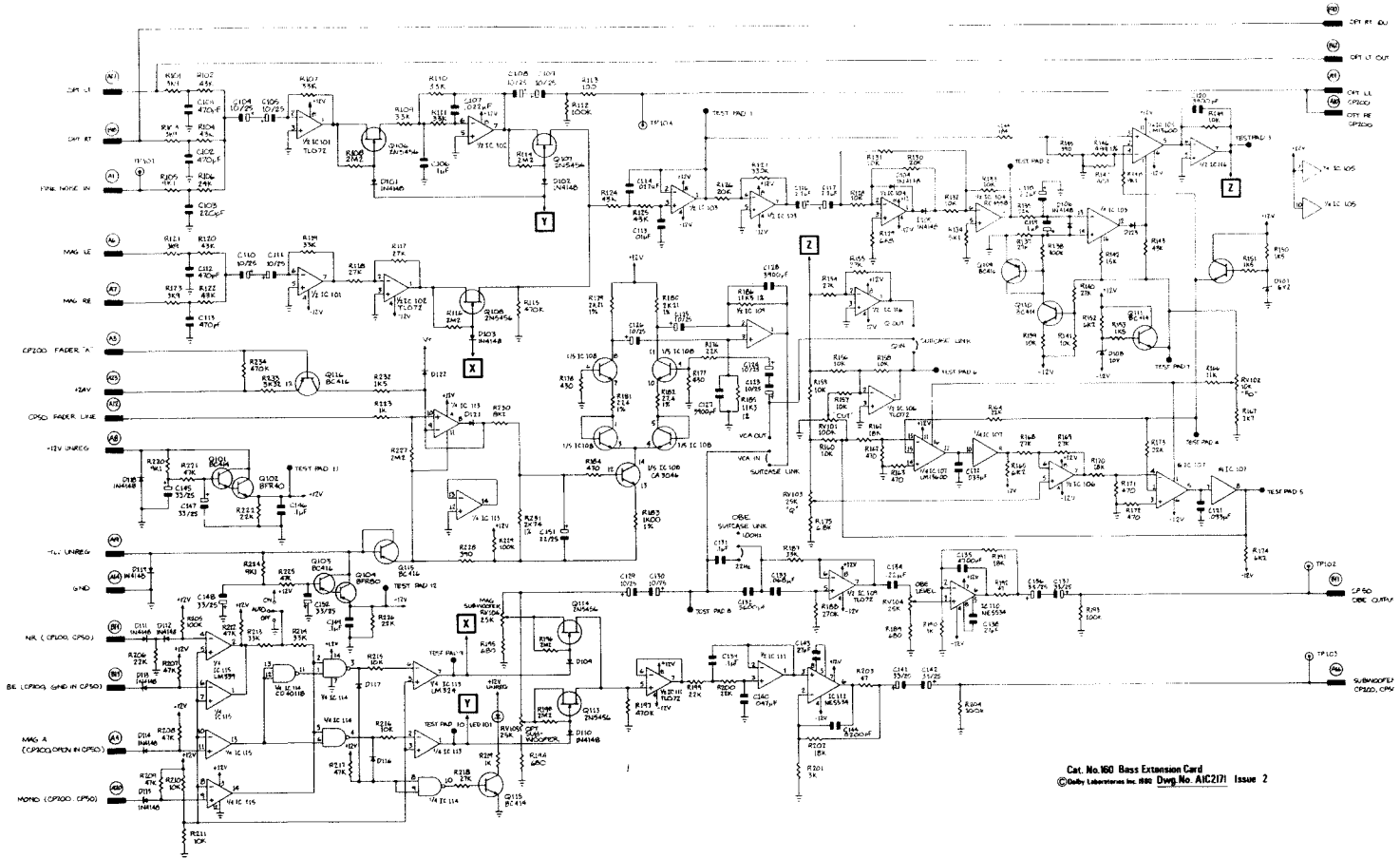
S83/3487/5135

Figure 4.9 Cat. No. 142 Equalizer/Filter Card



Cat. No. 160 ZPMZAT1

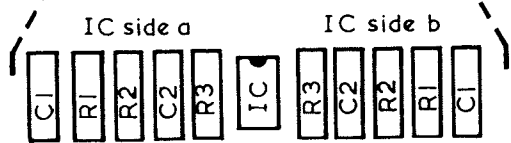
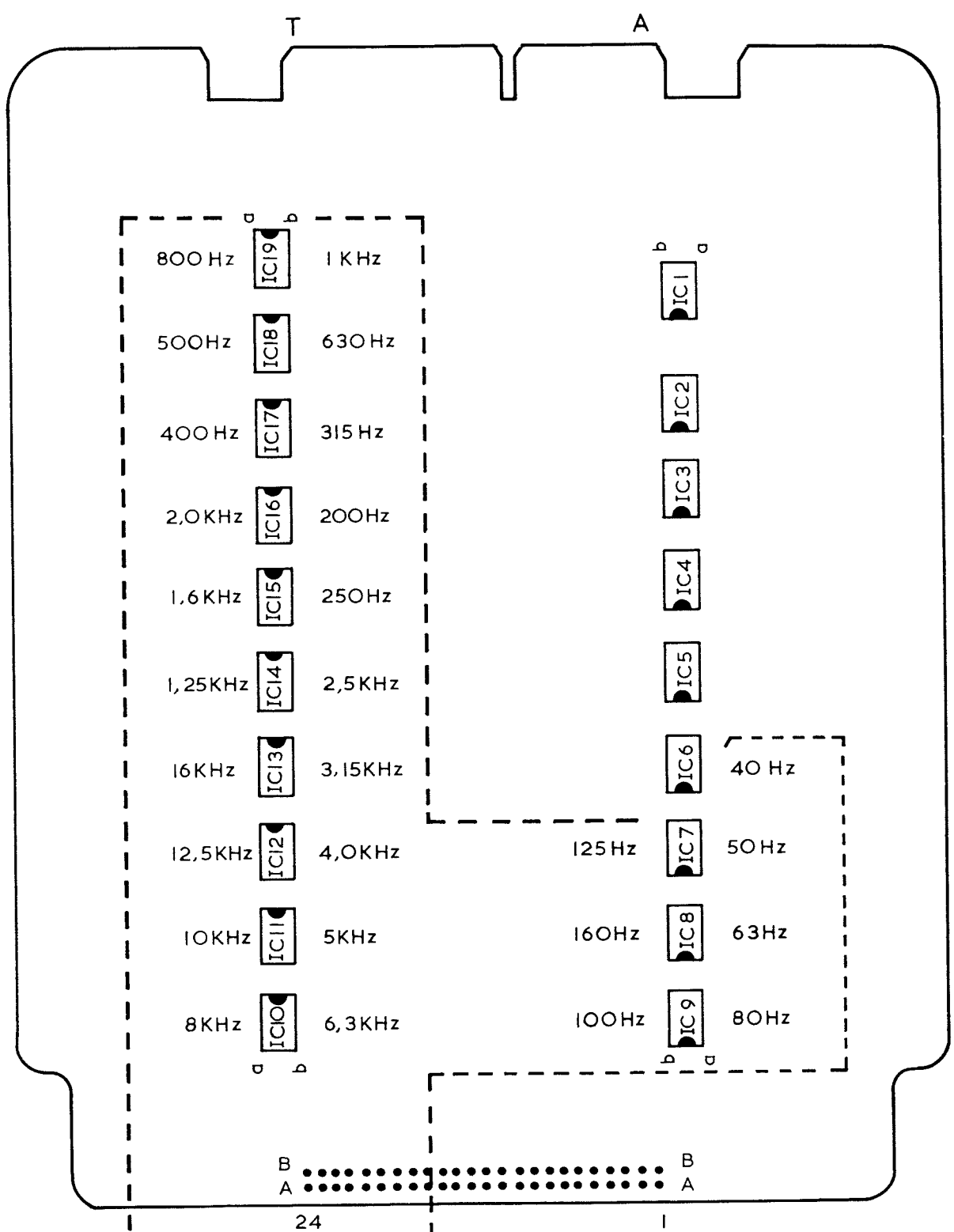
DETAILED ELECTRONICS INC. 980 Made in USA



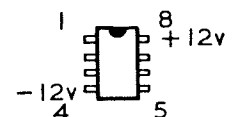
Cat. No. 160 Bass Extension Card
 ©Quality Laboratories Inc. 888 Durg No. AIC2171 Issue 2

S83/3488/5136

Figure 4.10 Cat. No. 160 Bass Extension Card

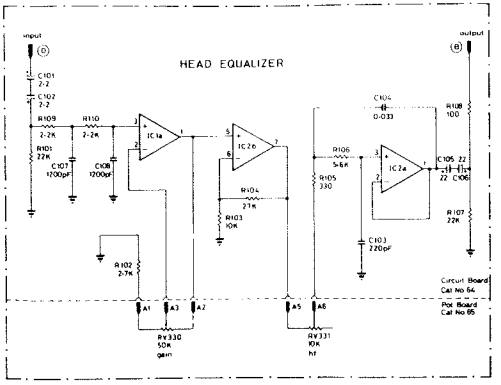


Filter circuit component layout



IC pin numbers

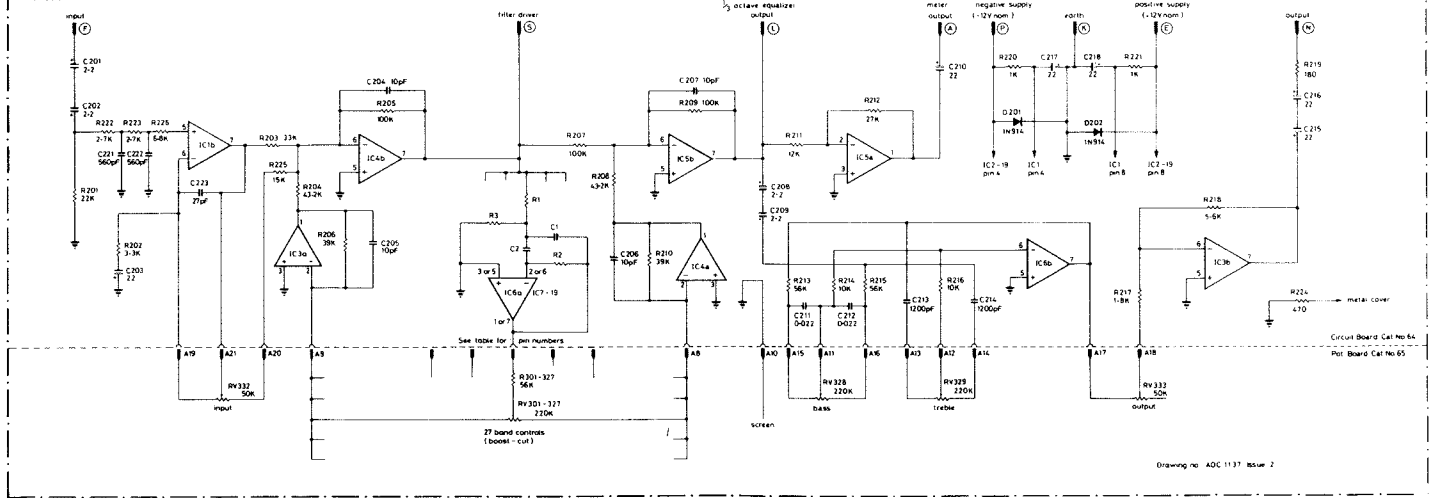
Cat.No.64 Simplified component layout



FILTER DATA

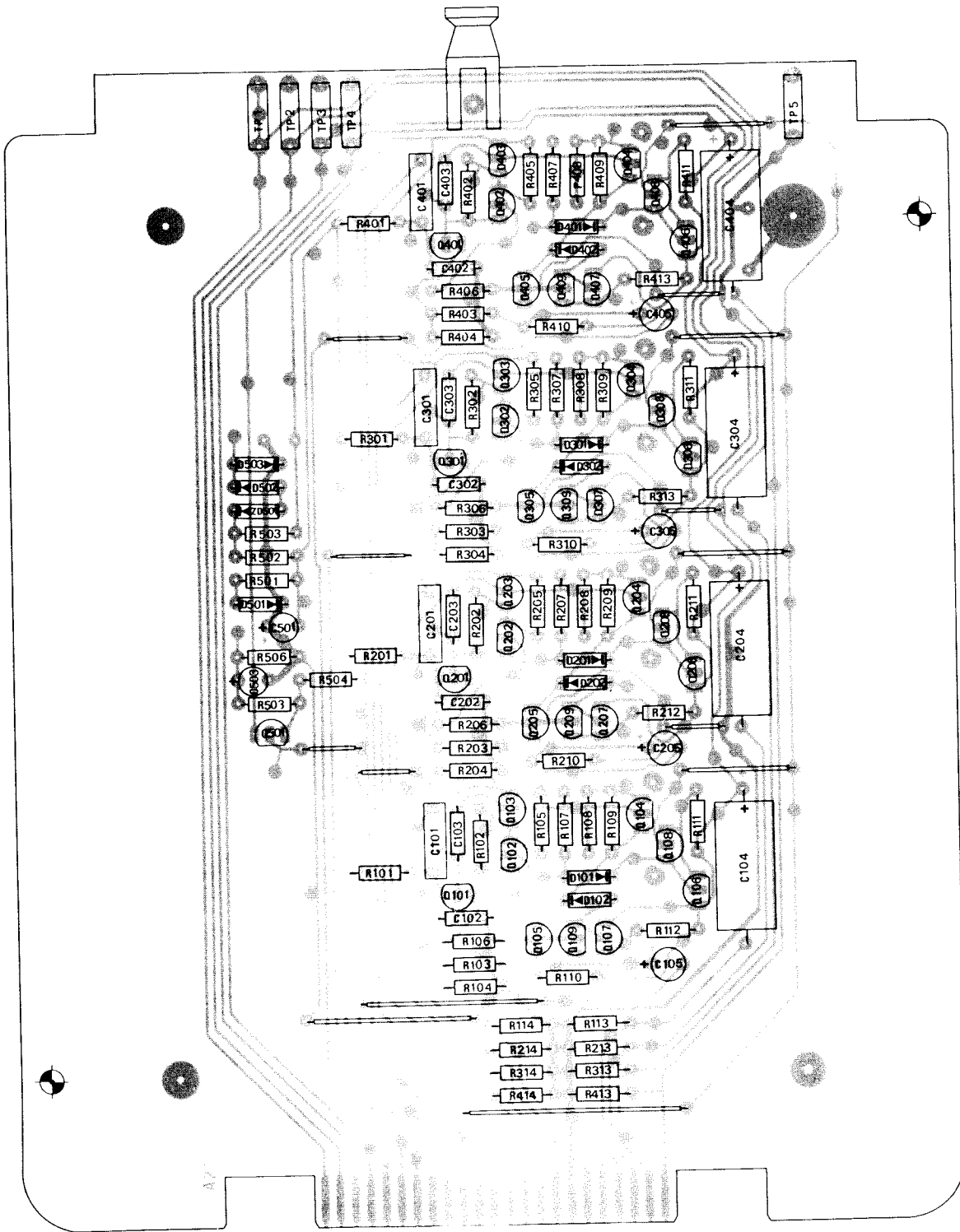
Frequency Hz	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k	
R1	90.9k	115k	146k	185k	235k	297k	375k	474k	600k	761k	970k	124k	158k	202k	257k	327k	417k	534k	685k	878k	1120k	1430k	1830k	2340k	2980k	3780k	4790k	
R2	182k	231k	293k	370k	470k	600k	761k	970k	124k	158k	202k	257k	327k	417k	534k	685k	878k	1120k	1430k	1830k	2340k	2980k	3780k	4790k	600k	761k	970k	
R3	182k	231k	293k	370k	470k	600k	761k	970k	124k	158k	202k	257k	327k	417k	534k	685k	878k	1120k	1430k	1830k	2340k	2980k	3780k	4790k	600k	761k	970k	
C1/C2	-22p	-22p	22p	22p	-22p	22p	22p	22p	22p	22p	22p	22p	22p	22p	22p	22p	22p	22p	22p	22p	22p	22p	22p	22p	22p	22p	22p	
C 64/65 interconnections	B1	B2	B3	B4	B5	B7	B6	B8	B9	A22	B21	A23	B24	A24	B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36	B37	B38
C 64 I.C. number	66	70	80	90	9b	70	86	160	170	170	180	180	190	190	160	150	180	140	130	120	110	100	100	110	120	130		
C 65 Comp. #*	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	

