

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

NOTES: UNLESS OTHERWISE SPECIFIED

11. INSTALL ITEM NO. 838 ON 100V & 120V UNITS ONLY.
  12. INSTALL ITEM NO. 858 ON 240V UNITS ONLY.
  13. ASSEMBLE PER WORKMANSHIP QSD LLL.

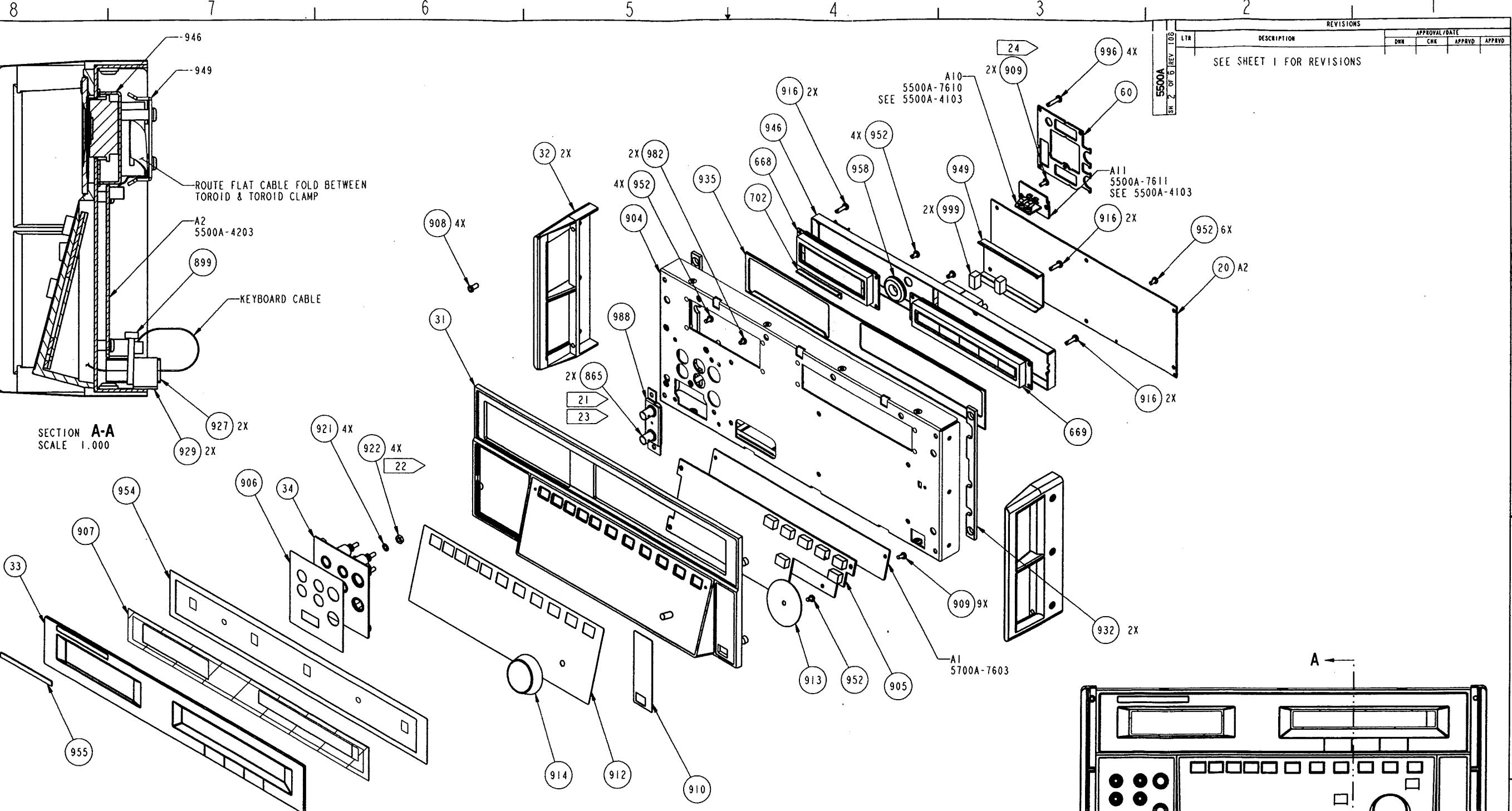
LTR	DESCRIPTION	APPROVAL/DATE		
		DWN	CHK	APPRVD
AA	55629: SHT 1-ADDED ITEM 37. ITEM 961 P/H WAS 881789.	K.P. 8/28/98		OJ 9/3/98
AB	56001: SHT 1-ITEM 988 WAS P/N 945451, NONU WAS 5500A-2022.	K.P. 12/15/98		OJ 12/18/98
AC	56015: SHT 1-ITEM 967 P/H WAS 407908. ITEM 970 QTY WAS 9. SHT 6 (ZND7) DELETED ITEM 970, 3X. DELETED F/H 64.	K.P. 12/15/98		OJ 12/18/98
AD	56084: SHT 1 DELETED ITEM 20, ADDED ITEMS 1-5.	LJP 1/6/99		NH 1/7/99
100	W1002122: SEE PDW RECORD FOR DESCRIPTION OF REVISION.			
101	W1003160: SEE PDW RECORD FOR DESCRIPTION OF REVISION.			
102	W1005654: SEE PDW RECORD FOR DESCRIPTION OF REVISION.			
103	W1009672: SEE PDW RECORD FOR DESCRIPTION OF REVISION.			
104	W1010156: SEE PDW RECORD FOR DESCRIPTION OF REVISION.			
105	W1011660: SEE PDW RECORD FOR DESCRIPTION OF REVISION.			
106	W1010903: SEE PDW RECORD FOR DESCRIPTION OF REVISION.			
107	W1013847: SEE PDW RECORD FOR DESCRIPTION OF REVISION.			
108	W1016092: SEE PDW RECORD FOR DESCRIPTION OF REVISION.			

LTR	DESCRIPTION	REVISIONS			
		DWN	CHK	APPRVD	APPRVD
-	RELEASE TO PRE PILOT	MN	TM	WW	EC
A	REVISED ALL SHTS. ADDED SHT 6 RELEASE TO PILOT RUN 6/27/94	RG	DP TM	WW 6/28/94	EC 6/30/94
B	INCORP ECO'S 5500A-18, 5500A-P20, 5500A-P25, 5500A-P49. ON SHT 1, DELETED ITEM 927. ADDED ITEMS 994. ITEM 858 WAS 851, NOTE 11 WAS 851; ITEM 952 QTY WAS 35 ON SHT 3, MOVED ITEM 937 ON SHT 4, ADDED ITEM 994 AND ITEM 952, 3 PL ON SHT 5, ADDED ITEM 939	RG 10/24/94	TM 11/1/94	WW 11/1/94	EC 11/1/94
C	INCORP ECO 5500A-114 RELEASE TO DOCUMENT CONTROL	RG 11/15/94	TGM 11/16/94	WW 11/21/94	EC 11/21/94
C1	INCORP DCO 50661 REVISED NOTES 11 & 12	RG 1/16/95	DP 1/24/95	WB 1/25/95	EC 1/25/95
D	INCORP DCO 50714 REVISED ITEMS 838, 858 & 939 DELETED ITEMS 897, 898 & 899 INCORP DCO 50785 REVISED ITEM 918	RG 1/16/95	DP 1/24/95	WB 1/25/95	EC 1/25/95
E	INCORP DCO 51014 ADDED ITEM 896 & NOTE 13 ADDED ITEM 896 TO SHT 3 ADDED FLAGNOTE 24 TO SHT 2	RG 4/3/95	TGM 5/2/95	DLD 5/4/95	ECC 5/2/95
F	INCORP DCO 51042 ADDED ITEMS 895 & 970 REVISED SHTS 4 & 6	RG 4/3/95	TGM 5/2/95	DLD 5/4/95	ECC 5/2/95
G	INCORP DCO 51056 ADDED ITEM 894 TO P/L & SHTS 3 & 6 ADDED NOTE 62 TO SHT 6	RG 4/3/95	TGM 5/2/95	DLD 5/11/95	ECC 5/10/95
H	INCORP DCO 51159 DELETE ITEM 894 (DCO 51056)	RG 4/3/95	TGM 5/2/95	DLD 5/11/95	ECC 5/10/95
J	S1749: SHT 1-ADDED ITEM 894. REVISED NOTE 13. ADDED NOTE 14.	K.P. 8/9/95			LAH 8/22/95
K	S2077: SHT 1-ADDED ITEM 980, QTY OF ITEM 970 WAS 6. SHT 4-ADDED VIEW OF ITEM 980 ZONE B5 & 8, SHT 6-REVISED VIEW ZONE C-D-7. ADDED F/N 64.	WKC 11/7/95			TD 11/10/95
L	S2174: SHT 1-ADDED ITEM 979. SHT 3- (ZNB3) ADDED ITEM 979 TO VIEW.	K.P. 1/10/96			TD 1/12/96
M	S2524: SHT 1-ADDED ITEM 801 TO P/L. SHT 6 (ZNB3) ADDED ITEM 801 TO VIEW.	K.P. 3/22/96			LAH 3/29/96
N	S2559: SHT 1-ADDED ITEM 903 TO P/L.	K.P. 3/22/96			LAH 3/29/96
P	S2594: SHT 1-ADDED ITEM 888. ITEM 980 WAS P/N 600665. SHT 4-ADDED DETAILS C & D.	K.P. 5/6/96			TD 5/15/96
R	S2649: SHT 1-DELETED ITEM 935 FROM P/L SHT 3-DELETED ITEM 935 FROM VIEW.	K.P. 5/6/96			TD 5/15/96
T	53729: SHT 1-ADDED ITEMS 899, 927, 929, 932, 935, 946, 949, 958, 967 & 999. ITEM 916 QTY WAS 12. ITEM 952 QTY WAS 38. DELETED NOTE 14. SHT 2-UPDATED VIEW PER P/L CHANGES. ADDED SECTION A-A. SHT 5-ADDED ITEM 967 TO VIEW. 53809: SHT 1-ITEM 998 WAS P/N 358341. SHT 2-UPDATED VIEW.	K.P. 7/23/97			TD 7/30/97
U	54331: SHT 1-ITEM 662 WAS P/N 937073, DWG. NO. WAS 5500A-2005. ITEM 663 WAS P/N 937078, DWG. NO. WAS 5500A-2006.	K.P. 9/26/97			TD 9/29/97
V	54367: SHT 1-ITEM 944 WAS P/N 944459. DELETED ITEM 995. 54376: SHT 1-ADDED ITEM 702. SHT 2-ADDED ITEM 702 TO VIEW.	K.P. 10/21/97			TD 10/21/97
W	54836: SHT 1-ITEM 946 WAS P/N 621976, DWG. NO. WAS 5500A-2048. 54862: SHT 1-ITEM 946 REF DES WAS A63MP030.	K.P. 2/18/98			TD 2/19/98
Y	55154: SHT 1-DELETED ITEM 911 FROM P/L. SHT 2-DELETED ITEM 911 FROM VIEW.	K.P. 4/29/98			NM 5/4/98

TABLE I

PN	NOUN	VOLTAGE
945167	5500A	100V
945162	5500A	120V
945170	5500A	240V

PROPRIETARY NOTICE		FLUKE CORPORATION P.O. BOX 9890 EVERETT, WA 98206-9890		IFCSM NO. 89536
THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO THE FLUKE CORPORATION, AND SHALL NOT BE USED FOR ENGINEERING DESIGN, MANUFACTURE, OR MAINTENANCE IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF THE FLUKE CORPORATION.				
CALIBRATOR				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		OWN CMNERBY	16W/294	
. XX±.02 . XXX±.010 ANGLES±1/2°		CHK T MOREY		PART NO. SEE TABLE D
		APPROV W WONG		SIZE Dwg No. 5500A
		APPROV E COLLINS	SCALE 1/1	REV 108
			SHEET 1	OF 6



NOTES: UNLESS OTHERWISE SPECIFIED

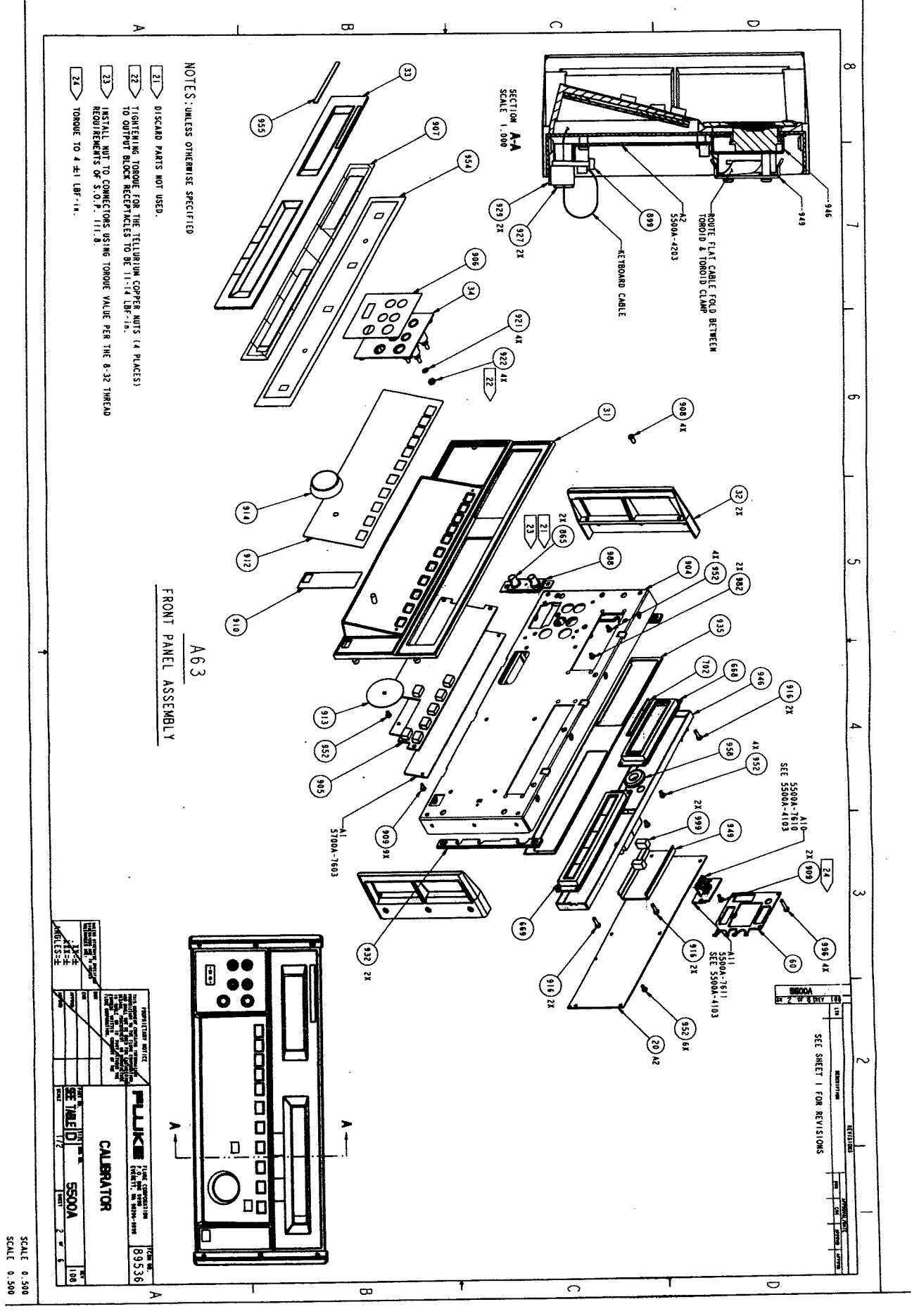
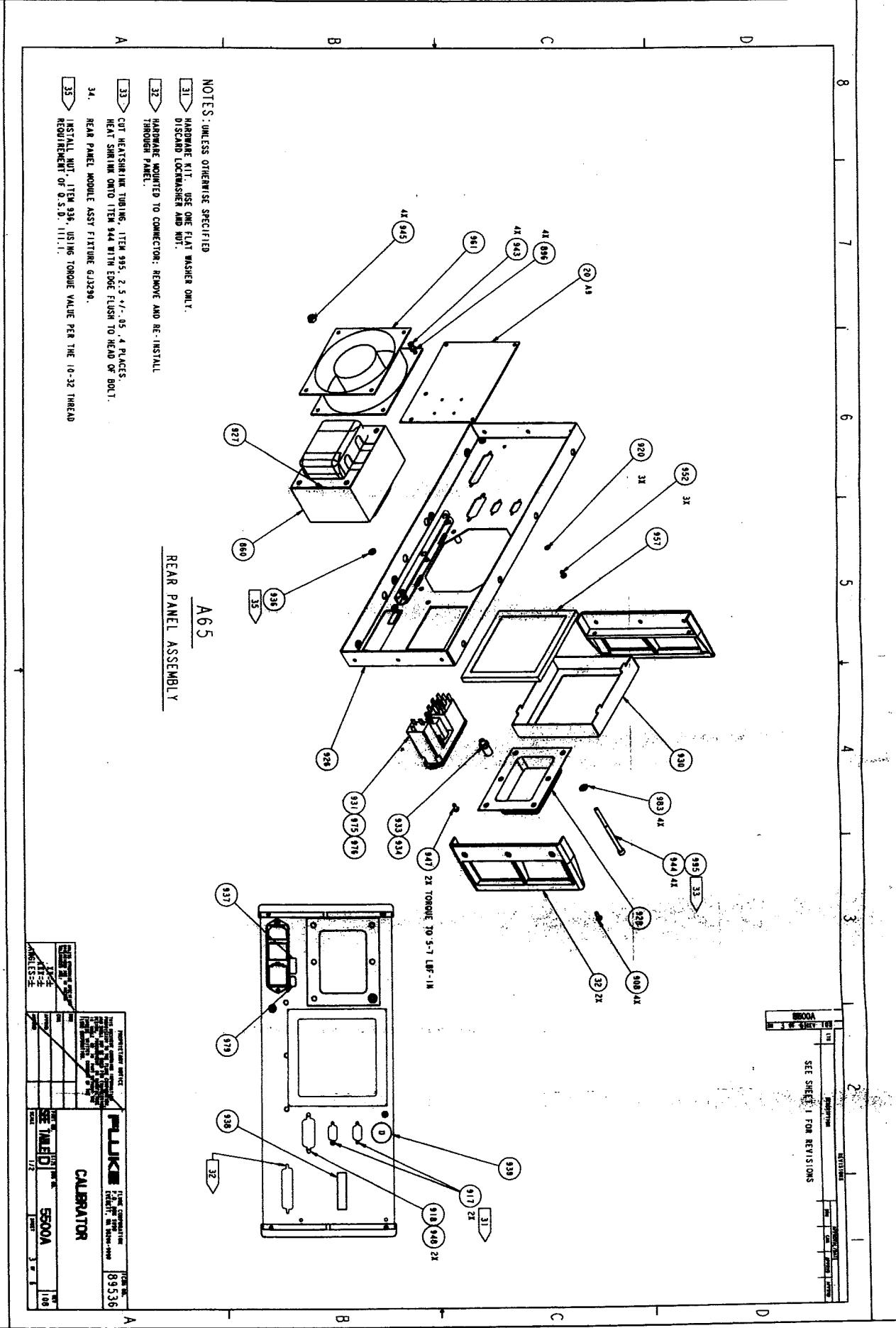
- 21 → DISCARD PARTS NOT USED.
- 22 → TIGHTENING TORQUE FOR THE TELLURIUM COPPER NUTS (4 PLACES) TO OUTPUT BLOCK RECEPTACLES TO BE 11-14 LBF-in.
- 23 → INSTALL NUT TO CONNECTORS USING TORQUE VALUE PER THE 8-32 THREAD REQUIREMENTS OF S.O.P. III.8.
- 24 → TORQUE TO  $4 \pm 1$  LBF-in.

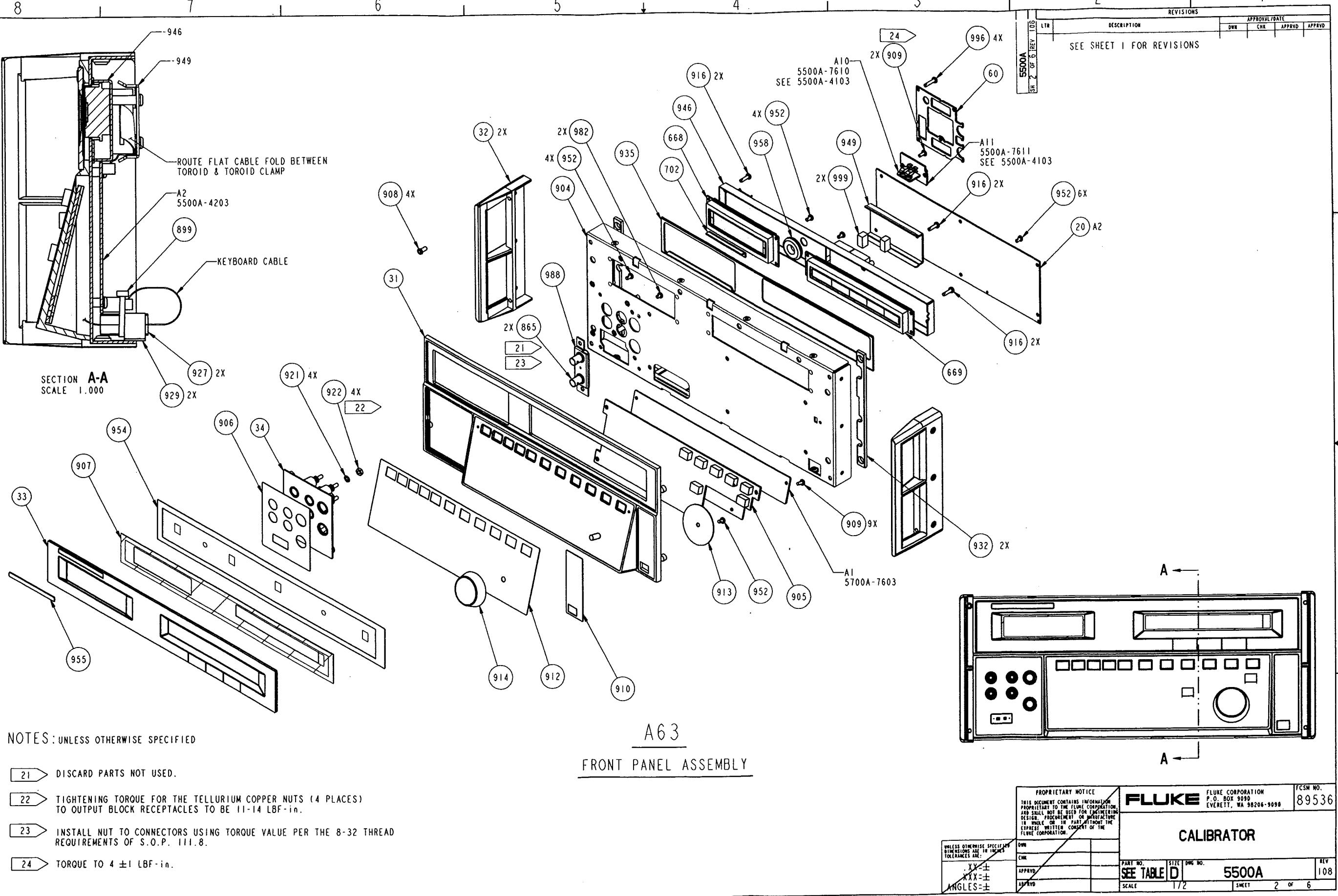
### FRONT PANEL ASSEMBLY

PROPRIETARY NOTICE THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO THE FLUKE CORPORATION AND IS EXCLUSIVELY FOR INTERNAL DESIGN, PROCUREMENT, OR MANUFACTURE IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF THE FLUKE CORPORATION.		FCM NO. FLUKE CORPORATION P.O. BOX 9090 EVERETT, WA 98206-9090 89536
CALIBRATOR		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE $\pm .005$ $\pm .010$ $\pm .015$ ANGLES = $\pm 10^\circ$ APPROV'D APPROV'D APPROV'D		REV 108 PART NO. 5500A SIZE 1/2 Dwg No. 5500A SCALE 1/2 SHEET 2 OF 6

SCALE 0.500  
SCALE 0.500







SCALE 0.500  
SCALE 0.500

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

NOTES: UNLESS OTHERWISE SPECIFIED

11. INSTALL ITEM NO. 838 ON 100V & 120V UNITS ONLY.
  12. INSTALL ITEM NO. 858 ON 240V UNITS ONLY.
  13. ASSEMBLE PER WORKMANSHIP QSD LLL I

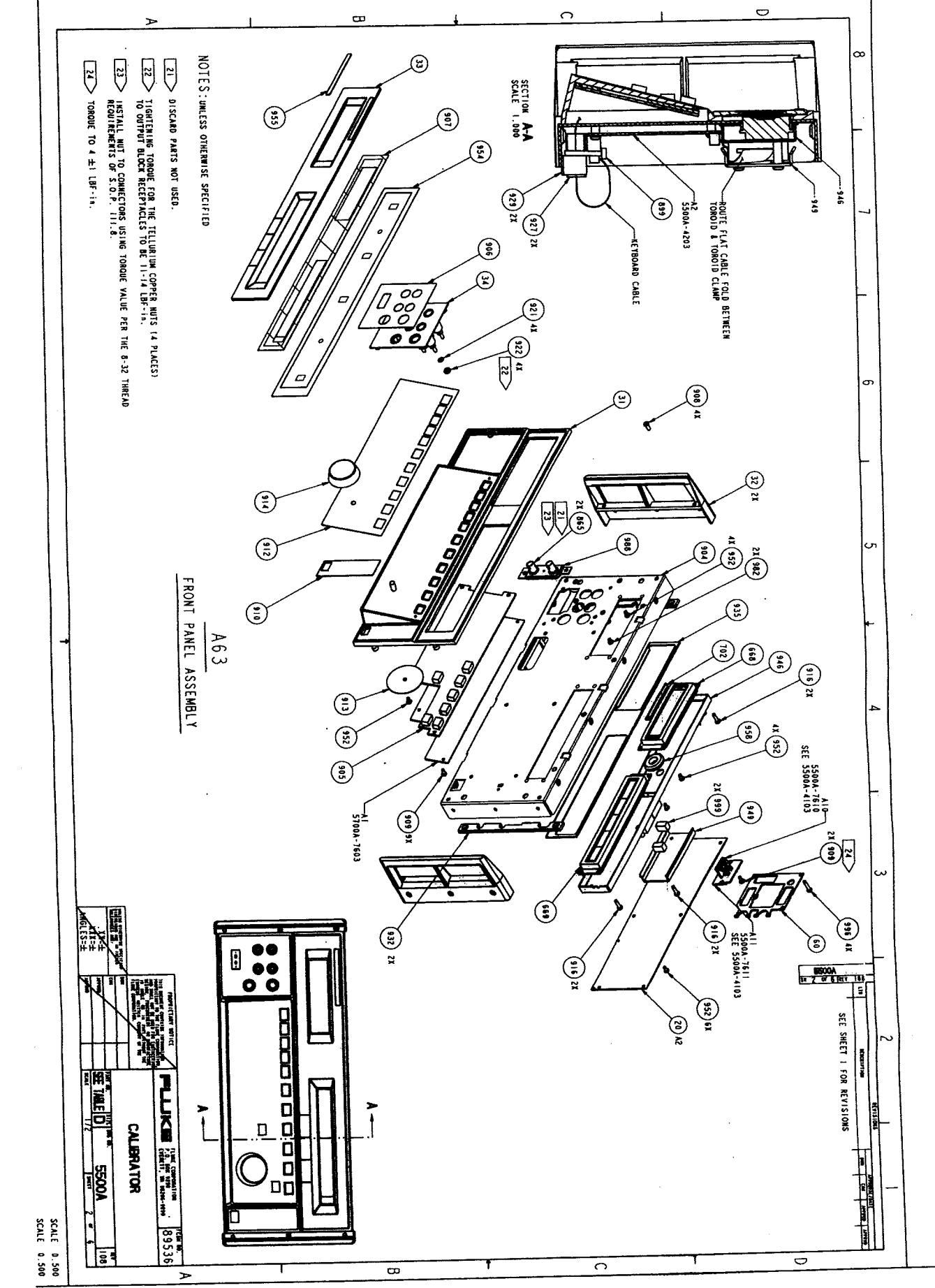
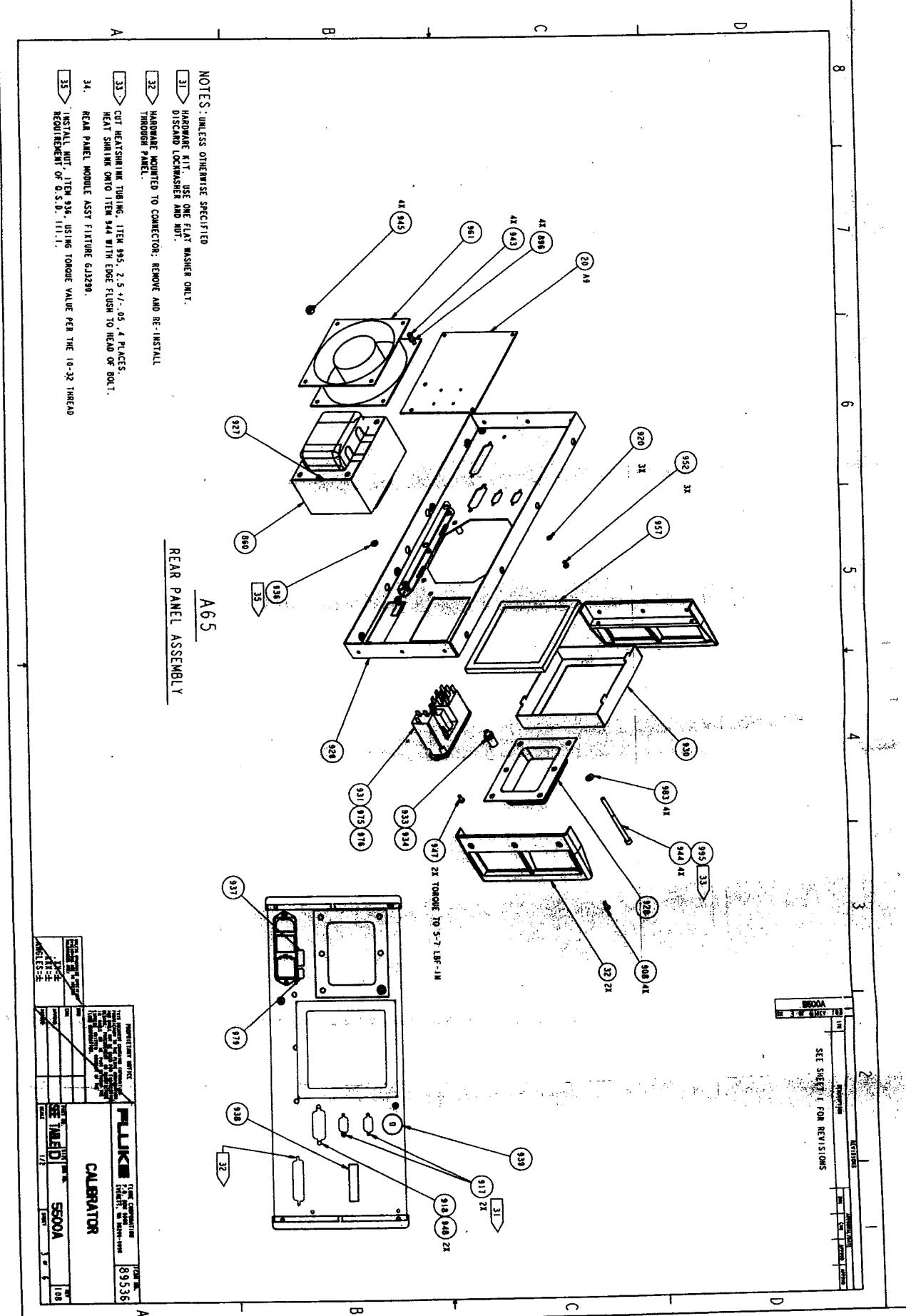
LTR	DESCRIPTION	APPROVAL/DATE			
		DNN	CHE	APPRVD	APPR
AA	55629: SHT 1-ADDED ITEM 37. ITEM 961 P/N WAS 881789.	K.P. 8/28/98			DJ 9/3/98
AB	56001: SHT 1-ITEM 988 WAS P/N 945451, HOUN WAS 5500A-2022.	K.P. 12/15/98			DJ 12/18/98
AC	56015: SHT 1-ITEM 967 P/N WAS 407908. ITEM 970 QTY WAS 9. SHT 6 (ZND7) DELETED ITEM 970, 3X. DELETED F/N 64.	K.P. 12/15/98			DJ 12/18/98
AD	S6084: SH 1 DELETED ITEM 20, ADDED ITEMS 1-5.	LJP 1/6/99			NH 1/7/99
100	W1002122: SEE PDM RECORD FOR DESCRIPTION OF REVISION.				
101	W1003160: SEE PDM RECORD FOR DESCRIPTION OF REVISION.				
102	W1005654: SEE PDM RECORD FOR DESCRIPTION OF REVISION.				
103	W1009672: SEE PDM RECORD FOR DESCRIPTION OF REVISION.				
104	W1010156: SEE PDM RECORD FOR DESCRIPTION OF REVISION.				
105	W1011660: SEE PDM RECORD FOR DESCRIPTION OF REVISION.				
106	W1010903: SEE PDM RECORD FOR DESCRIPTION OF REVISION.				
107	W1013847: SEE PDM RECORD FOR DESCRIPTION OF REVISION.				
108	W1016092: SEE PDM RECORD FOR DESCRIPTION OF REVISION.				

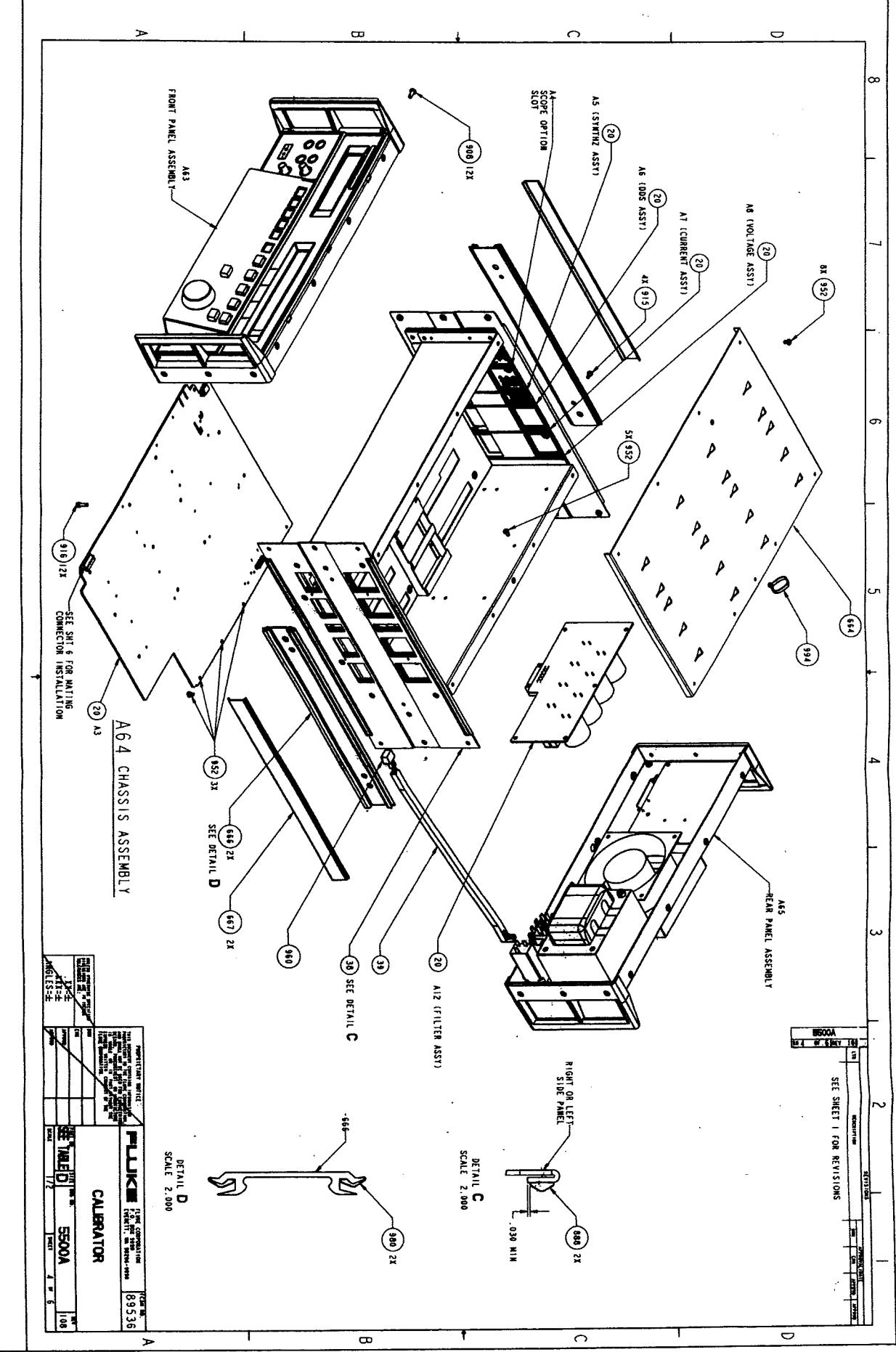
REVISIONS						
L/N SH OF 6 REV 08	DESCRIPTION	APPROVAL/DATE				
		DNR	CHK	APPROV	APPRVD	
-	RELEASE TO PRE PILOT	MN	TM	WW	EC	
A	REVISED ALL SHTS. ADDED SHT 6 RELEASE TO PILOT RUN 6/27/94	RG	DP TM	WW 6/28/94	EC 6/30/94	
B	INCORP ECO'S 5500A-18, 5500A-P20, 5500A-P25, 5500A-P49. ON SHT 1, DELETED ITEM 927. ADDED ITEMS 994. ITEM 858 WAS 851, NOTE 11 WAS 851; ITEM 952 QTY WAS 35 ON SHT 3, MOVED ITEM 937 ON SHT 4, ADDED ITEM 994 AND ITEM 952, 3 PL ON SHT 5, ADDED ITEM 939	RG 10/24/94	TM 11/1/94	WW 11/1/94	EC 11/1/94	
C	INCORP ECO 5500A-114 RELEASE TO DOCUMENT CONTROL	RG 11/15/94	TGM 11/16/94	WW 11/21/4	EC 11/21/4	
C1	INCORP DCO 50661 REVISED NOTES 11 & 12	RG 1/16/95	DP 1/24/95	WB 1/25/95	EC 1/25/95	
D	INCORP DCO 50714 REVISED ITEMS 838, 858 & 939 DELETED ITEMS 897, 898 & 899 INCORP DCO 50785 REVISED ITEM 918	RG 1/16/95	DP 1/24/95	WB 1/25/95	EC 1/25/95	
E	INCORP DCO 51014 ADDED ITEM 896 & NOTE 13 ADDED ITEM 896 TO SHT 3 ADDED FLAGNOTE 24 TO SHT 2	RG 4/3/95	TGM 5/2/95	DLD 5/4/95	ECC 5/2/95	
F	INCORP DCO 51042 ADDED ITEMS 895 & 970 REVISED SHTS 4 & 6	RG 4/3/95	TGM 5/2/95	DLD 5/4/95	ECC 5/2/95	
G	INCORP DCO 51056 ADDED ITEM 894 TO P/L & SHTS 3 & 6 ADDED NOTE 62 TO SHT 6	RG 4/3/95	TGM 5/2/95	DLD 5/11/95	ECC 5/10/95	
H	INCORP DCO 51159 DELETE ITEM 894 (DCO 51056)	RG 4/3/95	TGM 5/2/95	DLD 5/11/95	ECC 5/10/95	
J	51749: SHT 1-ADDED ITEM 894. REVISED NOTE 13. ADDED NOTE 14.	K.P. 8/9/95			LAH 8/22/95	
K	52077: SHT 1-ADDED ITEM 980. QTY OF ITEM 970 WAS 6. SHT 4-ADDED VIEW OF ITEM 980 ZONE B5 & 4. SHT 6-REVISED VIEW ZONE C & D-7. ADDED F&M 64.	WKC 11/7/95			TD 11/10/95	
L	52174: SHT 1-ADDED ITEM 979. SHT 3- (ZN83) ADDED ITEM 979 TO VIEW.	K.P. 1/10/96			TD 1/12/96	
M	52524: SHT 1-ADDED ITEM 801 TO P/L. SHT 6 (ZN83) ADDED ITEM 801 TO VIEW.	K.P. 3/22/96			LAH 3/29/96	
N	52559: SHT 1-ADDED ITEM 903 TO P/L.	K.P. 3/22/96			LAH 3/29/96	
P	52594: SHT 1-ADDED ITEM 888. ITEM 980 WAS P/N 600665. SHT 4-ADDED DETAILS C & D.	K.P. 5/6/96			TD 5/15/96	
R	52649: SHT 1-DELETED ITEM 935 FROM P/L SHT 3-DELETED ITEM 935 FROM VIEW.	K.P. 5/6/96			TD 5/15/96	
T	53729: SHT 1-ADDED ITEMS 899, 927, 929, 932, 935, 946, 949, 958, 967 & 999. ITEM 916 QTY WAS 12. ITEM 952 QTY WAS 38. DELETED NOTE 14. SHT 2-UPDATED VIEW PER P/L CHANGES. ADDED SECTION A-A. SHT 5-ADDED ITEM 967 TO VIEW. 53809: SHT 1-ITEM 999 WAS P/N 358341. SHT 2-UPDATED VIEW.	K.P. 7/29/97			TD 7/30/97	
U	54331: SHT 1-ITEM 662 WAS P/N 937073. DWG. NO. WAS 5500A-2005. ITEM 663 WAS P/N 937078, DWG. NO. WAS 5500A-2006.	9/26/97			TD 9/29/97	
V	54367: SHT 1-ITEM 944 WAS P/N 944459. DELETED ITEM 995. 54376: SHT 1-ADDED ITEM 702. SHT 2-ADDED ITEM 702 TO VIEW.	K.P. 10/21/97			TD 10/21/97	
W	54836: SHT 1-ITEM 946 WAS P/N 621976. DWG. NO. WAS 5500A-2048. 54862: SHT 1-ITEM 946 REF DES WAS A63MP030.	K.P. 2/10/98			TD 2/19/98	
Y	55154: SHT 1-DELETED ITEM 911 FROM P/L. SHT 3-DELETED ITEM 911 FROM VIEW.	K.P. 5/14/98			NN 5/14/98	