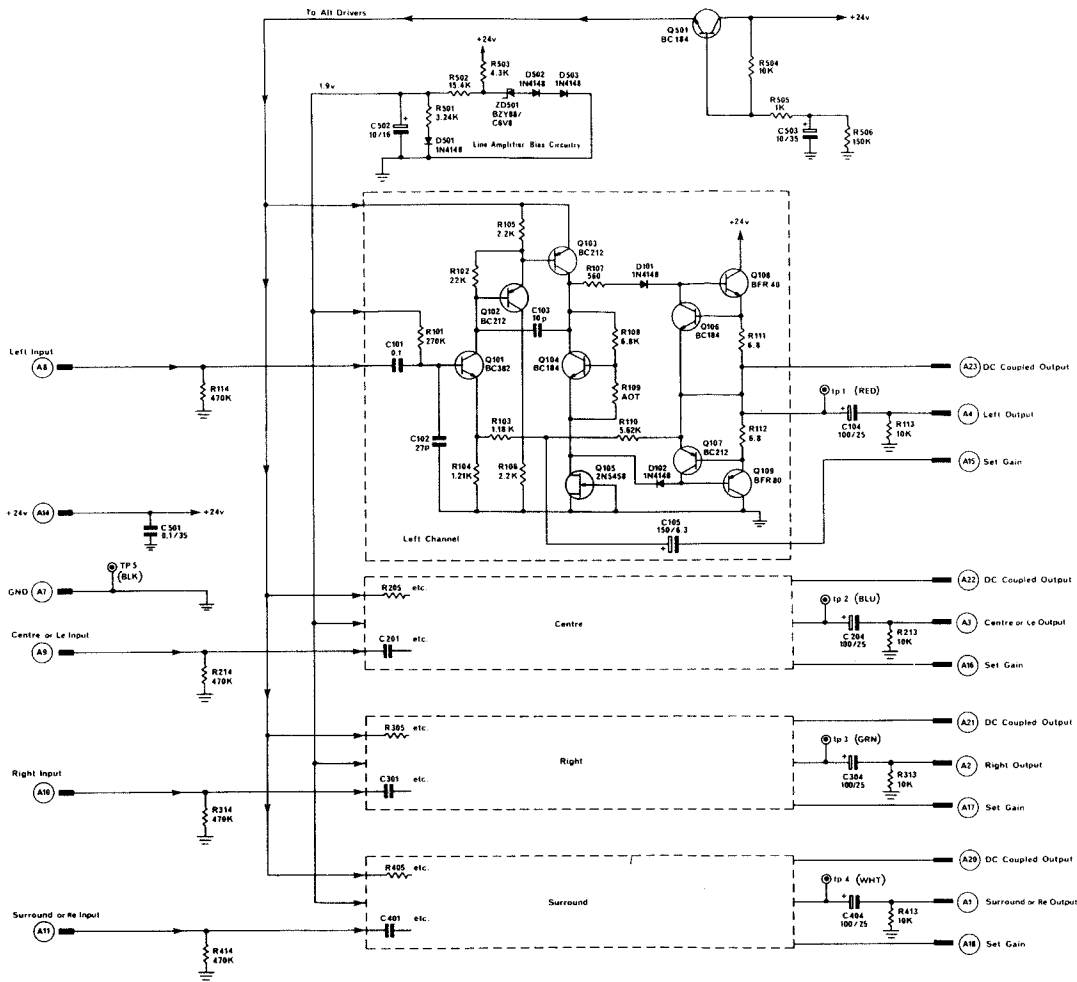
- NOTES
- All filter capacitors $\pm 2\%$
 - All filter resistors $\pm 1\%$
 - On Cat No 64/65 interconnector, the A tags connect with component side of Cat No 64, non-component side of Cat No 65, and pin 1 is nearest head equalizer inputs on Cat No 65.
 - Pins marked with (A) plug into the chassis edge connector.
 - Working voltage of all capacitors 16 volts minimum
 - D.C. level at output of all amplifiers 0 volts approx
 - All integrated circuits are 1458 or equivalent (dual operational amplifiers)



(L83/40)

4.11 Equalizer Module





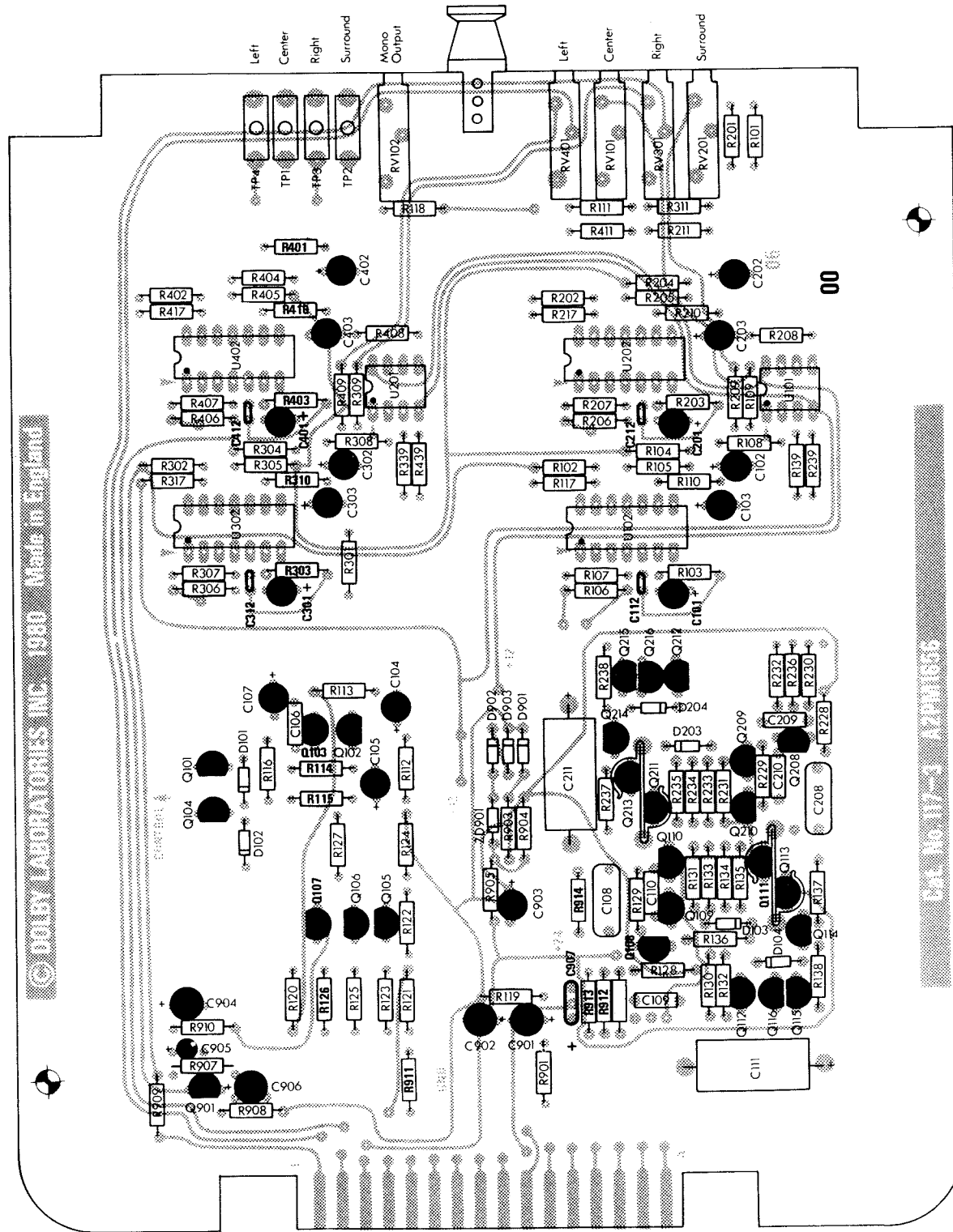
Notes: (Unless otherwise specified)
 1. All resistors are in ohms, 1/4W, 5%
 2. All capacitors are in microfarads