TABLE I

PN	NOUN	VOLTAGE
945167	5500A	100V
945162	5500A	120V
945170	5500A	240V

PROPRIETARY NOTICE		FLUKE CORPORATION P.O. BOX 9890 EVERETT, WA 98206-9890		FCSN NO. <b>89536</b>
<p>THIS DOCUMENT CONTAINS INFORMATION PURPOSED TO BE PROPRIETARY AND CONFIDENTIAL AND SHALL NOT BE USED FOR THE DESIGNING, DESIGN, PROCUREMENT OR MANUFACTURE IN WHOLE OR IN PART WITHOUT THE WRITTEN WRITTEN CONSENT OF THE FLUKE CORPORATION.</p>				
<b>CALIBRATOR</b>				
UNLESS OTHERWISE SPECIFIED STANDARD TOLERANCES ARE:		DRAWN BY <b>CMNERBY</b>	16N4894	
		CHK'D BY <b>T MOREY</b>		
$\pm .005$ $\pm .010$ $\pm 1/2^\circ$		APPROVED BY <b>W WONG</b>		PART NO. <b>SEE TABLE D</b>
		APPROVED BY <b>E COLLINS</b>		SIZE <b>5500A</b>
			REV. <b>108</b>	SCALE <b>1/1</b>
			SHEET <b>1 OF 6</b>	

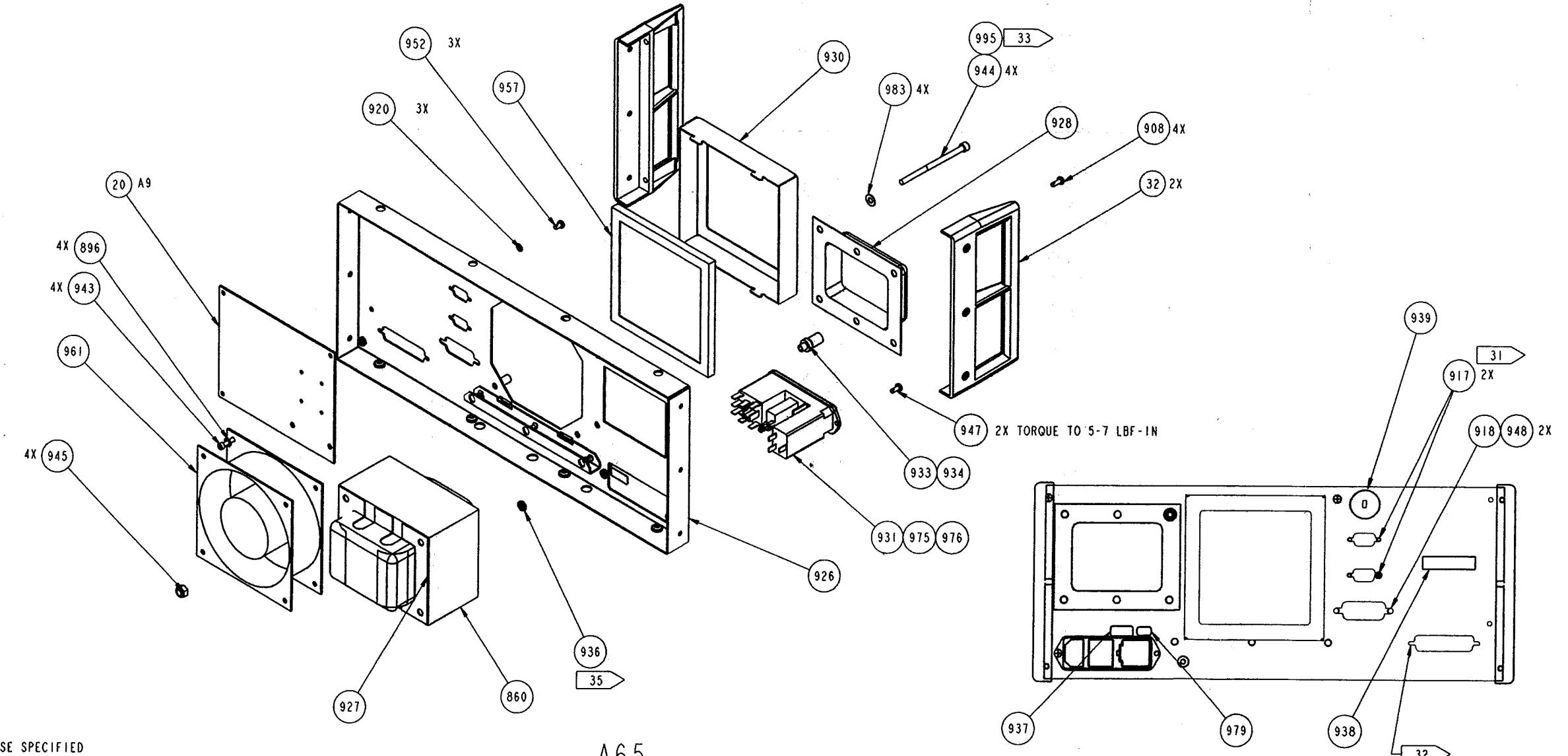




TABLE

8 7 6 5 4 3 2

REVISIONS		APPROVAL/DATE			
LTR	DESCRIPTION	DW	CHE	APPRVD	APPRVD
5500A SH 3 OF 6 REV 108				SEE SHEET 1 FOR REVISIONS	



NOTES: UNLESS OTHERWISE SPECIFIED

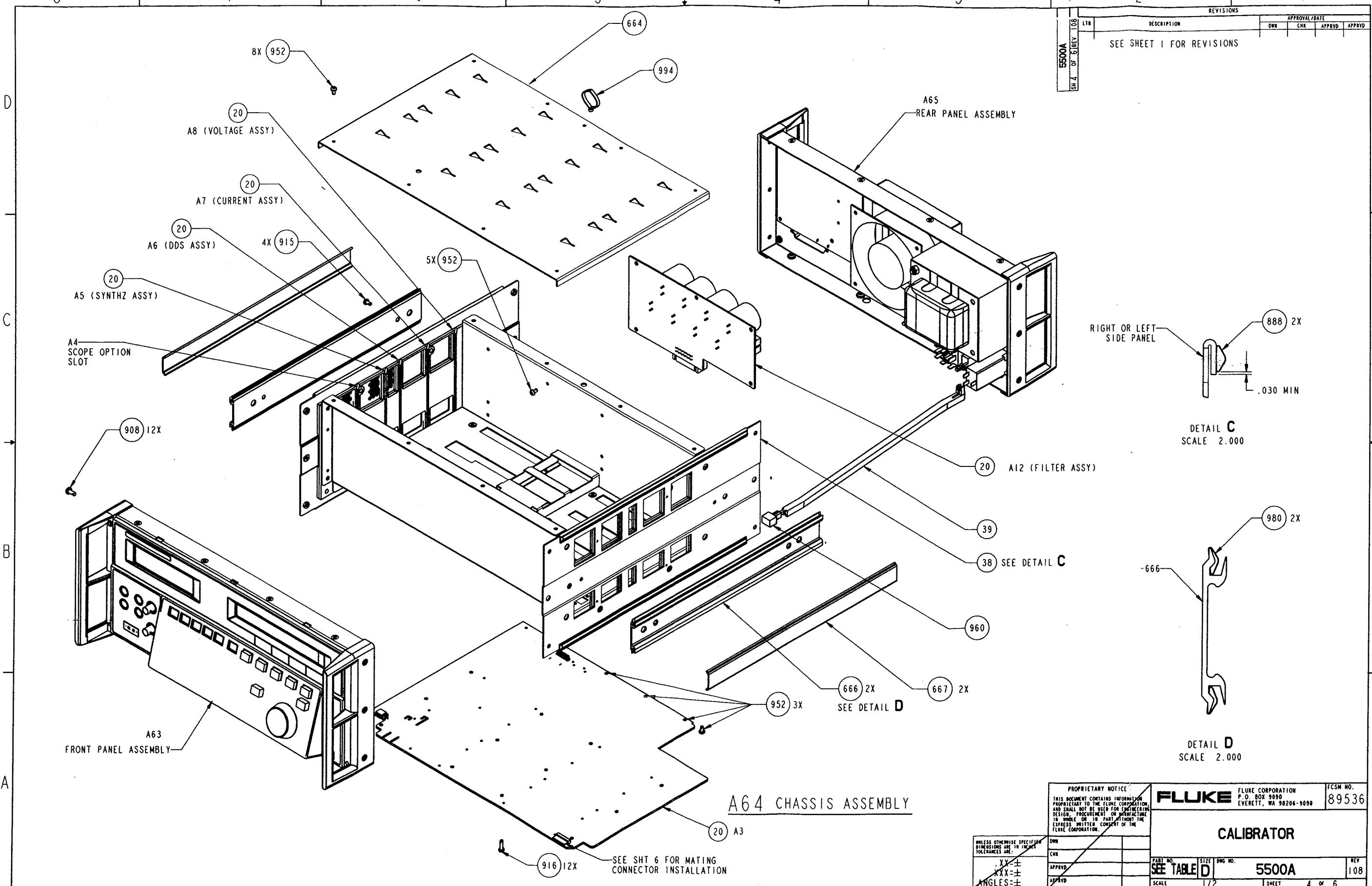
- 31 HARDWARE KIT. USE ONE FLAT WASHER ONLY.  
DISCARD LOCKWASHER AND NUT.
- 32 HARDWARE MOUNTED TO CONNECTOR; REMOVE AND RE-INSTALL  
THROUGH PANEL.
- 33 CUT HEATSHRINK TUBING, ITEM 995,  $2.5 \pm .05$ , 4 PLACES.  
HEAT SHRINK ONTO ITEM 944 WITH EDGE FLUSH TO HEAD OF BOLT.
- 34 REAR PANEL MODULE ASSY FIXTURE GJ3290.
- 35 INSTALL NUT, ITEM 936, USING TORQUE VALUE PER THE 10-32 THREAD  
REQUIREMENT OF Q.S.D. III.I.

A65

REAR PANEL ASSEMBLY

PROPRIETARY NOTICE		FLUKE CORPORATION			
THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO THE FLUKE CORPORATION. AND IS RESTRICTED FROM DISCLOSURE, COPIING, DESIGN, PROCESSMENT OR MANUFACTURE IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF THE FLUKE CORPORATION.		FCSN NO. 89536			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		FLUKE		P.O. BOX 9890 EVERETT, WA 98206-9890	
XX-±					
XXX-±					
ANGLES-±					
APPROV				PART NO. SEE TABLE D	SIZE DW NO. 5500A
APPROV				APPROV	REV 108
APPROV				SCALE 1/2	SHEET 3 or 6

CALIBRATOR

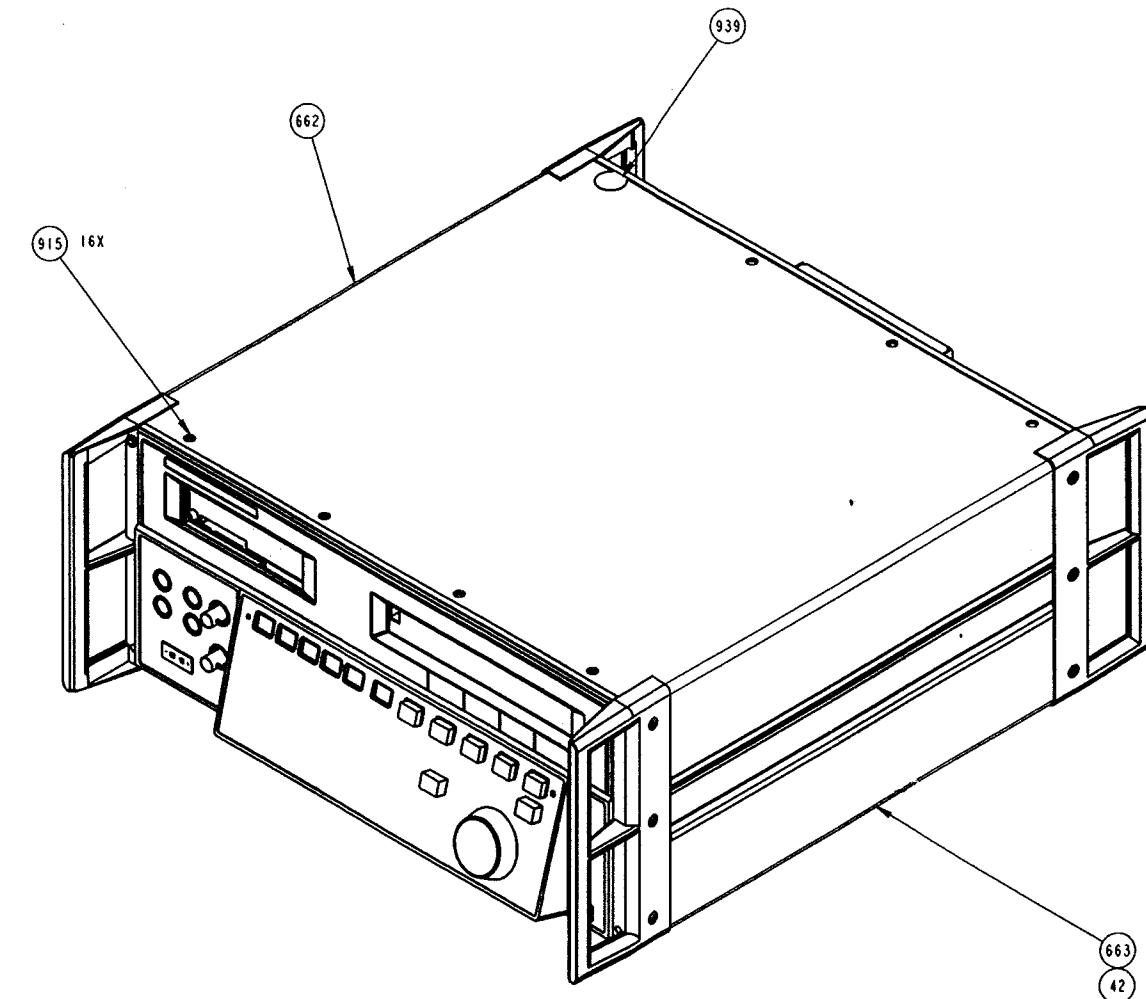


8 7 6 5 4 3 2 1

NOTES: UNLESS OTHERWISE SPECIFIED

SI. FINAL TEST PER 5500A-151.

REVISIONS		APPROVAL/DATE			
LTR	DESCRIPTION	DW	CHE	APPROV	APPROV
5500A SH 5 OF 6 REV 108	SEE SHEET I FOR REVISIONS				



FINAL ASSEMBLY

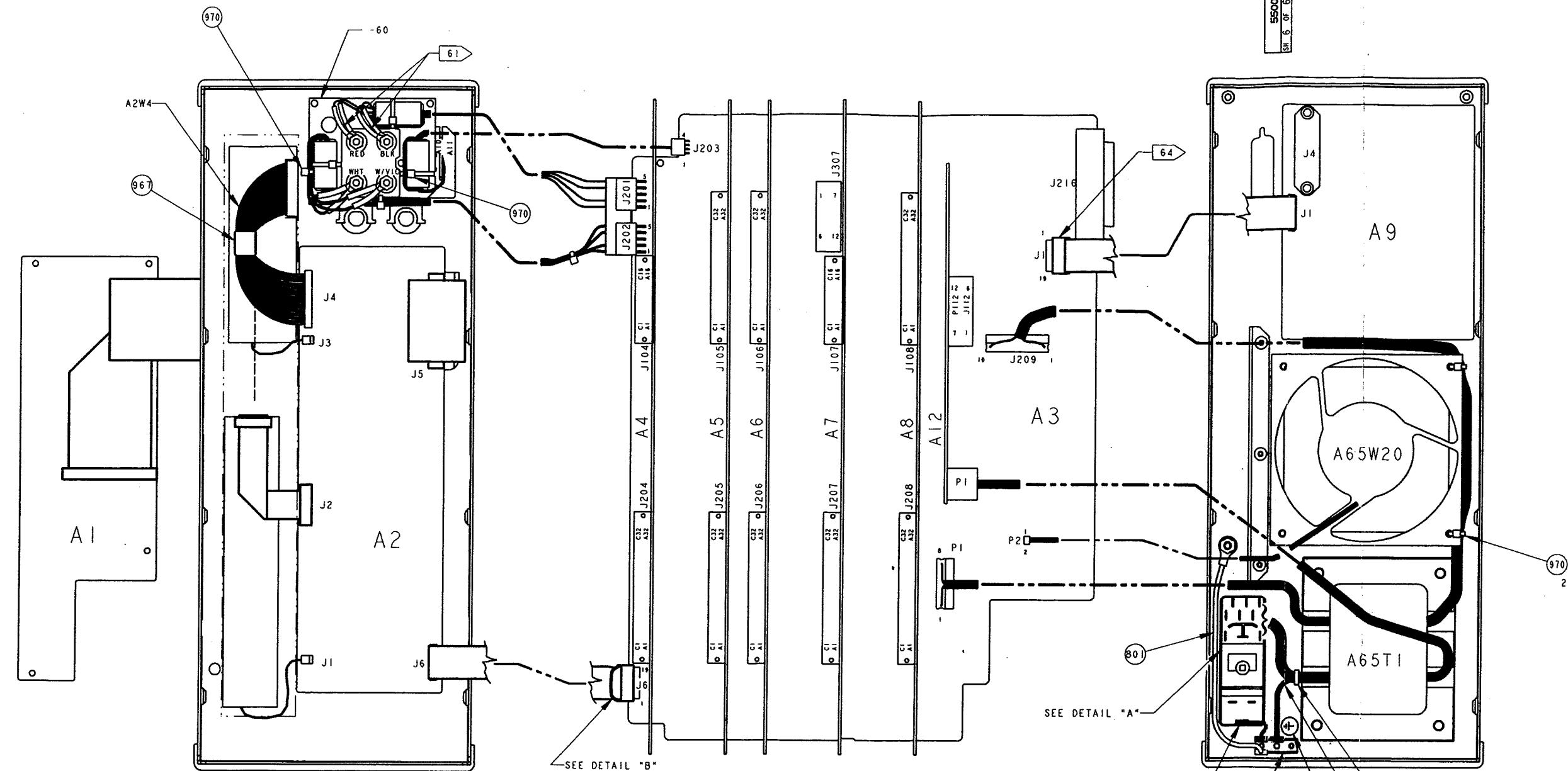
PROPRIETARY NOTICE		FLUKE CORPORATION		FCSN NO.
THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO THE FLUKE CORPORATION. IT IS NOT TO BE COPIED OR DISCLOSED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE FLUKE CORPORATION.		P.O. BOX 9090		89536
		EVERETT, WA 98206-9090		
CALIBRATOR				
<small>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES TOLERANCES ARE: YY = ± XX = ± ANGLES = ±</small>		DW	CHE	
		APPROV	APPROV	
		APPROV	APPROV	
PART NO.	SEE TABLE	SIZE	DWG NO.	REV
		D	5500A	108
SCALE	1/2	SHEET	5 OF 6	

8 7 6 5 4 3 2

SEE SHEET I FOR REVISIONS

5500A  
SH 6 OF 108

APPROVAL/DATE			
DWN	CHK	APPRVD	APPRVD



8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

NOTES: UNLESS OTHERWISE SPECIFIED

21 IF ITEM 613254 IS USED ON A 5500A USE ITEM 6.  
IF USED ON A 5520A USE ITEM 5.

D

D

C

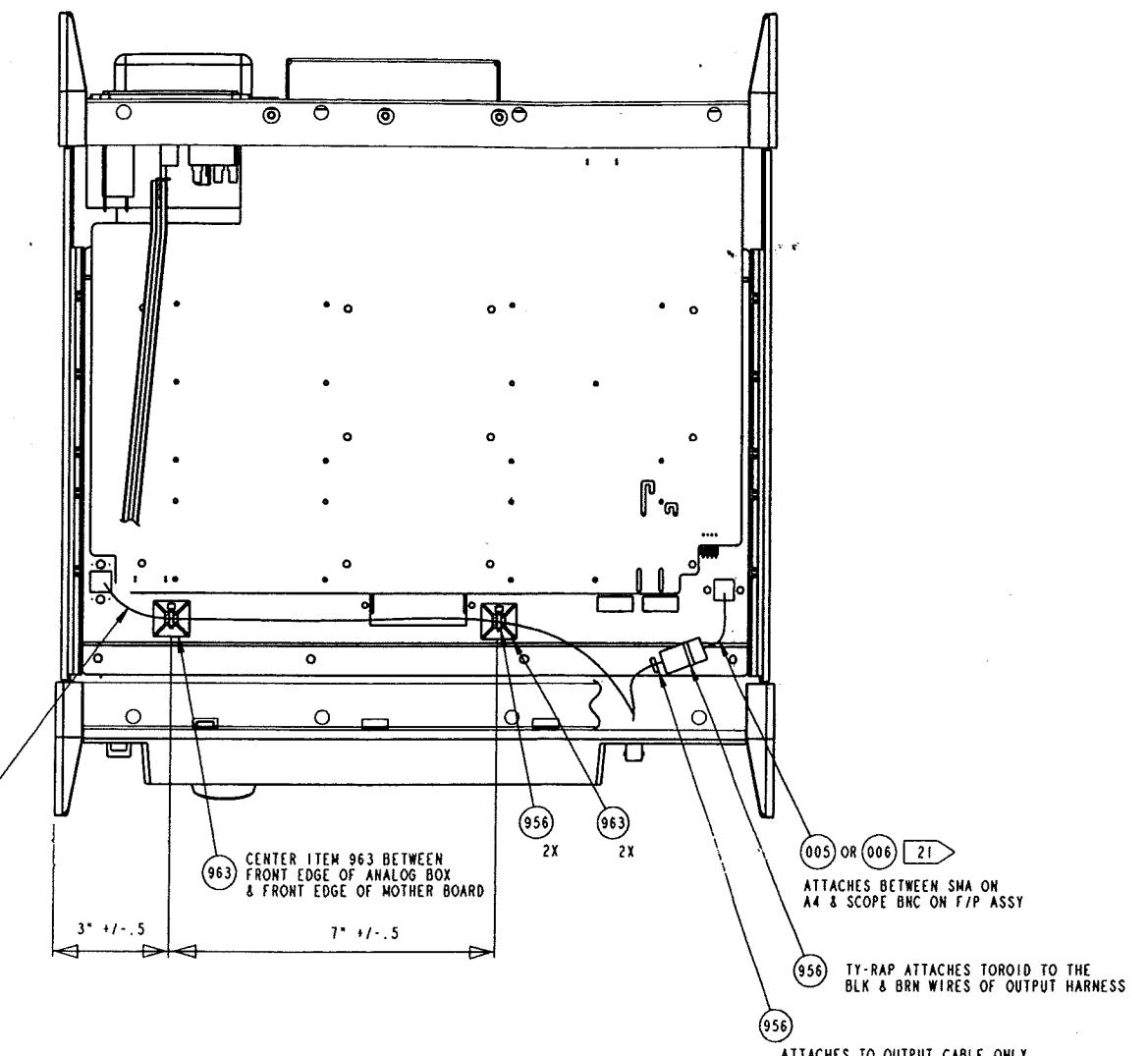
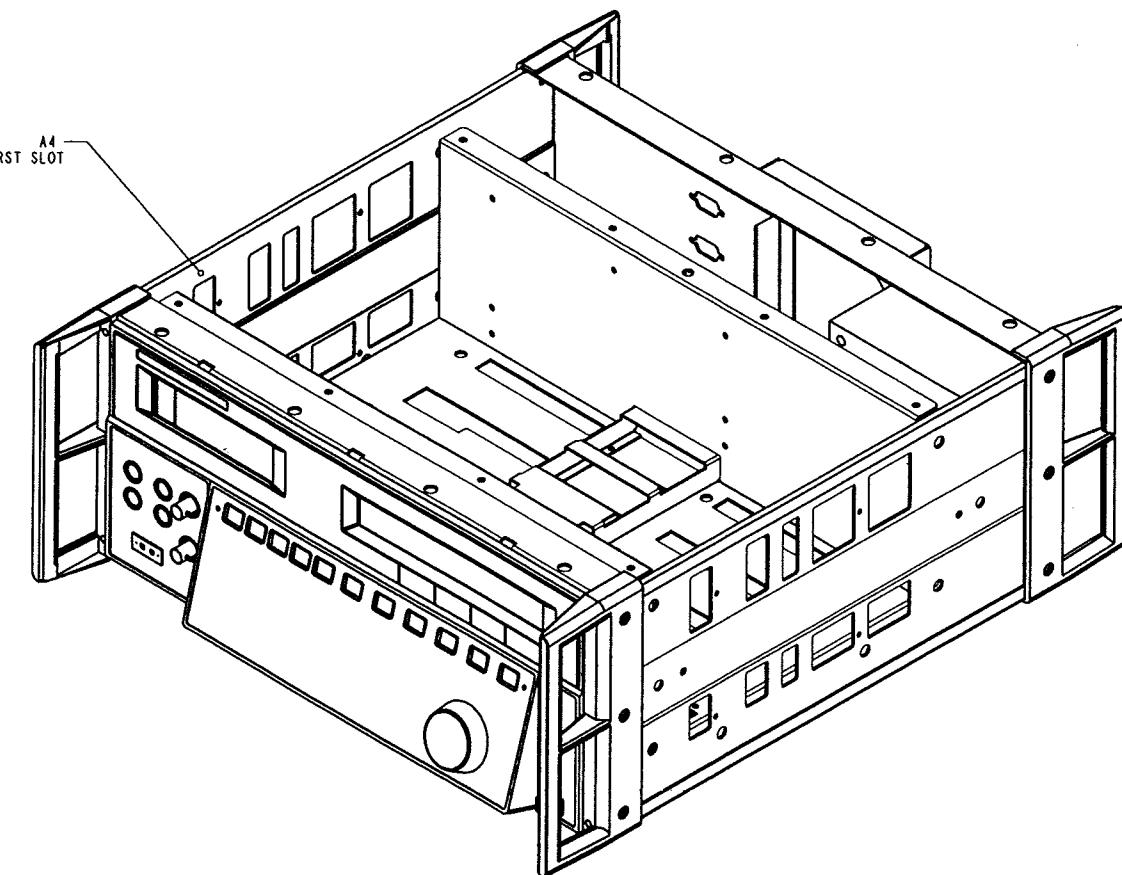
C

B

B

A

A



PROPRIETARY NOTICE		FLUKE CORPORATION		FCM NO.
THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO FLUKE CORPORATION, AND SHALL NOT BE USED FOR ENGINEERING, DESIGN, PROCUREMENT, OR MANUFACTURE OF EQUIPMENT, OR IN ANY OTHER WAY, EXCEPT WITH THE EXPRESS WRITTEN CONSENT OF THE FLUKE CORPORATION.		P.O. BOX 5090 EVERETT, WA 98206-5090		89536
<b>OSCILLOSCOPE CALIBRATION OPTION</b>			PART NO.	SIZE
613254	D	5500A-SC600	ACV	105
SCALE 1/1	SHEET 2 OF 2			

TES: UNLESS OTHERWISE SPECIFIED

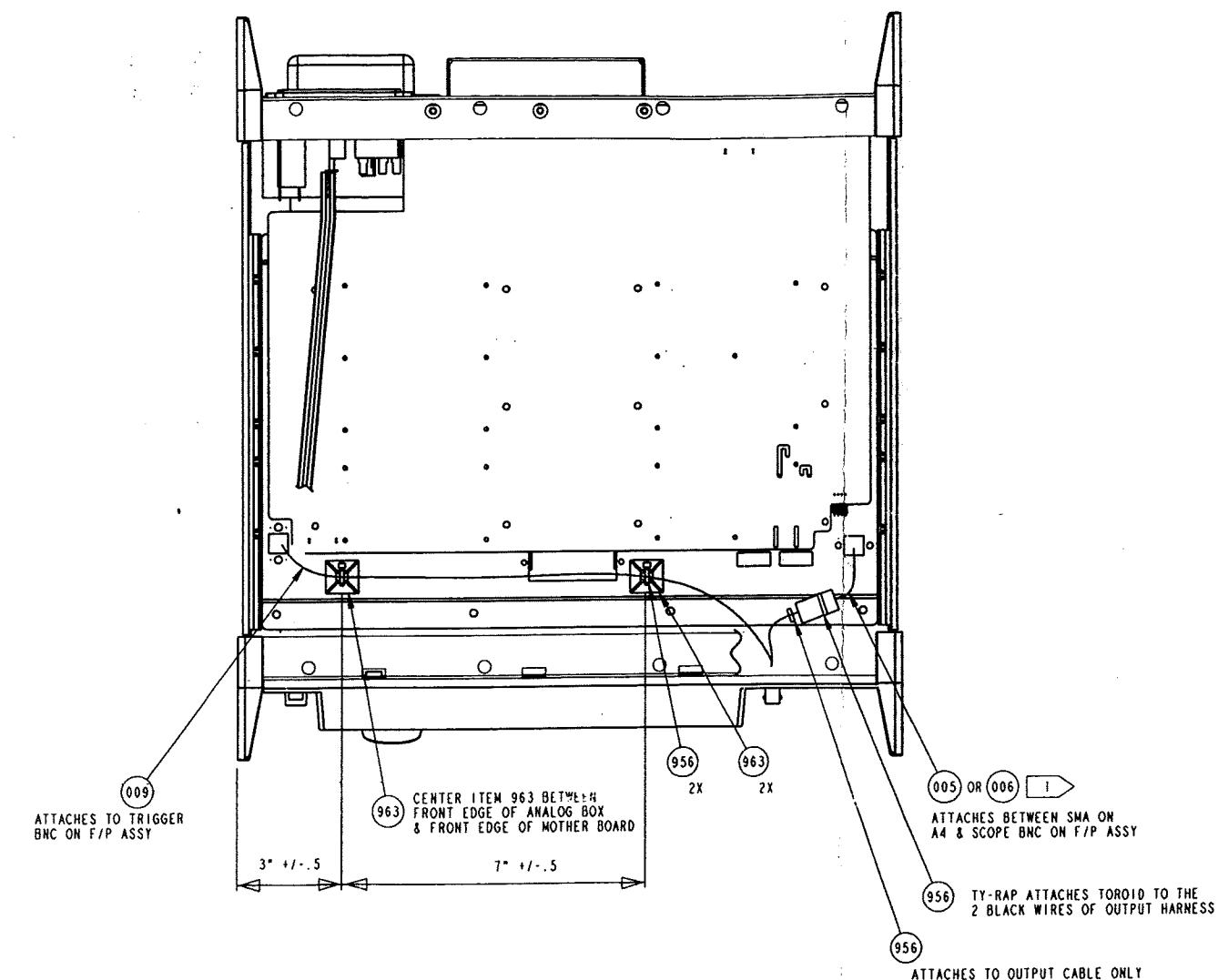
1 IF ITEM 945290 IS USED IN A 5500A USE ITEM 6.  
IF USED IN A 5520A USE ITEM 5.

A technical line drawing of a multi-slot electronic chassis, likely a rack-mounted unit. The front panel features several circular ports and a row of rectangular cutouts. The interior is divided into multiple horizontal slots, with the top slot being labeled 'A4 FIRST SLOT'. The chassis is shown from a three-quarter perspective, highlighting its modular design and internal structure.

LNR	DESCRIPTION	APPROVAL/DATE			
		DWN	CHK	APPRVD	APPRVQ
E	55508 & 55523: SHT 1-ADDED F/N 13. SHT 2-ADDED F/N 13 TO PLAN VIEW. SHT 3-ADDED ITEM 35 TO P/L & VIEW.	K.P. 7/10/98			TD 7/13/98
F	55688: DELETED F/N 13.	K.P. 9/3/98			N.M. 9/6/98
G	56002: DELETED SHT 1 & RENUMBERED REMAINING SHT'S. PART NO. WAS "TABLED". DELETED ITEM 930 & F/N 21. REVISED F/N 41.	K.P. 12/22/98			
100	SEE PDW RECORD FOR DESCRIPTION OF REVISION.				
101	W1004541: SEE PDW RECORD FOR DESCRIPTION OF REVISION.				
102	W1005654: SEE PDW RECORD FOR DESCRIPTION OF REVISION.				
103	W1008566: SEE PDW RECORD FOR DESCRIPTION OF REVISION.				
104	W1011237: SEE PDW RECORD FOR DESCRIPTION OF REVISION.				

REVISIONS CONT'D ON SHEET 2

L/T/R REV 16 SHEET 1 OF 2	DESCRIPTION	APPROVAL/DATE			
		DWV	CHR	AFPD	AFVD
	RELEASE TO PILOT BUILD.	D. P. 5-9-95	-	-	-
A	DELETED ITEM 952 2PL, DELETED ITEM 907 OH PARTS LIST AND ISO VIEW ON SHEET 2. ADDED ITEM 902 2PL, ADDED ITEM 912 4PL ADDED ITEM 20, RELEASE TO PILOT II BUILD.	D. P. 7-13-95	T. M. 7-13-95	T. S. 7-13-95	E.C. 7-12-95
B	REVISED NOTE 4. ADDED ITEMS 914, 955, 957, 958 & 973. RELEASE TO DOCUMENT CONTROL.	X.T. 8-14-95	T.GH 9-15-95	T.S. 9-15-95	ECC 9-15-95
B1	S2893: ADDED ITEM 961 TO P/L. DELETED NOTE 1. REVISED NOTE 2 & F/N 12.	K.P. 6/10/96	-	-	TD 6/11/96
C	53472: ITEM 916 WAS P/M 320051. ITEM 950 WAS P/M 412841. DELETED NOTE 9 PERTAINING TO DATABASE.	K.P. 12/31/96	-	-	TD 1/2/97
D	55478: DRAWING HOUN WAS 5500A-SC. SHT 1-ADDED P/M TABLE. ADDED F/N 1. ADDED ITEMS 5, 956 & 963. DELETED ITEMS 8 & 914. SHT 2-ADDED F/N 21. REVISED PLAN VIEW. ADDED SHEET 3.	K.P. 7/7/98	-	-	TD 7/8/98



**PROPRIETARY NOTICE**

THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO THE FLUKE CORPORATION AND SHALL NOT BE USED FOR ENGINEERING DESIGN, PROCUREMENT, OR MANUFACTURE UNLESS OTHERWISE PART OF THE EXPRESS WRITTEN CONSENT OF THE FLUKE CORPORATION.

**FLUKE** FLUKE CORPORATION P.O. BOX 9090 EVERETT, WA 98204-9090 FCSM NO. 89536

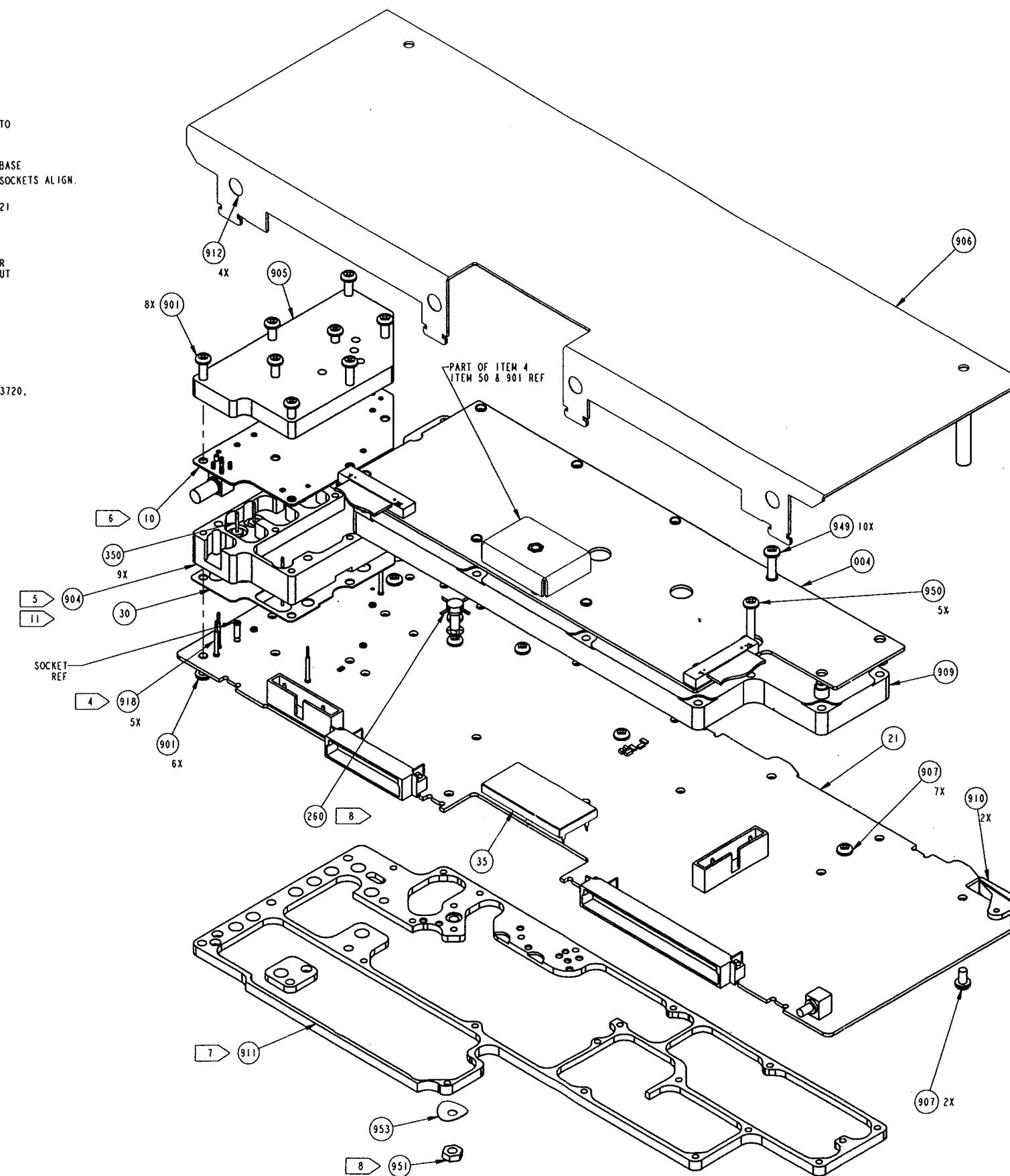
## OSCILLOSCOPE CALIBRATION OPTION

PART NO.	SIZE	DRG. NO.	REV
<b>945290D</b>	<b>5500A-SC300</b>		<b>105</b>
SCALE	1/1	SHEET	1 OF 2

A horizontal number line with tick marks every 1 unit, ranging from 8 on the left to 1 on the right. The tick marks are labeled 8, 7, 6, 5, 4, 3, 2, and 1. A small downward-pointing arrow is positioned directly above the tick mark for the number 4.