4x OUTPUT AMPLIFIER CARD
 © Dolby Laboratories Inc. Dwg. No. A1C1835 Issue 3

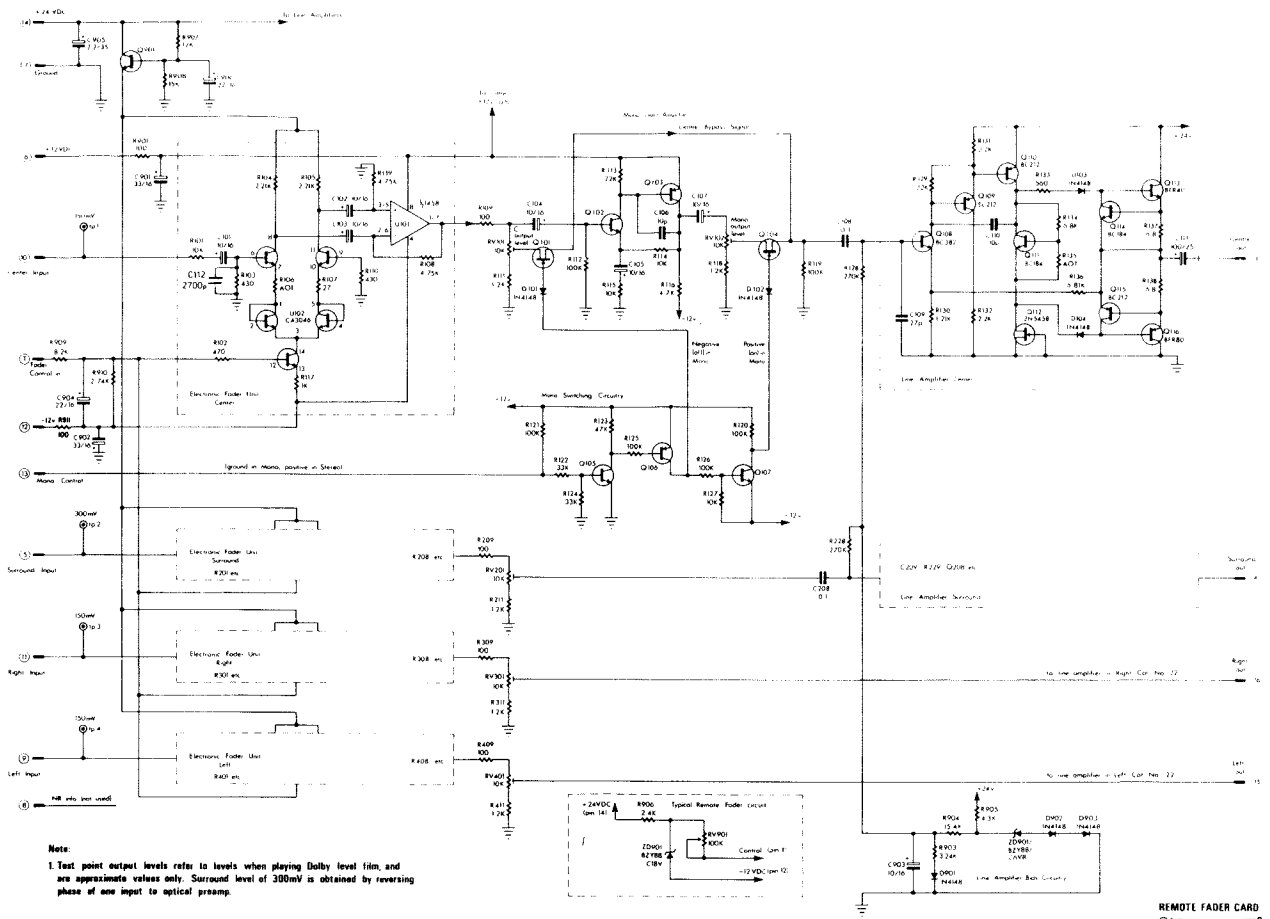
S83/3489/5138

Figure 4.12 Cat. No. 137 Output Amplifier Card

© DOLBY LABORATORIES, INC. 1980 Made in England



Doc. No. DV-3 AZ001855

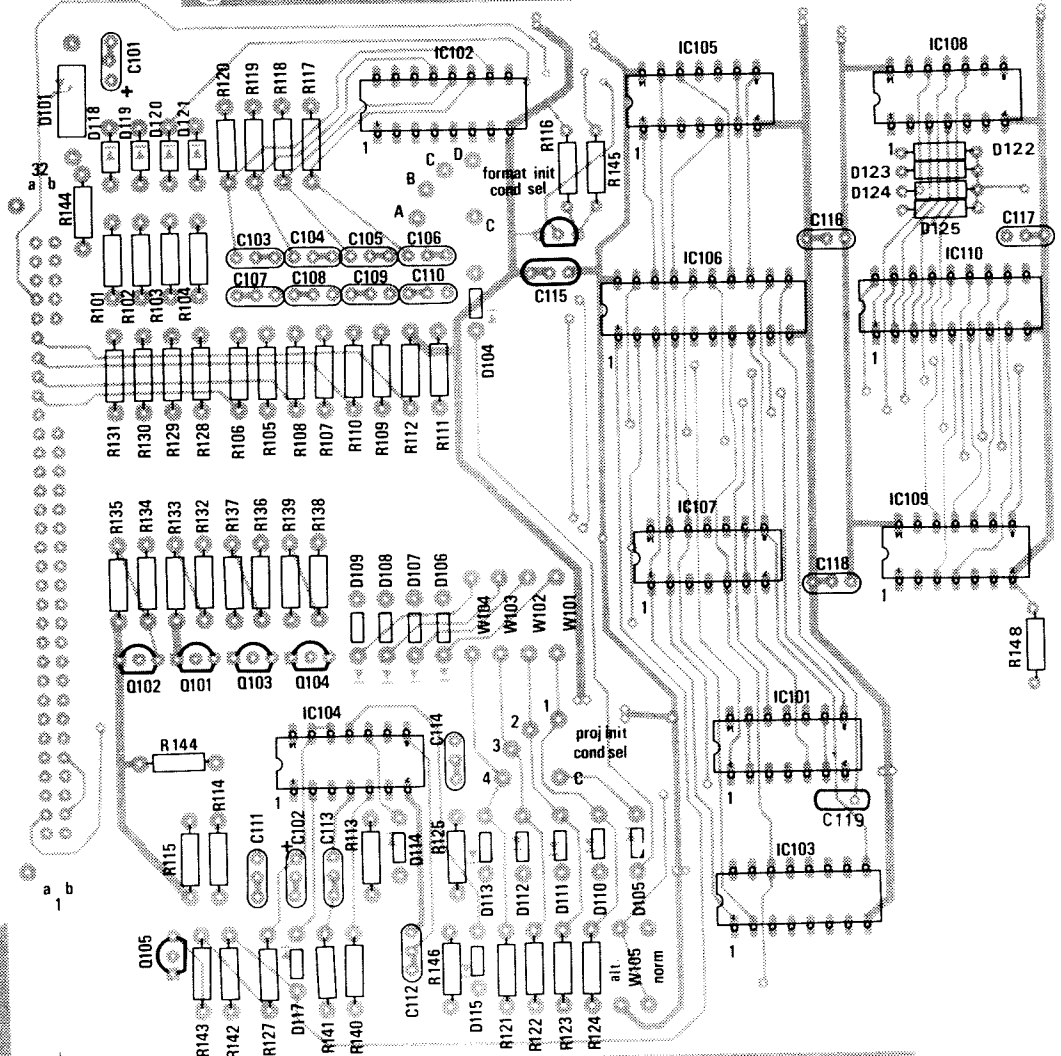


Note:
 1. Test point output levels refer to levels when playing Dolby level film, and are approximate values only. Surround level of 300mV is obtained by reversing phase of one input to optical preamp.

REMOTE FADER CARD
 © Dolby Laboratories Inc. 1977 Div. No. A0C1690
 Issue 2

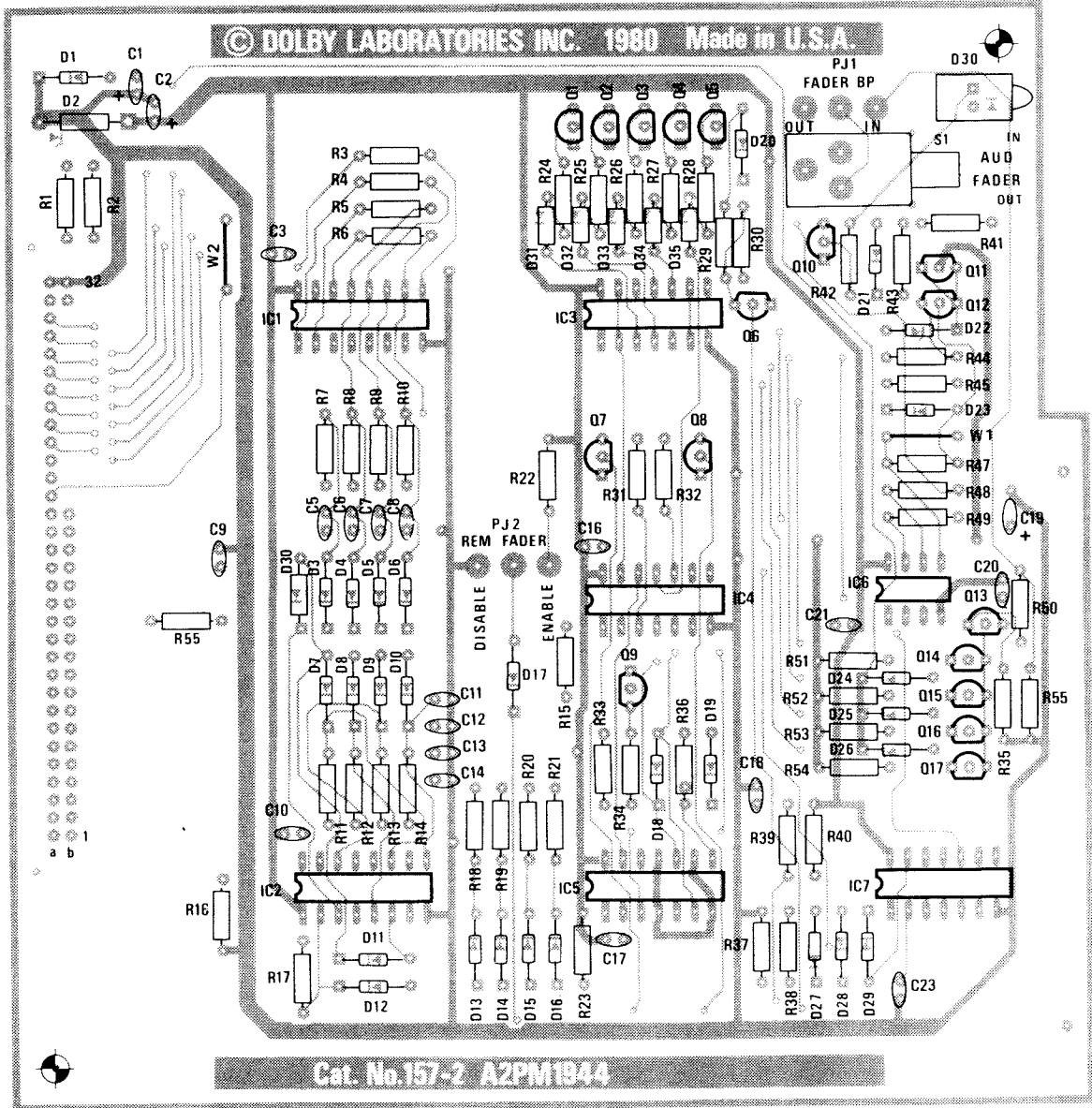
LR195 Figure 4.13 Cat. No. 117 Remote Fader Card

© DOLBY LABORATORIES INC. 1980 Made in U.S.A.



Cat. No. 156-2 AZ-M 1943

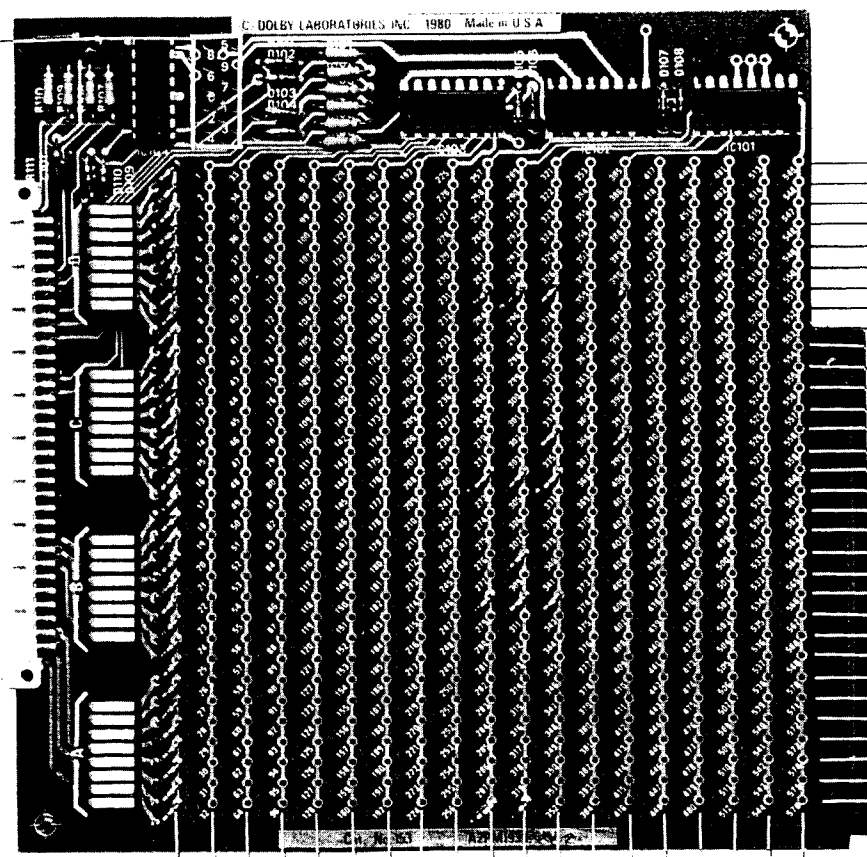
© DOLBY LABORATORIES INC. 1980 Made in U.S.A.



Cat. No.157-2 A2PM1944

FORMAT LINKS	
OPTICAL	0 & 1
35mm MAG	2 & 3
70mm MAG	4 & 5
NON-SYNC	6 & 7

Cat. No. 153 Buss Programming



- Future 9 32
- Future 8 31
- Future 4 30
- Future 11 29
- Non-sync 28
- Future 6 27
- Valid buss 26
- Future 3 25
- Input switch 24
- Mag. B 23
- Dolby tone 22
- Non-sync 2 21
- Non-sync 3 20
- Mono 19
- Non-sync mic 18
- Filter 17
- Future 12 16
- Future 13 15
- Spkr. reverse 14
- Optical surround 13
- Future 10 12
- NR in 11
- Accessory NR in 10
- Mag. stereo surround 9
- Future 5 8
- Future 1 7
- Mag. A 6
- Future 2 5
- Future 7 4
- Optical stereo surround 3
- 35mm mag. 2
- Bass extension 1

OPTICAL	18	13	14	12	10	17	15	16	11	03	04	02	00	01	07	09	05	06	08
35mm MAG	38	33	34	32	30	37	35	36	31	23	24	22	20	21	27	29	25	26	28
70mm MAG	58	53	54	52	50	57	55	56	51	43	44	42	40	41	47	49	45	46	48
NON-SYNC	78	73	74	72	70	77	75	76	71	63	64	62	60	61	67	69	65	66	68

BOLDFACE are currently assigned format numbers

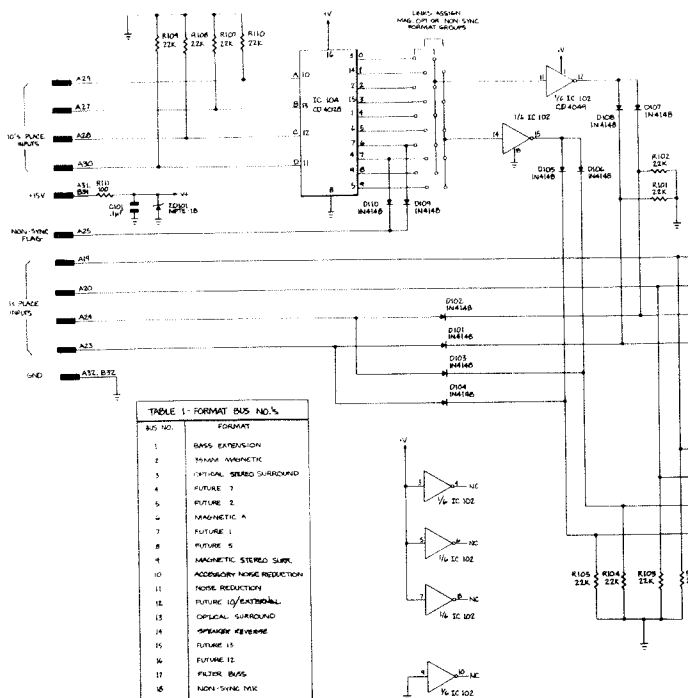
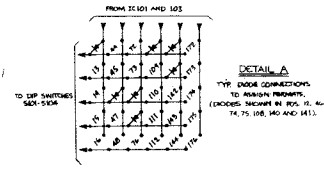
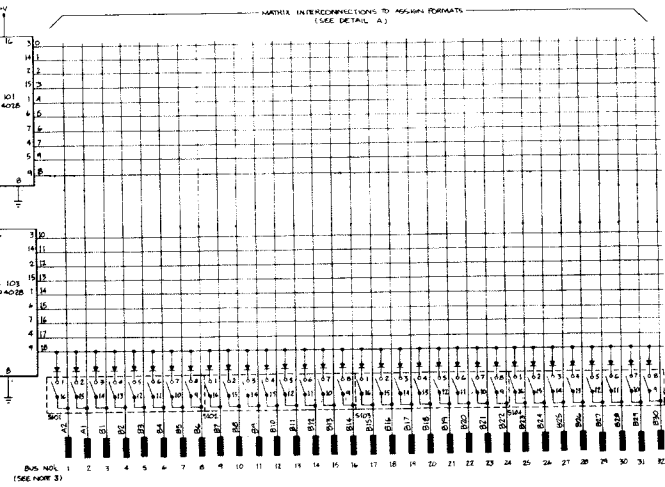


TABLE 1 - FORMAT BUS AND NO.

BUS NO.	FORMAT
1	BASS EXTENSION
2	MONO MAGNETIC
3	OPTICAL STEREO SURROUND
4	FUTURE 7
5	FUTURE 2
6	MAGNETIC A
7	FUTURE 1
8	FUTURE 5
9	MAGNETIC STEREO SURR.
10	NOISE REDUCTION
11	NOISE REDUCTION
12	FUTURE 10/EXTENSIBLE
13	OPTICAL SURROUND
14	STEREO REVERSE
15	FUTURE 15
16	FUTURE 12
17	FILTER BASS
18	NON-SYNC MK
19	PHONO
20	NON-SYNC 3
21	NON-SYNC 2
22	DOUBY TONE
23	MAGNETIC D
24	INPUT SWITCH
25	FUTURE 5
26	VALID BASS
27	FUTURE 6
28	NON-SYNC
29	FUTURE 11
30	FUTURE 4
31	FUTURE 8
32	FUTURE 4

FORMAT NO.	CAT. NO. 153 INDEX SWITCHING LOCATION	BUS LINE ACTIVATED
OPTICAL		
01	391, 398	11 13 17 19 20 21 22 23 24 25 26 27 28 29 30 31 32
02	272, 273, 276, 285	11 13 17 19 20 21 22 23 24 25 26 27 28 29 30 31 32
03	283, 272, 276, 280, 270	11 13 17 19 20 21 22 23 24 25 26 27 28 29 30 31 32
04	276, 284, 280, 281, 282, 287	11 13 17 19 20 21 22 23 24 25 26 27 28 29 30 31 32
STEREO MAG		
20	399, 342, 371, 363	2 6 10 11 17 23 26 27 28 29 30 31 32
21	391, 394, 411, 415	2 6 10 11 17 23 26 27 28 29 30 31 32
22	377, 330, 347, 351	2 6 10 11 17 23 26 27 28 29 30 31 32
23	273, 266, 272, 276, 283, 287	2 6 10 11 17 23 26 27 28 29 30 31 32
TO MM MAG		
40	399, 342, 371	2 6 10 11 17 23 26 27 28 29 30 31 32
41	391, 394, 402, 403, 411	2 6 10 11 17 23 26 27 28 29 30 31 32
42	377, 330, 346, 347, 347, 352	2 6 10 11 17 23 26 27 28 29 30 31 32
43	283, 284, 276, 278, 279, 280, 283, 288	2 6 10 11 17 23 26 27 28 29 30 31 32
NON-SYNC		
50	357, 354	6 10 11 17 23 26 27 28 29 30 31 32
51	309, 371, 396	6 10 11 17 23 26 27 28 29 30 31 32
52	374, 377, 378	6 10 11 17 23 26 27 28 29 30 31 32
53	309, 276	6 10 11 17 23 26 27 28 29 30 31 32
54	318, 319, 328, 331	6 10 11 17 23 26 27 28 29 30 31 32
55	351, 354, 365, 371	6 10 11 17 23 26 27 28 29 30 31 32

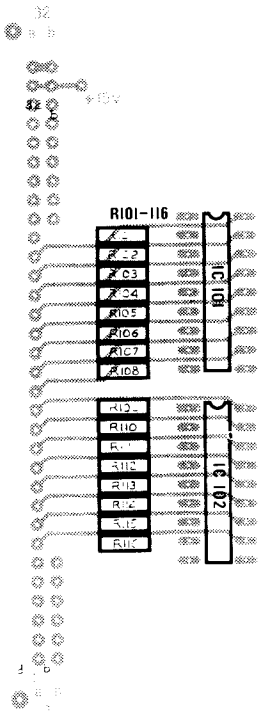


- NOTES:
1. S101 THRU S104 ARE 1/4 PIN DIP SWITCHES.
 2. PIN 10'S FOR IC 103, 108 AND 104 ARE LOCATED INSIDE OF THE RECEPTACLE. DECIMAL AND BCD EQUIVALENTS ARE ON THE OUTSIDE.
 3. BUS DESCRIPTIONS IN TABLE 1.
 4. DASHED LINES INDICATE DIP SWITCH PACKAGE (NIP FOR S101 THRU S104).
 5. ALL DIODES ARE IN1418B.

CAT. NO. 153 FORMAT DECODER CARD © DOLBY LABORATORIES PRCO PDR. NO. AIC12094, ISSUE 3

S83/3153/5142

Figure 4.16 Cat. No. 153 Format Decoder Logic Card



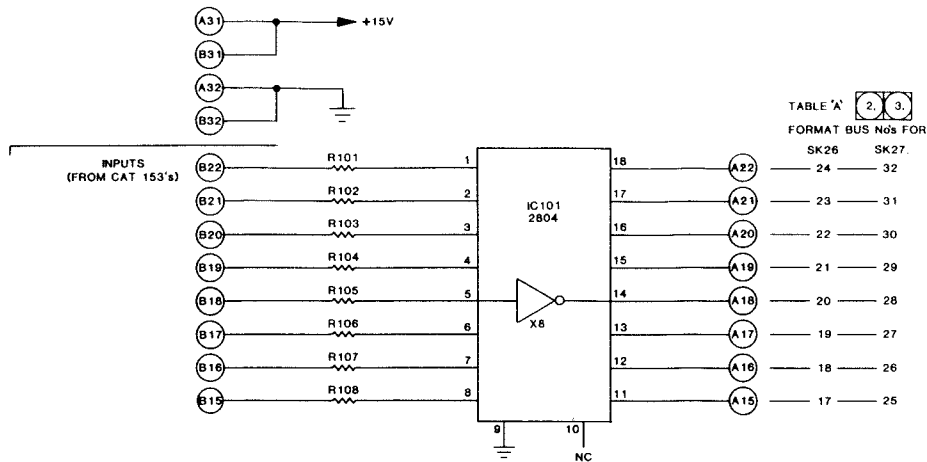
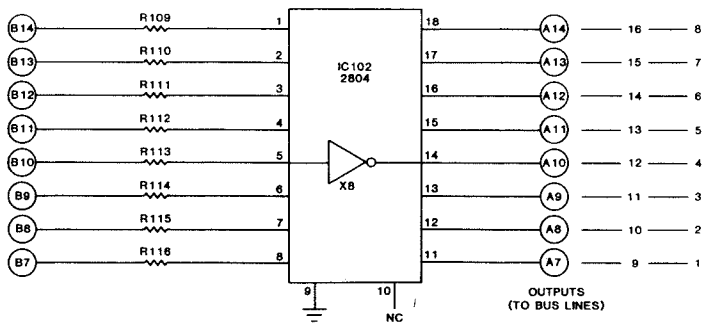


TABLE 'A'

2	3
---	---

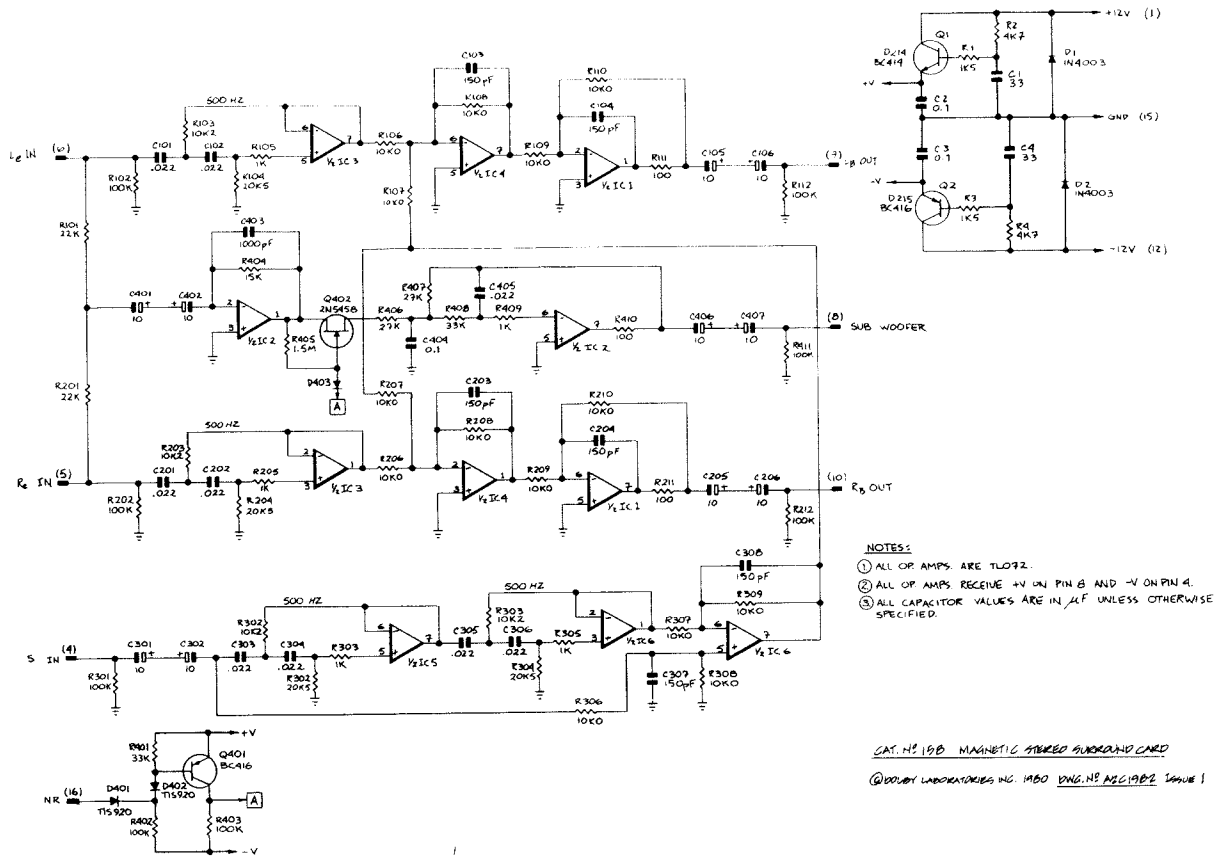
FORMAT BUS No's FOR

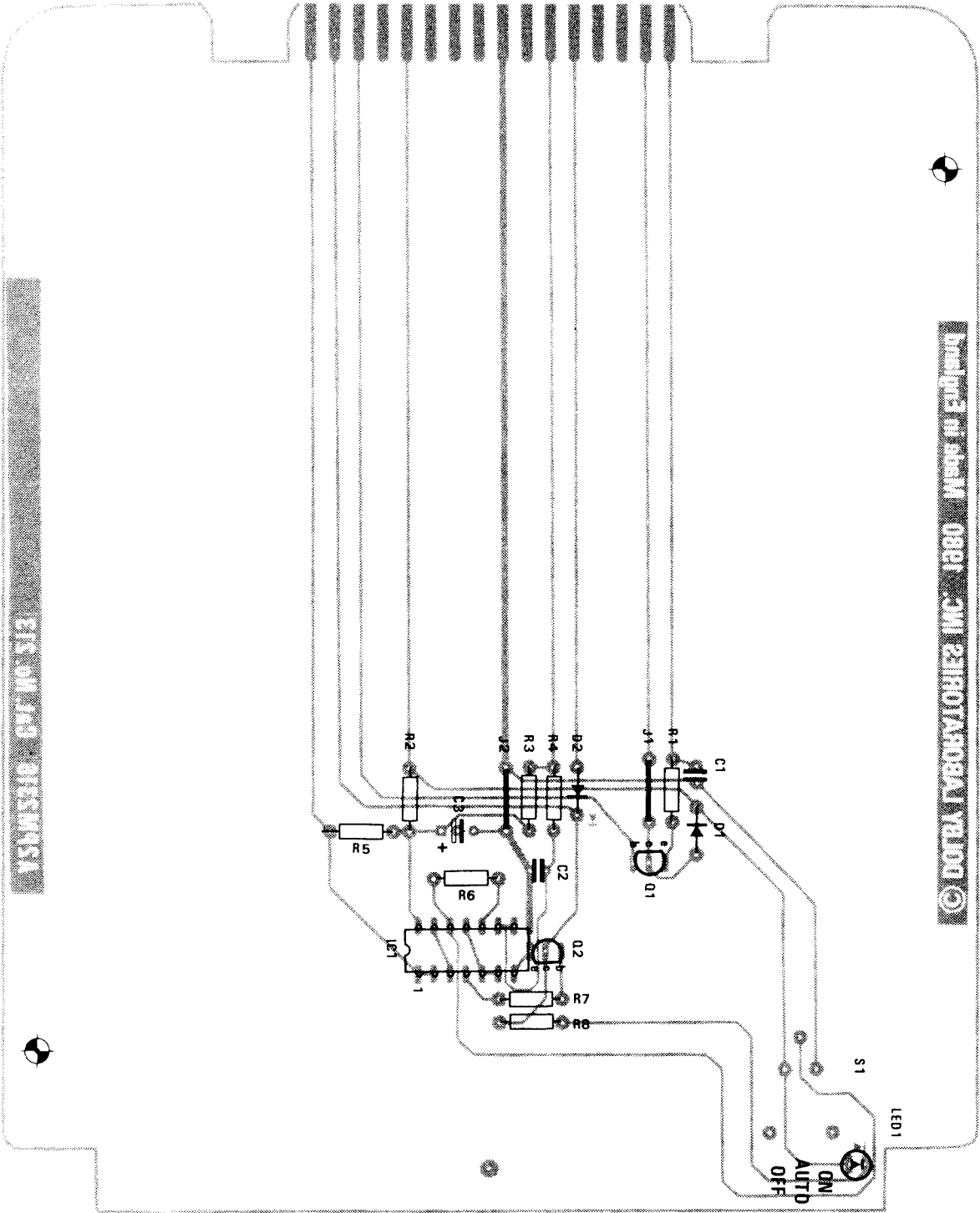
SK26	SK27
24	32
23	31
22	30
21	29
20	28
19	27
18	26
17	25



- NOTES: UNLESS OTHERWISE SPECIFIED
- ALL RESISTORS ARE 18K, 1/4W 5%.
 - TWO CARDS ARE USED IN CP200, ONE IN CONNECTOR SK26, & ONE IN SK27.
 - BUS NUMBERS LISTED IN TABLE A ARE ON CAT NO. 153 CIRCUIT DIAGRAM A1C2094.