NOTES: UNLESS OTHERWISE SPECIFIED

2. ASSEMBLE PER WORKMANSHIP Q.S.D. III.I.
  3. FINAL TEST PER 151 TEST PROCEDURE.
  4. SWAGE GOLD PINS IN PLACE. (GJ 3313 ANVIL AND GJ 3309 PUNCH MAY BE USED).
  5. ADD ITEM 350 FILTER, TORQUE TO 4-5 IN LBS PRIOR TO INSTALLING ITEM 904 BASE TO ITEM 21 MAIN BOARD.
  6. INSTALL ITEM 10 ATTENUATOR BOARD AFTER ITEM 904 BASE INSTALLATION TO MAIN BOARD. INSURE ALL PINS AND SOCKETS ARE SECURED.
  7. INSTALL ITEM 911 MACHINED BOTTOM SHIELD TO ITEM 21 CIRCUIT 1 SIDE USING ITEM 901 SCREW 7 PLACES.
  8. INSTALL ITEM 260 TRANSISTOR AFTER INSTALLING 911 PER NOTE 7. PREP AND CORRECTLY ORIENT TRANSISTOR FOR SOLDERING LEADS PRIOR TO TORQUING ITEM 951 NUT TO 5-7 INCH LBS.
  - 10.
  11. PRINT SERIAL NUMBER ON ITEM 959 AND PLACE LABEL ON OUTSIDE EDGE OF ITEM 904.
  12. PRINT SERIAL NUMBER ON ITEM 959 AND PLACE LABEL ON ITEMS 3 AND 4.  
REFERENCES MODEL BOMS 673707, 673715, 673723, 673720, 673712 AND 673731.



10

**FLUKE** FLUXE CORPORATION P.O. BOX 9090 EVERETT, WA 98206-8000 FCSM NO. 89536

## **OSCILLOSCOPE CALIBRATION OPTION**

PROPRIETARY NOTICE		FLUKE CORPORATION P.O. BOX 9090 EVERETT, WA 98206-9090	FCM NO. 89536		
THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO THE FLUKE CORPORATION. IT SHALL NOT BE USED FOR ENGINEERING DESIGN OR RESEARCH, OR MADE AVAILABLE IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF THE FLUKE CORPORATION.					
DNN	D. PEARSON	5-9-95			
CHE	T. MOREY	5-9-95			
APV	T. SHEFFER	5-9-95			
APV	E. COLLINS	5-9-95			
		SCALE 1/1	SHEET 1 OF 2		
OSCILLOSCOPE CALIBRATION OPTION		PART NO.	SIZE	DRG. NO.	REV
		613254D		5500A-SC600	105

8

7

6

5

4

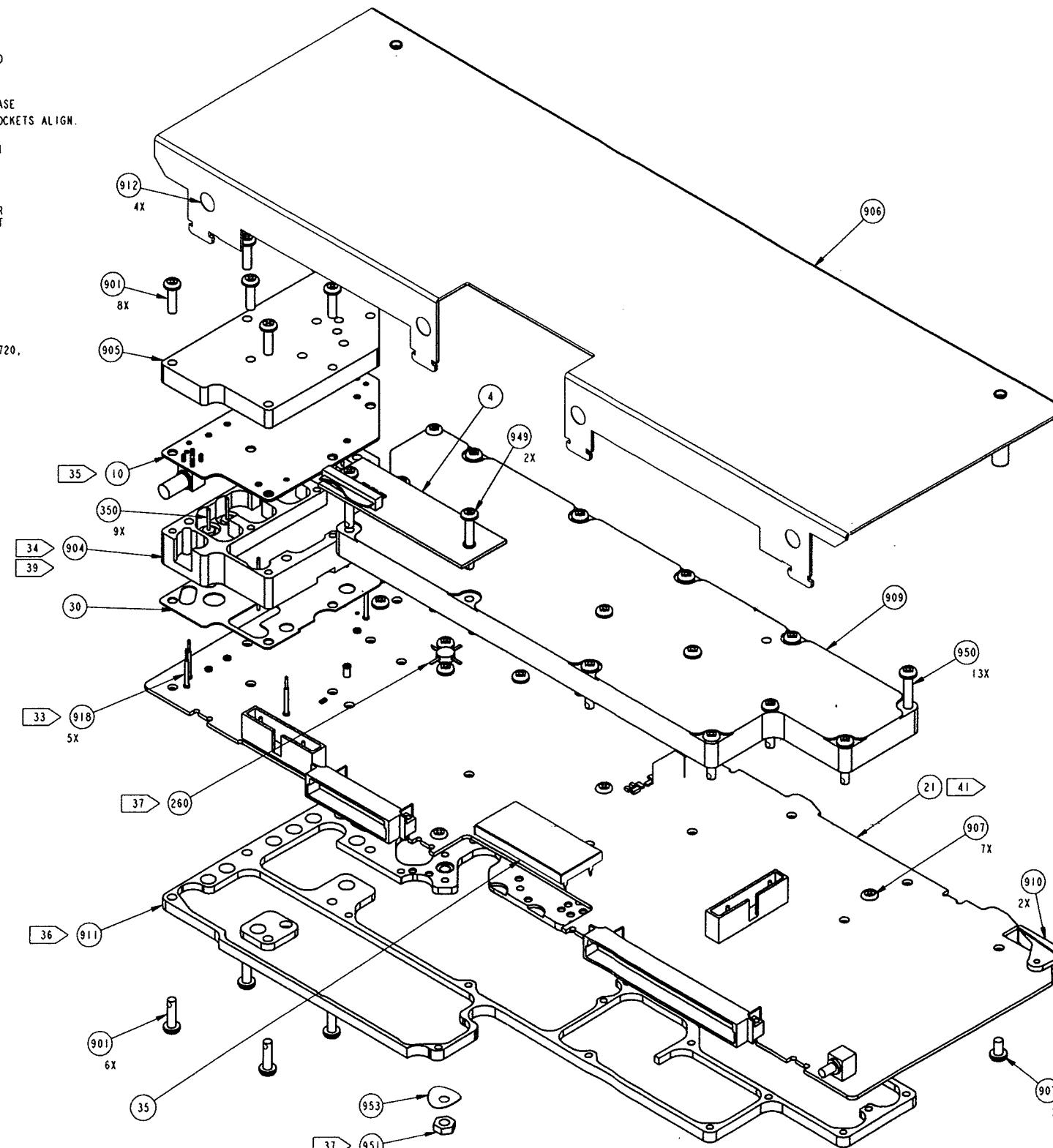
3

2

1

NOTES: UNLESS OTHERWISE SPECIFIED

31. ASSEMBLE PER WORKMANSHIP O.S.D. I.I.I.
32. FINAL TEST PER 151 TEST PROCEDURE.
33. SWAGE GOLD PINS IN PLACE. (GJ 3313 ANVIL AND GJ 3309 PUNCH MAY BE USED).
34. ADD ITEM 350 FILTER, TORQUE TO 4-5 IN LBS PRIOR TO INSTALLING ITEM 904 BASE TO ITEM 21 MAIN BOARD.
35. INSTALL ITEM 10 ATTENUATOR BOARD AFTER ITEM 904 BASE INSTALLATION TO MAIN BOARD. INSURE ALL PINS AND SOCKETS ALIGN.
36. INSTALL ITEM 911 MACHINED BOTTOM SHIELD TO ITEM 21 CIRCUIT 1 SIDE USING ITEM 901 SCREW 7 PLACES.
37. INSTALL ITEM 260 TRANSISTOR AFTER INSTALLING 911 PER NOTE 36. PREP AND CORRECTLY ORIENT TRANSISTOR FOR SOLDERING LEADS PRIOR TO TORQUING ITEM 951 NUT TO 5-7 INCH LBS.
- 38.
39. PRINT SERIAL NUMBER ON ITEM 959 AND PLACE LABEL ON OUTSIDE EDGE OF ITEM 904.
40. PRINT SERIAL NUMBER ON ITEM 959 AND PLACE LABEL ON ITEMS 3 AND 4. REFERENCES MODEL BOMS 673702, 673715, 673723, 673720, 673712 AND 673731.
41. PCA'S WITH SWITCH S1, THE SWITCH MUST BE PLACED IN "SC300" POSITION.

5500A-SC300  
REV 105

LTR	DESCRIPTION	APPROVAL/DATE		
		DW	CHK	APPROV
105	W1013043: SEE PDM RECORD FOR DESCRIPTION OF REVISION!			

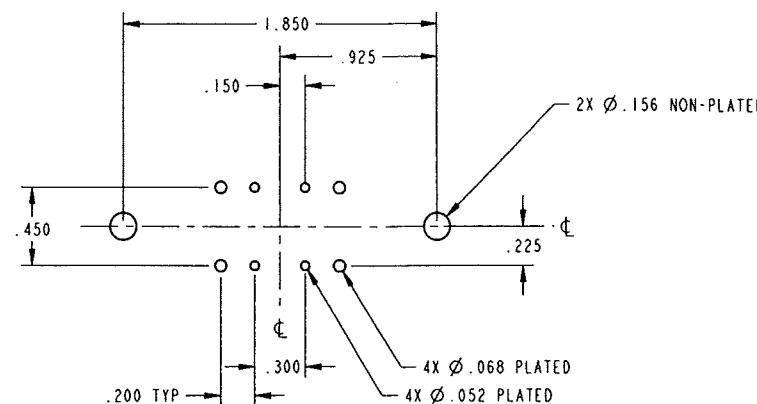
PROPRIETARY NOTICE  
THIS DOCUMENT CONTAINS INFORMATION  
PROPRIETARY TO THE FLUKE CORPORATION,  
AND IS TO BE USED FOR ENGINEERING  
DESIGN, PROCUREMENT, AND MANUFACTURING  
IN WHOLE OR IN PART WITHOUT THE  
EXPRESS WRITTEN CONSENT OF THE  
FLUKE CORPORATION.

FLUKE CORPORATION			FCM NO.
OSCILLOSCOPE CALIBRATION OPTION			89536
PART NO.	SIZE	Dwg. NO.	REV
945290D	5500A-SC300		105
SCALE 1/1	SHEET 2 OF 2		

8 7 6 5 4 3 2 1

5500A-4301	REV 002	DESCRIPTION	APVD K.P. 28-Nov-00
		W1016759: RELEASE TO PDM.	

D



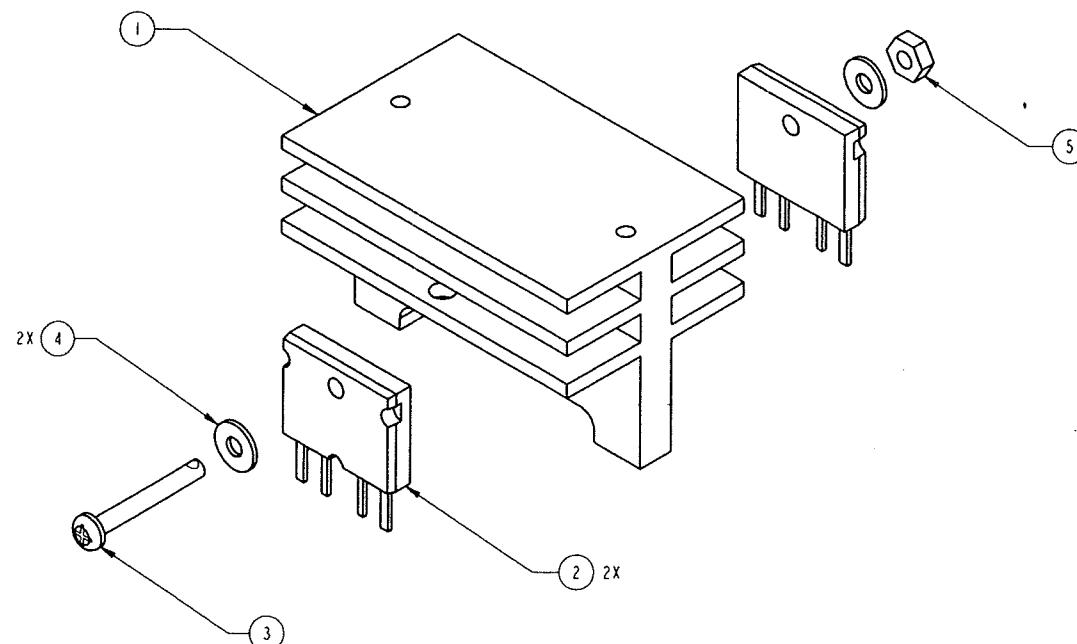
C

PCB FOOTPRINT  
2X SCALE

NOTES: UNLESS OTHERWISE SPECIFIED

1. ASSEMBLE PER WORKMANSHIP QSD 111.1.

B



A

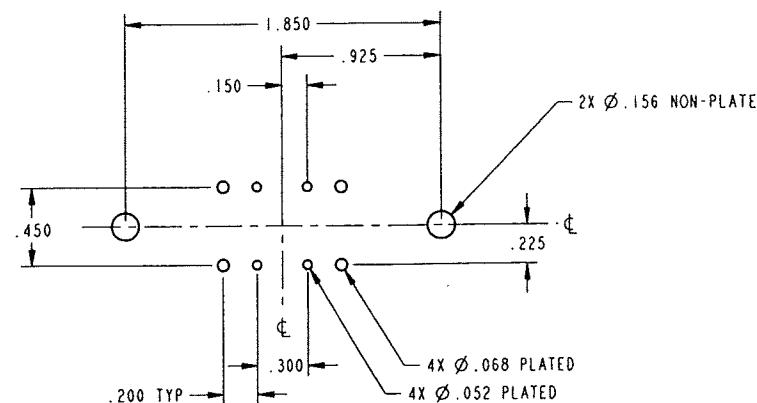
PROPRIETARY NOTICE THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO THE FLUKE CORPORATION AND SHALL NOT BE USED FOR ENGINEERING, DESIGN, PROCUREMENT, OR MANUFACTURE IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF THE FLUKE CORPORATION.		FLUKE CORPORATION P.O. BOX 4080 EVERETT, WA 98206-9090	FCM NO. 89536
<b>11AMP RESISTOR ASSY</b>			
.XX = ± 0.1 .XXX = ± 0.65 ANGLES = ± 1/2°	PART NO. <b>1593931D</b>	SIZE DWG NO. <b>5500A-4301</b>	REV 002

SCALE 2 000 SHEET 1 OF 1

8 7 6 5 4 3 2 1

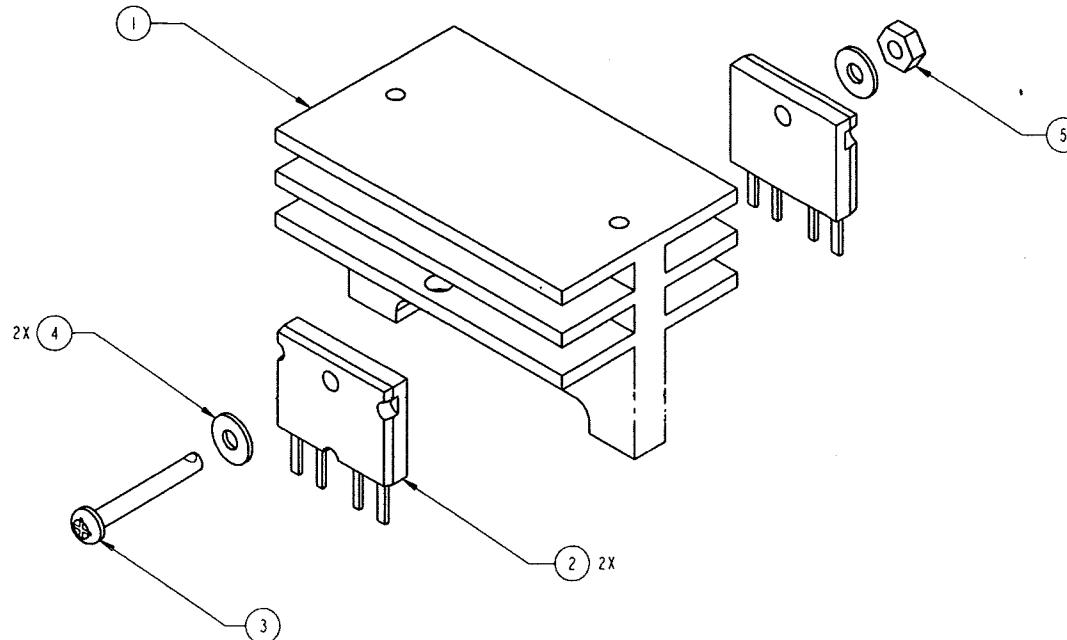
REV	DESCRIPTION	APVD
002	W1016759: RELEASE TO PDM.	K.P. 28-Nov-00
003	W1016926: SEE PDM RECORD FOR DESCRIPTION OF REVISION.	

5500A-4301  
REV 003  
SHEET 1 OF 1



PCB FOOTPRINT  
2X SCALE

NOTES: UNLESS OTHERWISE SPECIFIED  
1. ASSEMBLE PER WORKMANSHIP QSD !!!.

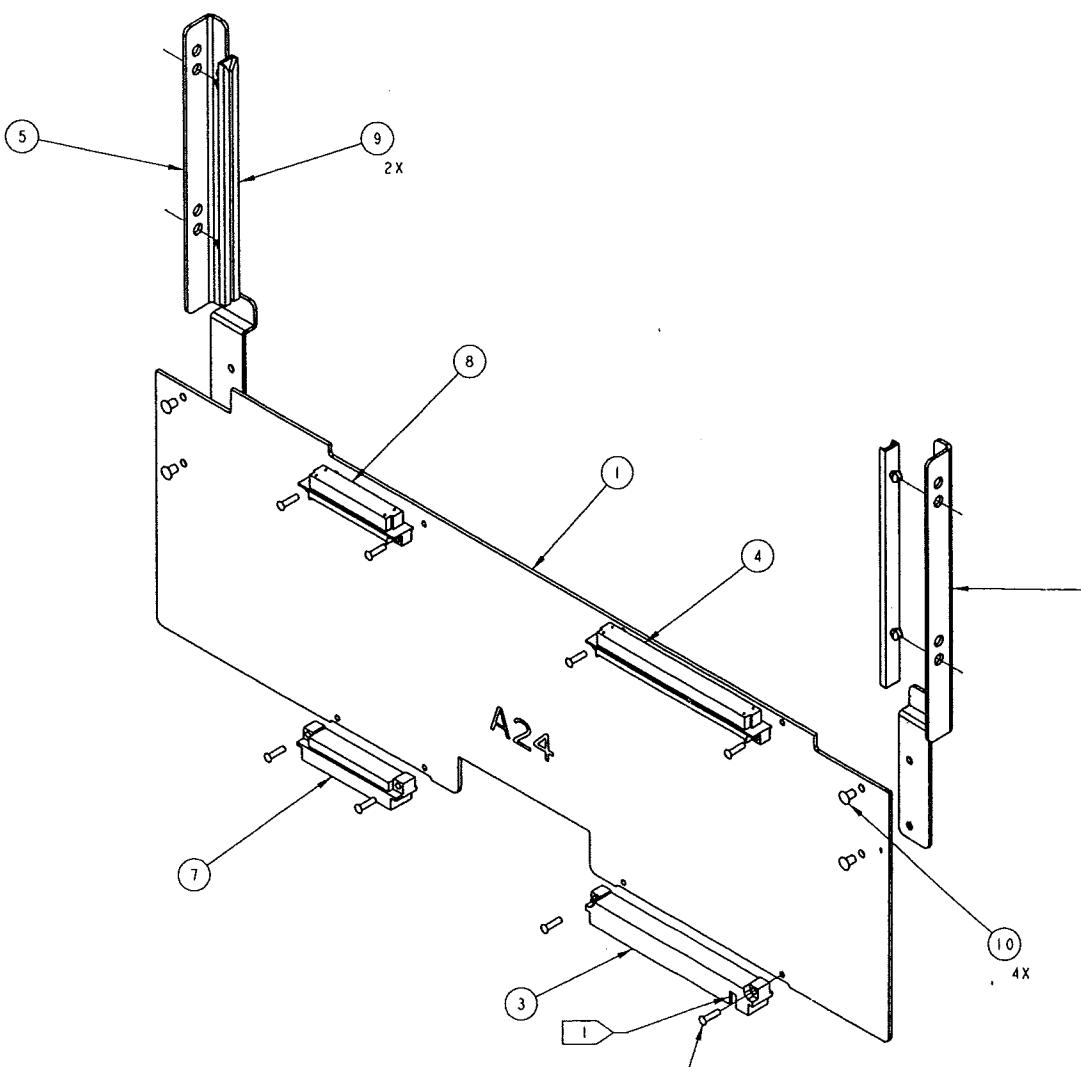


PROPRIETARY NOTICE <small>THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO THE FLUKE CORPORATION AND SHALL NOT BE USED FOR ENGINEERING DESIGN, MANUFACTURE, OR ASSEMBLY. IT IS PROVIDED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF THE FLUKE CORPORATION.</small>	FLUKE CORPORATION P.O. BOX 3090 EVERETT, WA 98206-3090	FGSM NO 89536
		11AMP RESISTOR ASSY
.XX= ± .01 .XXX= ± .005 ANGLES= ± 1/2°	PART NO. 1593931D SIZE Dwg No 5500A-4301 REV 003	SCALE 2.000 SHEET 1 OF 1

8 7 6 5 4 3 2

LTR	DESCRIPTION	APPROVAL DATE		
		DWN	CHK	APPRVD
RELEASE TO DOCUMENT CONTROL				

5500A-7002K  
SN 1 OF 1 REV



A4 EXTENDER

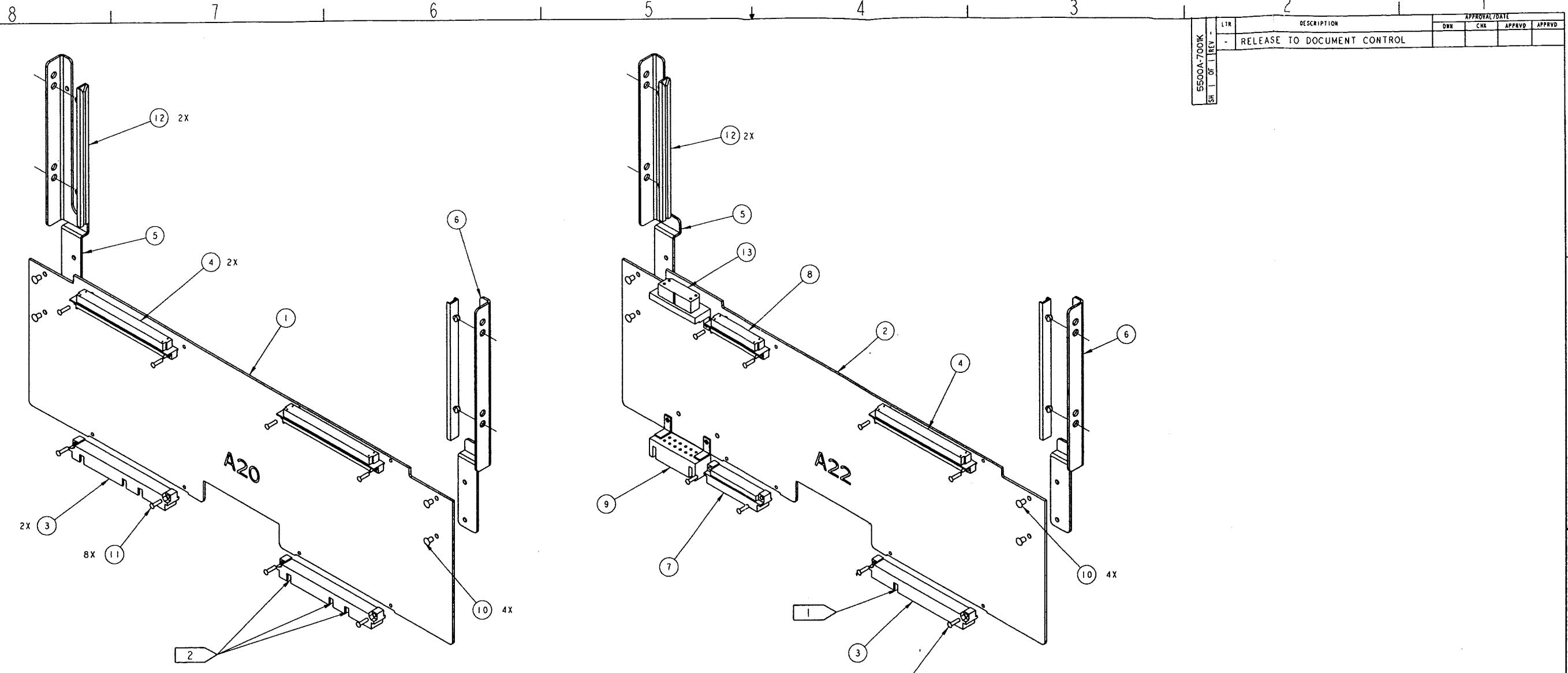
NOTES: UNLESS OTHERWISE SPECIFIED,

- 1. BREAK OUT CONNECTOR KEY, USING TOOL, IN POSITION SHOWN (FARTHEST RIGHT) ON OUTSIDE (NON-PCB SIDE) OF EXTENDER.
- 2. PARTS NOT SHOWN.
- 3. REVISIONS TO THIS DRAWING MUST BE MADE THROUGH THE PART ASSEMBLY AND DRAWING DATA FILES LOCATED IN THE PROJECT MECHANICAL DATABASE.
- 4. ASSEMBLE PER S.O.P. III.8.

2	1	16	600657	5500A-4419	CABLE, TRIGGER, EXTENDER OPTION	A24W2
2	1	15	600574	5500A-4418	CABLE, OUTPUT, EXTENDER OPTION	A24W1
8	11	838458		RIVET, S-TUB, OVAL, AL, .087, .343		A24H5-12
4	10	650275		RIVET, S-TUB, OVAL STL, .118, .187		A24H1-4
2	9	256461		CARD GUIDE, NYL, 2 SNAP, 4.50, .076		A24MP4, A24MP5
1	8	836882		CONN, DIN41612, TYPE 1/2R, RT ANG, 32SCKT		A24P3
1	7	836866		CONN, DIN41612, TYPE 1/2C, RT ANG, 32 PIN		A24P4
1	6	813600	5700A-2068	EXTENDER BRACKET, RIGHT		A24MP3
1	5	813501	5700A-2067	EXTENDER BRACKET, LEFT		A24MP2
1	4	807826		CONN, DIN41612, TYPE R, RT ANG, 64 SCKT		A24P201
1	3	807800		CONN, DIN41612, TYPE C, RT ANG, 64 PIN		A24P202
1	1	600673	5500A-3024	PCB, SCOPE EXTENDER, A24		A24MP1
OTQ	ITEM	PART NO.	DRAWING NO.	DESCRIPTION		REF DES

PARTS LIST

PROPRIETARY NOTICE THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO THE FLUKE CORPORATION. ANY USE, REPRODUCTION, OR DISSEMINATION OF THIS INFORMATION IS SUBJECT TO DESIGN, PROCUREMENT, OR MANUFACTURE IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF THE FLUKE CORPORATION.		FLUKE CORPORATION P.O. BOX 9090 EVERETT, WA 98206-9090		FCSN NO. 89536
<b>KIT, EXTENDER, SCOPE</b>				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:	DRW	THERKELSEN	8-16-95	
.XX=± .02 .XXX=± .010 ANGLES=± 1/2°	CHK			
APPRVD			PART NO. 600590	SIZE DRG NO. D 5500A-7002K
APPRVD			SCALE .75/1	REV - SHEET 1 OF 1



A5/A6/A8 EXTENDER

A7 EXTENDER

NOTES: UNLESS OTHERWISE SPECIFIED.

1. BREAK OUT CONNECTOR KEY, USING TOOL, IN POSITION SHOWN (SECOND FROM LEFT) ON OUTSIDE (NON-PCB SIDE) OF A7 EXTENDER.
2. BREAK OUT CONNECTOR KEYS IN 3 POSITIONS SHOWN (SECOND FROM RIGHT, CENTER AND FAR LEFT) ON OUTSIDE (NON-PCB SIDE) OF BOTH CONNECTORS ON A5/A6/A8 EXTENDER.
3. REVISIONS TO THIS DRAWING MUST BE MADE THROUGH THE PART, ASSEMBLY AND DRAWING DATA FILES LOCATED IN THE PROJECT MECHANICAL DATABASE.
4. ASSEMBLE PER S.O.P. III.8.

QTY	ITEM	PART NO.	DRAWING NO.	DESCRIPTION	REF DES
1	13	944327		CONNECTOR, HI Curr, SOCKET, RT ANG, 12SCK	A22P2
4	12	256461		CARD GUIDE, NYL, 2 SNAP, 4.50, .076	A20MP12, A20MP13, A22MP4, A22MP5
16	11	638458		RIVET, S-TUB, OVAL, STL., .087, .343	A20H1-8, A22H5-12
8	10	650275		RIVET, S-TUB, OVAL, STL., .118, .187	A20H9-12, A22H1-4
1	9	944152		CONNECTOR, HI CURR, HEADER, RT ANG, 12PIN	A22P1
1	8	836882		CONN, DIN41612, TYPE 1/2R, RT ANG, 32SCKT	A22P3
1	7	836866		CONN, DIN41612, TYPE 1/2C, RT ANG, 32 PIN	A22P4
2	6	813600	5700A-2068	EXTENDER BRACKET, RIGHT	A20MP11, A22MP3
2	5	813501	5700A-2067	EXTENDER BRACKET, LEFT	A20MP10, A22MP2
3	4	807826		CONN, DIN41612, TYPE R, RT ANG, 64 SCKT	A20P103, A20P201, A22P201
3	3	807800		CONN, DIN41612, TYPE C, RT ANG, 64 PIN	A20P104, A20P202, A22P202
1	2	945469	5500A-3022	PCB, EXTENDER 1	A22MP1
1	1	937540	5500A-3020	PCB, EXTENDER, STANDARD	A20MP1

PARTS LIST

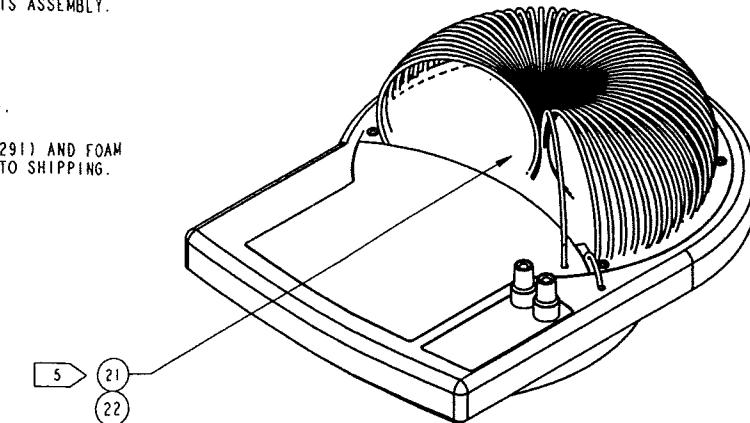
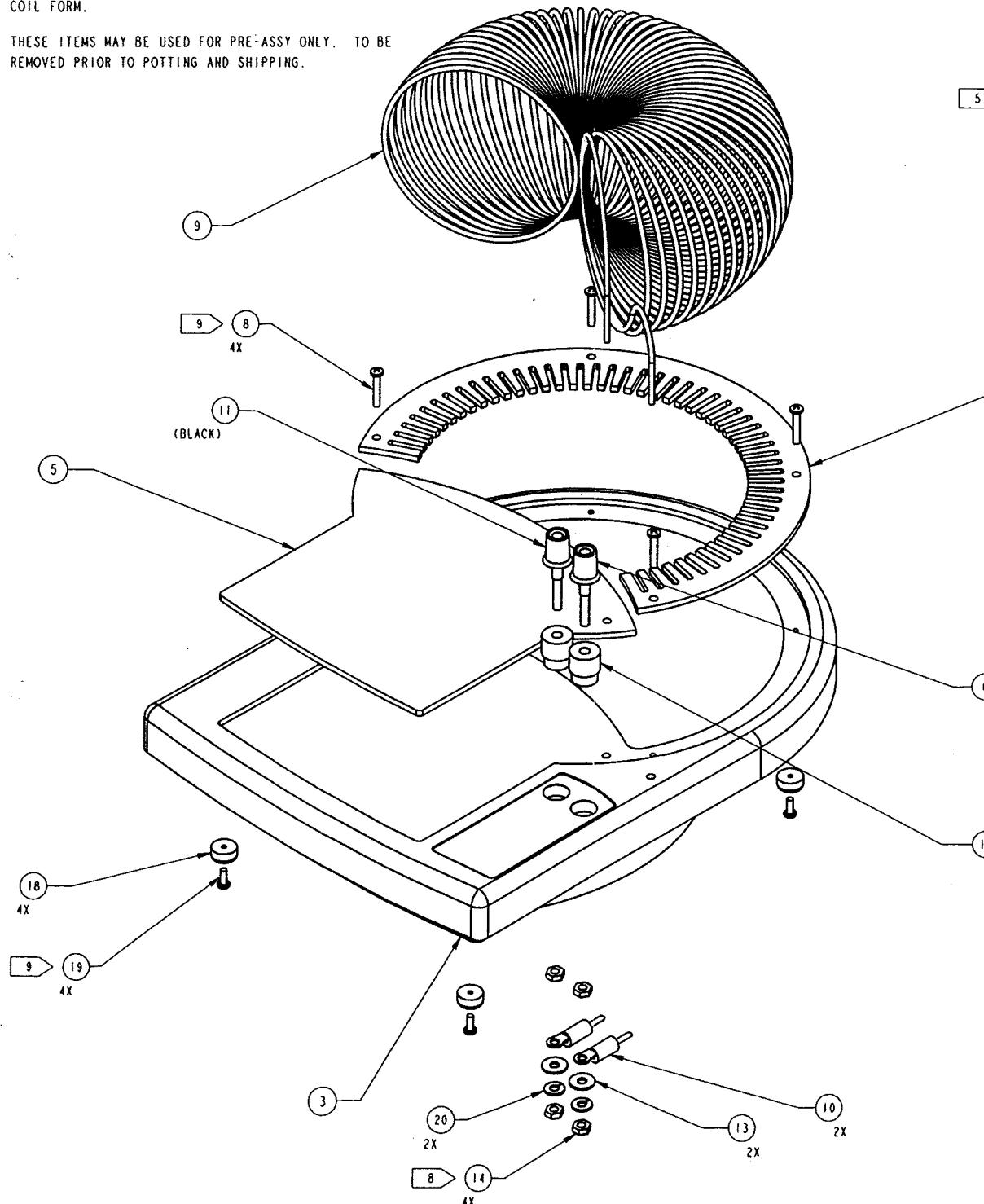
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:	PROPRIETARY NOTICE THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO THE FLUKE CORPORATION AND SHALL NOT BE USED FOR ENGINEERING, DESIGN, PROCUREMENT, OR MANUFACTURE OF EQUIPMENT. IT IS PROVIDED FOR EXPRESSION PURPOSES ONLY AND IS EXpress WRITTEN CONSENT OF THE FLUKE CORPORATION.		FCM N.O. 89536
	OWN	THERKELSEN	2-6-95
.XX=.02 .XXX=.010 ANGLES=.1/2°	APPROV'D		PART NO. 937537 D SIZE DWG NO 5500A-7001K REV -
	APPROV'D		SCALE .75/1 SHEET 1 of 1

KIT, EXTENDER

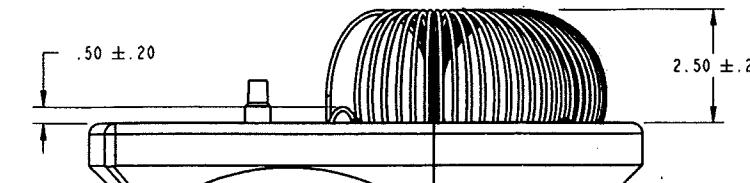
FLUKE FLUKE CORPORATION  
P.O. BOX 9090  
EVERETT, WA 98206-9090

8	7	6	5	4	3	2	1
NOTES: UNLESS OTHERWISE SPECIFIED							

1. ASSEMBLE PER WORKMANSHIP QSD 111.8.
2. FINAL TEST: MEASURE, USING 4 WIRE OHMS, RESISTANCE BETWEEN THE 5500A/COIL BINDING POSTS TO INSURE THAT IT IS  $57 \text{ m OHMS} \pm 10 \text{ m OHMS}$ .
- 3.
4. COIL TO BE  $3.75 \pm .10$  DIA PER TURN, 50 TURNS TO BE WOUND ADJACENT TO EACH OTHER. GATHER INNER WINDINGS TO BE A MAXIMUM BUNDLE DIAMETER OF 1.00 INCH.
5. FILL CAVITY TO WITHIN  $.25 \pm .1$  INCH FROM BOTTOM OF ITEM-3 COIL FORM.
6. THESE ITEMS MAY BE USED FOR PRE-ASSY ONLY. TO BE REMOVED PRIOR TO POTTING AND SHIPPING.
7. ROUND DISCS OF THIS PART TO BE DISCARDED ON THIS ASSEMBLY.
8. TIGHTENING TORQUE TO BE 11-14 LBF-IN (4 NUTS).
9. TIGHTENING TORQUE TO BE  $4 \pm 1$  LBF-IN (8 PLACES).
10. PACKAGE ASSEMBLY INTO SHIPPING BOX (JF P/N 952291) AND FOAM IN PLACE. PLACE ITEMS 2 AND 7 INTO BOX PRIOR TO SHIPPING.