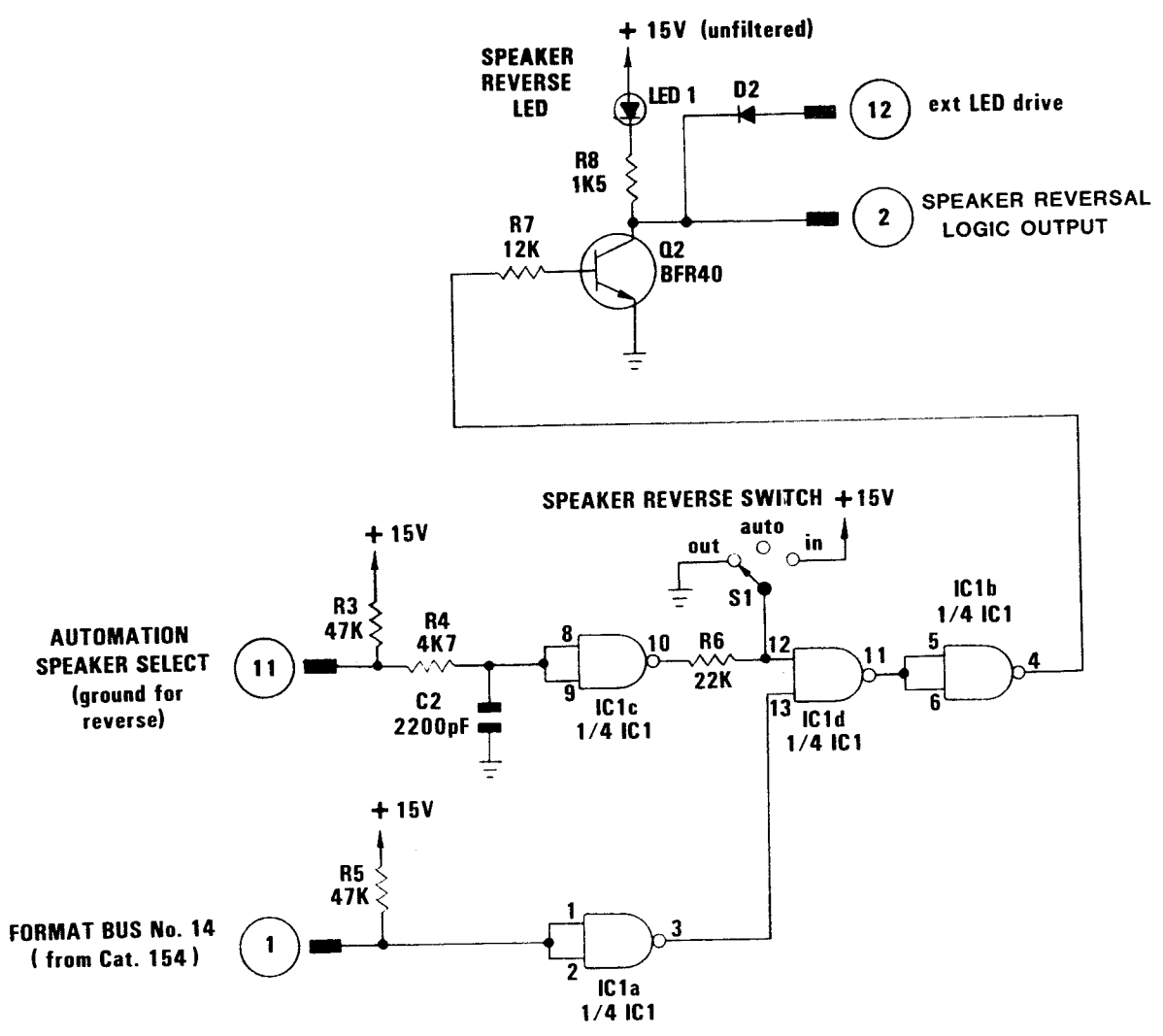
CAT No. 154 BUSS DRIVER CARD
 © DOLBY LABORATORIES 1980 DWG No. A3C1942
 ISSUE 2

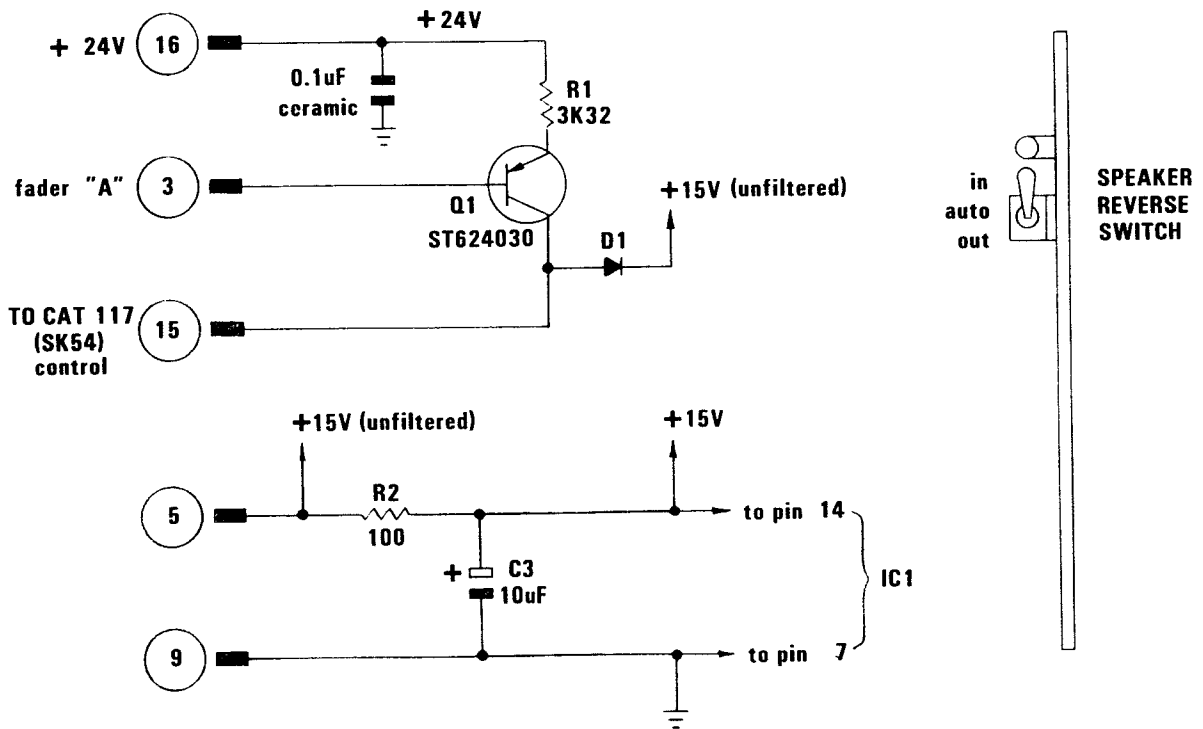




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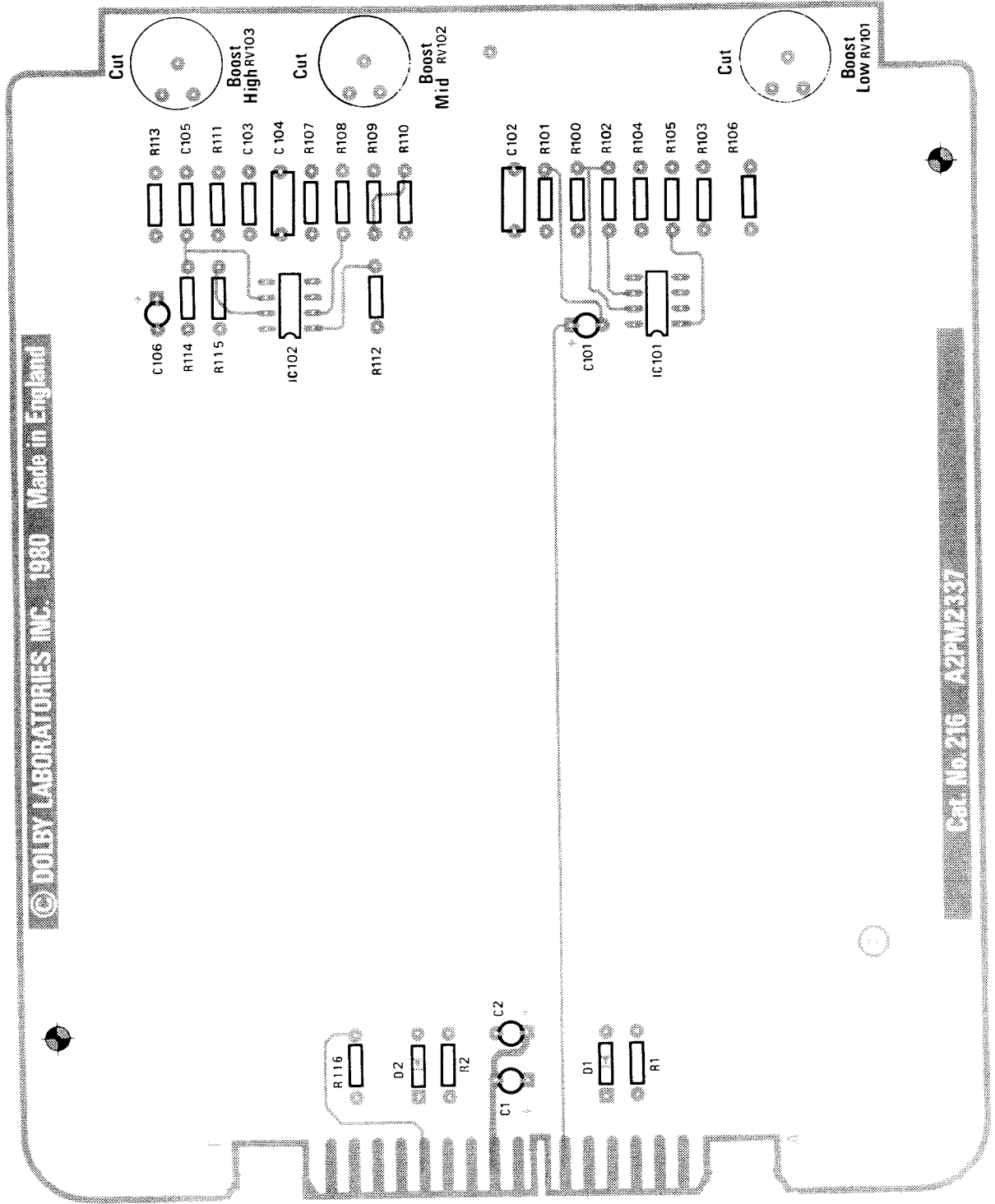
Notes:

1. IC:CD40118
2. All Diodes IN4148

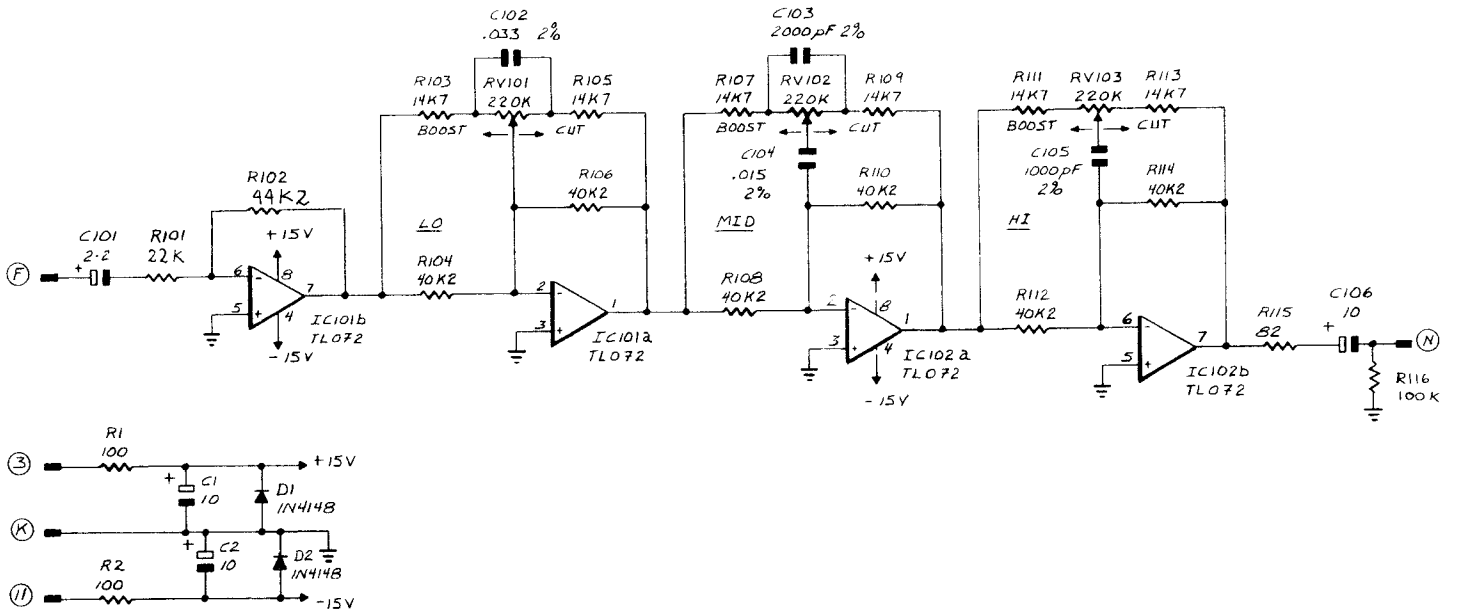
Cat. No. 213 Switch Card

© Dolby Laboratories Inc.
Dwg. No. A3C231C, Issue 6

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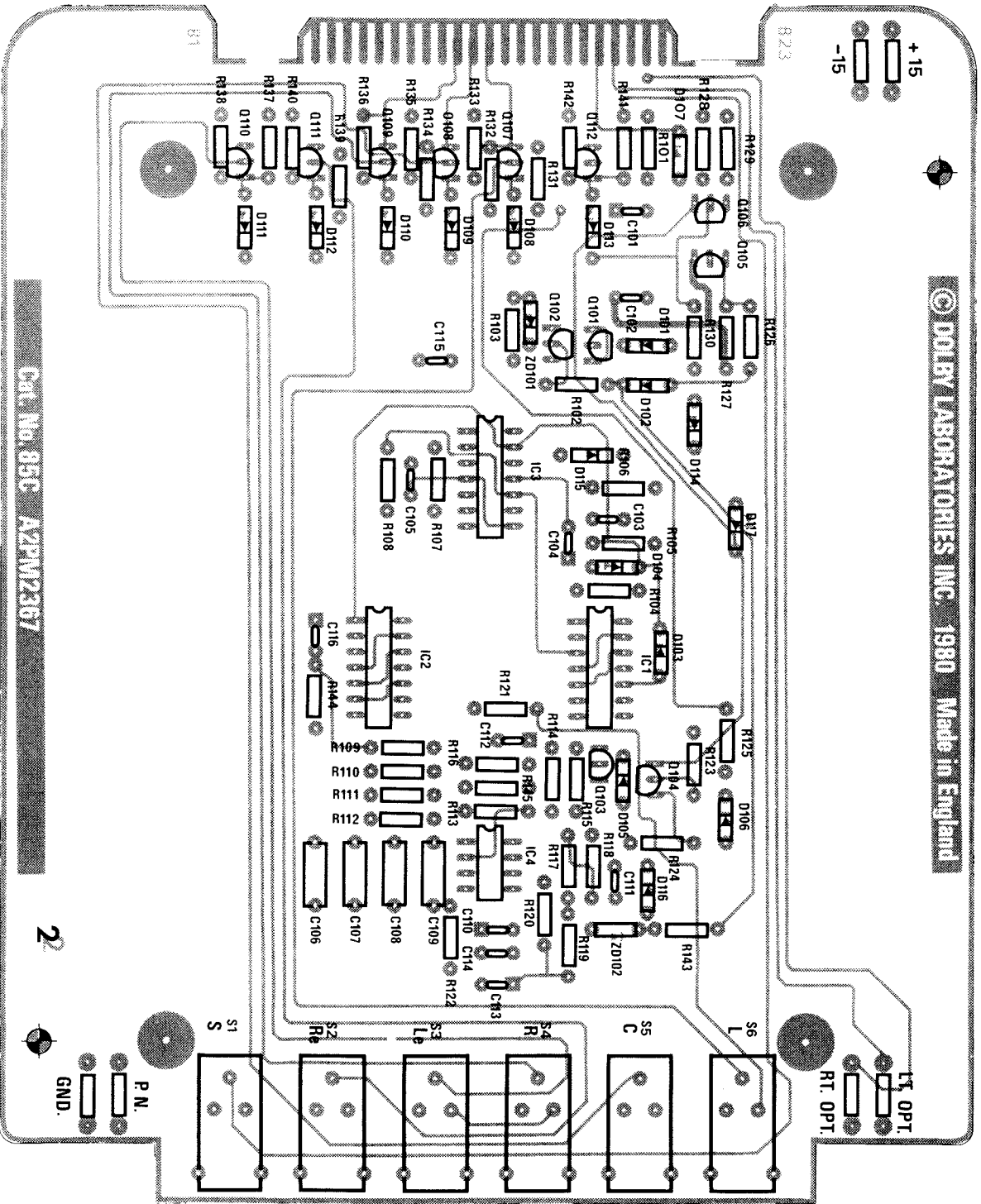


Cat. No. 216-A2PM2337



CAT. NO. 216 3-BAND EQUALIZER CARD
 © DOLBY LABORATORIES INC 1980
 DWG. NO. AC3 2337 1/8/80 3

© DOLBY LABORATORIES INC. 1980 Made in England

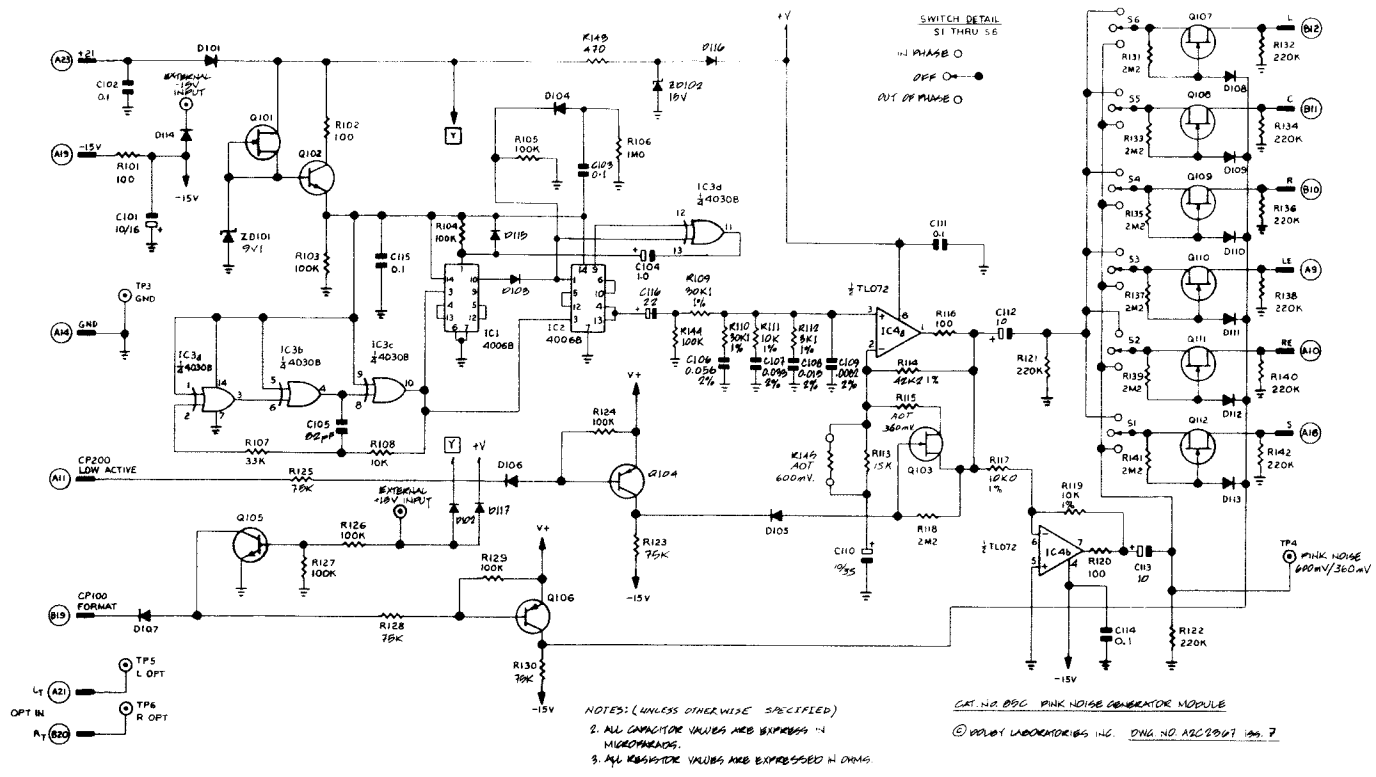


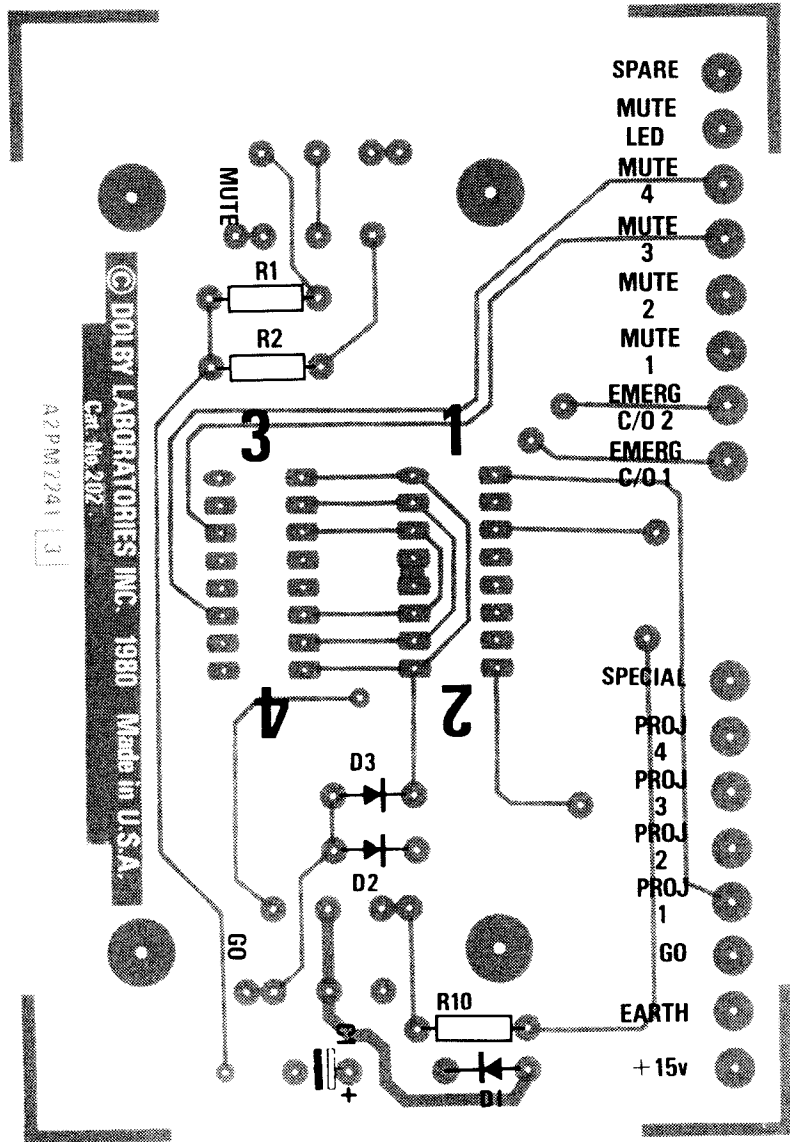
CON. No. 85C A2PM2367

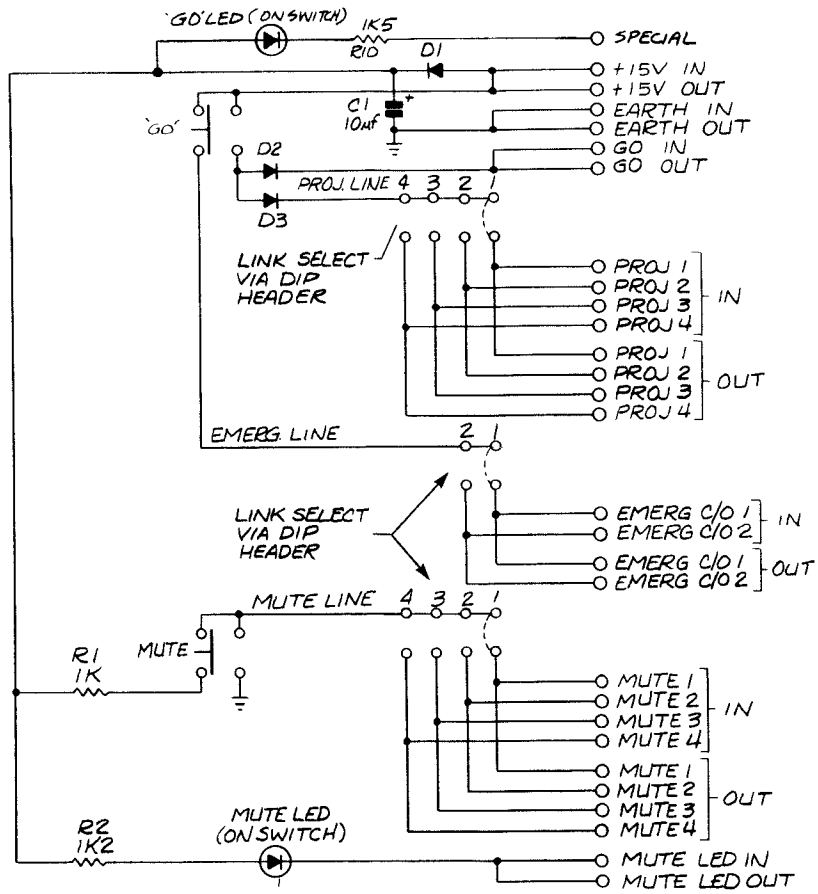
2



L1 OPT.
RT. OPT.
S6 L
S5 C
S4 R
S3 Lp
S2 Rp
S1 S
P.N.
GND.





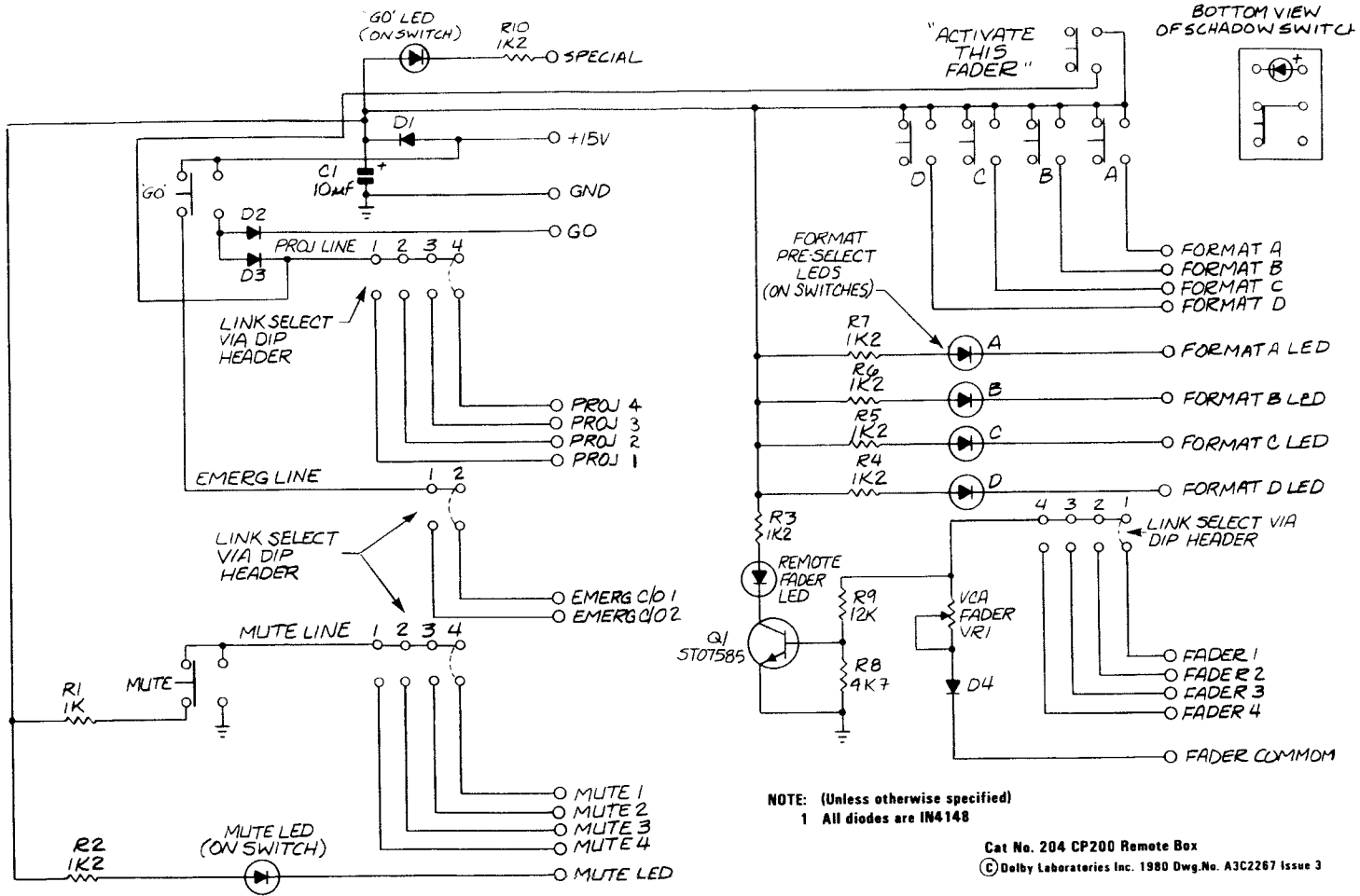


NOTES:
(UNLESS OTHERWISE SPECIFIED).
1. ALL DIODES ARE IN4148.

Cat.No.202 CP200 Remote Box
© Dolby Laboratories Inc. 1980 Dwg No. A3C2241 Issue 2

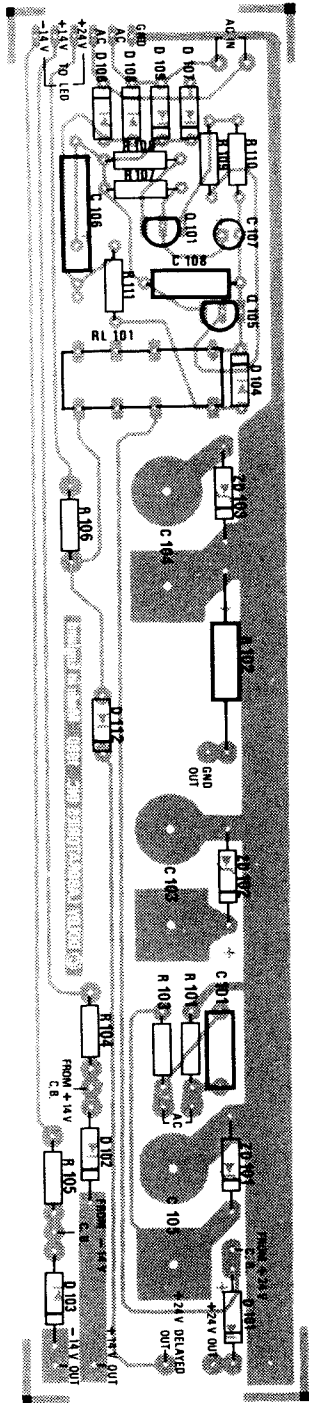
S83/3501/5148

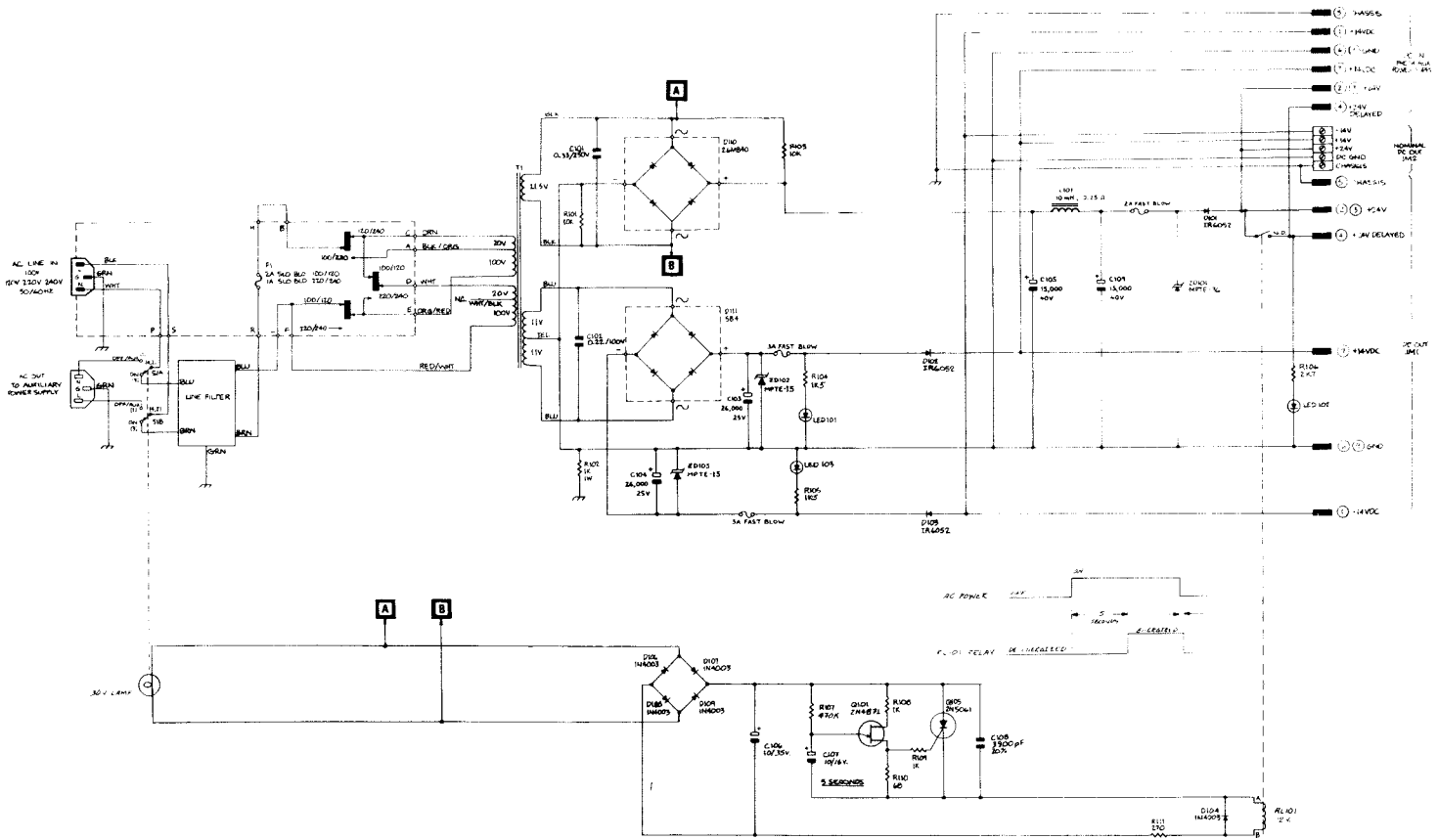
Figure 4.22 Cat. No. 202 Remote Control Unit



S83/3502/5149

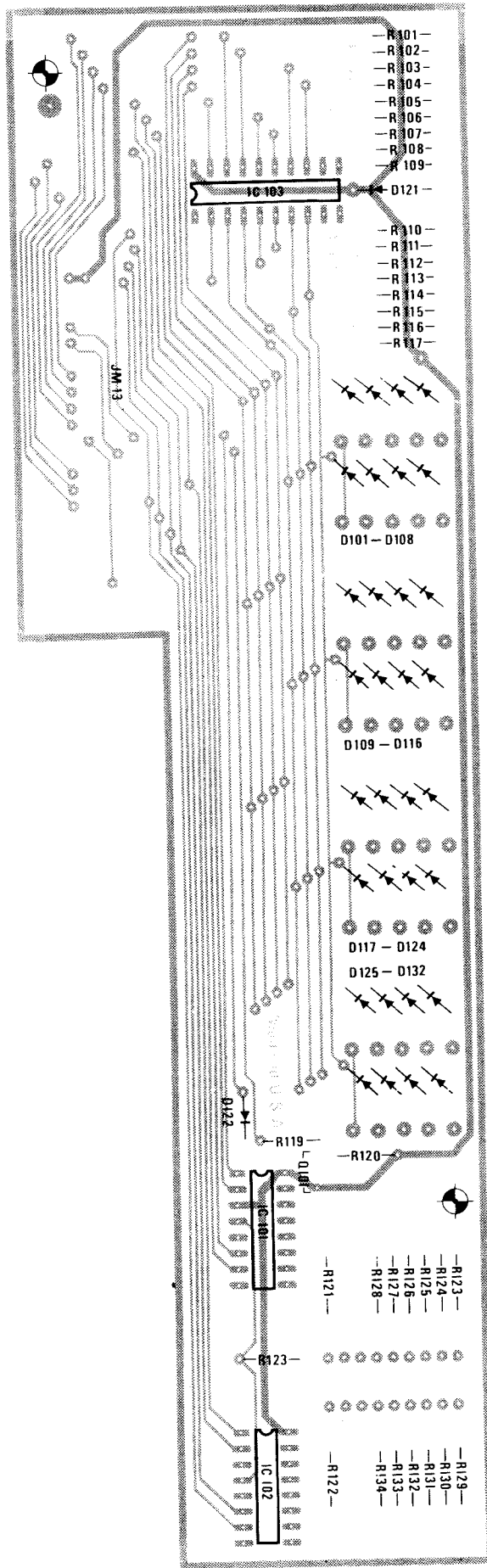
Figure 4.23 Cat. No. 204 Remote Control Unit with Format