SCALE 0.500



SCALE 0.500

ITEM	DESCRIPTION	APPROVAL DATE			
		DW	CHK	APVD	APV
-	RELEASE TO DOCUMENT CONTROL.	CHN/ERBY	KT	KT	ECC
A	INCORP DCO S2036 (DELETE ITEM 1, REVISE ITEM 3).	28-JUL-95	9/8/95	9/8/95	9/8/95
B	S4941: ADDED ITEM 15. REVISED NOTE 1. DELETED NOTE 3.	10/17/95	KT	KT	ECC
		K.P.	3/4/98		

SEE DW	ITEM	PART NO.	DESCRIPTION	REF DES
22	866640		ENCAP COMPOUND, POLYBUTADIENE REACTOR	
21	854948		ENCAP COMPOUND, BLK POLYBUTADIENE	
20	111484		WASHER, LOCK, SPLIT, STL., 194..350..047	
19	494641		SCREW, PH, P, THD FORM, STL, 5-20..312	
18	130138		FOOT, BUTTON, RUBBER, .250X.500	
17				
16	104265		CABLE ACCESS, TIE, 6.75L..19W, 1.75 DIA	
15	665387	5500A-INSERT	HIGH CURRENT TEST LEADS PKG. INSERT	
14	850334	5725A-8019	NUT, #8 LOW THERMAL	
13	631606		WASHER, FLAT, BRASS, #8.0.032 THK	
12	860411	5725A-2033-02	INSULATOR, BINDING POST, FRONT, BLACK	
11	860457	5725A-2703-08	BINDING POST, BLACK	
10	446369		TERM, RING #8, 10-12AWG, CRIMP, INSUL	
9	601135		WIRE, MAGNET, 1OH, 130C, NYLZE	
8	832246		SCREW, PH, P, AM THD FORM, STL, 5-14..750	
7	601127		TEST LEADS, PR, SI, 30A PLUGS, RED/BLACK	
6	860452	5725A-2703-07	BINDING POST-RED	
5	600624	5500A-2038	PAD/FEET, 50 TURN COIL	
4	172080		CABLE ACCESS, TIE, 4.00L..10W, .75 DIA	
3	600718	5500A-8104	COIL BASE, 50 TURN	
2	600616	5500A/COIL I.S.	50 TURN CURRENT COIL INSTRUCTION SH	
1				
011	ITEM	PART NO.	DRAWING NO.	DESCRIPTION

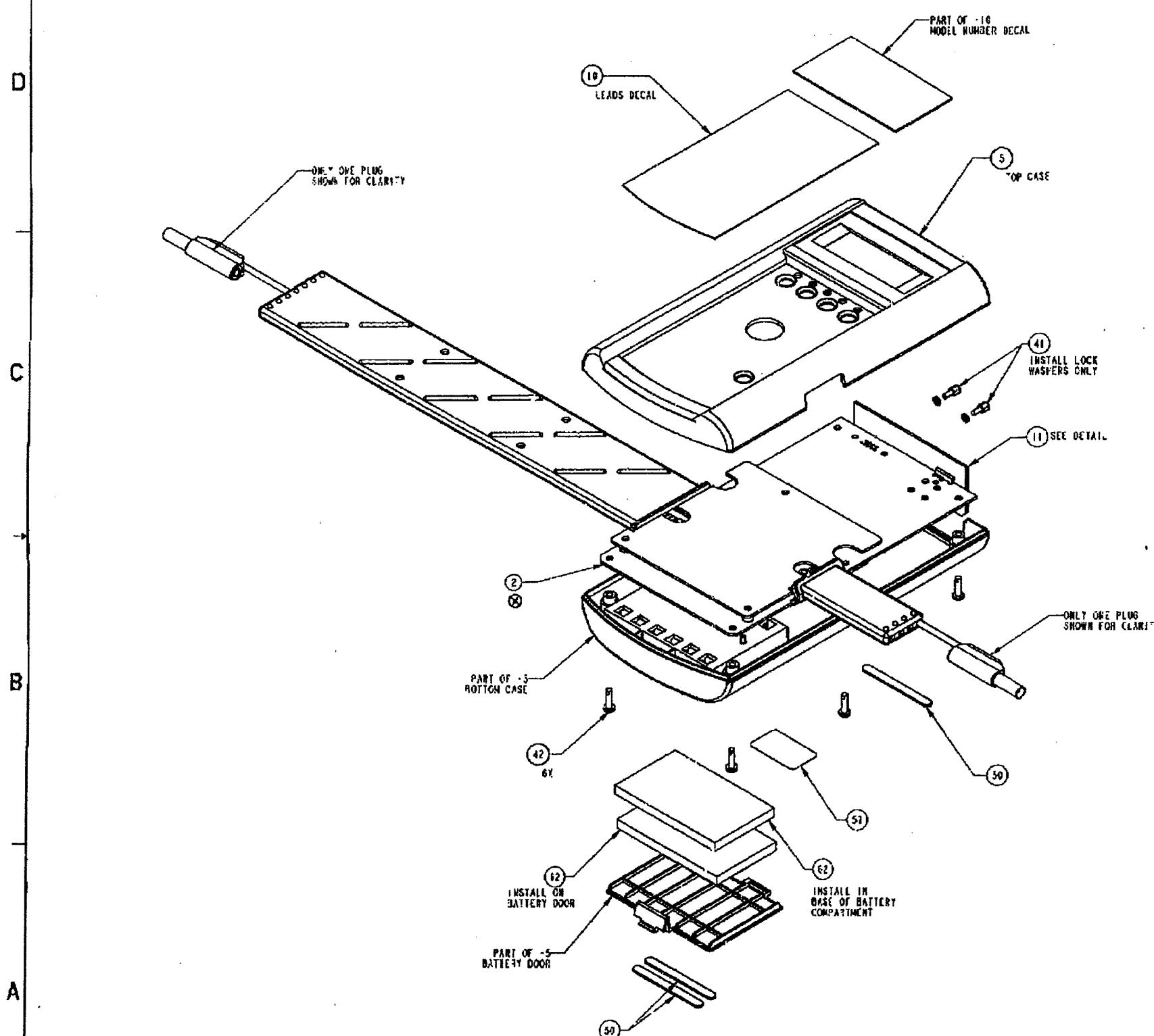
PARTS LIST		PROPRIETARY NOTICE	
THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO THE FLUKE CORPORATION, AND IS PROVIDED TO YOU FOR USE IN MANUFACTURING, DESIGN, PROCUREMENT OR MANUFACTURE IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF THE FLUKE CORPORATION.		FLUKE CORPORATION	FCM NO. 89536
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ANGLES: $\pm 1/2^\circ$	CHN/ERBY	P.O. BOX 5090 EVERETT, WA 98206-5090
XX: $\pm .02$	XX: $\pm .010$	CHK T MOREY	8-25-95
XXX: $\pm .010$	XXX: $\pm .005$	APVD T MOREY	8-25-95
ANGLES: $\pm 1/2^\circ$		APVD E COLLINS	9-1-95
		SCALE	0.750
		SHEET	1 OF 1

### 50 TURN CURRENT COIL

200664 D 5500A/COIL

B

6 5 4 3 2

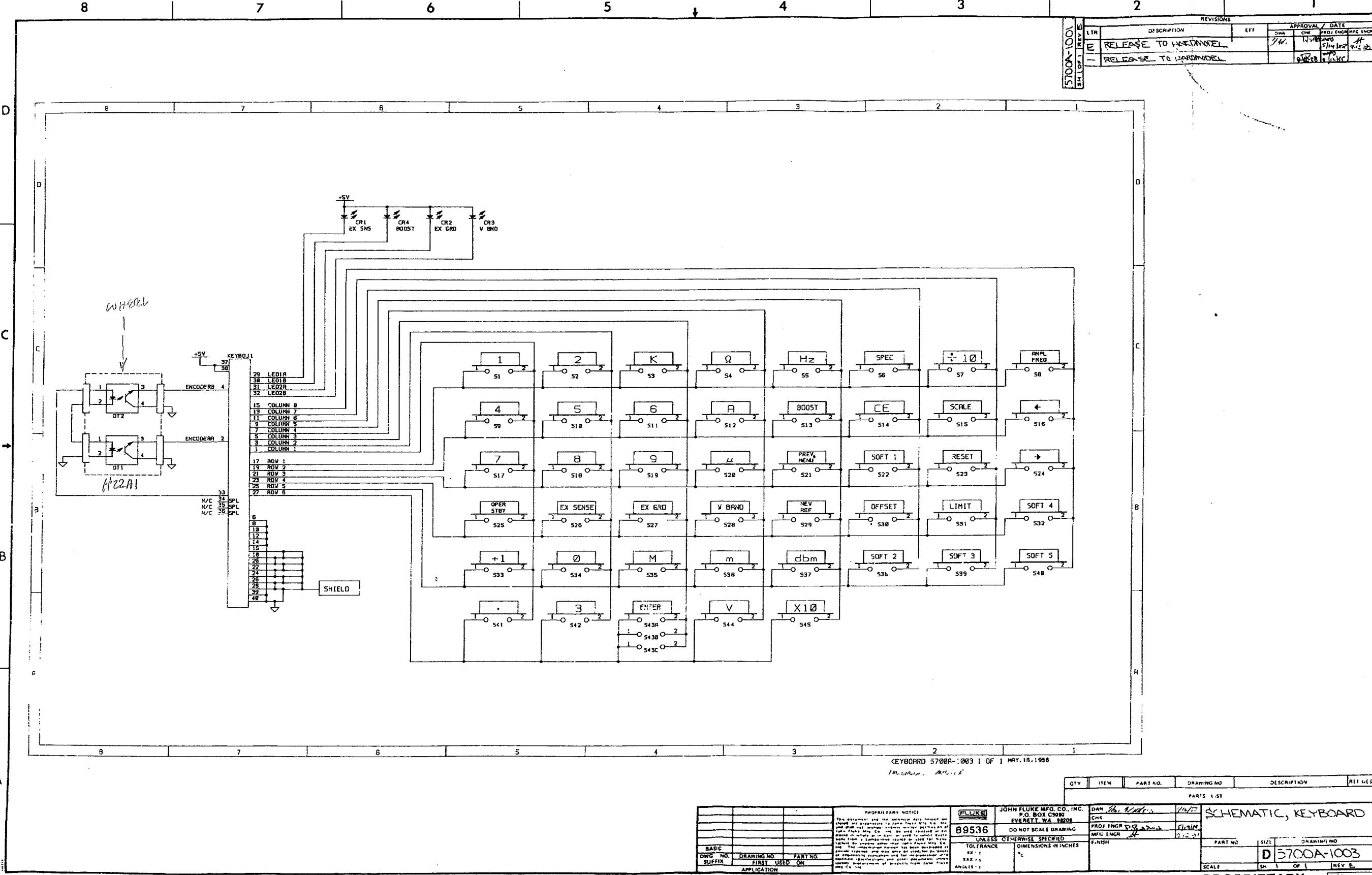


SEE SHEET FOR PARTS  
LIST AND NOTES



 **CAUTION**  
SUBJECT TO DAMAGE BY  
STATIC ELECTRICITY

PROPRIETARY NOTICE		FLUKE CORPORATION P.O. BOX 9999 EMMETT, WA 98026-0999		FCM NO. 89536
THIS FORM OR COPY CONTAINS INFORMATION PERTINENT TO THE FLUKE CORPORATION. IT IS THE PROPERTY OF THE FLUKE CORPORATION AND IS RESTRICTED FROM DISCLOSURE BY THE UNITED STATES GOVERNMENT. THE USE, REPRODUCTION, AND DISSEMINATION ARE RESTRICTED TO THE FLUKE CORPORATION.		<b>FLUKE</b>		
<b>SWITCH ACCESSORY</b>				
PART NO. <b>SEE TABLE D</b>		SIZE <b>D</b>	QNS. NO. <b>5500A/EP</b>	MT <b>D</b>
SCALE <b>0.1%</b>		SHEET <b>2</b> OF <b>2</b>		



PROPRIETARY

8

1

1

1

1

•

10

1

D

14

○

10

一

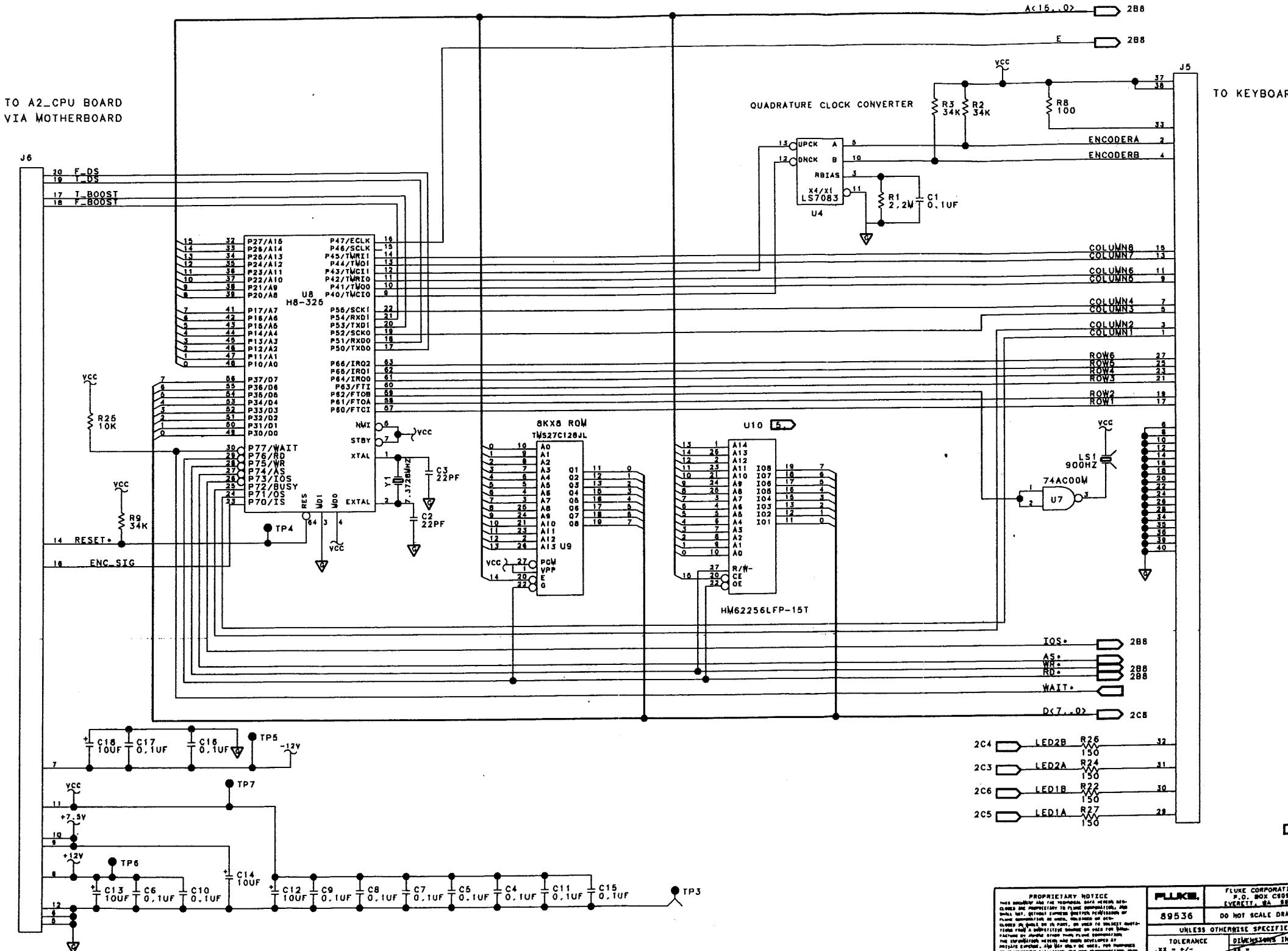
1

B

10

A

10



		REVISIONS		APPROVAL/DATE			
5500A-1002 SH 1 OF 2 REV 101	LTR	DESCRIPTION		WBH	CHE	PROJ ENG	WFG ENG
B	STARTED NEW AT REV B. RELEASE TO PHASE II.	J. A.	14-28-93				
C	UPDATED FOR PRE-PILOT	W. B.	3/7/84				
D	RELEASE TO PILOT	B. C.	4/14/84				
E	INCORPORATED ECO 5500A-1, 2, 32, P12, AND P13.	W. B.	8/23/84				
E1	SUPPRESSED DEVELOPMENT INFORMATION RELEASE TO DOC. CONTROL,	B. C.	WB	WW	WW	SH	SH
100	W1004642: SEE PDM RECORD FOR DESCRIPTION OF REVISION.	11/16/84	11/17/84	11/17/84	11/17/84		
101	W1010803 SEE PDM RECORD FOR CHANGE DESCRIPTION						

### POWER AND GROUND CHART

REF DES	PARTNAME	GGND	VCC
U7, U11	74AC00W	7	14
U6	74HC138	8	16
U2, U3	74HC174	10	20
U8	HA-3226FDP	14	31
U10	HM6226LFP-16T	14	28
U4	LS7082	14	28
U9	TMS27128JL	14	28

**NOTES : UNLESS OTHERWISE SPECIFIED:**

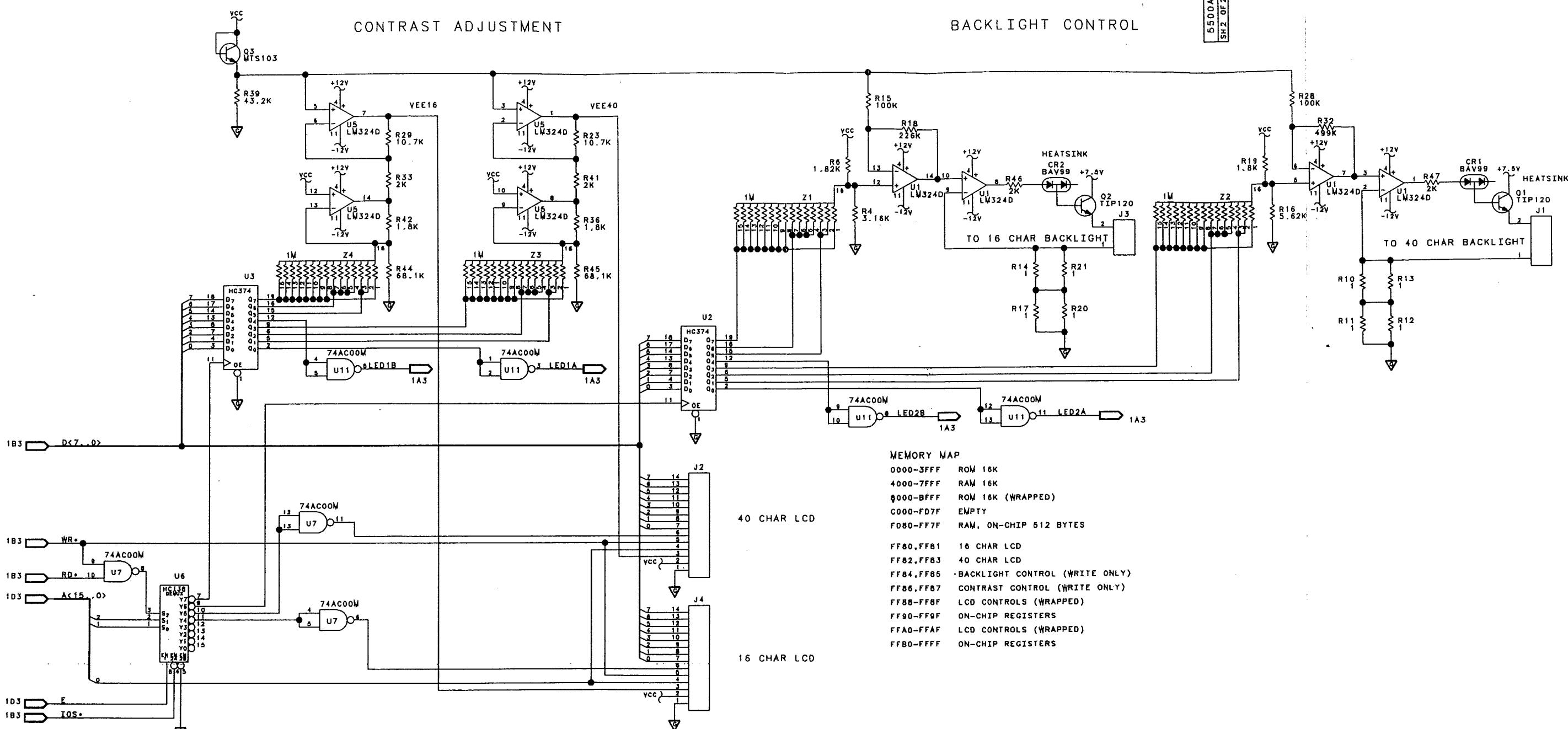
1. ALL RESISTANCES ARE IN OHMS.  
2.  
3.  
4. FOR ASSEMBLY DRAWING SEE 5500A-7602.

: LAST\_MODIFIED=Thu Apr 13 06:38:00 2000

PROPRIETARY

## CONTRAST ADJUSTMENT

## BACKLIGHT CONTROL



FLUKE	FLUKE CORPORATION P.O. BOX C6000 EVERETT, WA 98206
89536	DO NOT SCALE DRAWING
<b>SCHEMATIC, A2</b>	
<b>ENCODER CPU</b>	
PART NO.	SIZE
D 5500A-1002	DRAWING NO.
SCALE	SH 2 OF 2 REV 101

## NOTES: UNLESS OTHERWISE SPECIFIED

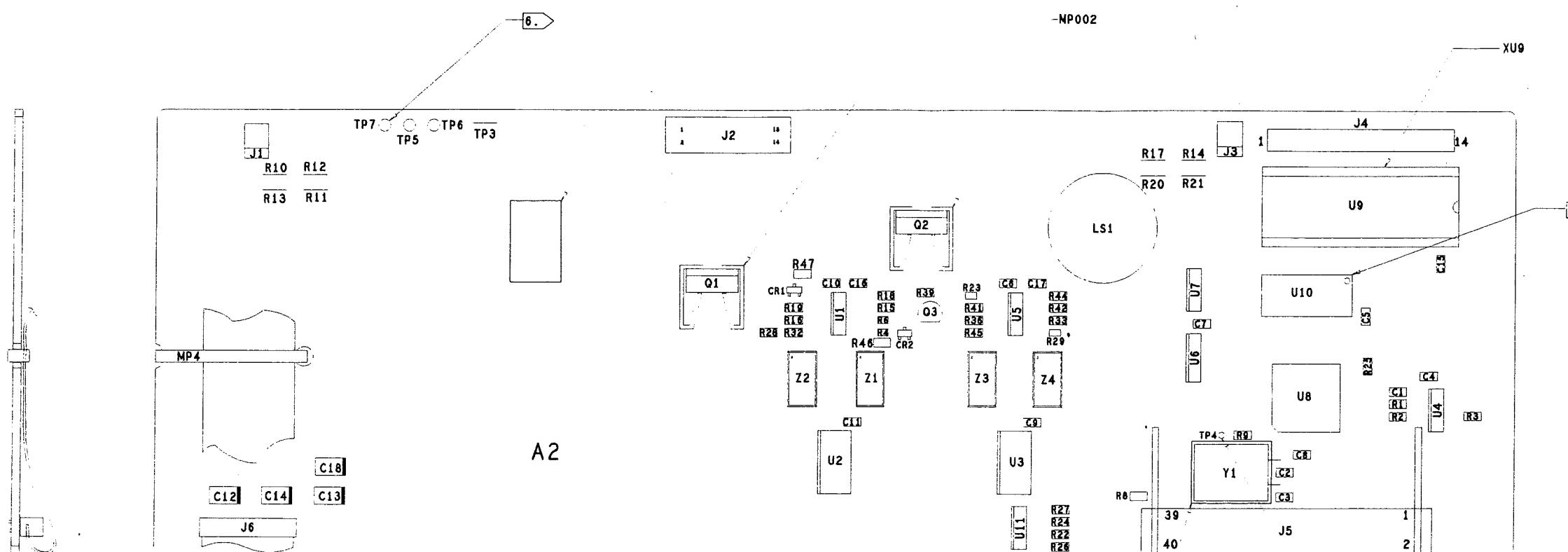
1. FOR SCHEMATIC DIAGRAM SEE 5500A-1002.
2. ASSEMBLE PER QSD 111.1.
- 3 → MARK ASSEMBLY REVISION LETTER IN SPACE PROVIDED, USING PERMANENT BLACK FELT TIP MARKER.
- 4.
- 5.
- 6 → TP4-7 AND U10 ARE NOT INSTALLED.

→ 3

→ MP001

→ MP002

REVISIONS		APPROVAL / DATE			
REV	DESCRIPTION	EFF	OWN	CHK	PROJ ENGR
-	RELEASE TO PRE-PILOT RUN	3/8/84	J LEE	W.B	K.C.C.
A	RELEASE TO PILOT RUN	5/1/84	5/1/84	5/1/84	5/1/84
B	INCORPORATED ECO 5500A-1, P12,P13,AND P40	8/2/84	8/2/84	8/2/84	8/2/84
C	INCORPORATED DCO 50553 RELEASE TO DOC. CONTROL.	12/08/84	12/08/84	12/08/84	12/08/84
D	51948 & 51970: RELOCATED R8. 53713: SHT 1-ITEM 35 WAS P/N 945212,1 DWG NO. WAS 5500A-4402, DESC. WAS "CABLE, OPTREX DUAL INLINE 14 PIN". SHT 2-DELETED NOTE 5.	9/27/85	K.P.		10/8/85
E	54357: SHT 1-ITEM 608 WAS P/N 943662.	3/5/87	K.P.		3/5/87
F	54485: SHT 1-ITEM 608 WAS P/N 110400.	11/18/87	K.P.		11/18/87
G	54716: SHT 1-ITEM 608 WAS P/N 943662.	1/16/88	K.P.		1/16/88
H	W1004642: SEE PDM RECORD FOR DESCRIPTION OF REVISION.	10/10/87			TD
I	W1010903: SEE PDM RECORD FOR DESCRIPTION OF REVISION.	11/18/87			TD



CKT 6 SIDE

→ 6.

MP003

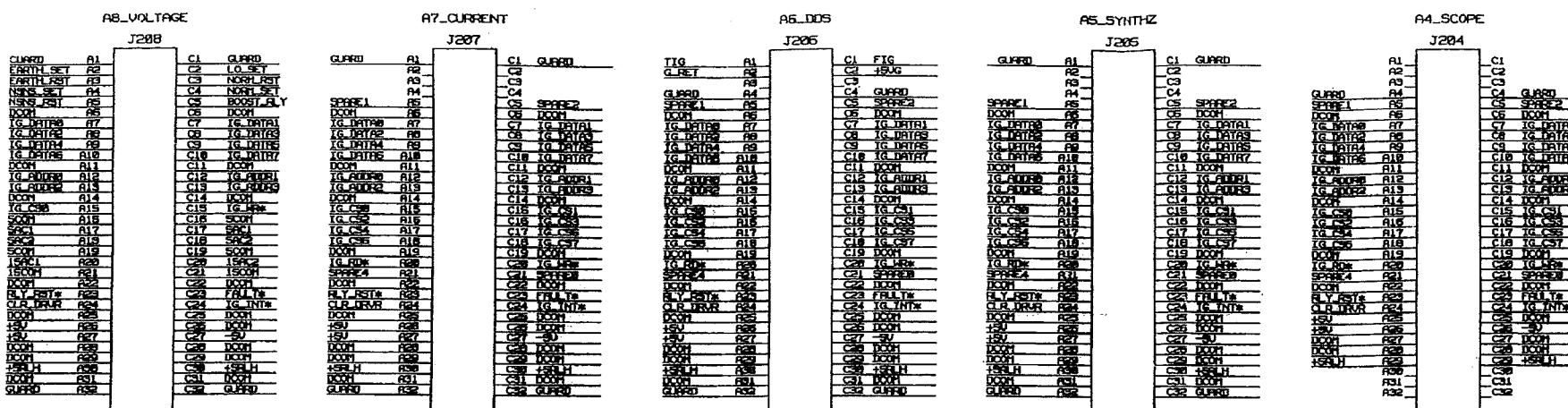
CAUTION  
SUBJECT TO DAMAGE BY  
STATIC ELECTRICITY

BASIC	DRAWING NO.	PART NO.	PROPRIETARY NOTICE		FLUKE	JOHN FLUKE MFG. CO., INC P.O. BOX 9000 EVERETT, WA 98206	OWN	JAE LEE	3/7/84	
			89536	DO NOT SCALE DRAWING				CHK	W.B	
UNLESS OTHERWISE SPECIFIED										
TOLERANCE	DIMENSIONS IN INCHES		FINISH							
.XX ± XXX ± ANGLES ±	Xc °									
PART NO.	SIZE	DRAWING NO.		937370	D	5500A-7602				
SCALE 2/1	SH 1	OF 1	REV 101							

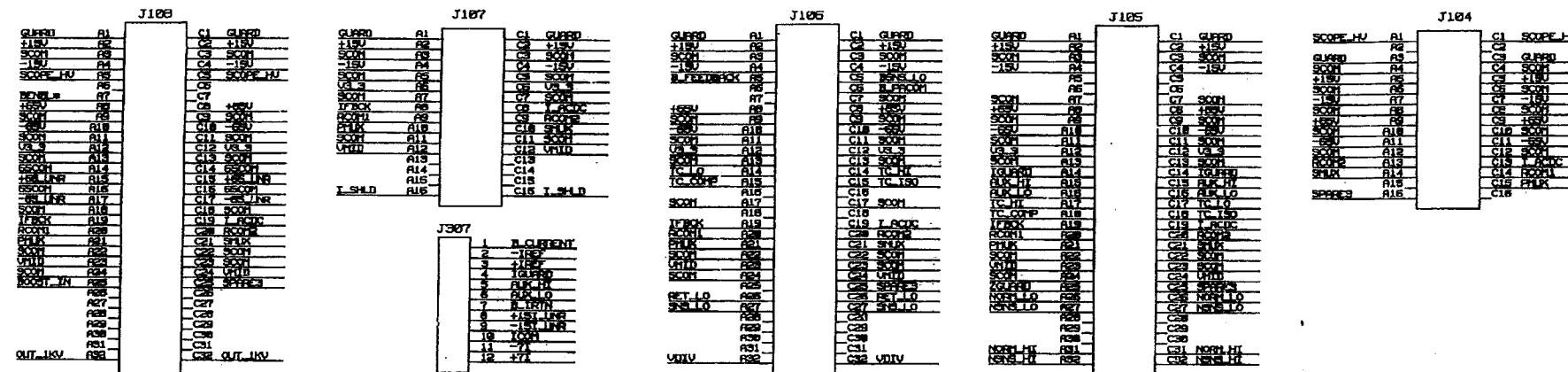
PROPRIETARY

DRAFT

11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1



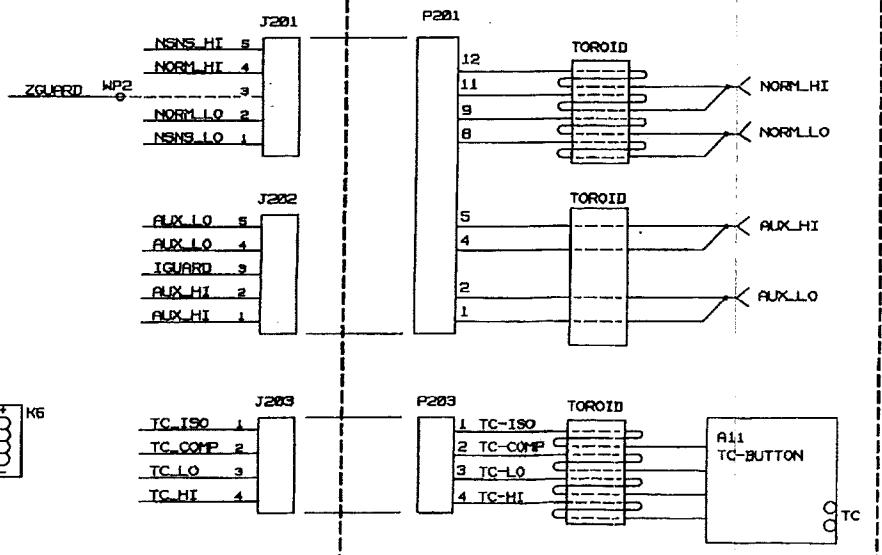
		REVISIONS		
REF ID	REV	DESCRIPTION	APPROVAL DATE	
			BN	JHG
SSC06A-10203	LTR	RELEASE TO PRE-PILOT	JHG 3/7/94	
	C	RELEASE TO PILOT RUN	JHG 5/5/94	
	D	REVISED PER ECO NO.'S 9, 42, & P37	JHG 10/7/94	
	E	REVISED PER ECO NO.'S 103, 106 & 113.	JHG 1/2/94	
	F	RELEASE TO DOC. CONTROL	JHG 1/2/94	DKG 1/12/94



NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL RESISTORS ARE IN OHMS. ALL CAPACITORS ARE IN MICROFARADS.
  2.  $\nabla$  = GCOM.  $\nabla$  = ICOM  $\nabla$  = SCOM.
  3. CHANGES TO THIS DRAWING MUST BE MADE THRU THE DATABASE SHOWN ON SOFTWARE CONTROL MSG (SCD) 5500A-C90003.
  4. FOR REFERENCE DESIGNATOR DRAWING SEE 5500A-1603.
  5. FOR ASSEMBLY DRAWING SEE 5500A-7603.

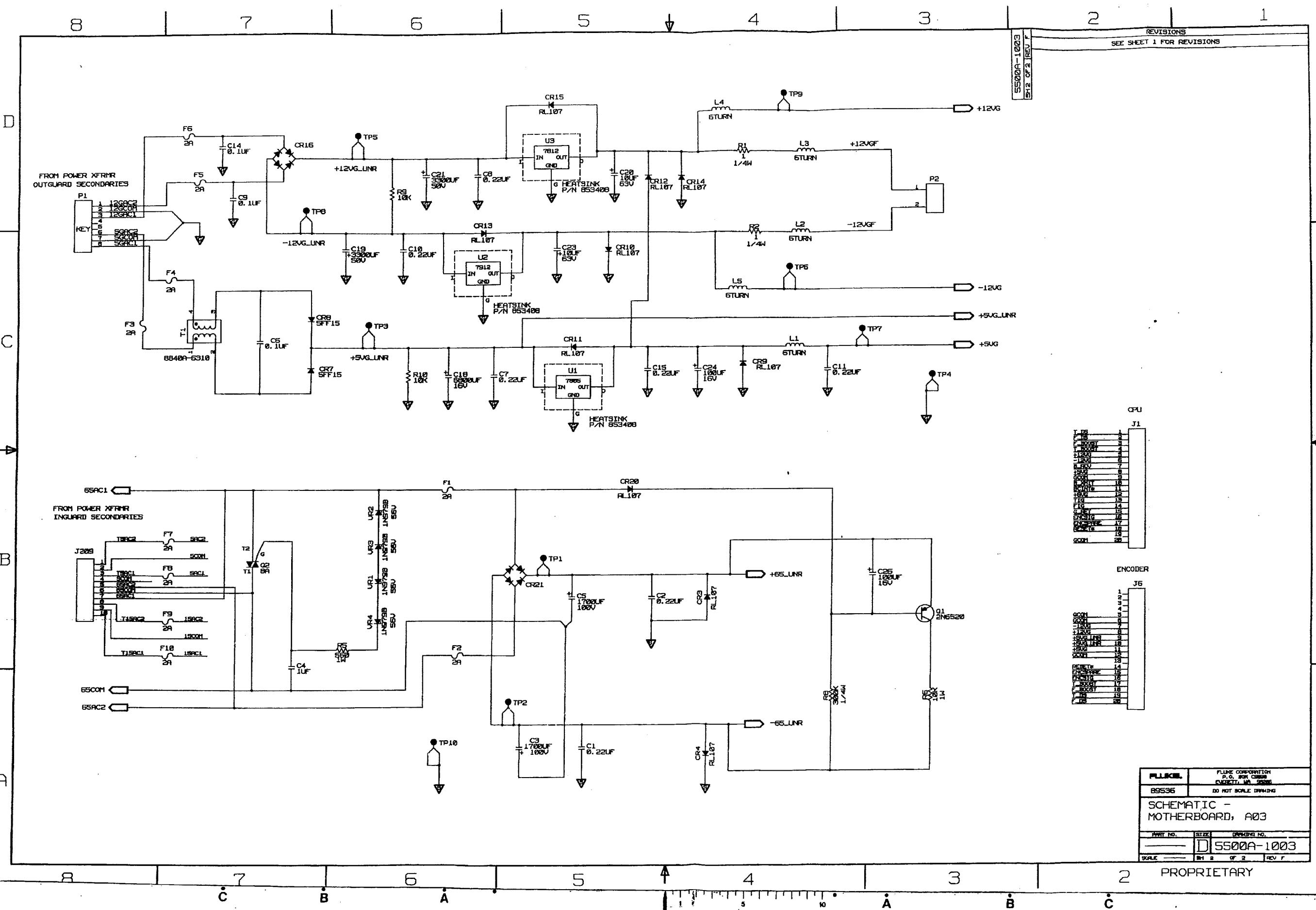
## OUTPUT BLOCK SCHEMATIC



LAST\_MODIFIED=Wed Nov 23 13:06:25 1994

PROPRIETARY NOTICE THIS DRAWING IS THE PROPERTY OF FLUKE CORPORATION AND IS TO BE USED ONLY BY FLUKE EMPLOYEES AND CONTRACTORS OF FLUKE CORPORATION. IT IS NOT TO BE COPIED OR DISCLOSED TO UNAUTHORIZED PERSONS OR USED FOR OTHER PURPOSES.		FLUKE CORPORATION 1111 WEST COLUMBIA, EVERETT, WA 98203		DAN H. LESTER O&H D. DENVER PROT ENGR W.J. PROT ENGR J.W. MAYER FINISH		DRAWN BY DATE 1-13 REV 1-24-74	
<b>PLUKE</b> <b>89536</b>		<b>DO NOT SOLICIT DRAMING</b> <b>UNLESS OTHERWISE SPECIFIED</b>				<b>SCHEMATIC - MOTHERBOARD, A03</b>	
TOLERANCE XX = +/- XXX = +/- ANGLE =		DIMENSIONS IN INCHES				PART NO. <b>D 5500A-1003</b> SIZE <b>SH-1</b> OF <b>2</b> REV <b>F</b>	

PROPRIETARY



ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED		
FLUKE CORPORATION P.O. BOX 331985 EVERETT, WA 98233		
DO NOT SCALE DRAWING		
Schematic - Motherboard, A03		
PART NO.	SIZE	DRAWING NO.
	<b>D</b>	<b>5500A-1003</b>
REV E	2	OF 2





8

1

QTY	ITEM	JFPN	DRAWING NO.	DESCRIPTION	REFERENCE DESIGNATOR
20	950	838482	-----	RIVET,S-TUB,OVAL,STL.,.087,.250	H1-20
2	867	944814	-----	HEADER,1 ROW,.156CTR,RT ANG,5 PIN	J201,J202
1	866	446724	-----	HEADER,1 ROW,.156CTR,10 PIN	J209
1	856	888453	-----	HEADER,1 ROW,.100CTR,RT ANG,4 PIN	J203
1	849	831545	-----	RELAY,ARMATURE,1 FORM A/1 FORM B,5VDC	K6
2	842	944157	-----	CONNECTOR,HI Curr,SOCKET,12 SCKT	J112,J307
1	833	385435	-----	HEADER,1 ROW,.156CTR,8 PIN	P1
1	832	806930	-----	RELAY,REED,1 FORM A,5VDC	K1
2	831	878988	FLUKE 12-C-03	RECEPTACLE,INPUT	J217,J218
1	830	945373	5500A-4410	CABLE, BOOST I/O	J216
8	828	807818	-----	CONN,DIN41612,TYPE C,64 SCKT	J105,J106,J108,J204-208
2	827	944165	-----	CONN,DIN41612,TYPE 1/2C,32 SCKT	J104,J107
10	825	806331	-----	FUSE,8X8.5MM,2A,250V,SLOW,RADIAL	F1-10
8	824	832733	-----	CONN ACC,DIN41612,KEY	
3	816	853408	-----	HEAT DIS,VERT,.75X.50X.50,TO-220	MP1-3
4	811	603001	-----	RELAY,ARMATURE,2 FORM C,5VDC,LATCH	K2-5
10	806	816090	-----	JUMPER, WIRE, NONINSUL, 0.200CTR	TP1-10
2	804	944319	-----	HEADER,2 ROW,2MHCTR,RT ANG,20 PIN	J1,J6
1	104	478784	-----	CAP,AL,6800UF, +30-10%,16V,SOLV PROOF	C18
2	699	782458	-----	CAP,AL,3300UF, +30-20%,50V,SOLV PROOF	C19,C21
3	696	853650	-----	CAP,CER,0.10UF, + -20%,50V,X7R	C6,C9,C14
2	689	816850	-----	CAP,AL,100UF, + -20%,16V,SOLV PROOF	C24,C26
2	683	816843	-----	CAP,AL,10UF, + -20%,63V,SOLV PROOF	C20,C23
2	661	423541	-----	CAP,AL,1700UF, +75-10%,100V,HI TERM	C3,C5
7	660	733386	-----	CAP,CER,0.22UF, +80-20%,50V,25U	C1,C2,C7,C8,C10,C11,C15
1	654	733089	-----	CAP,POLYES,1UF, + -10%,50V	C4
1	559	643764	-----	RES,CERM,560.5%,2W	R5
2	554	697102	-----	RES,CF,10K, + -5%,0.25W	R9,R10
1	550	650405	-----	RES,CERM,10K, + -5%,2W	R6
QTY	ITEM	JFPN	DRAWING NO.	DESCRIPTION	REFERENCE DESIGNATOR

		REVISIONS				APPROVAL / DATE		
SHR 1 OR 2	REV N	LTR	DESCRIPTION	EFF	BIRN	CIRK	PABZ EINR	MIG EINR
-			RELEASE TO PROTO	JHG 1/28/94	UND 1/28/94	UND 1/28/94		
A			RELEASE TO PRE-PILOT	JHG 3/21/94	DKD 3/23/94	WV 3/23/94		
B			RELEASE TO PILOT	JHG 5/5/94	DKD 5/5/94	WV 5/7/94	SCG 5/7/94	
C			REVISED PER RANGER ECO NO 9, 42, P2, P24, P26, & P37.	JHG 10/11/94	DKD 10/13/94	WV 10/13/94		ECC 10/14/94
D			REVISED PER RANGER ECO NO 103 & 106.	JHG 11/16/94	UND 11/16/94	WV 11/16/94		
D			RELEASE TO DOC. CONTROL	JHG 11/20/94	DKD 11/20/94	WV 11/20/94		ECC 11/21/94
D1			INCORPORATED ECO 51128.	JHG 3/27/95	DKD 3/27/95	UND 3/27/95		SCG 3-28-95
E			SHT 1 - ITEM 811 WAS P/N 836486. SHT 2 - REVISED NOTE 2. DELETED NOTE 3.	K.P. 7/19/96				L5 8-1-96
F			SHT 1 - PN ITEM 291 WAS 650846.	K.P. 10/21/96				L5 10/21/96
G			SHT 1 - ITEM 559 P/N WAS 266361. SHT 2 - DELETED NOTE 4.	K.P. 5/7/97				CP 5/13/97
H			SHT 1 - ITEM 550 P/N WAS 109389.	K.P. 11/16/97				L5 11/16/97

QTY	ITEM	JFPN	DRAWING NO.	DESCRIPTION	REFERENCE DESIGNATOR
1	535	732818	-----	RES,CF,300K,+-5%,0.25W	R8
2	529	867866	-----	RES,CF,1,+-5%,0.25W	R1,R2
3	410	500777	-----	VARISTOR,22V,+-20%,1.0MA	RV2, RV3, RV4
1	338	296509	-----	DIODE,SI,RECT,BRIDGE,BV 200V,IO=1.5A	CR21
14	336	887203	-----	DIODE,SI,1000 PIV,1 AMP	CR3, CR4, CR9-15, CR20, CR22-25
4	334	832568	-----	ZENER,UNCOMP,56V 5%,2.2MA,0.4W	VR1-4
2	332	523720	-----	DIODE,SI,150 PIV,5.0 AMP	CR7-B
1	326	418582	-----	DIODE,SI,RECT,BRIDGE,BV 50V,IO=1A	CR16
1	298	413013	-----	THYRISTOR,SI,TRIAC,VBO 200V,8.0A	C2
1	291	602961	-----	TRANSISTOR,SI,PNP,SM 350V,625MW TO-92	O1
1	178	413195	-----	IC,VOLT REG,FIXED,,+12 VOLTS,1.5 AMPS	U3
1	177	381665	-----	IC,VOLT REG,FIXED,-12 VOLTS,1.5 AMPS	U2
1	167	428847	-----	IC,VOLT REG,FIXED,,5 VOLTS,1.5 AMPS	U1
1	58	660589	8840A-6310	TRANSFORMER, PULSE	T1
5	57	320911	6160A-8002	CHOKE, 6TURN	L1-5
1	46	945186	5500A-3003	PCB, MOTHER BOARD, A03	A1

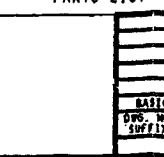
1	987	602698	-----	HEADER, 1 ROW, .100CTR, 2 PIN	P2
2	973	245290	-----	RIVET, S-TUB, OVAL, AL, .118,.312	H21,H22
4	963	110312	-----	WASHER, LOCK, INTRNL, STL, .204ID	H23,H24,H29,H30
4	962	855176	-----	SCREW, PH, P, SS, 10-32, .375	H25-28
QTY	ITEM	JFPN	DRAWING NO.	DESCRIPTION	REFERENCE DESIGNATOR

PARTS LIST

## PARTS LIST



**CAUTION**  
SUBJECT TO DAMAGE BY  
STATIC ELECTRICITY



ESTATE NOTICE		JOHN F. F. EVER
Transcript date 04/26/86 to John Flaks Mfg. Co., Inc. against written petition of John Flaks, Jr., et al., for probate, or need to file written answer or affidavit within 30 days of filing of transcript. The petition has been developed and will be used for probate of the estate. There are no other documents which protects from John Flaks		FLUKE 89536 DO NOT UNLESS OTHERWISE TOLERANCE XX & XXX ANGLES 8

LUKE MFG. CO., INC P.O. BOX 5890 RETTI, WA 98206		PWM Jim Geddes CIRL D. Beaver	1/28/84 6/6/84	<b>PCA, MOTHER BOARD, A03</b>
NOT SCALE DRAWING E SPECIFIED DIMENSIONS IN INCHES		PROJ ENGR HFG ENGR E Collins	1/28/84	
		FINISH	PART NO. <b>937375</b>	SIZE <b>D 5500A-7603</b>
		SCALE NONE	REV. M.	DRAWING NO. SH 1 OF 2

PROPRIETARY

8

四

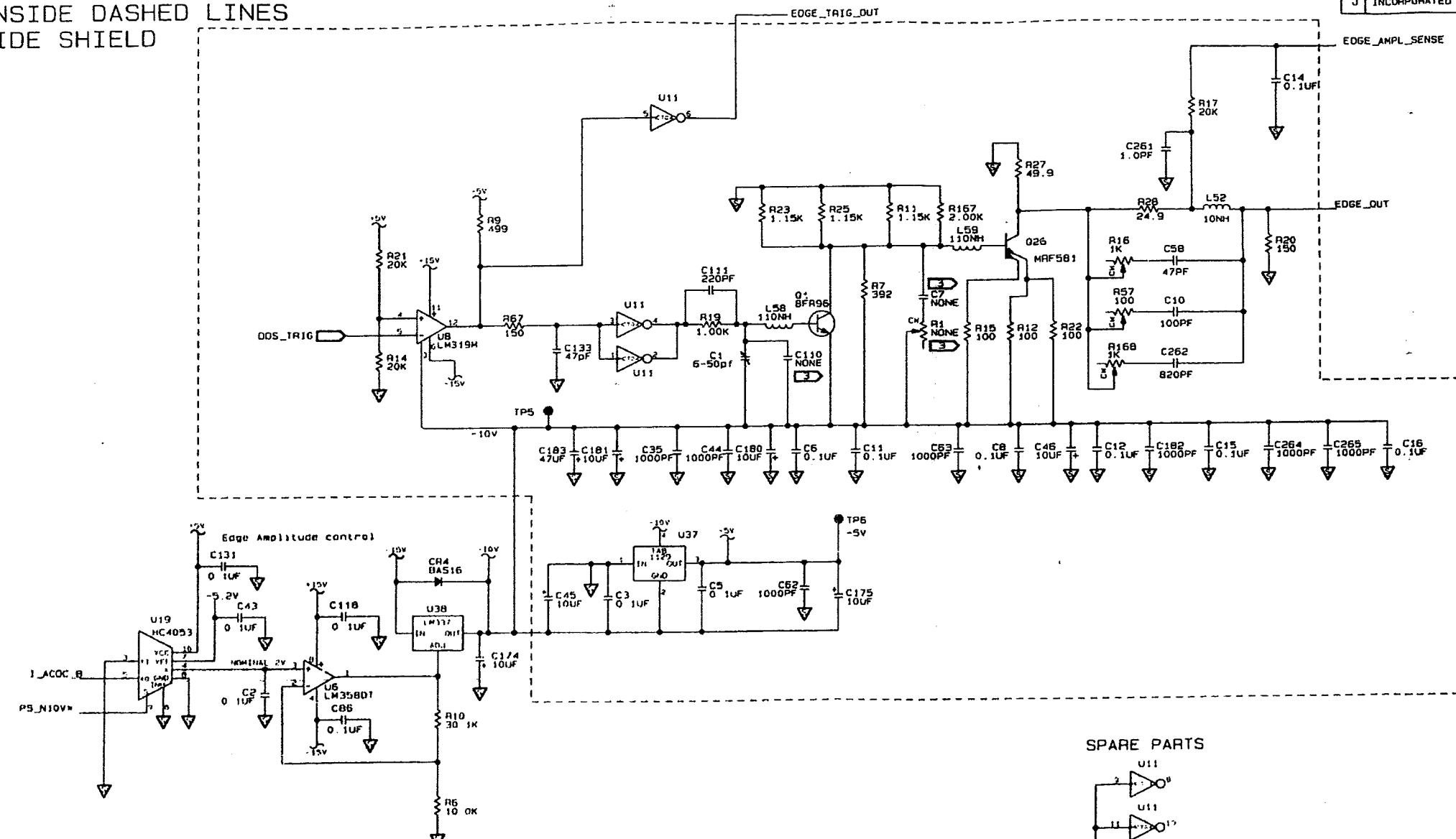
•

EDGE CIRCUIT

**NOTES:** UNLESS OTHERWISE SPECIFIED

1. ALL RESISTORS ARE IN OHMS.  
ALL CAPACITORS ARE IN MICRO FARADS.
2. CHANGES TO THIS DRAWING MUST BE MADE THRU THE DATABASE  
SPECIFIED ON SOFTWARE CONTROL DWG (SCD) 5500A-C90004.
3. R1, C7, C110 AND C93 ARE NOT INSTALLED.
4. OPTIONAL, MAY BE INSTALLED AT TEST.

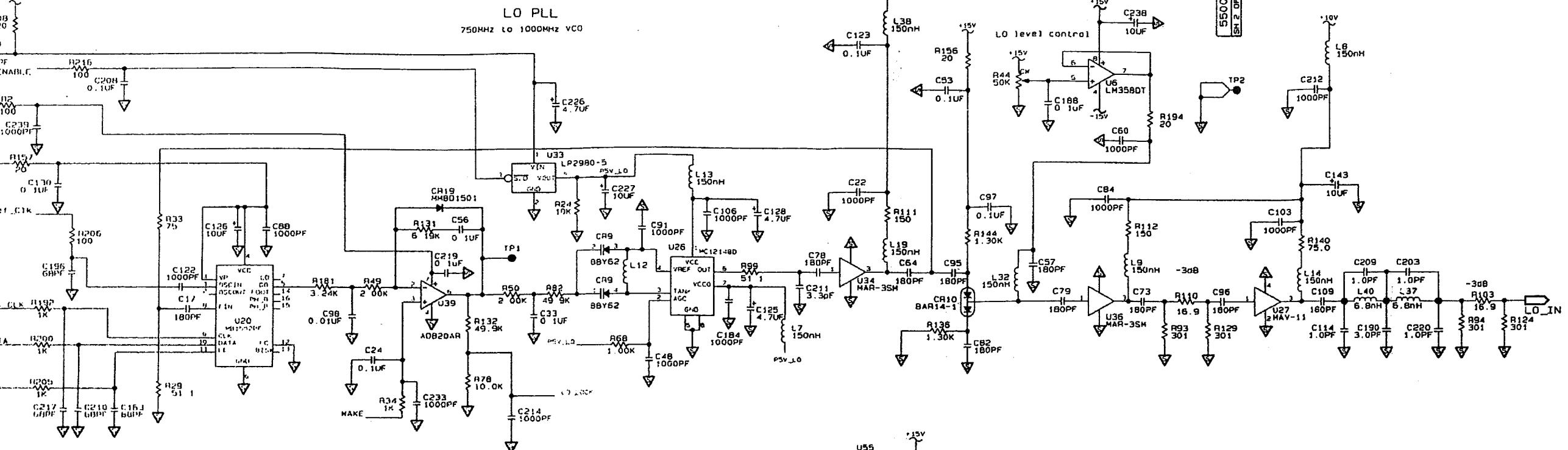
PARTS INSIDE DASHED LINES  
ARE INSIDE SHIELD



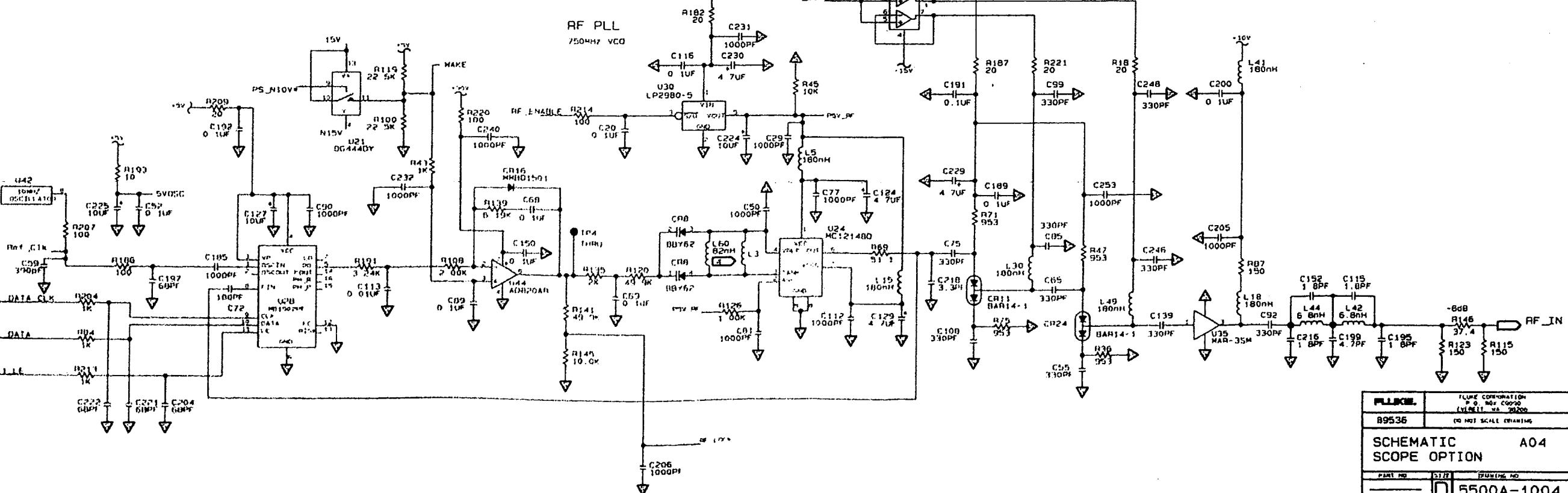
		REVISIONS			APPROVAL/DATE		
J SH-1 OF 5 REV	LTR	DESCRIPTION	DMG	C/H	IRAD ENG	MFG ENG	
	B	RELEASE TO PROTO	JHG	8/29/94			
	C	REVISED PER ENG INPUT	JHG	8/29/94	C		
	D	RELEASE TO DESIGN MODEL	JHG	8/29/94	B.C.		
	E	RELEASE TO PRE-PILOT	JHG	2/27/95			
	F	RELEASE TO PILOT RUN.	JHG	5/24/95	BTB	HW	SH
	G	INC ECO # 5500A-P55 & 5600A-P56 RELEASE TO PILOT RUN II.	JHG	5/24/95	BTB	HW	SH-1-95
	G	RELEASE TO DOCUMENT CONTROL .	JHG	8/19/95	BTB	TEE	SH-1-95
	H	INCORPORATED DCO # 52078.	JHG	8/1/95	BTB	OLD	ECC
	I	INCORPORATED DCO # 52546.	JHG	10/30/95	BTB	10/30/95	10-30-95
	J		JHG	10/30/95			10-30-95

PROPRIETARY

8 7 6 5 4 3 2 1



C C



8 7 6 5 4 3 2 1

PLATE NO.	100V
REF. NO.	5500A-1004
SEE SHEET 1 FOR REVISIONS	
REV. NO.	3
SH. NO.	2 OF 5
SH. NO.	2 OF 5
PLATE NO.	5500A-1004
REF. NO.	3
SEE SHEET 1 FOR REVISIONS	
REV. NO.	3
SH. NO.	2 OF 5
SH. NO.	2 OF 5

SCHEMATIC A04  
SCOPE OPTION

PART NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

5500A-1004

144E 2 or 5 14V J

PLATE NO. DATE DRAWING NO.

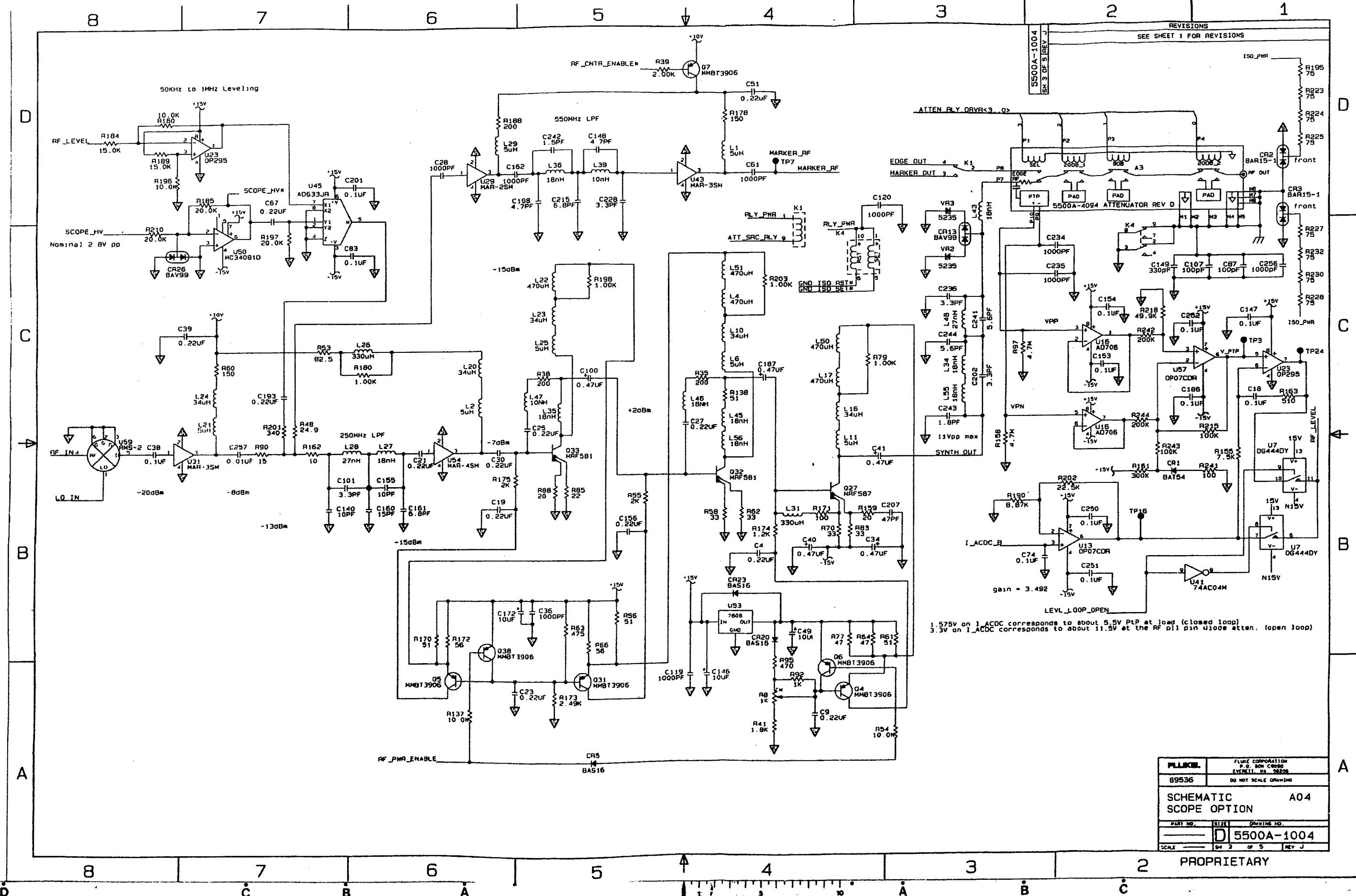
5500A-1004

144E 2 or 5 14V J

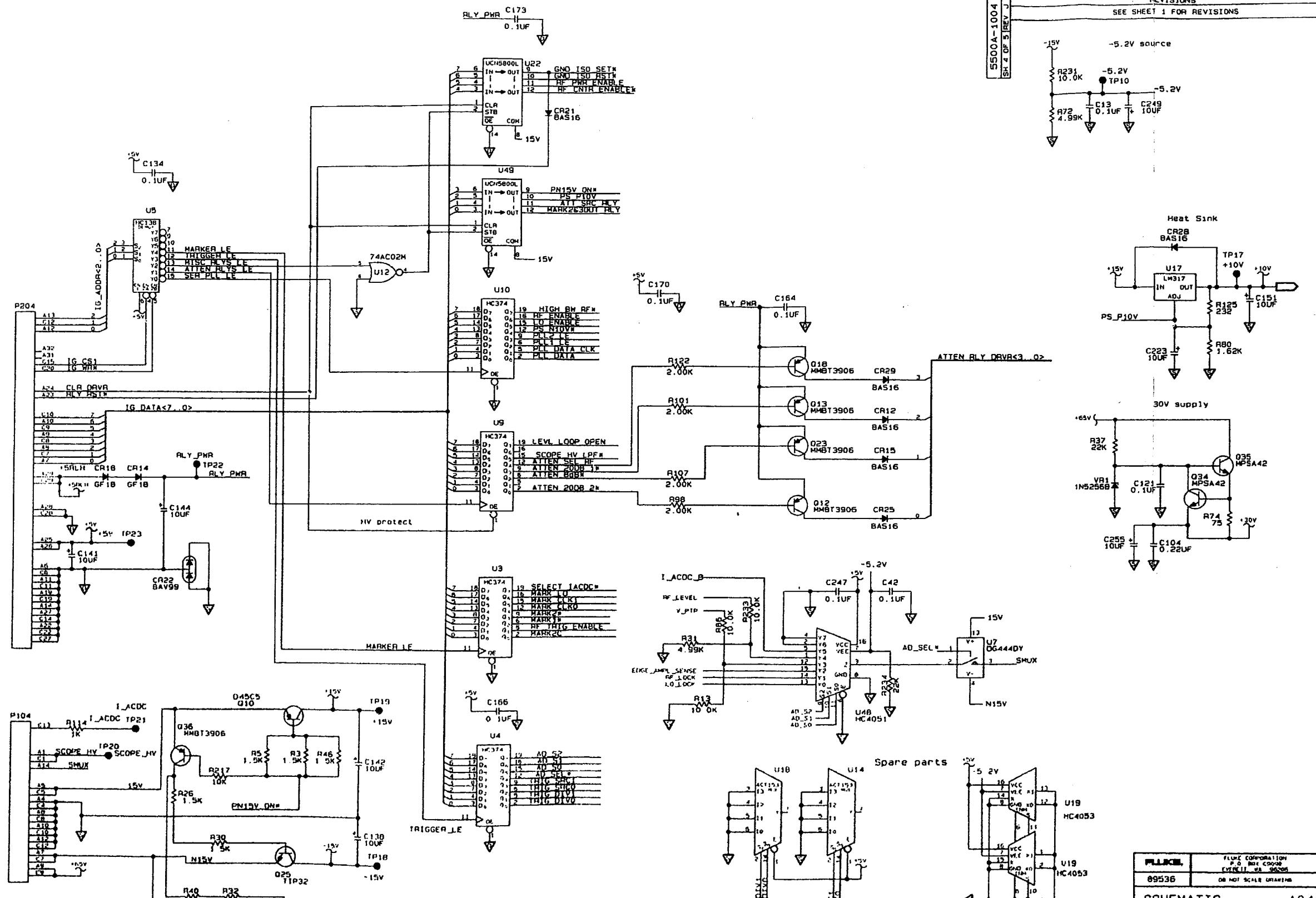
PLATE NO. DATE DRAWING NO.

5500A-1004

14



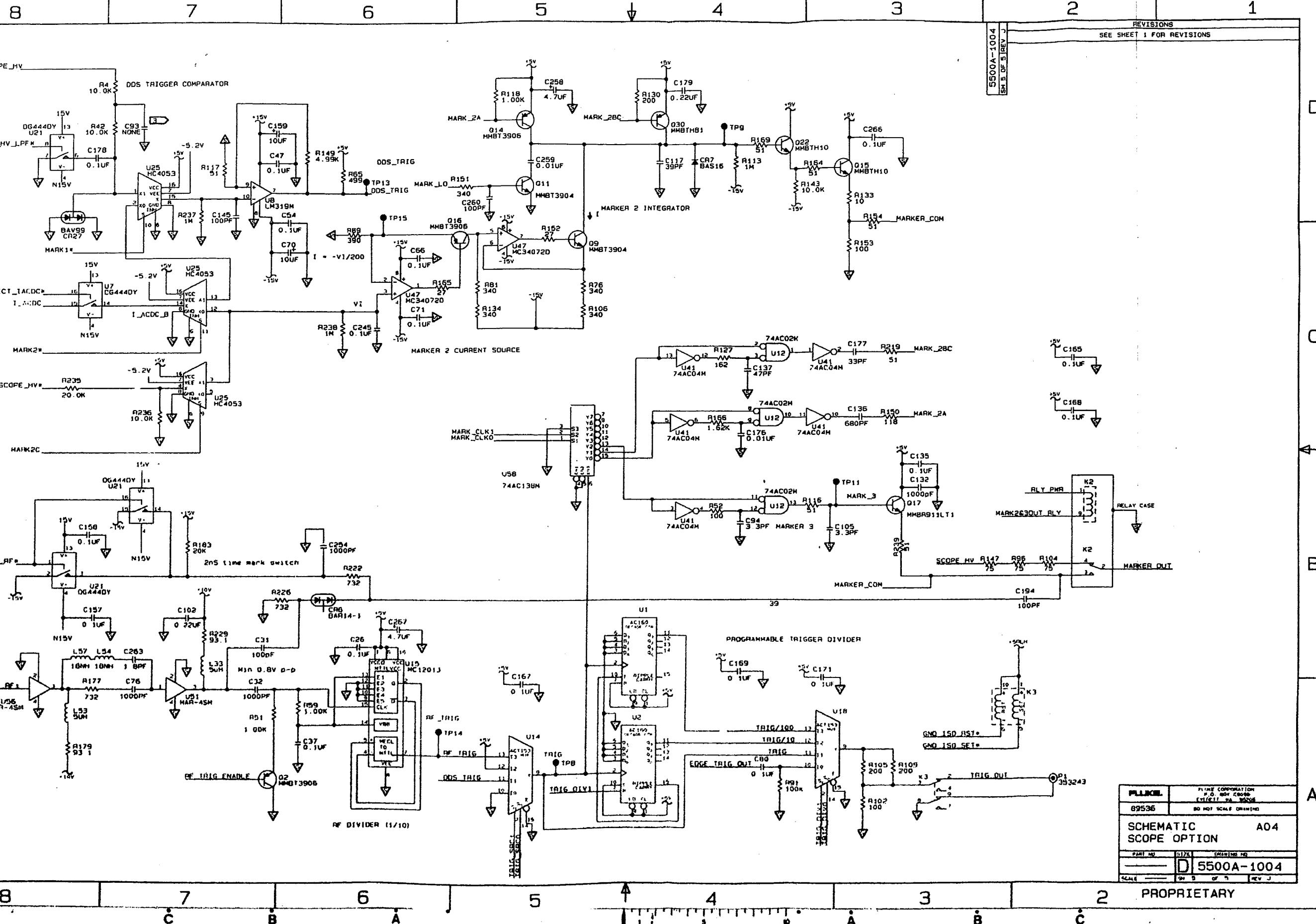
8 7 6 5 4 3 2 1



FLUKE	FLUKE CORPORATION P.O. BOX 1000 EVERTON, FL 32539
69536	DO NOT SCALE DRAWING
SCHEMATIC SCOPE OPTION	A04

8 7 6 5 4 3 2 1

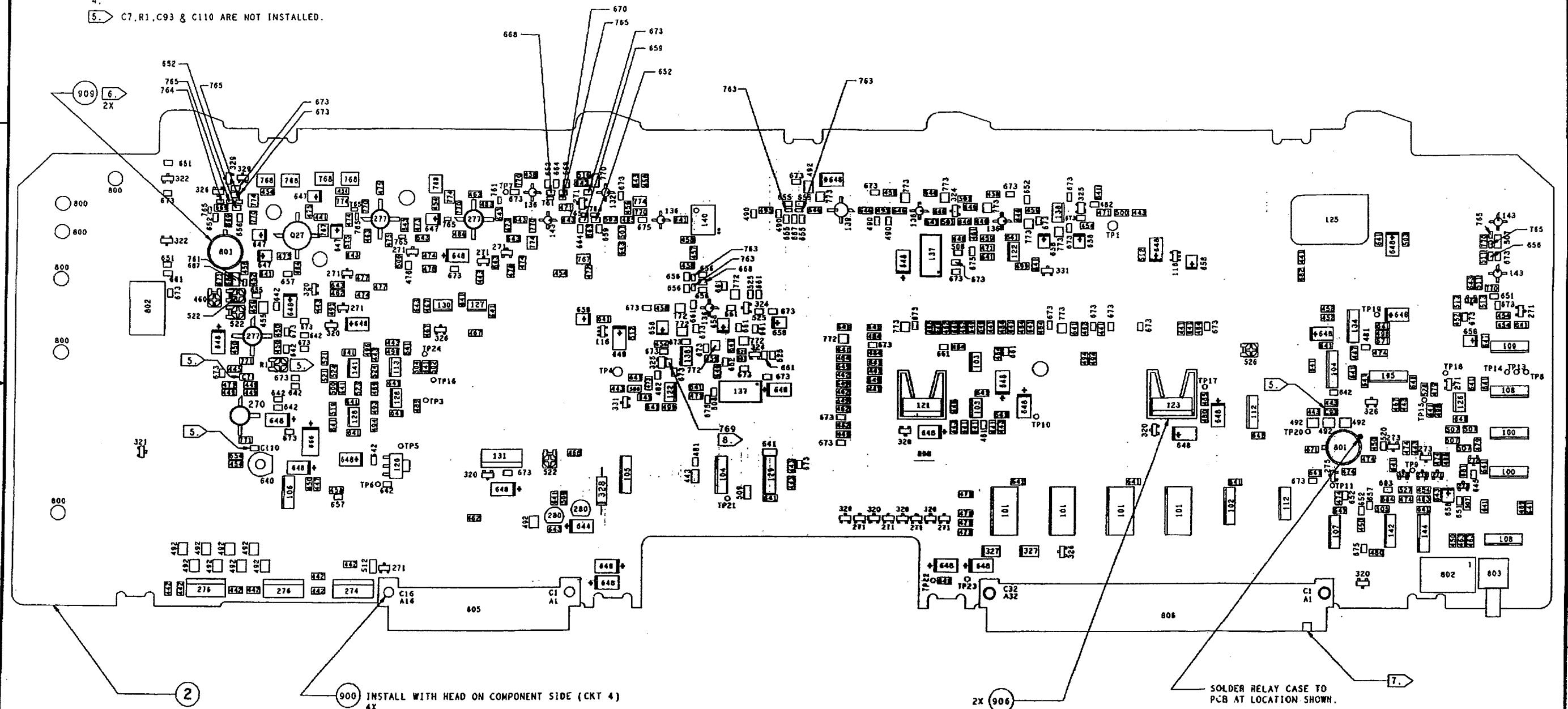
PROPRIETARY



8                    7                    6                    5                    4                    3                    2                    1

**NOTES:** UNLESS OTHERWISE SPECIFIED

1. FOR SCHEMATIC DIAGRAM SEE 5500A-1004.  
FOR REFERENCE DESIGNATOR DRAWING SEE 5500A-1604.
  2. ASSEMBLE PER OSD 111.8.
  - 3.
  - 4.
  5. C7, R1, C93 & C110 ARE NOT INSTALLED.
  6. INSTALL SPACER, ITEM 909, UNDER RELAY, ITEM 801.
  7. NOTCH CONNECTOR, NEAR SIDE, AT POSITION SHOWN (FIRST FROM RIGHT).
  8. OPTIONAL, MAY BE INSTALLED AT TEST.



**CAUTION**  
SUBJECT TO DAMAGE  
STATIC ELECTRICITY

PCA, SCOPE OPTION, A04		
PART NO.	SIZE	DRAWING NO.
SEE TABLE	<b>D</b>	<b>5500A-4004</b>
SCALE NAME	IN 3	OF 3
		REV F

PROPRIETARY

OTY	ITEM	JFPN	DRAWING NO.	DESCRIPTION	REFERENCE DESIGNATOR
1	527	106820	-----	RES,CERM,118,+-1%,125W,100PPM,1206	R150
1	526	928093	-----	RES,VAR,CERM,50K,+-25%	R44
-4	525	106572	-----	RES,CERM,953,+-1%,0.1W,100PPM,0805	R36,R47,R71,R75
2	524	783250	-----	RES,CERM,200K,+-1%,125W,100PPM,1206	R242,R244
1	523	867494	-----	RES,CERM,100,+-1%,125W,100PPM,1206	R241
3	522	912498	-----	RES,VAR,CERM,1K,+-25%	R8,R16,R168
2	521	783282	-----	RES,CERM,4.7N,+-5%,125W,200PPM,1206	R97,R158
1	520	928924	-----	RES,CERM,10,+-1%,0.1W,100PPM,0805	R133
1	519	878016	-----	RES,CERM,8.87K,+-1%,125W,100PPM,1206	R190
1	518	746339	-----	RES,CERM,200,+-5%,125W,200PPM,1206	R188
1	515	746412	-----	RES,CERM,1.2K,+-5%,125W,200PPM,1206	R174
2	513	807677	-----	RES,CERM,732,+-1%,125W,100PPM,1206	R222,R226
3	512	746610	-----	RES,CERM,10K,+-5%,125W,200PPM,1206	R24,R45,R217
2	511	772772	-----	RES,CERM,93.1,+-1%,125W,100PPM,1206	R179,R229
2	509	746651	-----	RES,CERM,22K,+-5%,125W,200PPM,1206	R37,R234
2	508	930102	-----	RES,CERM,3.24K,+-1%,0.1W,100PPM,0805	R181,R191
7	507	876607	-----	RES,CERM,340,+-1%,125W,100PPM,1206	R76,R81,R106,R134
1	506	806448	-----	RES,CERM,2.49K,+-1%,125W,100PPM,1206	R173
1	505	867684	-----	RES,CERM,162,+-1%,125W,100PPM,1206	R127
1	504	746388	-----	RES,CERM,510,+-5%,125W,200PPM,1206	R163
2	503	746214	-----	RES,CERM,10,+-5%,125W,200PPM,1206	R102,R193
1	502	811463	-----	RES,CERM,7.5K,+-1%,125W,100PPM,1206	R155
2	501	780999	-----	RES,CERM,1.30K,+-1%,125W,100PPM,1206	R136,R144
3	500	836379	-----	RES,CERM,49.9K,+-1%,125W,100PPM,1206	R132,R141,R218
2	499	944900	-----	RES,CERM,6.19K,+-1%,125W,100PPM,1206	R131,R139
3	498	836387	-----	RES,CERM,1M,+-1%,125W,100PPM,1206	R113,R237,R238
2	496	769810	-----	RES,CERM,15K,+-1%,125W,100PPM,1206	R184,R189
2	495	944962	-----	RES,CERM,16.9,+-1%,125W,100PPM,1206	R103,R110
3	494	913850	-----	RES,CERM,22.25K,+-1%,100PPM,1206	R100,R119,R202
L	493	746768	-----	RES,CERM,300K,+-5%,125W,200PPM,1206	R161
13	492	929679	-----	RES,CERM,75,+-1%,0.25W,100PPM,1210	R74,R96,R104,R140
					R147,R195,R223-R225
1	491	740506	-----	RES,CERM,470,+-5%,125W,200PPM,1206	R95
4	490	928960	-----	RES,CERM,301,+-1%,0.1W,100PPM,0805	R93,R94,R124,R129
3	489	769802	-----	RES,CERM,100K,+-1%,125W,100PPM,1206	R91,R215,R243
1	485	756940	-----	RES,CERM,15,+-5%,125W,200PPM,1206	R90
11	484	746222	-----	RES,CERM,20,+-5%,125W,200PPM,1206	R108,R156,R157
					R159,R182,R187,R194
					R206,R209,R221
1	483	746230	-----	RES,CERM,22,+-5%,125W,200PPM,1206	R85
2	482	928697	-----	RES,CERM,49.9K,+-1%,0.1W,100PPM,0805	R82,R120
3	481	928767	-----	RES,CERM,4.99K,+-1%,0.1W,100PPM,0805	R31,R72,R149
2	480	810648	-----	RES,CERM,1.62K,+-1%,125W,100PPM,1206	R80,R166
2	479	807735	-----	RES,CERM,27,+-5%,125W,200PPM,1206	R152,R165
2	478	807727	-----	RES,CERM,56,+-5%,125W,200PPM,1206	R66,R172
2	477	746263	-----	RES,CERM,47,+-5%,125W,200PPM,1206	R64,R77
1	476	943642	-----	RES,CERM,475,+-1%,0.1W,100PPM,0805	R65
4	475	746240	-----	RES,CERM,33,+-5%,125W,200PPM,1206	R58,R62,R70,R83
11	474	746271	-----	RES,CERM,51,+-5%,125W,200PPM,1206	R56,R61,R116,R117
					R138,R154,R164,R169
3	473	746461	-----	RES,CERM,2K,+-5%,125W,200PPM,1206	R55,R135,R175
1	472	772764	-----	RES,CERM,82.5,+-1%,125W,100PPM,1206	R53
9	471	807172	-----	RES,CERM,2K,+-1%,125W,100PPM,1206	R39,R49,R50,R98,R101
					R107,R108,R122,R167
4	467	927421	-----	RES,CERM,20K,+-1%,125W,100PPM,1206	R105,R197,R210,R235
1	466	746453	-----	RES,CERM,1.8K,+-5%,125W,200PPM,1206	R41
1	465	811889	-----	RES,CERM,232,+-1%,125W,100PPM,1206	R125
5	463	772798	-----	RES,CERM,200,+-1%,125W,100PPM,1206	R35,R38,R105,R109
10	462	745992	-----	RES,CERM,1K,+-5%,125W,200PPM,1206	R34,R43,R84,R92,R114
					R192,R200,R204,R205
					R213