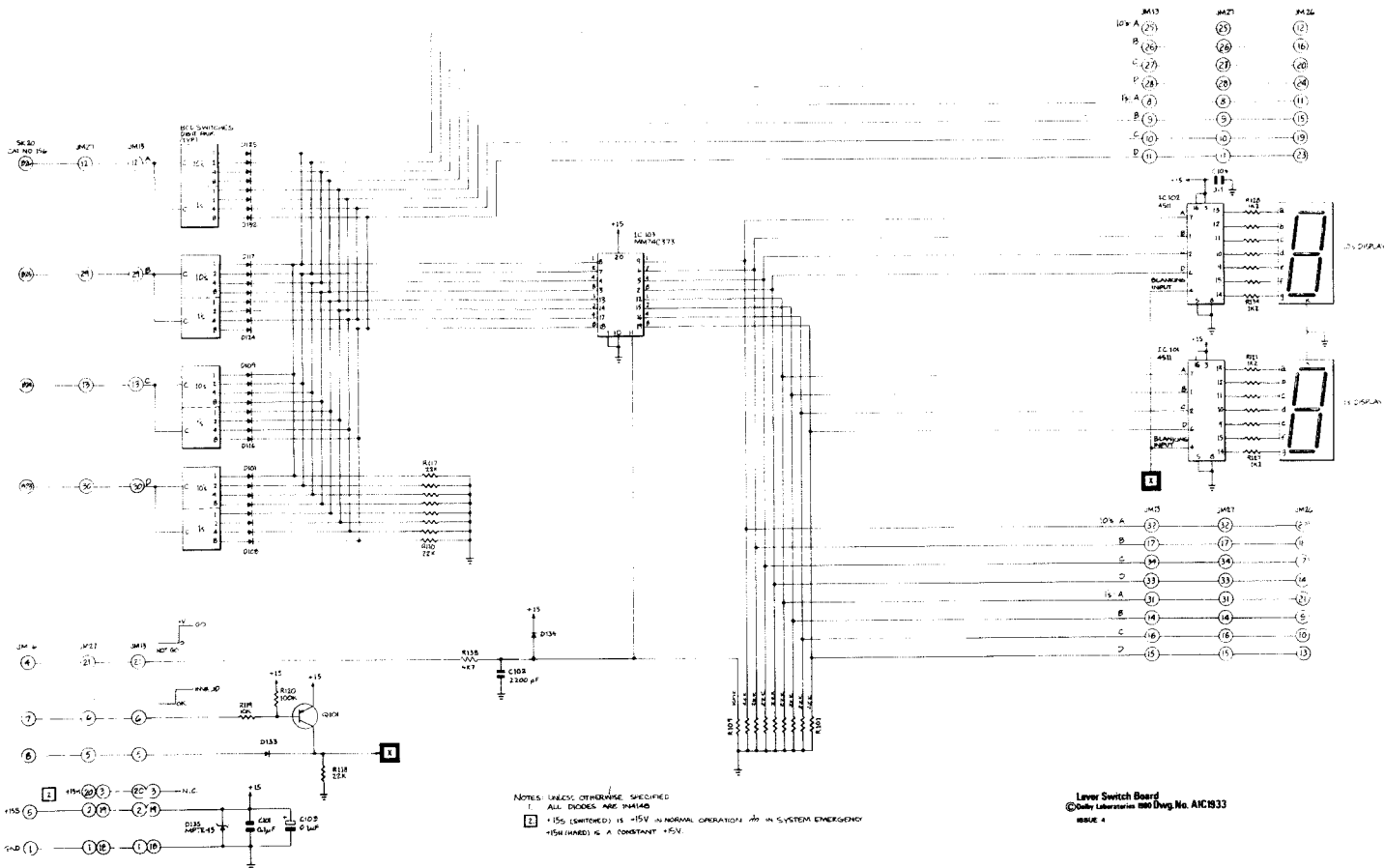




S83/3496/5150

Figure 4.24 PS1B Power Supply



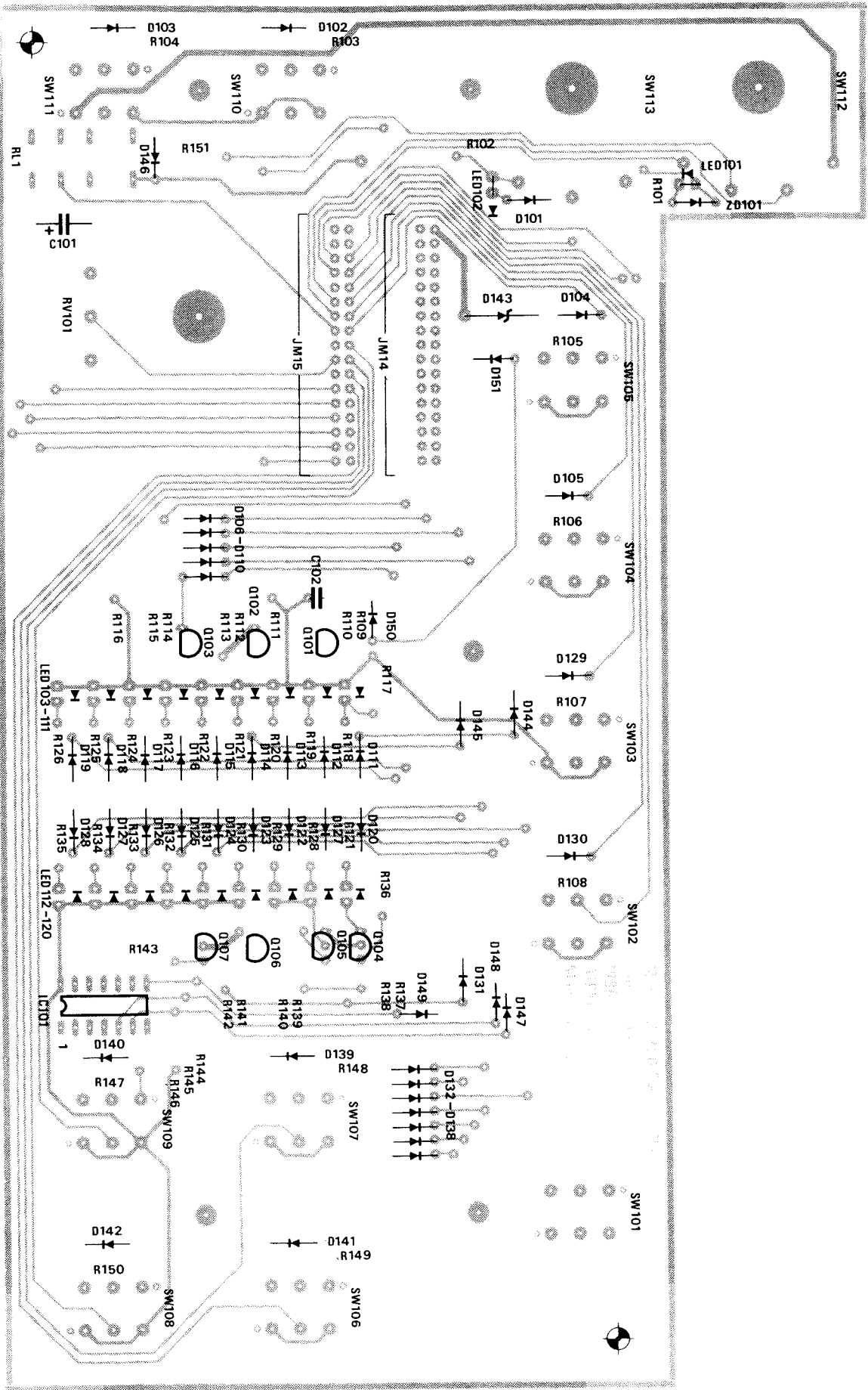


NOTES: UNLESS OTHERWISE SPECIFIED
 ALL DIODES ARE 1N4148
 [1] +5V (SWITCHED) IS +15V IN NORMAL OPERATION AND IN SYSTEM EMERGENCY
 +5V (FIXED) IS A CONSTANT +5V.

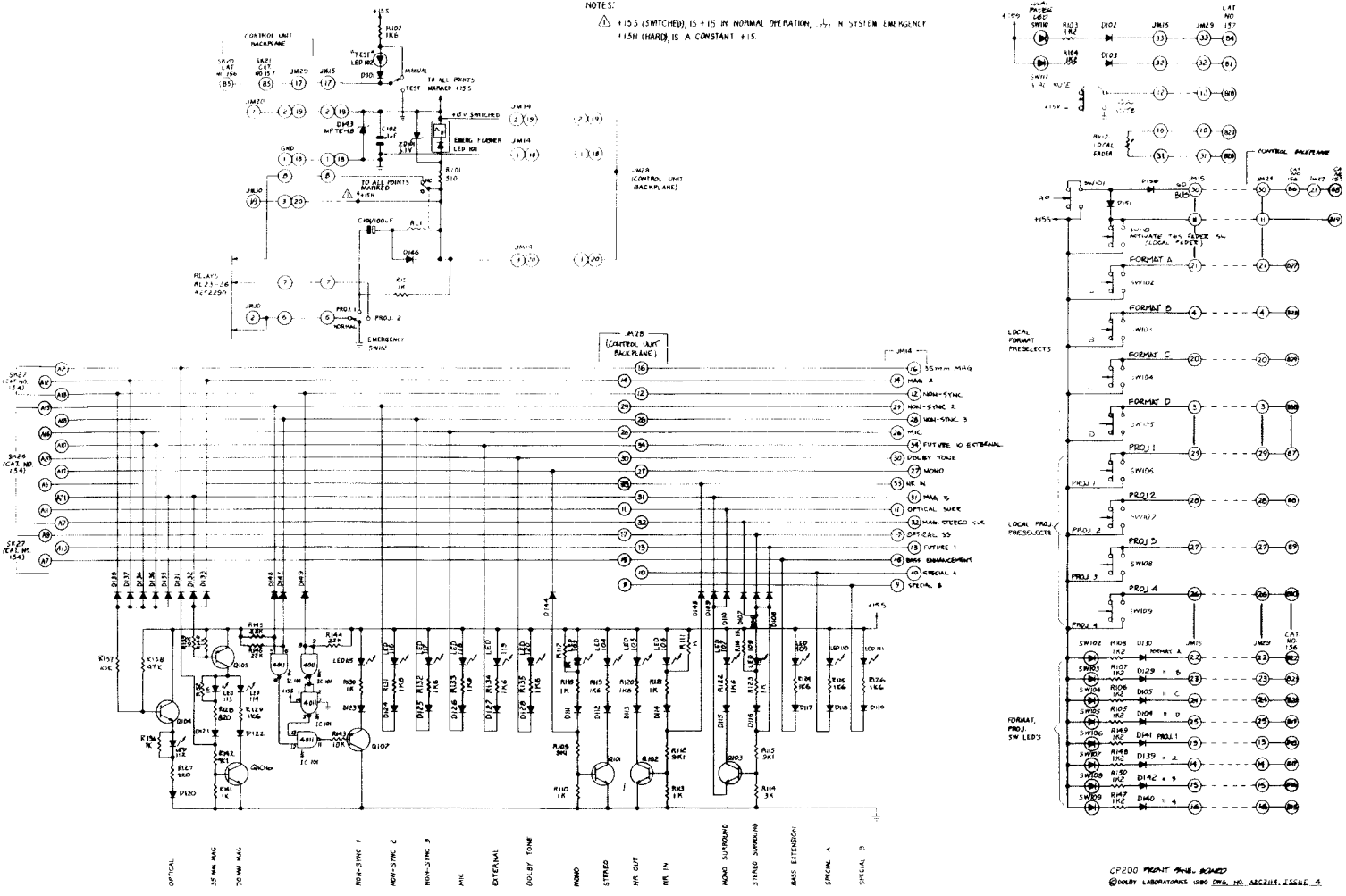
Lever Switch Board
 ©Gully Laboratories 999 Dwyg No. AK1833
 ISSUE 4

S83/3494/5151

Figure 4.25 Lever Switch Board

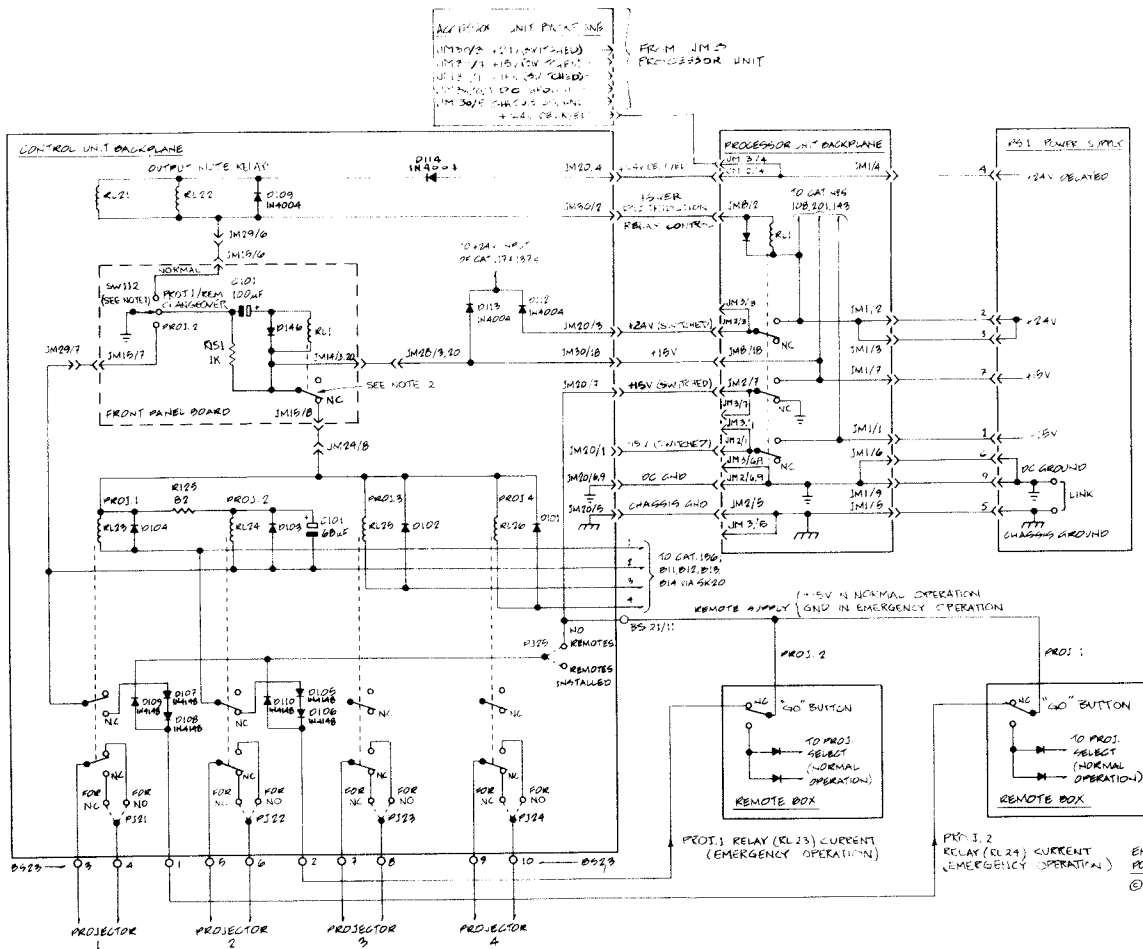


NOTES:
 #155 (SWITCHED), IS #15 IN NORMAL OPERATION, #1 IN SYSTEM EMERGENCY
 #15H (HARD), IS A CONSTANT #15



SR3/3495/5159

Figure 4.26 Front Panel Board



S83/3503/5153

Figure 4.27 Emergency Projector Control/Power Distribution