PARTS LIST

CAUTION  
SUBJECT TO DAMAGE BY  
STATIC ELECTRICITY

OTY	ITEM	JFPN	DRAWING NO.	DESCRIPTION	REFERENCE DESIGNATOR
PARTS LIST					

REVISIONS		APPROVAL / DATE	
LTR	DESCRIPTION	EFF	DRW CIR PAGE ENGR MFG DATE
-	PRE-PILOT	JHG	2/27/95 2/27/95
A	RELEASE TO PILOT RUN:	JHG	2/27/95 2/27/95
B	INC ECO 5500A-P55 THRU 58 RELEASE TO PILOT RUN:	JHG	5/17/95 7/17/95
B1	ADDED FLAGNOTE 7 & VIEW RELEASE TO DOC. CONTROL.	JHG	5/17/95 5/23/95
C	INCORPORATED DCO 52078.	JHG	5/16/95 5/23/95
C1	INCORP. DCO 52260 & 52261	JHG	5/16/95 5/23/95
D	INCORP. DCO 52546.	JHG	5/17/95
D1	INCORP. DCO 52582.	JHG	5/17/95
E	S3346: SHT 2-ITEM 648 QTY WAS 26 ZNB61 ITEM 644 WAS 3-REVISED NOTE 2 DELETED NOTE 4	JHG	5/24/95 5/24/95
F	S4983: SHT 1-ITEM 507 QTY WAS 6 ZNB61 ITEM 644 WAS 3-REVISED NOTE 3 (ADDED R177) SHT3-(ZNC) ITEM 507 WAS 513. DELETED NOTE 3	JHG	5/23/95 5/23/95

TABLE 1	
P/N	NOUN
937383	5500A-4004
600749	5500A-4004-1

OTY	ITEM	JFPN	DRAWING NO.	DESCRIPTION	REFERENCE DESIGNATOR
PARTS LIST					
1	140	107224	-----	NIXER,DOUBLE-BALANCED,5-1000 MHZ	U59
1	139	107193	-----	IC,MONOLITHIC AMPLIFIER,DC-1000 MHZ	U27
2	138	107174	-----	IC,VOLT CONTROL,OSC,300-1100 MHZ,SOIC8	U24,U26
2	137	107166	-----	IC,PLL FREQ SYNTHESIZER,SERIAL,SOIC16	U22,U28
5	136	107216	-----	IC,MONOLITHIC AMPLIFIER,DC-2000 MHZ	U31,U34-36,U43
1	134	107299	-----	IC,COMPARATOR,DUAL,HIGH SPEED,SOIC14	U8
1	132	107208	-----	IC,MONOLITHIC AMPLIFIER,DC-2000 MHZ	U29
1	131	407627	-----	IC,VOLT REG,FIXED,+8 VOLTS,1.5 AMPS	U53
1	130	929992	-----	IC,BIFET,OP AMP,HIGH SR,WIDE BW,SO8	U50
1	129	929278	-----	IC,CMOS,2-1 LINE NUX ANALOG SW,SOIC	U48
2	128	783			

8

7

6

5

4

3

2

1

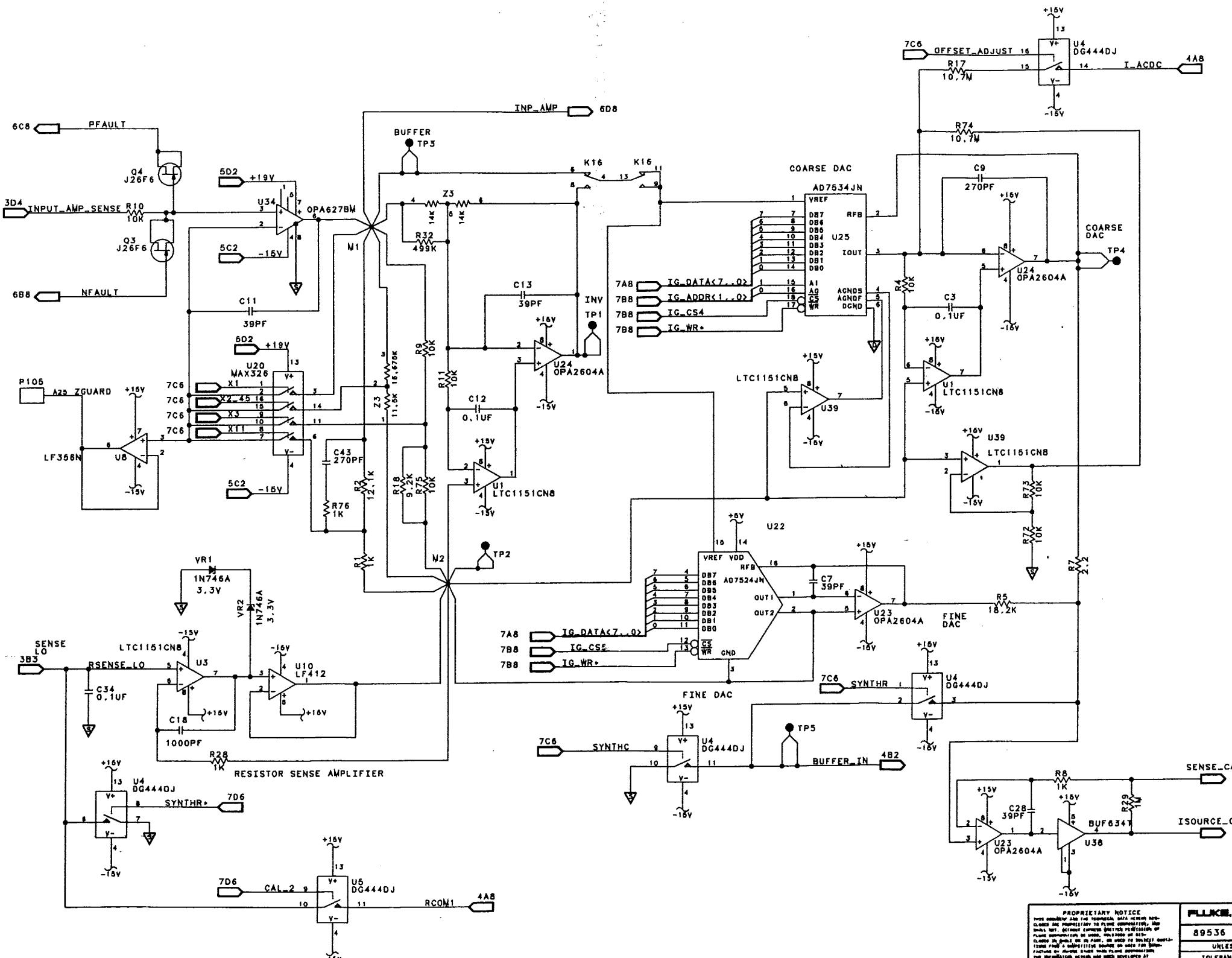
QTY	ITEM	JFPN	DRAWING NO.	DESCRIPTION	REFERENCE DESIGNATOR
PARTS LIST					
2	909	803247	6060A-2048	RELAY WASHER	MP9, MP10
2	906	853408	-----	HEAT DIS, VERT., .75X.50X.50, TO-220	MP7, MP8
4	900	838458	-----	RIVET, S-TUB, OVAL, AL, .087, .343	H1-4
1	808	816090	-----	JUMPER, WIRE, NONIMSUL, 0.200CTR	TP2
1	806	807800	-----	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	P204
1	805	836866	-----	CONN, DIN41612, TYPE 1/2C, RT ANG, 32 PIN	P104
1	803	353243	-----	CONN, COAX, SMB(M), PWB, RT ANG	P1
2	802	910773	-----	RELAY, ARMATURE, 2 FORM C, 5VDC, LATCH	K3, K4
2	801	461087	-----	RELAY, ARMATURE, 2 FORM C, 5VDC	K1, K2
6	800	544056	-----	SOCKET, SINGLE, PWB, FOR .042-.049 PIN	MP12-17
5	774	944509	-----	INDUCTOR, 33UH, +/-10%, 0.115ADC	L10, L11, L20, L23, L24
8	773	844902	-----	INDUCTOR, 0.15UH, +/-5%, 825MHZ	L7-9, L13, L14, L19, L32
6	772	800920	-----	INDUCTOR, 0.18UH, +/-10%, 770MHZ	L5, L15, L18, L30, L41
					L49
2	771	944558	-----	FERRITE CHIP, 70 OHM B100 MHZ, 1206	L5B, L59
9	770	943704	-----	FERRITE CHIP, 600 OHM B100 MHZ, 1206	L1, L2, L6, L11, L21, L25
					L29, L33, L53
8.	769	602042	-----	INDUCTOR, 0.082UH, +/-10%, 0.30ADC	L68
5	768	107257	-----	INDUCTOR, 470UH, +/-10%, 0.080ADC	L4, L17, L22, L50, L51
2	767	107265	-----	INDUCTOR, 330UH, +/-10%, 0.085ADC	L28, L31
11	765	106697	-----	INDUCTOR, 0.018UH, +/-5%, 0.300ADC	L27, L34-36, L43, L45
4	764	106713	-----	INDUCTOR, 0.027UH, +/-5%, 0.30ADC	L28, L48
4	763	106690	-----	INDUCTOR, 0.0058UH, +/-0.0005MH, 0.50ADC	L37, L40, L42, L44
3	761	106705	-----	INDUCTOR, 0.010UH, +/-5%, 0.30ADC	L39, L47, L52
1	687	867403	-----	CAP, CER, 020PF, +/-5%, 50V, COG, 1206	C262
1	686	747352	-----	CAP, CER, 47PF, +/-10%, 50V, COG, 1206	C58
1	684	749240	-----	CAP, CER, 33PF, +/-10%, 50V, COG, 1206	C177
1	683	493908	-----	CAP, CER, 680PF, +/-10%, 50V, COG, 0805	C136
1	682	867278	-----	CAP, CER, 380PF, +/-5%, 50V, COG, 1206	C59
1	681	747261	-----	CAP, CER, 0.01UF, +/-10%, 50V, X7R, 1206	C259
4	675	106146	-----	CAP, CER, 0.01UF, +/-10%, 50V, X7R, 0805	C98, C113, C176, C251
47	673	464378	-----	CAP, CER, 1000PF, +/-10%, 50V, X7R, 0805	C22, C28, C29, C32, C35
					C36, C44, C48, C50, C60
					C61, C63, C76, C77, C81
					C84, C88, C90, C91, C103
					C106, C112, C119, C120
					C122, C132, C162, C182
					C184, C185, C205, C206
					C212-214, C231-235
					C239, C240, C253, C254
					C256, C264, C265
3	671	740571	-----	CAP, CER, 100PF, +/-10%, 50V, COG, 1206	C10, C145, C194
1	670	514166	-----	CAP, CER, 1.5PF, +/-0.5PF, 50V, COG, 0805	C242
2	669	782409	-----	CAP, CER, 5.0PF, +/-10%, 50V, COG, 1206	C241, C244
3	668	806760	-----	CAP, CER, 4.7PF, +/-0.5PF, 50V, COG, 0805	C148, C198, C199
1	667	512137	-----	CAP, CER, 3.0PF, +/-0.3PF, 50V, COG, 0805	C190
1	666	867580	-----	CAP, TA, 47UF, +/-20%, 10V, 7343	C183
2	664	927442	-----	CAP, CER, 6.0PF, +/-0.5PF, 50V, COG, 0805	C161, C215
QTY	ITEM	JFPN	DRAWING NO.	DESCRIPTION	REFERENCE DESIGNATOR

LTR	REV F	REVISIONS		APPROVAL / DATE	
		DESCRIPTION	EFF	DRW	PROJ
S500A-4004	SH 2 OF 3				
1	663	837393	-----	CAP, CER, 15PF, +/-10%, 50V, COG, 1206	C160
11	661	512038	-----	CAP, CER, 330PF, +/-5%, 50V, COG, 0805	C55, C65, C75, C85, C92
				C99, C108, C139, C149	C246, C248
2	659	494781	-----	CAP, CER, 10PF, +/-5%, 50V, COG, 0805	C140, C155
9	658	867262	-----	CAP, TA, 4.7UF, +/-20%, 10V, 7328	C124, C125, C128, C129
				C226, C229, C230, C258	C267
3	657	494633	-----	CAP, CER, 47PF, +/-5%, 50V, COG, 0805	C133, C137, C207
6	650	806745	-----	CAP, CER, 1.0PF, +/-0.25PF, 50V, COG, 0805	C115, C152, C195, C216
5	655	512129	-----	CAP, CER, 1.0PF, +/-0.5PF, 50V, COG, 0805	C114, C203, C209, C220
1	654	758078	-----	CAP, CER, 220PF, +/-10%, 50V, COG, 1206	C111
8	652	942560	-----	CAP, CER, 3.3PF, +/-0.25PF, 50V, COG, 0805	C94, C101, C105, C202
				C211, C218, C228, C236	C249
4	651	867650	-----	CAP, CER, 100PF, +/-1%, 50V, COG, 0805	C31, C87, C107, C260
1	650	867668	-----	CAP, CER, 1000PF, +/-1%, 50V, COG, 1206	C62
8	649	853861	-----	CAP, CER, 6.0PF, +/-10%, 50V, COG, 1206	C163, C196, C197, C204
25	648	927814	-----	CAP, TA, 1.0UF, +/-20%, 25V, 6032	C45, C48, C49, C70, C126
				C127, C138, C141-144	C146, C151, C159, C172
				C174, C175, C180, C181	C223-225, C227, C238
5	647	867259	-----	CAP, TA, 0.47UF, +/-20%, 35V, 7328	C34, C40, C41, C100
				C167	C169
11	646	769778	-----	CAP, CER, 180PF, +/-10%, 50V, COG, 1206	C17, C57, C64, C72, C73
				C74, C79, C82, C95, C96	C109
1	645	845102	-----	CAP, CER, 39PF, +/-5%, 50V, COG, 0805	C117
1	644	930243	-----	CAP, TA, 1.0UF, +/-20%, 35V, 7343	C255
16	643	740597	-----	CAP, CER, 0.22UF, +/-20%, 50V, Y5V, 1206	C4, C9, C19, C21, C23
				C25, C27, C30, C39, C51	C67, C102, C104, C156
				C179, C193	C179, C193
9	642	942529	-----	CAP, CER, 0.1UF, +/-10%, 25V, X7R, 0805	C3, C5, C6, C8, C11, C12
				C15, C16, C170	C18, C19, C20
65	641	747287	-----	CAP, CER, 0.1UF, +/-10%, 25V, X7R, 1206	C24, C26, C33, C37, C38
				C42, C43, C47, C52-54	C56, C66, C68, C69, C71
				C74, C80, C83, C86, C89	C97, C116, C118, C121
				C123, C130, C131, C134	C135, C147, C150, C153
				C154, C157, C158	C164-171, C173, C186
				C188, C189, C191, C192	C188, C189, C191, C192
				C200, C201, C208, C219	C245, C247, C250-252
				C266	C266
1	640	832329	-----	CAP, VAR, 6-50PF, 50V, CER	C1
1	528	740498	-----	RES, CERM, 380, +/-5%, 125W, 200PPM, 1206	R80
QTY	ITEM	JFPN	DRAWING NO.	DESCRIPTION	REFERENCE DESIGNATOR

PARTS LIST	
PCA, SCOPE OPTION, A04	
PART NO.	SIZE
SEE TABLE D	5500A-4004
SCALE MM	IN 2 OF 3 REV F

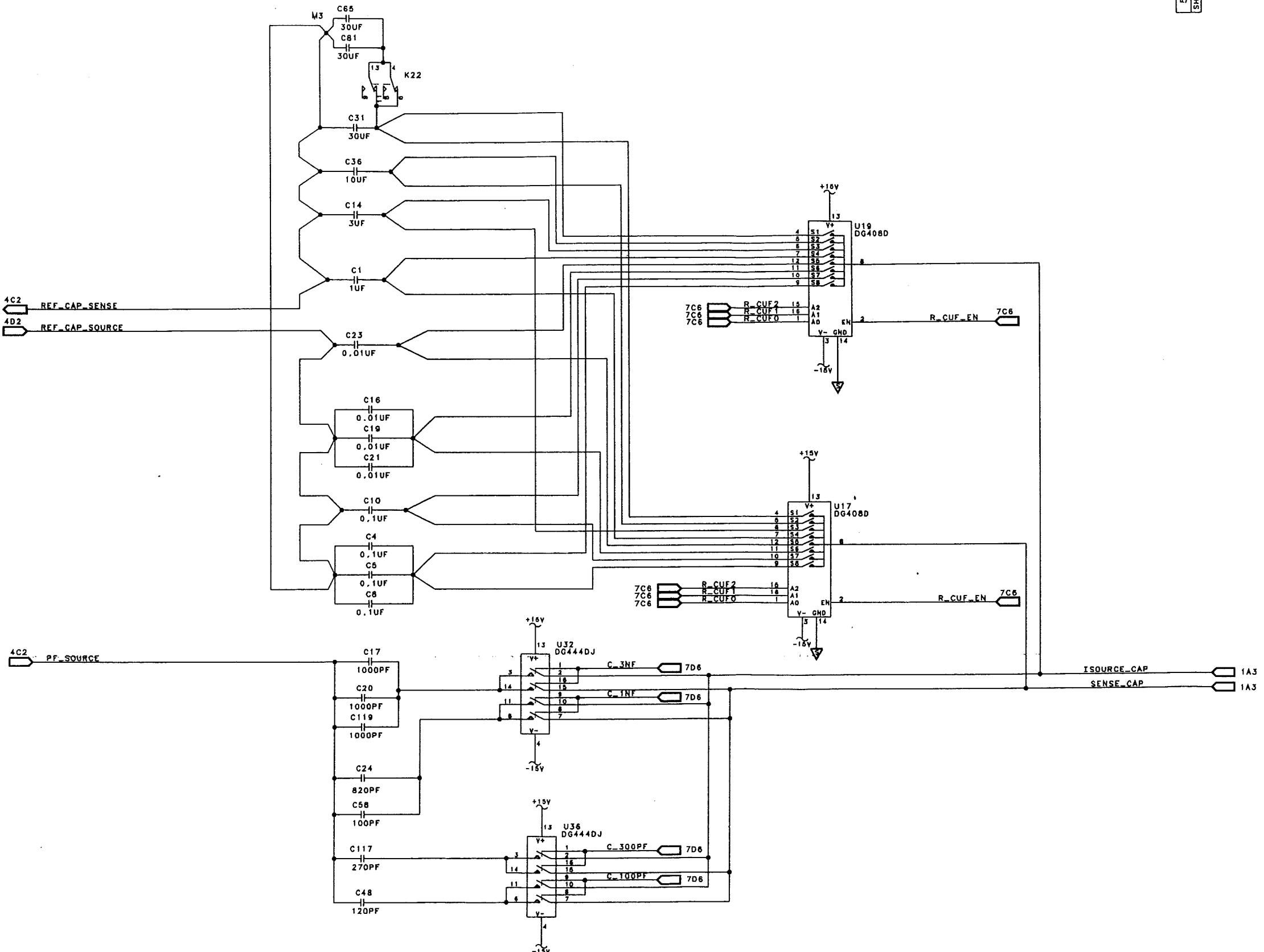
PROPRIETARY

NOTES: UNLESS OTHERWISE SPECIFIED  
1. ALL RESISTORS ARE IN OHMS.



REVISIONS		APPROVAL DATE			
LTR	DESCRIPTION	DIN	CHE	PROD ENGR	WFQ ENGR
B	RELEASE TO PHASE II	JHG 2/14/84			
C	RELEASE TO PRE-PILOT	JHG 3/22/84			
D	RELEASE TO PILOT RUN	JHG 6/12/84			
E	INCORPORATED ECO 5500A-P34 AND P41.	A.M. 10-14-84			
F	INCORPORATED ECO 5500A-112 SUPPRESSED DEVELOPMENT INFO RELEASE TO DOCUMENT CONTROL	JHG 11/16/84	AEN 11/28/84	HW 12/1/84	SH 12/2/84
G	INCORPORATED DCO 51081.	JHG 3/27/85	AEN 4/18/85	HW 4/28/85	SH 4/28/85
H	SHT 1 (ZNC7) U20 WAS DG444DJ.	K.P. 6/1/85		LAH 6/3/85	
J	52669: SHT 1 (ZNC7) +19V WAS +17V -15V WAS -17V SHT 5 (ZNC4) VR3 WAS 1N967B, 1BV. (ZND4) VR4 WAS 1N967B, 1BV. (ZNC2) -15V WAS -17V. SHT 6 (ZND2) +19V WAS +17V. SHT 6 (ZND6) VALUE OF R12 WAS 10K. VALUE OF R14 WAS 18.2K. +4.7V WAS +4V.	K.P. 4/9/86		LAH 4/23/86	
K	53915: SHT 5 (ZNBB) RE-ORIENTED C100.	K.P. 5/28/87			
100	W1004735 SEE PDM RECORD FOR CHANGE DESCRIPTION				

PROPRIETARY NOTICE		FLUKE CORPORATION P.O. BOX C9980 EVERETT, WA 98208		DRAWING NO.	
89536		DO NOT SCALE DRAWING		A05	
PROJ ENGR		ARNOULD E. HORDENG		REV 100	
MFG ENGR		81-329-04			
UNLESS OTHERWISE SPECIFIED					
TOLERANCE		DIMENSIONS IN INCHES			
XX = +/-		FE"			
XXX = +/-		ANGLES +/-			
REF DES		PARTNAME			
U31		74HC04N		+300MV	
U14		74HC138		+15V	
U9, U11-13		74HC374		+5V	
U25		AD7534JN			
U36		DG444DJ			
U30, U32,		UCN5801A			
U36, U32,		MAX326			
U30, U28,					
U30, U28,					
U20					
REF DES		PARTNAME			
U31		74HC04N			
U14		74HC138			
U9, U11-13		74HC374			
U25		AD7534JN			
U36		DG444DJ			
U30, U32,		UCN5801A			
U36, U32,		MAX326			
U30, U28,					
U20					
REF DES		PARTNAME			
U31		74HC04N			
U14		74HC138			
U9, U11-13		74HC374			
U25		AD7534JN			
U36		DG444DJ			
U30, U32,		UCN5801A			
U36, U32,		MAX326			
U30, U28,					
U20					
REF DES		PARTNAME			
U31		74HC04N			
U14		74HC138			
U9, U11-13		74HC374			
U25		AD7534JN			
U36		DG444DJ			
U30, U32,		UCN5801A			
U36, U32,		MAX326			
U30, U28,					
U20					
REF DES		PARTNAME			
U31		74HC04N			
U14		74HC138			
U9, U11-13		74HC374			
U25		AD7534JN			
U36		DG444DJ			
U30, U32,		UCN5801A			
U36, U32,		MAX326			
U30, U28,					
U20					
REF DES		PARTNAME			
U31		74HC04N			
U14		74HC138			
U9, U11-13		74HC374			
U25		AD7534JN			
U36		DG444DJ			
U30, U32,		UCN5801A			
U36, U32,		MAX326			
U30, U28,					
U20					
REF DES		PARTNAME			
U31		74HC04N			
U14		74HC138			
U9, U11-13		74HC374			
U25		AD7534JN			
U36		DG444DJ			
U30, U32,		UCN5801A			
U36, U32,		MAX326			
U30, U28,					
U20					
REF DES		PARTNAME			
U31		74HC04N			
U14		74HC138			
U9, U11-13		74HC374			
U25		AD7534JN			
U36		DG444DJ			
U30, U32,		UCN5801A			
U36, U32,		MAX326			
U30, U28,					
U20					
REF DES		PARTNAME			
U31		74HC04N			
U14		74HC138			
U9, U11-13		74HC374			
U25		AD7534JN			
U36		DG444DJ			
U30, U32,		UCN5801A			
U36, U32,		MAX326			
U30, U28,					
U20					
REF DES		PARTNAME			
U31		74HC04N			
U14		74HC138			
U9, U11-13		74HC374			
U25		AD7534JN			
U36		DG444DJ			
U30, U32,		UCN5801A			
U36, U32,		MAX326			
U30, U28,					
U20					
REF DES		PARTNAME			
U31		74HC04N			
U14		74HC138			
U9, U11-13		74HC374			
U25		AD7534JN			
U36		DG444DJ			
U30, U32,		UCN5801A			
U36, U32,		MAX326			
U30, U28,					
U20					
REF DES		PARTNAME			
U31		74HC04N			
U14		74HC138			
U9, U11-13		74HC374			
U25		AD7534JN			
U36		DG444DJ			
U30, U32,		UCN5801A			
U36, U32,		MAX326			
U30, U28,					
U20					
REF DES		PARTNAME			
U31		74HC04N			
U14		74HC138			
U9, U11-13		74HC374			
U25		AD7534JN			
U36		DG444DJ			
U30, U32,		UCN5801A			
U36, U32,		MAX326			
U30, U28,					
U20					
REF DES		PARTNAME			
U31		74HC04N			
U14		74HC138			
U9, U11-13		74HC374			
U25		AD7534JN			
U36		DG444DJ			
U30, U32,		UCN5801A			
U36, U32,		MAX326			
U30, U28,					
U20					
REF DES		PARTNAME			
U31		74HC04N			
U14		74HC138			
U9, U11-13		74HC374			
U25		AD7534JN			
U36		DG444DJ			

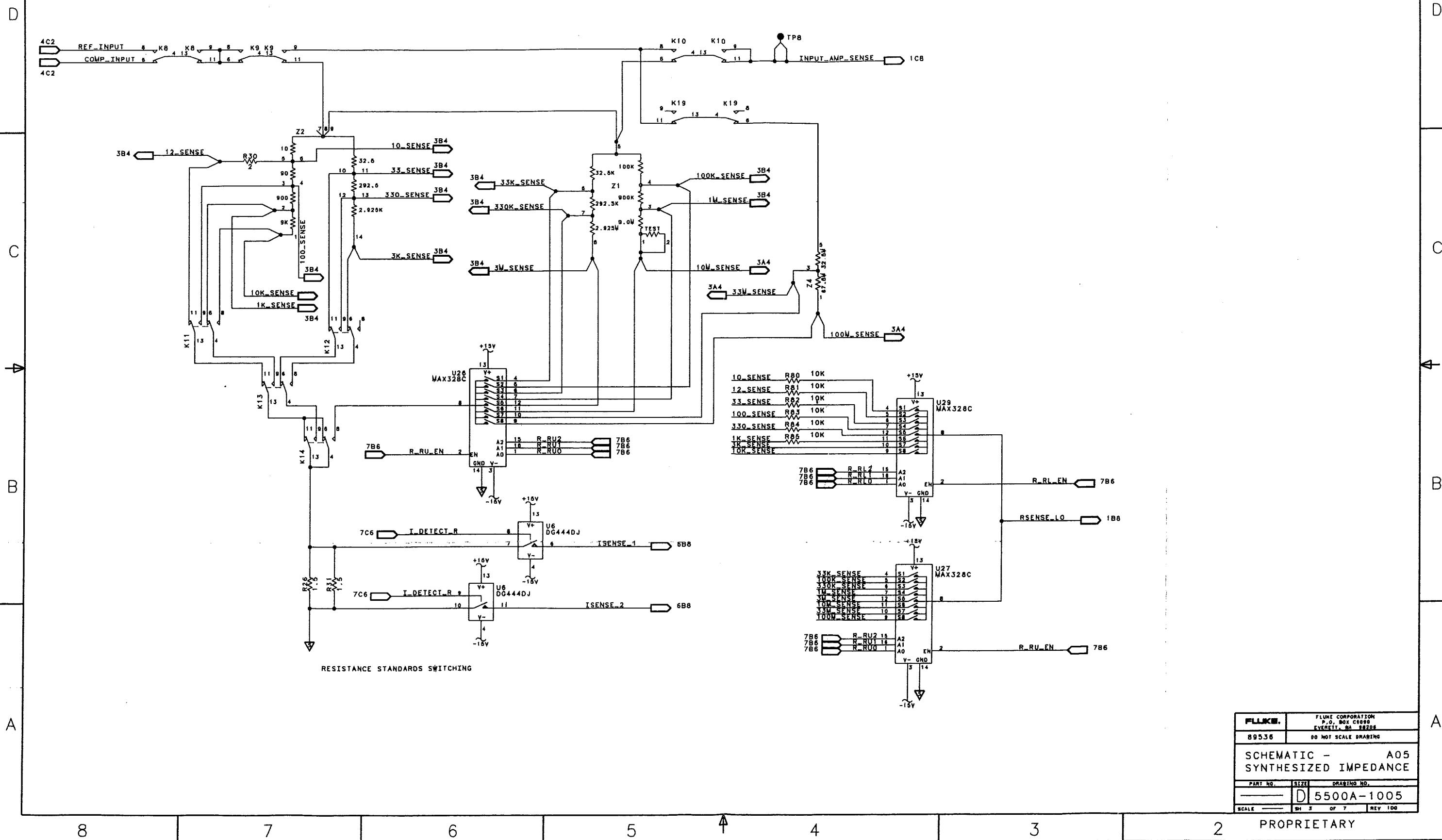
5500A-1005  
SH 2 OF 7 REV 100

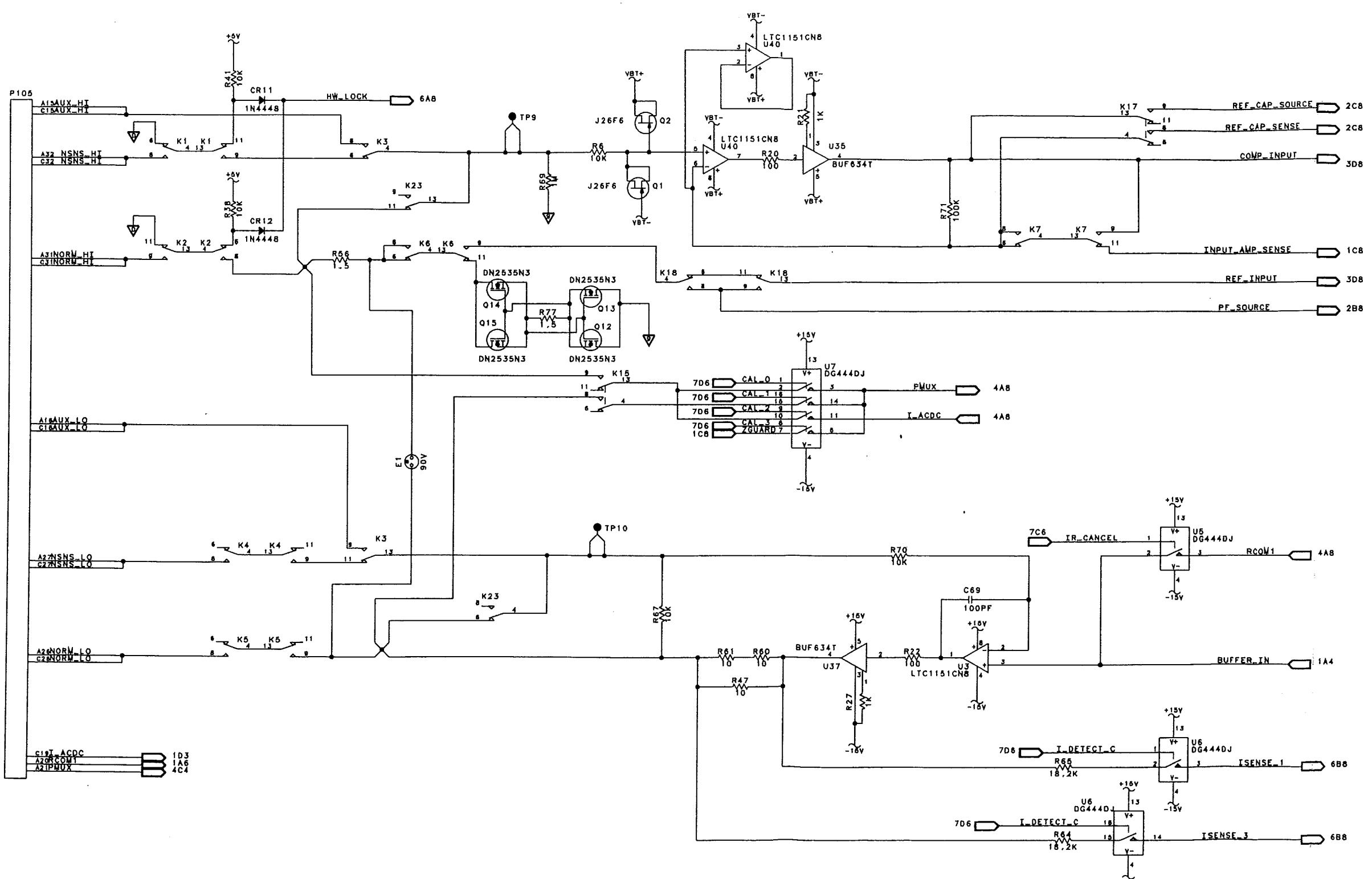
FLUKE	FLUKE CORPORATION P.O. BOX 6100 EVERETT, WA 98203
89536	DO NOT SCALE DRAWING
<b>SCHEMATIC - A05</b>	
PART NO.	SIZE DRAWING NO.
D 5500A-1005	SH 2 OF 7 REV 100

SCALE — SH 2 OF 7 REV 100

REVISIONS  
SEE SHEET 1 FOR REVISIONS

5500A-1005  
SH 3 OF 7 REV 100





FLUKE	FLUKE CORPORATION P.O. BOX C9000 EVERETT, WA 98208
89536	DO NOT SCALE DRAWING
<b>SCHEMATIC - A05 SYNTHESIZED IMPEDANCE</b>	
PART NO.	SIZE
D 5500A-1005	DRAWING NO.
SCALE	SH 4 OF 7 REV 100

PROPRIETARY

8

7

6

5

4

3

2

1

REVISIONS  
SEE SHEET 1 FOR REVISIONS

5500A-1005  
SH 5 OF 7 REV 100

D

D

C

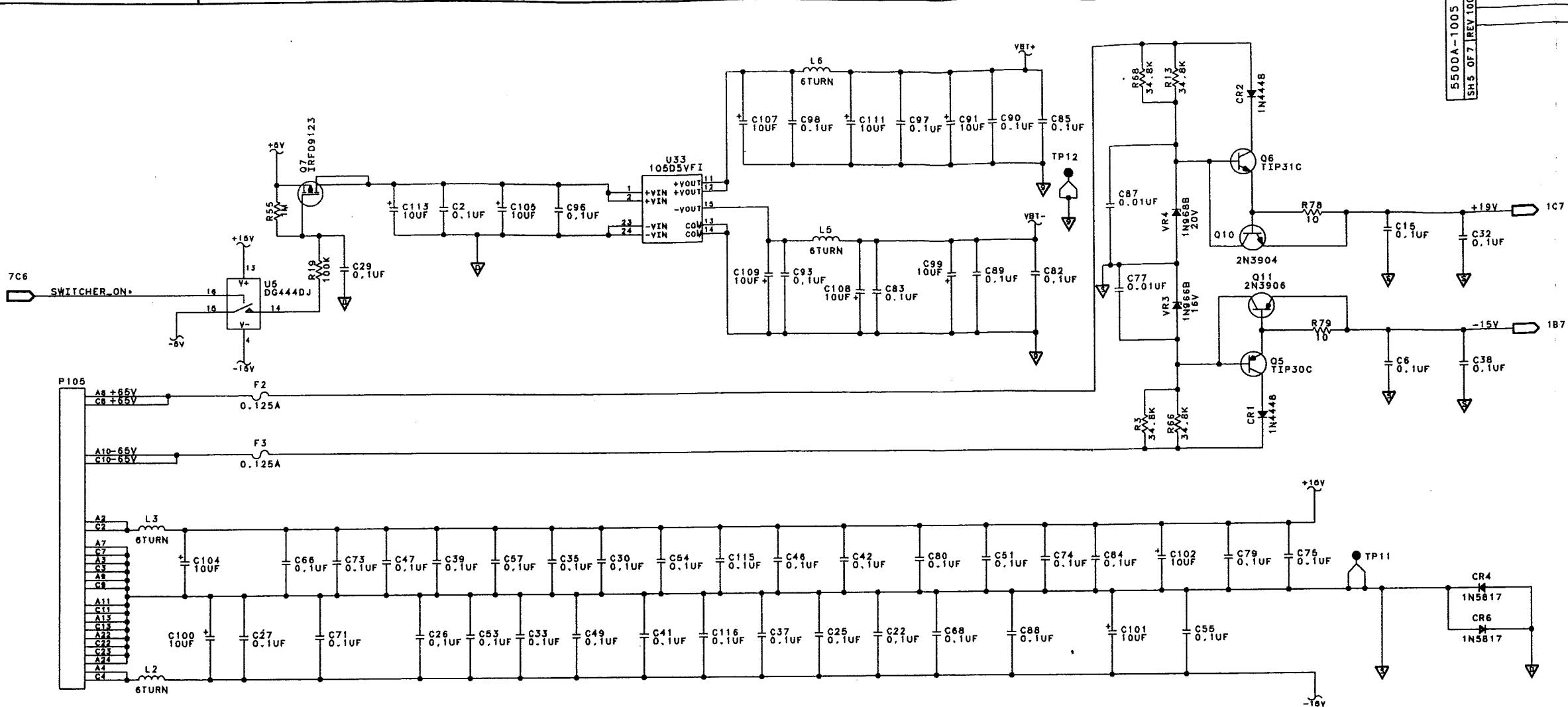
C

B

B

A

A



FLUKE CORPORATION P.O. BOX C6088 EVERETT, WA 98203	
89536	DO NOT SCALE DRAWING
<b>SCHEMATIC - A05 SYNTHESIZED IMPEDANCE</b>	
PART NO.	SIZE
D	5500A-1005
SCALE	IN 6 OF 7 REV 100

PROPRIETARY

8

7

6

5

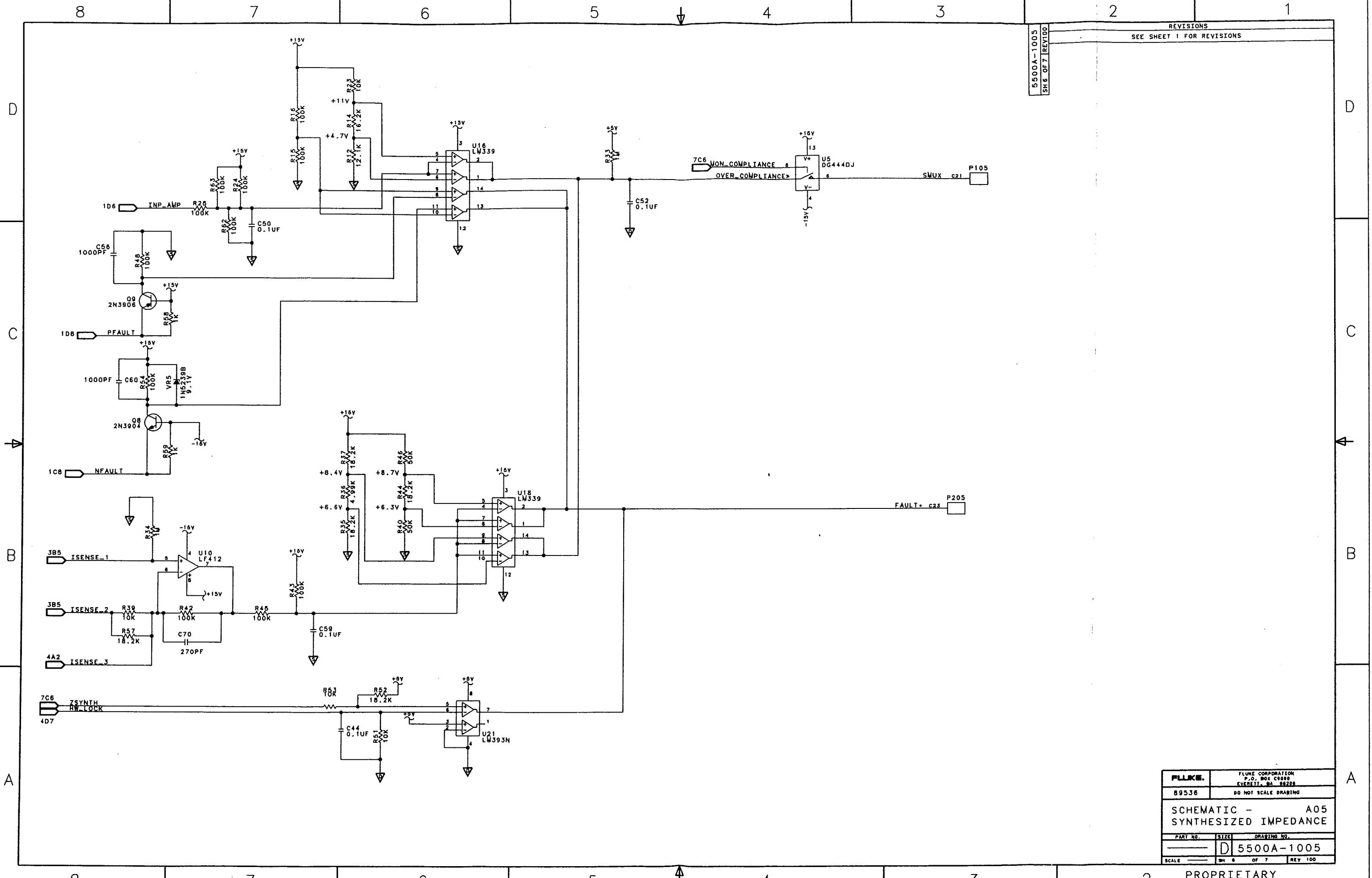
4

3

2

8 7 6 5 4 3 2 1

REVISIONS  
SEE SHEET 1 FOR REVISIONS  
5500A-1005  
SH 6 OF 7 REV 100



FLUKE	FLUKE CORPORATION P.O. BOX C6800 EVERETT, WA 98208	
89536	DO NOT SCALE DRAWING	
SCHEMATIC - A05 SYNTHESIZED IMPEDANCE		
PART NO.	SIZE	DRAWING NO.
D 5500A-1005		REV 100
SCALE	SH 6 OF 7	REV 100

PROPRIETARY



NOTES: UNLESS OTHERWISE SPECIFIED.

1. FOR SCHEMATIC DIAGRAM SEE 5500A-1005.
  - 2.
  3. ASSEMBLE PER OSD 111.8.

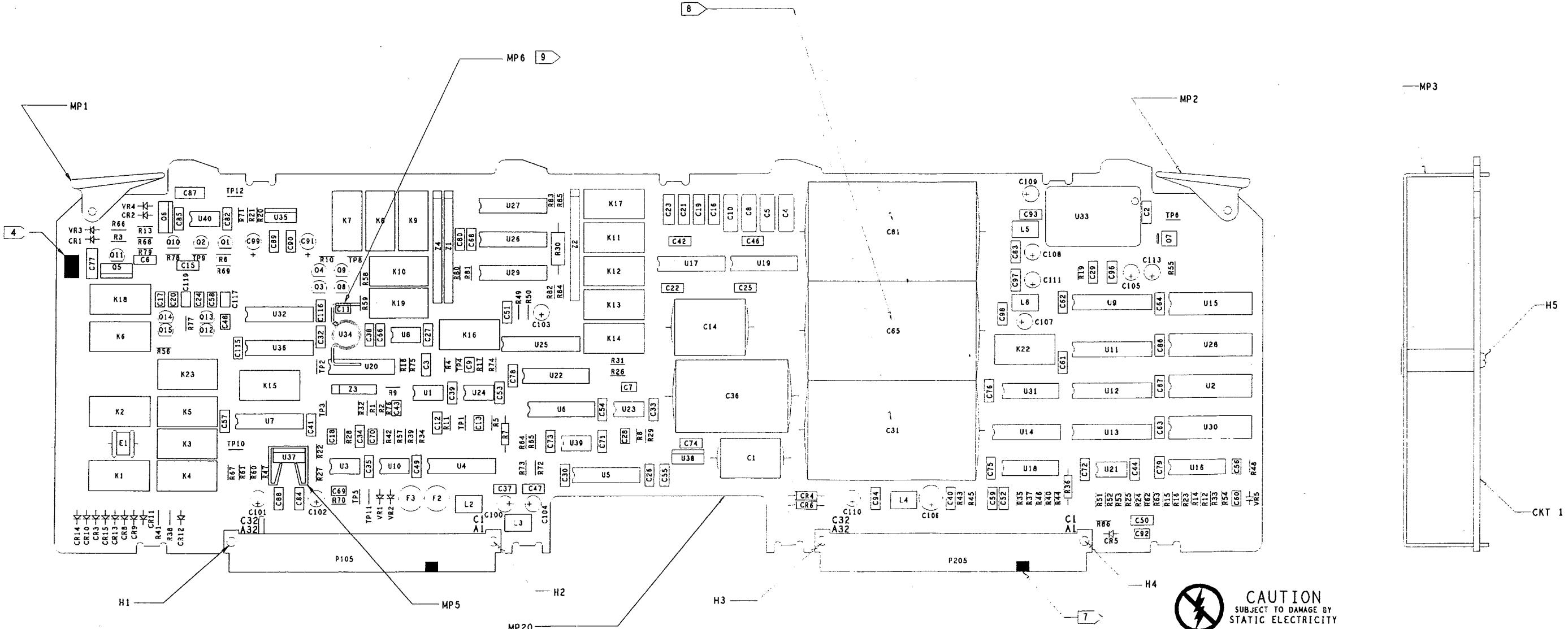
**[4] →** MARK ASSEMBLY REVISION LETTER IN SPACE PROVIDED, USING PERMANENT BLACK FELT TIP MARKER.

REVISIONS							APPROVAL / DATE		
REV 100	LTR	DESCRIPTION	EFF	DWN		CHG		PROJ ENGR MFG ENGR	
				SH 1	SH 1	CH 1	CH 1	PROJ ENGR	MFG ENGR
100		W1004735 SEE PDM RECORD FOR CHANGE DESCRIPTION							

**[7] NOTCH CONNECTORS, NEAR SIDE, IN POSITIONS SHOWN, (2ND FROM RIGHT).**

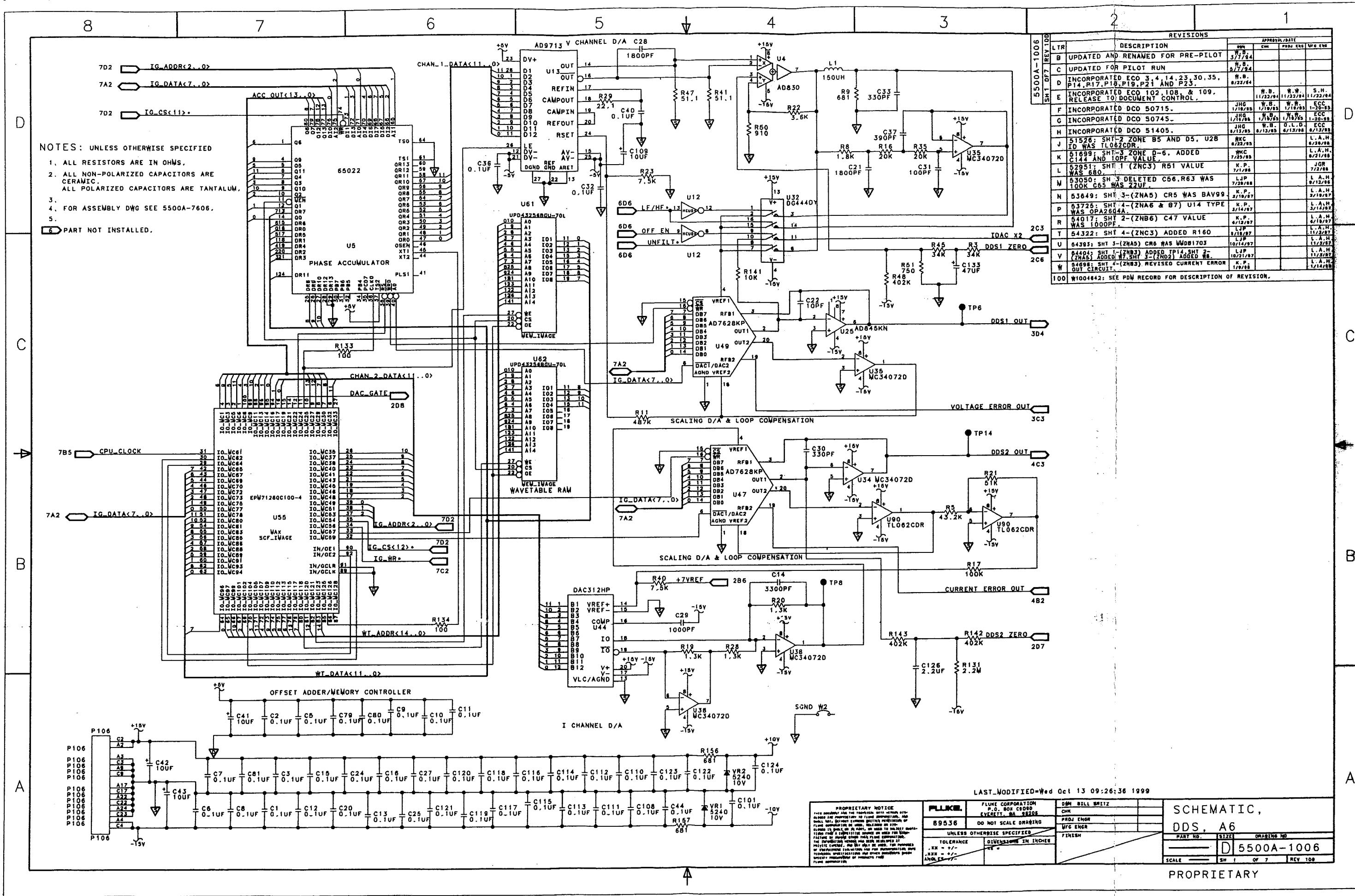
**[8] CAPACITORS, C31,C65,C81 MUST BE SEATED TIGHTLY INTO THE OPENINGS IN PCB.**

**[9] TOP OF MP6 MUST BE A MAXIMUM OF 1.15 INCHES FROM SURFACE OF PCB WHEN INSTALLED ON U34.**

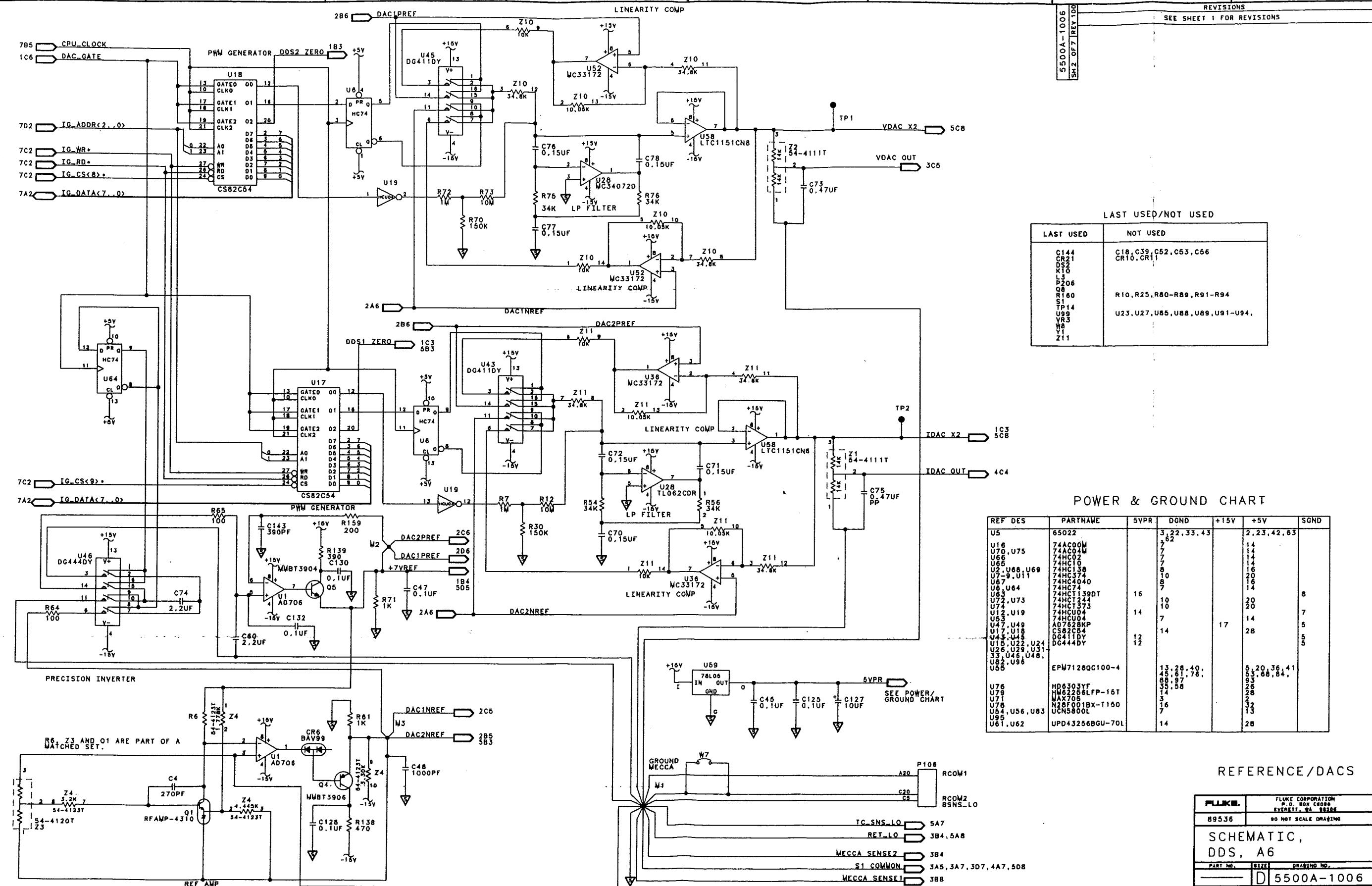


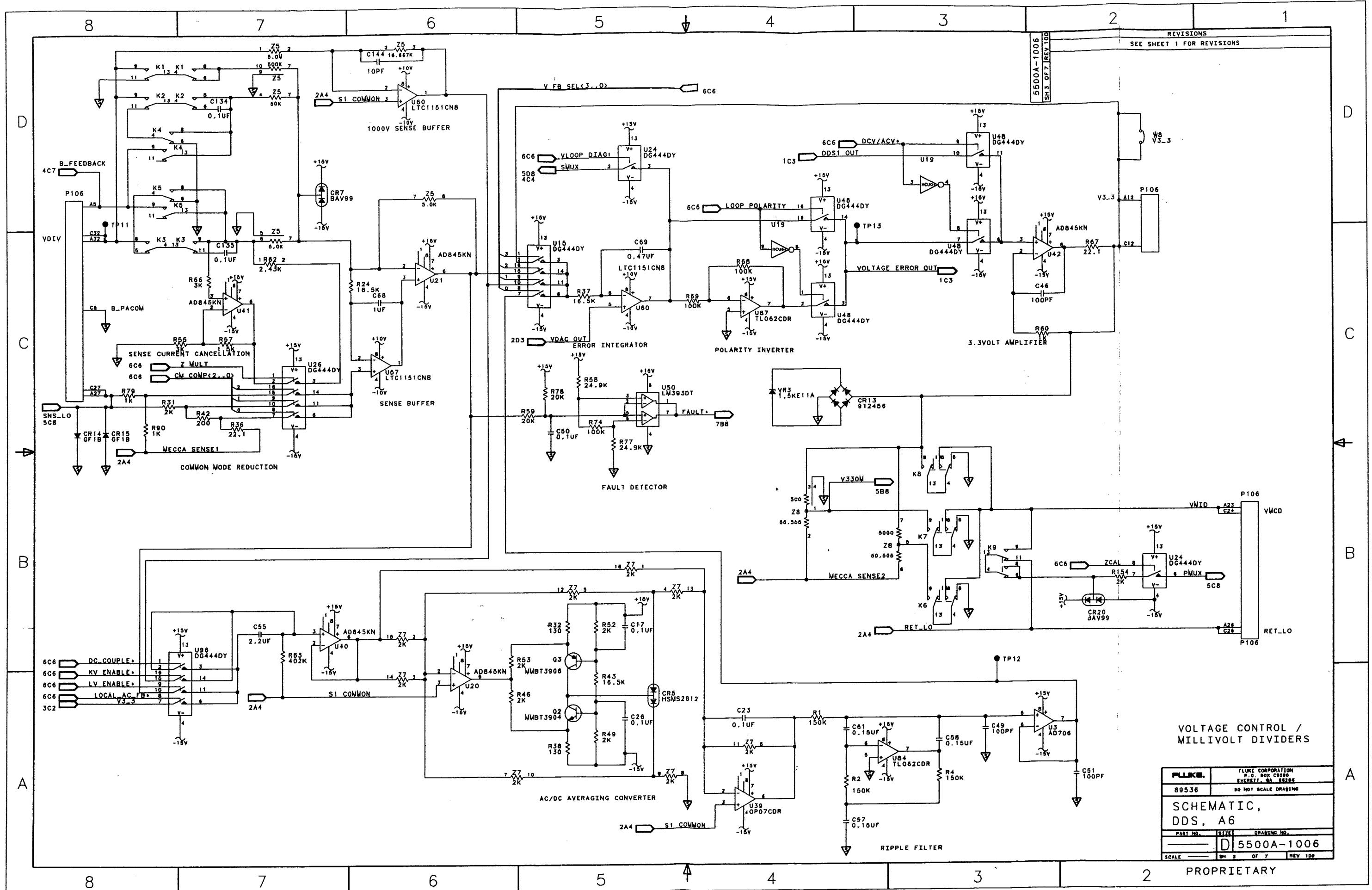
**CAUTION**  
SUBJECT TO DAMAGE BY  
STATIC ELECTRICITY

PROPRIETARY



8 7 6 5 4 3 2 1





8

7

6

5

4

3

2

1

D

D

C

C

B

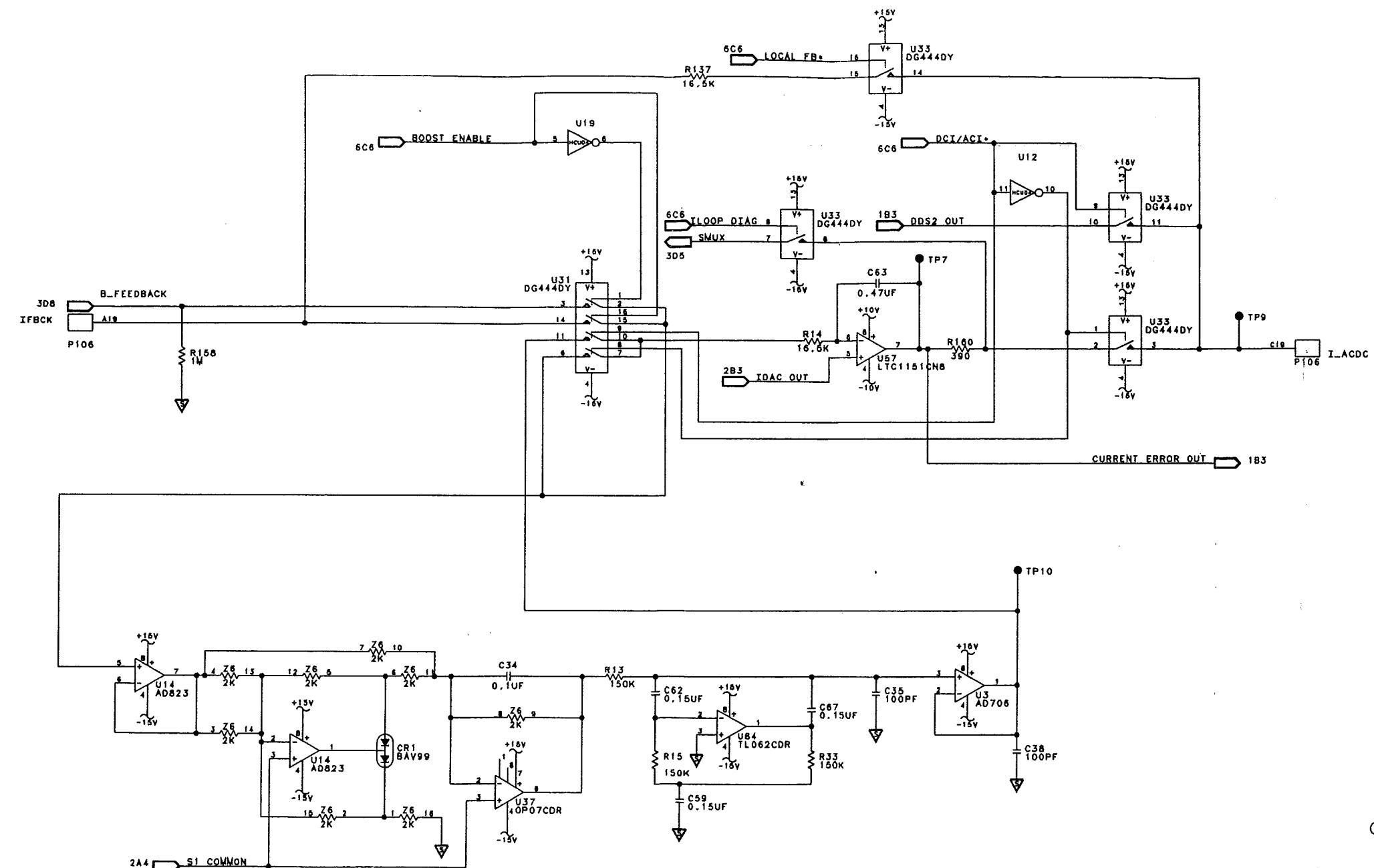
B

A

A

REVISIONS  
SEE SHEET 1 FOR REVISIONS

5500A-1006  
SH 4 OF 7 REV 100



### CURRENT CONTROL

FLUKE	FLUKE CORPORATION P.O. BOX 3800 EVERETT, WA 98203
89536	DO NOT SCALE DRAWING
<b>SCHEMATIC, DDS, A6</b>	
PART NO.	SIZE
D	5500A-1006
SCALE	SH 4 OF 7 REV 100

8

7

6

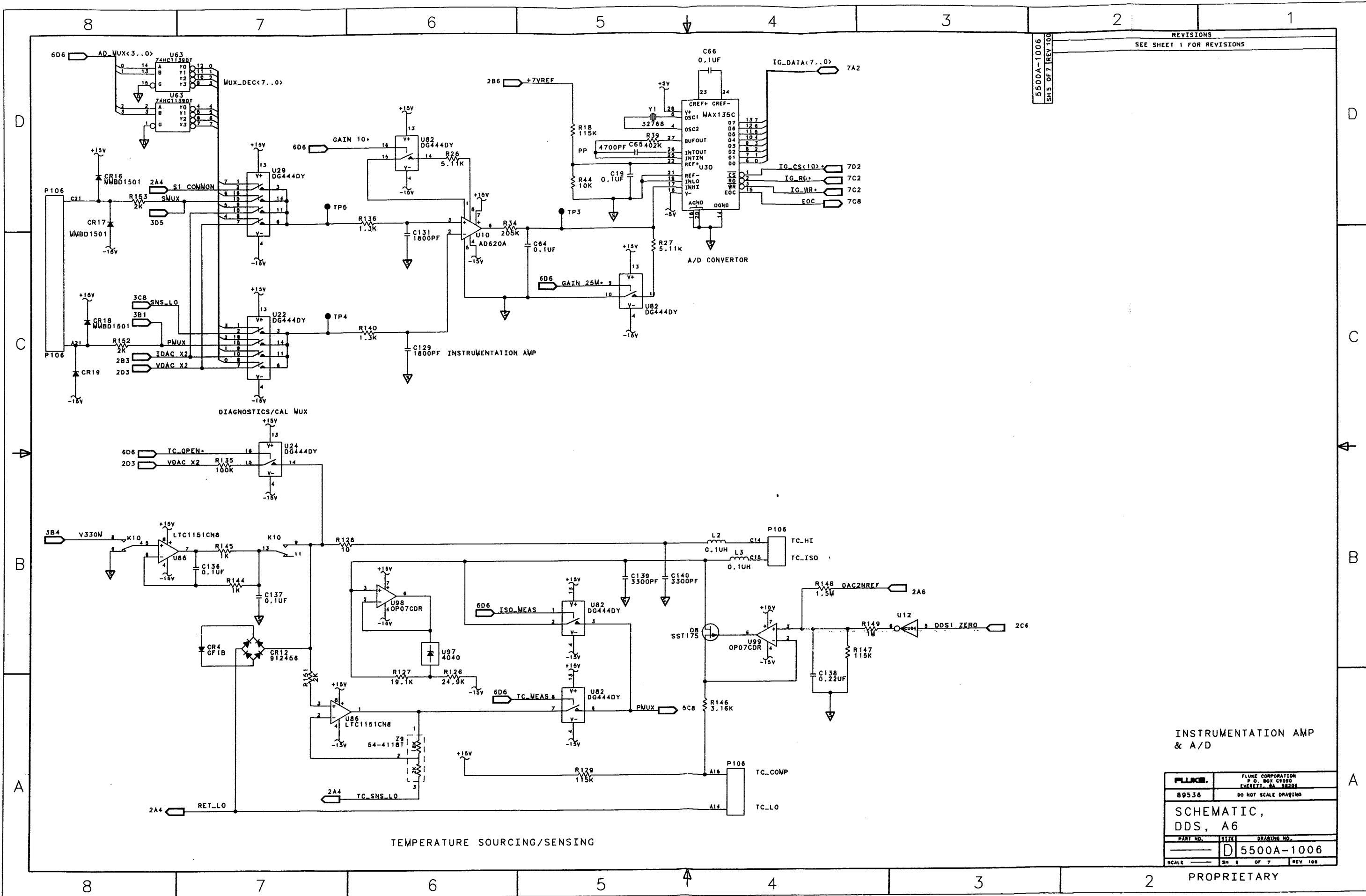
5

4

3

2

PROPRIETARY

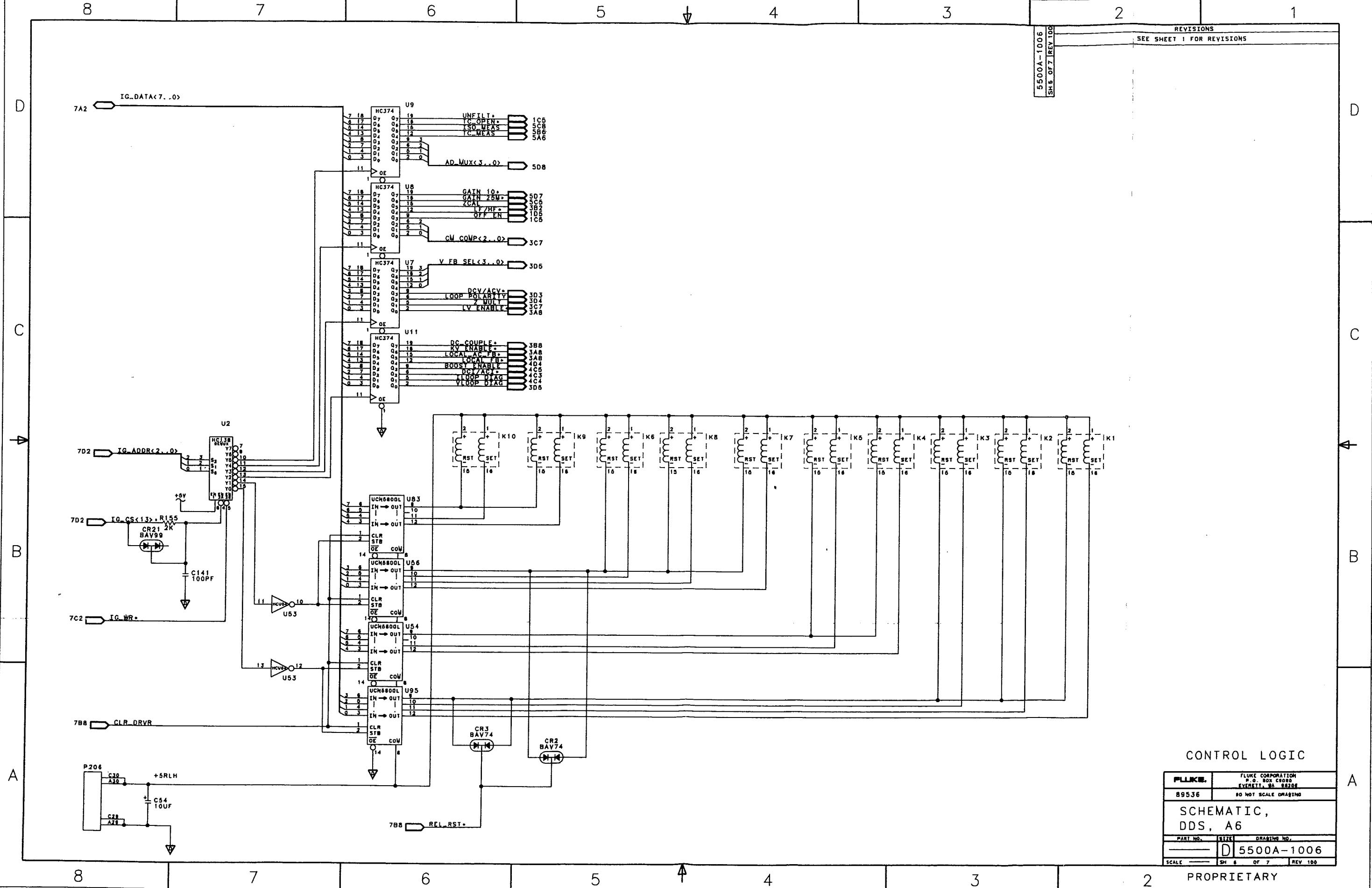


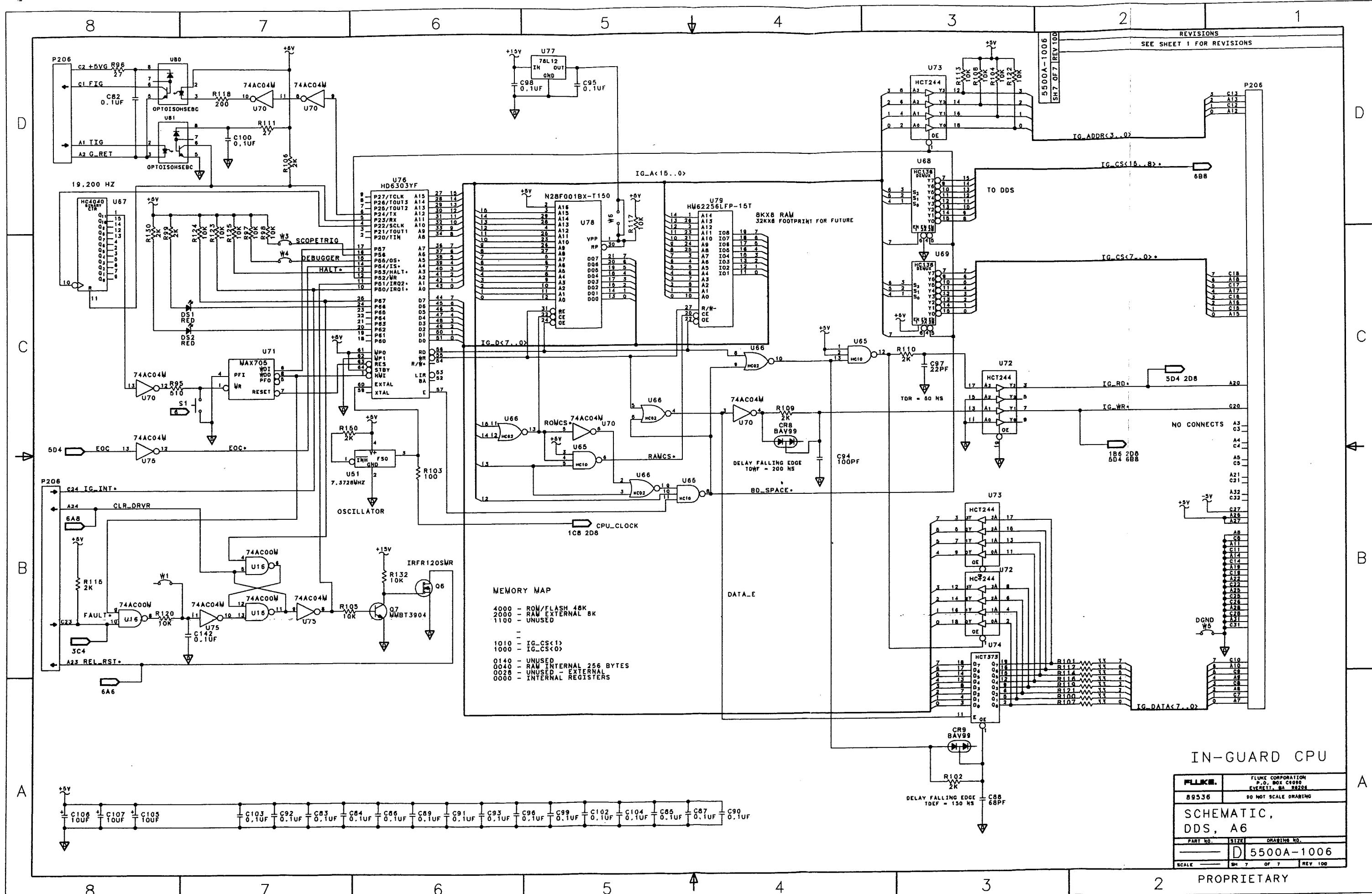
## TEMPERATURE SOURCING/SENSING

## INSTRUMENTATION AMP & A/D

<b>FLUKE.</b>		FLUME CORPORATION P. O. BOX C10500 EVERETT, WA 98205
<b>89536</b>	DO NOT SCALE DRAWING	
<b>SCHEMATIC,</b> <b>DDS, A6</b>		
<b>PART NO.</b>	<b>SIZE</b>	<b>DRAWING NO.</b>
_____	<b>D</b>	<b>5500A-1006</b>
<b>SCALE</b>	IN 5 OF 7	REV 108

PROPRIETARY





## NOTES: UNLESS OTHERWISE SPECIFIED

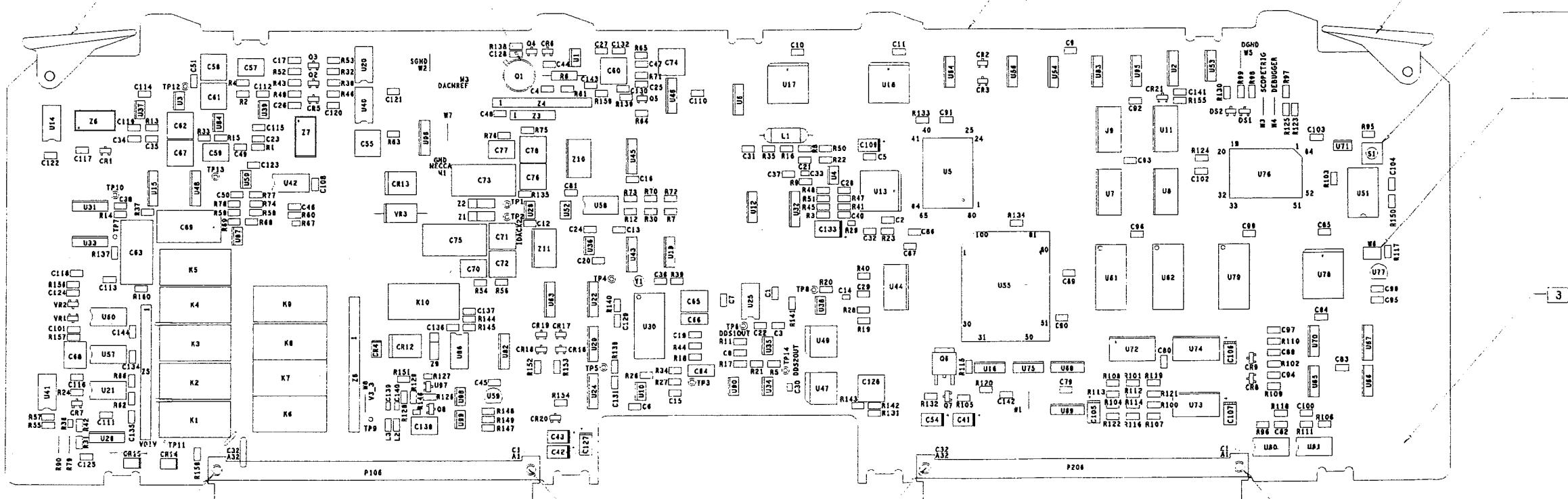
1. FOR SCHEMATIC DIAGRAM SEE 5500A-1006.
2. ASSEMBLE PER OSD 111.8.
3. MARK ASSEMBLY REVISION LETTER IN SPACE PROVIDED, USING PERMANENT BLACK FELT TIP MARKER.
- 4.
- 5.
6. S1 AND W6 ARE NOT INSTALLED.

MP001

MP003

MP006

MP002

MP004  
MP005, MP006

H002

H003 H004

H005

REVISIONS		APPROVAL / DATE		
REV	DESCRIPTION	EFF	DWN	CHK
L	S2951: SHT 1-ITEM 476 WAS P/N 746396, VALUE WAS 680.	K.P. 7/2/96		JGR 7/2/96
M	S3024: SHT 2-ITEM 811 WAS P/N 836486.	K.P. 7/23/96		L.S. 7/23/96
N	S3050: SHT 1-OTY ITEM 447 WAS 6 ITEM 472 WAS 4, SHT 2-DEL ITEM 652, QTY. ITEM 675 WAS 3.	LJP 8/01/96		LAH 8/12/96
P	S3649: SHT 1-ADDED ITEM 319 ITEM 320 OTY WAS 8. SHT 3-(ZNC7) ITEM 319 (CR5) WAS ITEM 320.	K.P. 2/19/97		LAH 2/19/97
R	S3725: SHT 1-ADDED ITEM 118 DELETED ITEM 159. SHT 3-(ZNC8) ITEM 118 WAS ITEM 159.	K.P. 3/14/97		LAH 3/14/97
T	S4017: SHT 2-ITEM 640 OTY WAS 77. ITEM 647 OTY WAS 3. SHT 3-(ZNC6) ITEM 640 (C47) WAS ITEM 647.	K.P. 6/12/97		LAH 6/16/97
U	S4322: SHT 1 OTY ITEM 508 WAS 1	LJP 8/16/97		LAH 8/16/97
V	S4393: SHT 1 P/N ITEM 319 WAS 643434.	LJP 10/14/97		LAH 10/22/97
W	S4404: SHT 2 OTY ITEM 806 WAS 5	LJP 10/22/97		LAH 11/3/97
Y	S4698: UPDATED REVISION.	K.P. 1/9/98		LAH 1/14/98
100	W1004642: SEE PDM RECORD FOR DESC OF REVISION.			

100 W1004642: SEE PDM RECORD FOR DESC OF REVISION.

		PROPRIETARY NOTICE		FLUKE CORPORATION P.O. BOX 1200 EVERETT, WA 98204		DWN GLENN KELTTO 8/3/93
		THIS DOCUMENT CONTAINS INFORMATION DEFINED IN THE TRADE SECRET AGREEMENT AND SHALL NOT BE USED FOR ENGINEERING DESIGN DOCUMENTATION WITHOUT THE EXPRESS WRITTEN CON- SENT OF THE FLUKE CORPORATION.		DO NOT SCALE DRAWING PROJ ENGR WARREN WONG 8/8/94		CHK # 8 3/8/94
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				
DRAWING NO. SUFFIX		PART NO. FIRST USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED TOLERANCE XX & XXX-X ANGLES &		FINISH X.C.
D		E55004-7606				

8

7

6

5

4

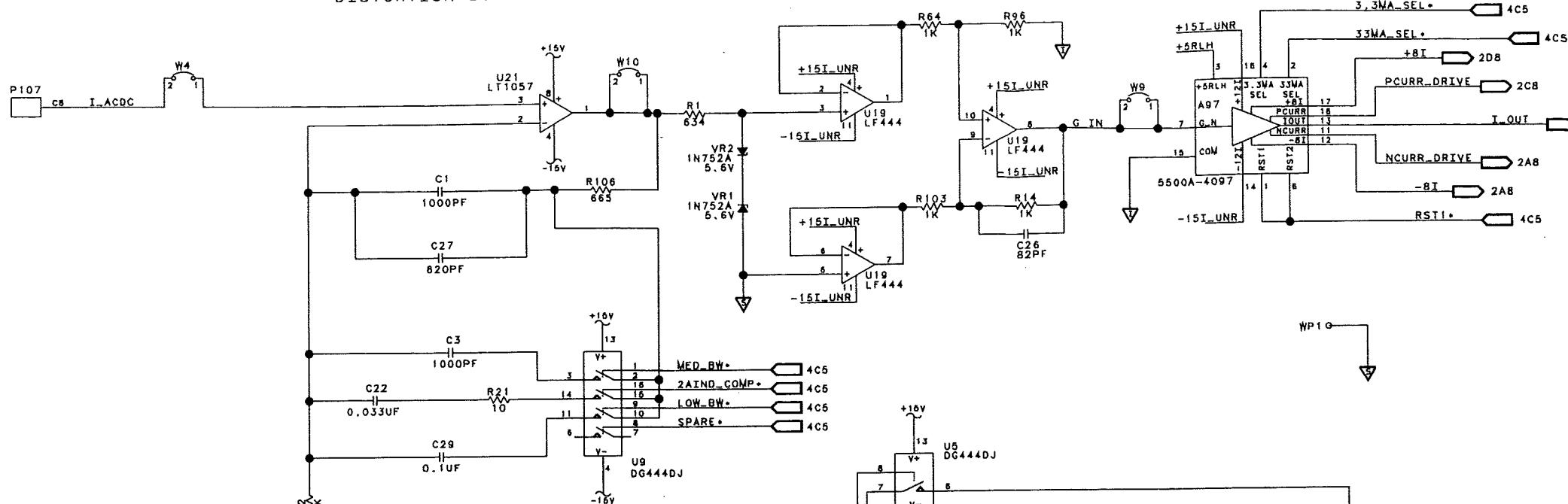
3

2

1

**LOW CURRENT AMPLIFIER SIP  
AND HIGH CURRENT DRIVE**

**DISTORTION LOOP ERROR AMPLIFIER**



REVISIONS		APPROVAL/DATE		
REV	DESCRIPTION	DMN	CHK	PROJ ENGR
D	REVISED FOR PILOT RUN	JHG	6/16/94	V-B, S-H
E	REVISED FOR PILOT RUN II	DVM	11-28-94	J-E, V-B, S-H
F	ECO NO. 5500A-104, 117 AND 118, ADDED NOTES AND POWER/GND CHART SUPPRESSED DEVELOPMENT INFORMATION	11-20-94	J-E, 12-2-94	S-H, 12-2-94
G	ECO NO. 5500A-120, RELEASE TO DOCUMENT CONTROL	1-25-95	J-E, 1-27-95	V-B, CCC
G1	INCORPORATED DCO 50627.	1-26-95	J-E, 1-27-95	V-B, CCC
H	INCORPORATED DCO 50662 & 50716.	1-26-95	J-E, 1-27-95	V-B, CCC
J	INCORPORATED DCO 50802.	4/16/95	J-E, 4/20/95	V-B, SH, CCC
K	INCORPORATED DCO 51137.	4/16/95	J-E, 4/20/95	V-B, SH, CCC
L	52230: SHT 1 (ZNA5 & D6) U21 WAS TYPE LF412, SHT 3 (ZNC5) VR9 WAS TYPE IN8908.	12/13/95	K-P	TO
M	54237: SHT 3, ADDED R113.	8/26/97	LJP	11/12/97
N	54384: SHT 1, TYPE VR1/VR2 WAS IN5232B	8/17/97	LJP	11/17/97
P	54918: SHT 3, R113 WAS 50K	2/77/98	LJP	
100	W1004736 SEE PDM RECORD FOR CHANGE DESCRIPTION			

NOTES: UNLESS OTHERWISE SPECIFIED.  
1. ALL RESISTANCES ARE IN OHMS.  
2. FOR ASSEMBLY DRAWING SEE 5500A-7807.

LAST USED	NOT USED
C73	C60-62, 68, 69
CR21	
E1	K4, 5, 10
K21	Q9, 14, 17-31
Q34	R104, 110
R113	VR6
U24	W16
VR9	Z5
W16	
Z5	

POWER AND GROUND CHART			
REF DES	PART NAME	DGND	+5V
U1	74HC04	7	14
U4	74HC137	8	16
U2	74HC138	8	16
U3	74HC374	10	20
U5, U6, U9	DG444DJ	12	21
U12, U15, U18	UNCS801A	11	21

PROPRIETARY NOTICE  
THIS DRAWING AND THE INFORMATION CONTAINED  
HEREIN ARE PROPRIETARY TO FLUKE CORPORATION,  
AND SHALL NOT BE COPIED OR DISCLOSED  
WHEN SHOWN OR RECORDED, IN WHOLE OR IN  
PART, EXCEPT AS AUTHORIZED IN WRITING BY  
FLUKE CORPORATION. THIS DRAWING IS RESTRICTED  
TO USE IN FLUKE PRODUCTS. IT IS THE PROPERTY  
OF FLUKE CORPORATION AND IS CONFIDENTIAL.  
DO NOT SCALE DRAWING  
89536

FLUKE CORPORATION  
P.O. BOX 11900  
EVERETT, WA 98208  
PROJ ENGR: DARREN HENRIKSEN  
12/1/94  
PROJ ENGR: WARREN WONG  
12/1/94  
PROJ ENGR: S. HAYNES  
12/2/94

UNLESS OTHERWISE SPECIFIED

TOLERANCE

DIMENSIONS IN INCHES

FINISH

PROJ ENGR: S. HAYNES

12/2/94

PROJ ENGR: J. EVERETT

12/1-83

PROJ ENGR: D. HENRIKSEN

12/1-94

PROJ ENGR: W. WONG

12/1/94

PROJ ENGR: S. HAYNES

12/2/94

PROJ ENGR: J. EVERETT

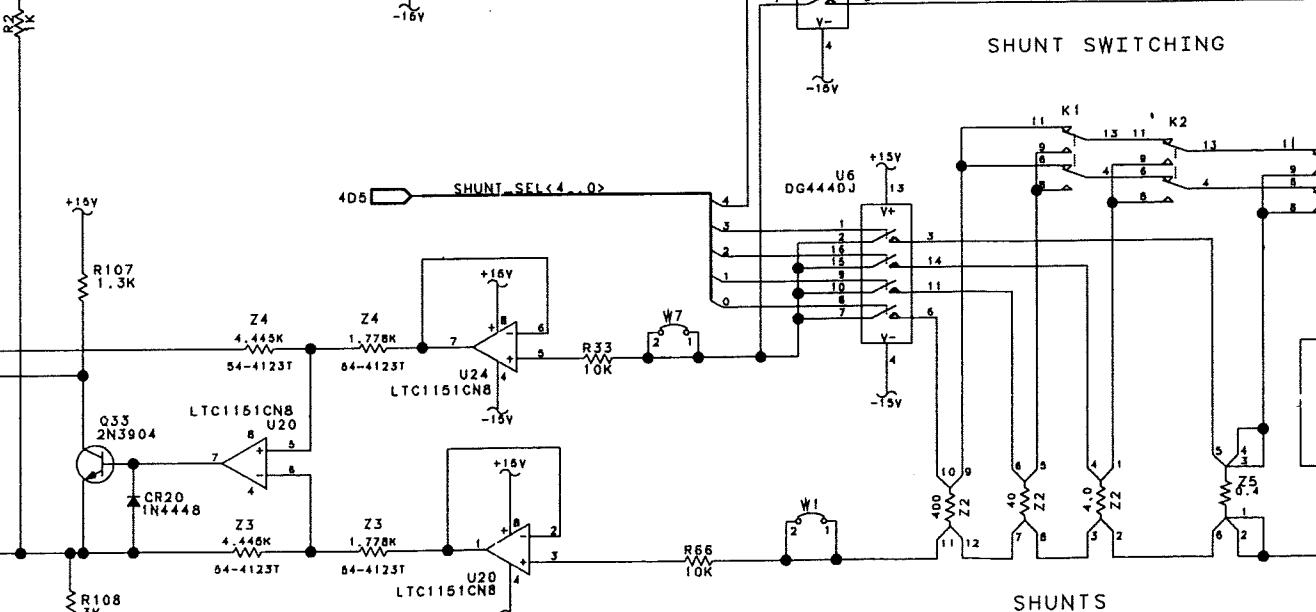
12/1-83

PROJ ENGR: D. HENRIKSEN

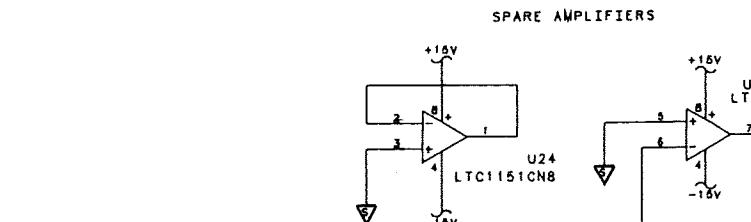
12/1-94

PART NO.	SIZE	DRAWING NO.
D 5500A-1007	SH 1 OF 5	REV 100

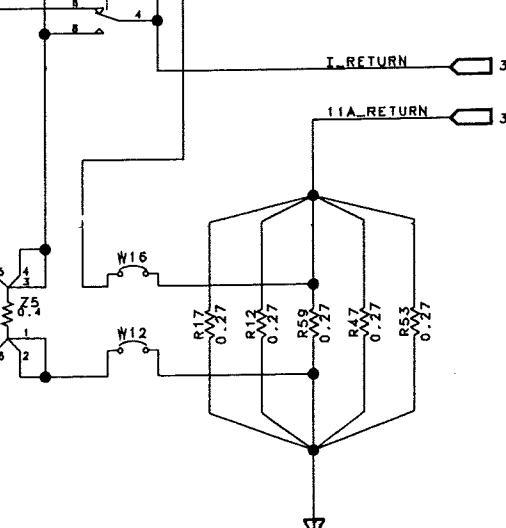
PROPRIETARY



**DIFFERENTIAL SHUNT AMPLIFIER**



**SHUNTS**



PROPRIETARY NOTICE  
THIS DRAWING AND THE INFORMATION CONTAINED  
HEREIN ARE PROPRIETARY TO FLUKE CORPORATION,  
AND SHALL NOT BE COPIED OR DISCLOSED  
WHEN SHOWN OR RECORDED, IN WHOLE OR IN  
PART, EXCEPT AS AUTHORIZED IN WRITING BY  
FLUKE CORPORATION. THIS DRAWING IS RESTRICTED  
TO USE IN FLUKE PRODUCTS. IT IS THE PROPERTY  
OF FLUKE CORPORATION AND IS CONFIDENTIAL.  
DO NOT SCALE DRAWING  
89536

FLUKE CORPORATION  
P.O. BOX 11900  
EVERETT, WA 98208  
PROJ ENGR: DARREN HENRIKSEN  
12/1/94  
PROJ ENGR: WARREN WONG  
12/1/94  
PROJ ENGR: S. HAYNES  
12/2/94

UNLESS OTHERWISE SPECIFIED

TOLERANCE

DIMENSIONS IN INCHES

FINISH

PROJ ENGR: S. HAYNES

12/2/94

PROJ ENGR: J. EVERETT

12/1-83

PROJ ENGR: D. HENRIKSEN

12/1-94

PROJ ENGR: W. WONG

12/1/94

PROJ ENGR: S. HAYNES

12/2/94

PROJ ENGR: J. EVERETT

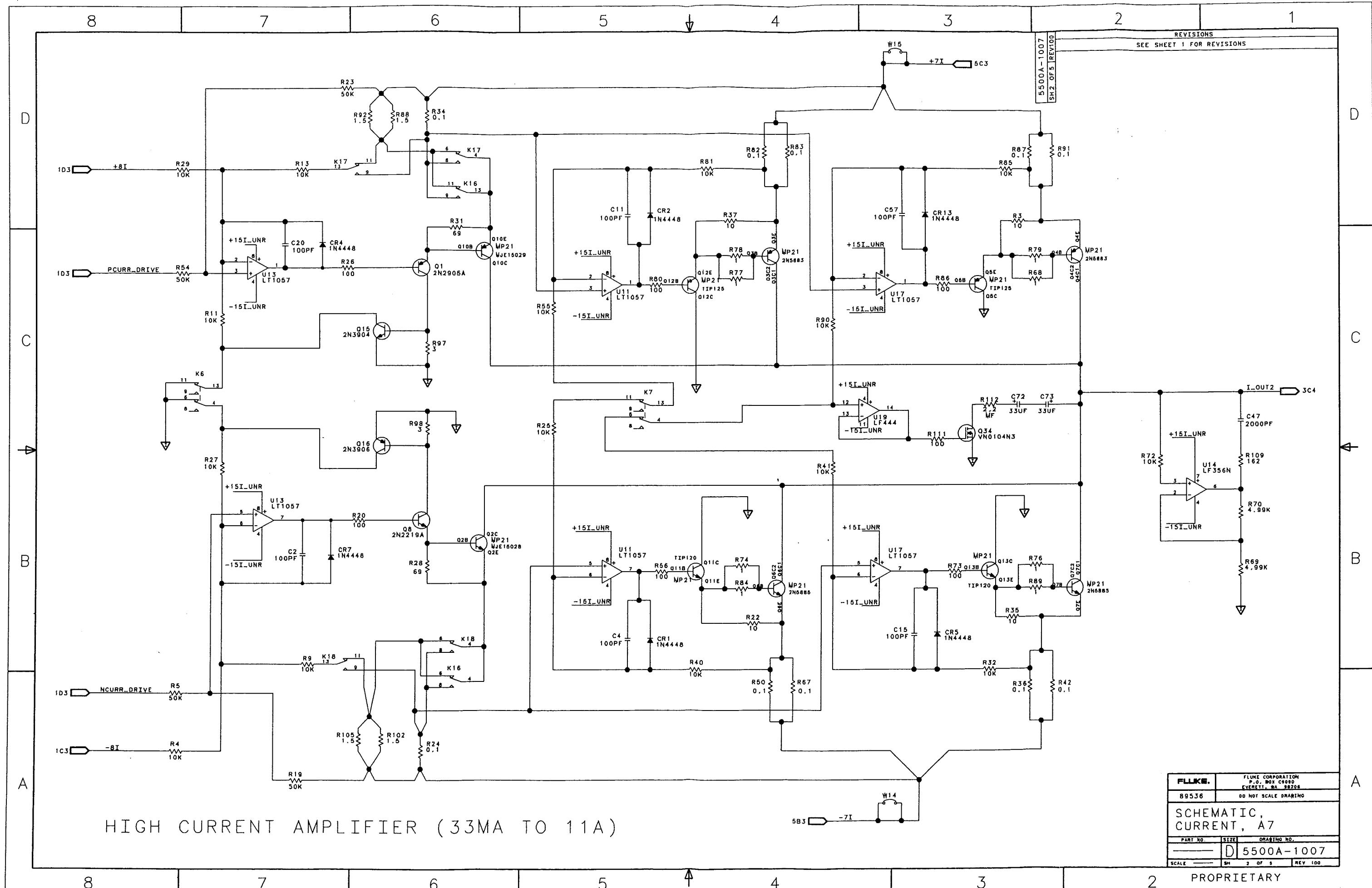
12/1-83

PROJ ENGR: D. HENRIKSEN

12/1-94

PART NO.	SIZE	DRAWING NO.
D 5500A-1007	SH 1 OF 5	REV 100

PROPRIETARY



## HIGH CURRENT AMPLIFIER (33mA TO 11A)

<b>FLUKE.</b>		FLUKE CORPORATION P.O. BOX C9080 EVERETT, WA 98206
<b>89536</b>	DO NOT SCALE DRAWING	
<p><b>SCHEMATIC,</b>  <b>CURRENT, A7</b></p>		
PART NO.	SIZE	DRAWING NO.
	<b>D</b>	<b>5500A-1007</b>
CALE	SH	2 OF 5
		REV 100

© 2014 by MAE LLC

## SCHEMATIC,

CURRENT. A7

**NAME** \_\_\_\_\_ **GRADE** \_\_\_\_\_ **CLASS** \_\_\_\_\_

PART NO.	SIZE	DRAWING NO.
10-1000	1/2"	E-500-A-121

— D 5500A-100

CALE ————— SH 2 OF 5 REV 1

PROPRIETARY

PROPRIETARI

[View all posts by admin](#) | [View all posts in category](#)

8 7 6 5 4 3 2 1

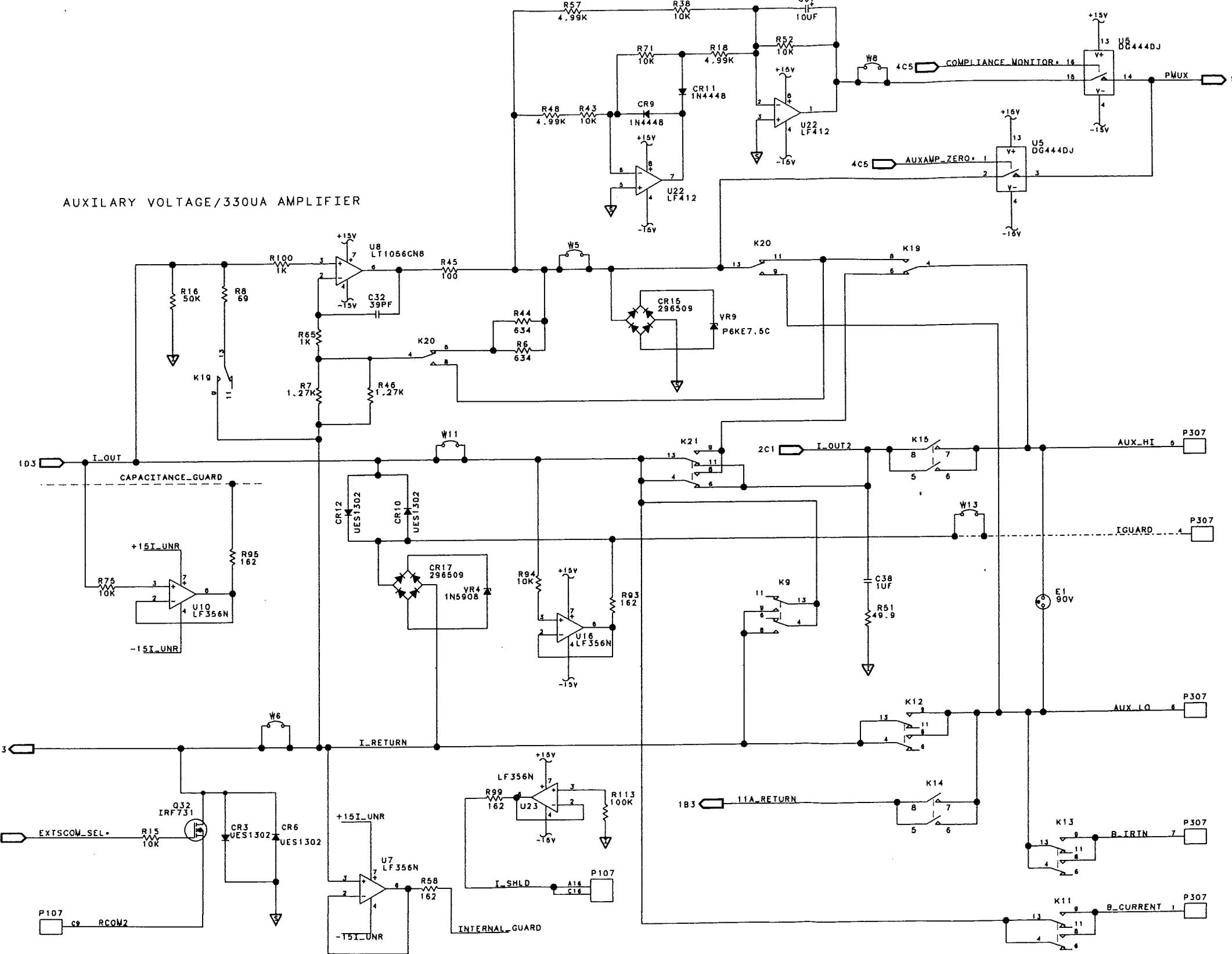
REVISIONS  
SEE SHEET 1 FOR REVISIONS

5500A-1007  
SH 3 OF 5 REV 100

D

D

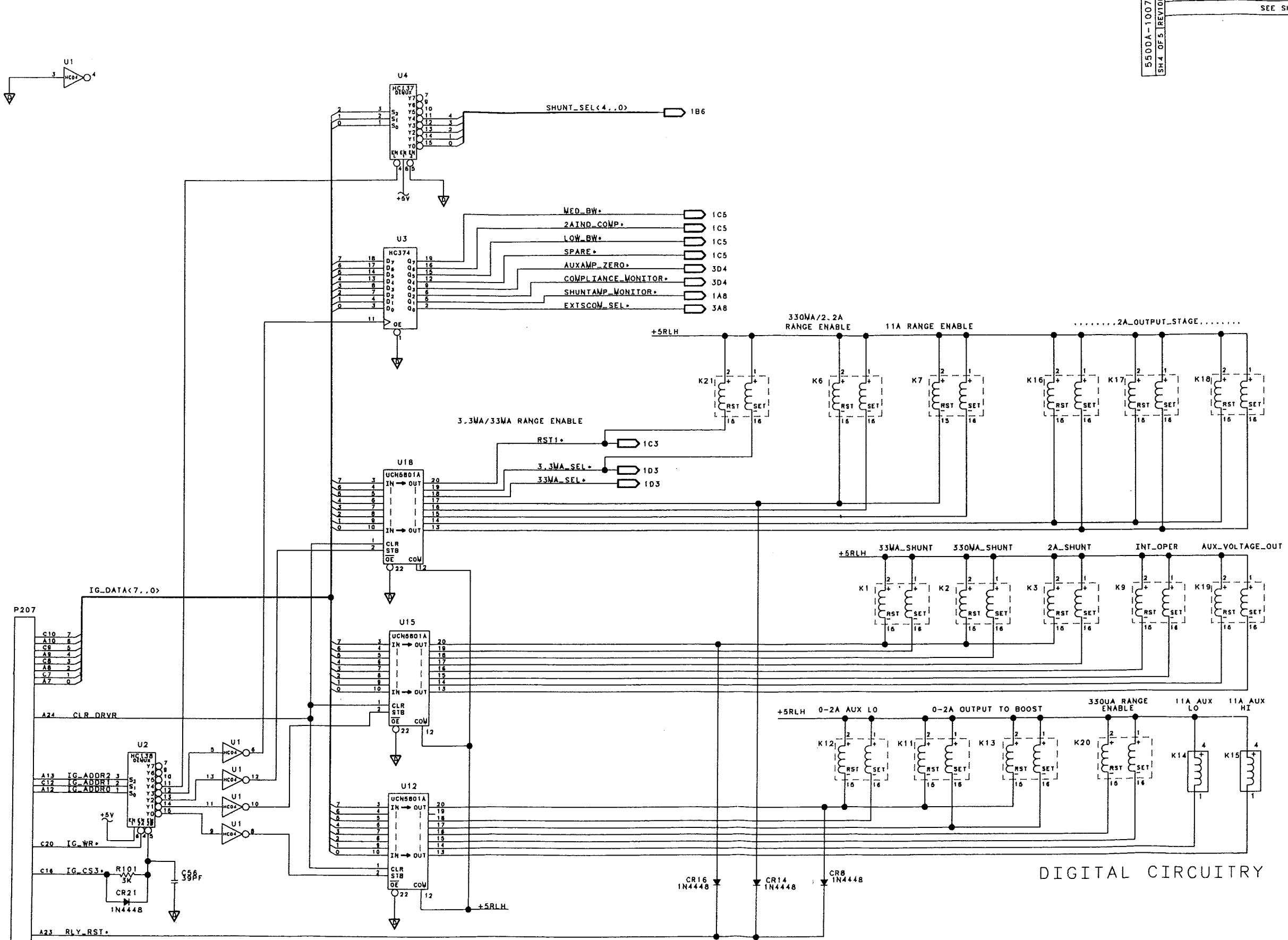
AUXILIARY VOLTAGE/330UA AMPLIFIER



FLLIKE.	FLUKE CORPORATION P.O. BOX C9050 EVERETT, WA 98204
89536	DO NOT SCALE DRAWING
SCHEMATIC, CURRENT, A7	
PART NO.	SIZE DRAWING NO.
D	5500A-1007
SCALE	SH 3 OF 5 REV 100

PROPRIETARY

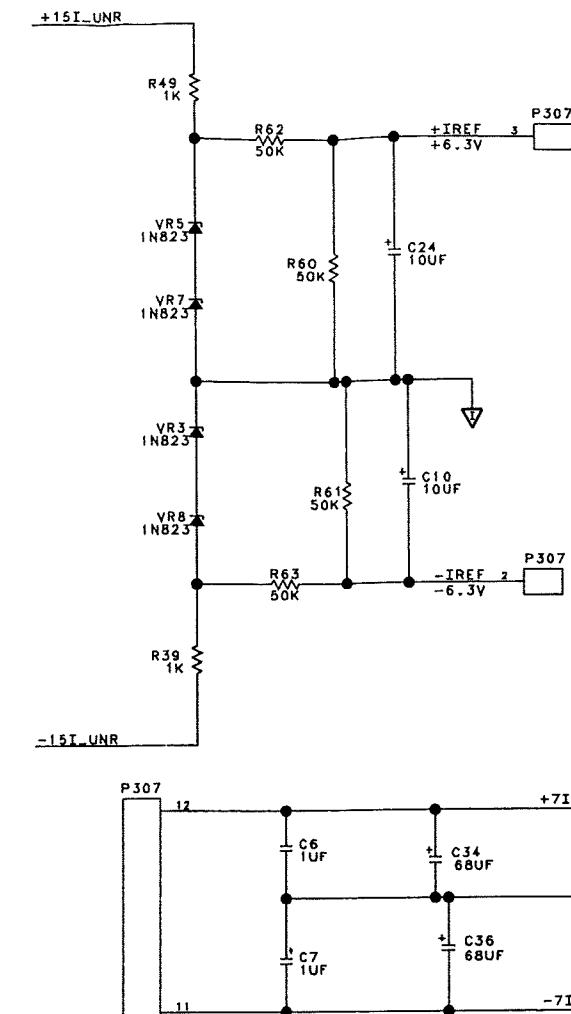
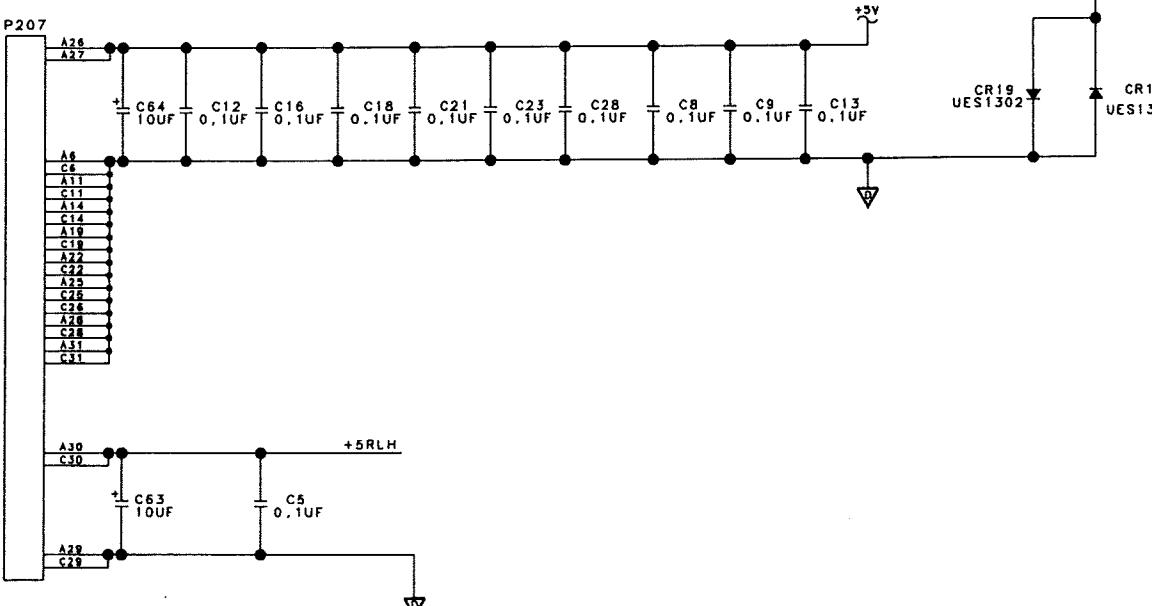
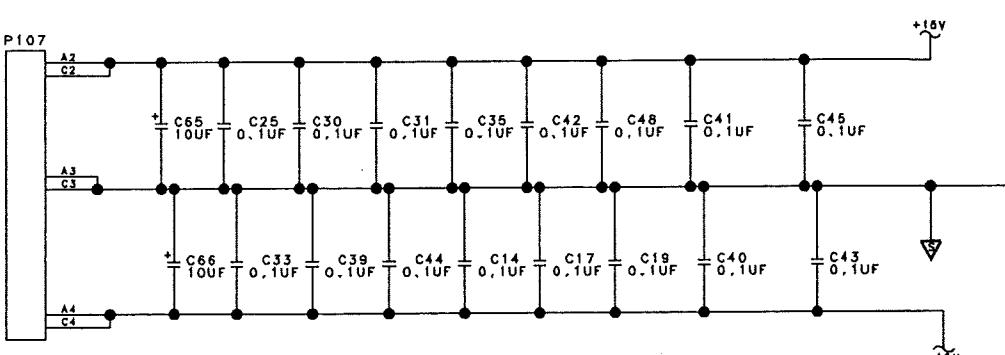
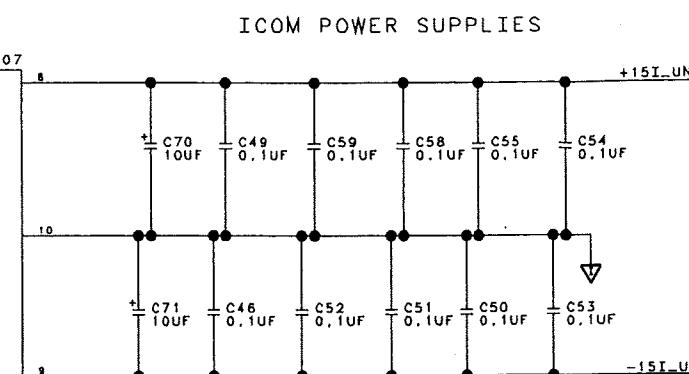
8 7 6 5 4 3 2 1



## DIGITAL CIRCUITRY

FLUKE	FLUKE CORPORATION P.O. BOX C6800 EVERETT, WA 98206
89536	DO NOT SCALE DRAWING
<b>SCHEMATIC, CURRENT, A7</b>	
PART NO.	SIZE
D	5500A-1007
SCALE	SH 4 OF 5 KEY 100

8 7 6 5 4 3 2 1



5500A-1007  
SH 5 OF 5 REV D

REVISIONS  
SEE SHEET 1 FOR REVISIONS

FLUKE	FLUKE CORPORATION P.O. BOX 5980 EVERETT, MA 02120
89536	DO NOT SCALE DRAWING
<b>SCHEMATIC, CURRENT, A7</b>	
PART NO.	SIZE
D	DRAWING NO.
5500A-1007	REV D
SCALE	SH 5 OF 5

PROPRIETARY

8 7 6 5 4 3 2 1

8

2

1

NOTES : UNLESS OTHERWISE SPECIFIED.

1. FOR SCHEMATIC DIAGRAM SEE 5500A-1007

**4. ASSEMBLE PER QSD 111-8**

**5** MARK ASSEMBLY REVISION LETTER IN SPACE PROVIDED, USING PERMANENT BLACK FELT TIP MARKER.

7 NOTCH CONNECTOR NEAR SIDE, IN POSITION INDICATED BY SILKSCREEN MARK

**8** THE BODY OF RESISTOR (R12,R17,R47,R53,R59) MUST BE .25" TO .30" ABOVE SURFACE OF PC

**9** REFER TO APPENDIX I OF THE 5500A-150 TEST PROCEDURE FOR EXACT PLACEMENT OF THESE WIRES.

—MP

1

—

— M

— MP 1

The schematic diagram illustrates a complex electronic circuit board layout. Key features include two large circular component carriers labeled H6 and H7, each containing two circular pads. The board is densely populated with various electronic components, including resistors (R1 to R100), capacitors (C1 to C54), and integrated circuits (U1 to U23). Numerous labels such as VR0, VR1, VR2, VR3, VR4, VR5, VR6, VR7, CR1, CR2, CR3, CR4, CR5, CR6, CR7, CR8, CR9, CR10, CR11, CR12, CR13, CR14, CR15, CR16, CR17, CR18, CR19, CR20, and CR21 are scattered across the board. Specific connection points are marked with labels like W1, W2, W3, W4, W5, W6, W7, W8, W9, W10, W11, W12, W13, W14, W15, W16, W17, W18, W19, W20, and W21.



**CAUTION**  
SUBJECT TO DAMAGE BY  
**STATIC ELECTRICITY**

FLUKE	JOHN FLUKE MFG. CO., INC P.O. BOX 9809 EVERETT, WA 98205		
89536	DO NOT SCALE DRAWING		
PCA, CURRENT, A7			
PART NO.	SIZE	DRAWING NO.	
937396	D	5500A-7607	
SCALE NONE	SH	1 OF 1	REV 101

PROPRIETARY

8

7

1

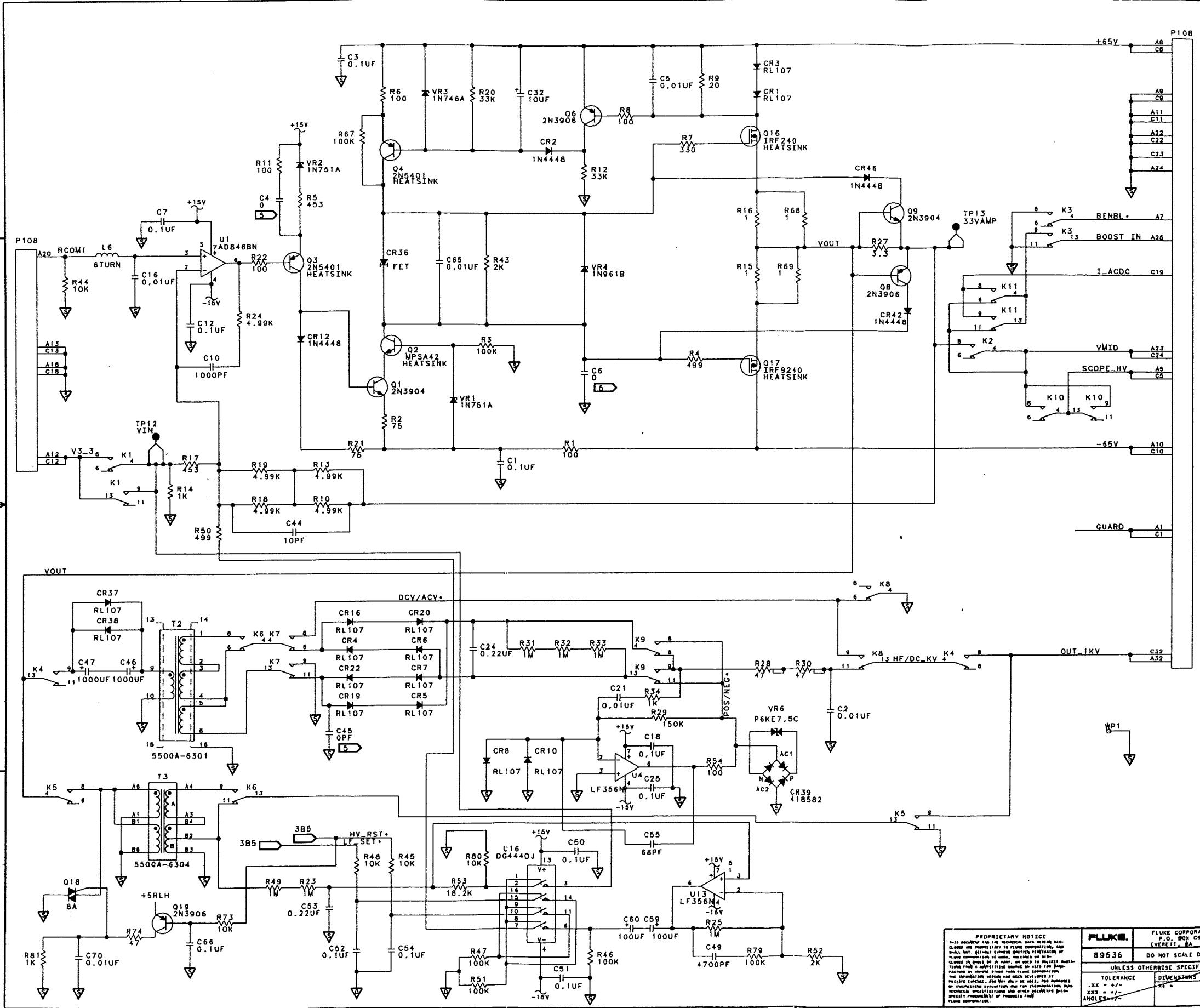
四

4

3

2

1



REVISIONS				APPROVAL/DATE		
LTR	DESCRIPTION	DMH	CHK	PROJ ENO	UFO ENG	
R	REVISED FOR PILOT RUN	JMH 6/16/84				
E	INCORPORATED ECO 5500A-10, 11, 17, 37, 38, 40, 41, 42 AND P30.	DWH 8/17/84				
F	INCORPORATED ECO 5500A-101, 107; ADDED NOSES AND PARAGONE CHART SUPPRESSED DEVELOPMENT INFORMATION RELEASE TO DOCUMENT CONTROL	DWH 11/22/84	OKD 11/23/84	W.W. 11/23/84	SH 11/28/84	
G	INCORPORATED DCO # 50673 & 50731.	JHG 1/25/85	BND 1/25/85	W.W. 1-25-85	ECC 1-26-85	
H	INCORPORATED DCO # 50732 & 50749.	JHG 1/26/85	OKD 1/26/85	W.W. 1-25-85	ECC 1-25-85	
J	INCORPORATED DCO # 50848.	JHG 3/27/85	BND 3/27/85	DLO 3/28/85	ECC 3-28-85	
K	INCORPORATED DCO # 50858.	JHG 3/27/85	OKD 3/27/85	DLO 3/28/85	ECC 3-28-85	
L	INCORPORATED DCO # 50875.	JHG 3/28/85	BND 3/27/85	DLO 3/28/85	ECC 3-28-85	
M	INCORPORATED DCO # 51422.	JHG 5/30/85	OKD 5/30/85	DLO 5/30/85	ECC 6/1/85	
N	S1998: SHT1, ZONE D5, R7 VALUE WAS 200.	KPC 10/17/85			TD 10/18/85	
P	P 52291: SHT1-(ZNA6) R53 VALUE WAS 20K. (ZNBC) R17 VALUE WAS 499.	K.P. 1/17/86			L.A.H. 1/21/86	
R	S2806: SHT2-(ZND6) U11 TYPE WAS LW7815.	LIP 5/24/86			L.A.H. 5/28/86	
T	S3125 & 53188: SHT1-(ZNA8) ADDED R81 & C70. DELETED NOTE 2-	K.P. 8/6/86			L.A.H. 2/5/87	
U	S3633: SHT 1-(ZNC4) R27 VALUE WAS 10 OHMS. SHT 2-(ZNC6) U12 TYPE WAS LW317, C33 VALUE WAS 6800UF. (ZND6) C39 & C40 VALUES WERE 10.000UF. 50V.	K.P. 2/12/87			L.A.H. 2/12/87	
V	S3680: SHT 2-(ZND5) C36 VALUE WAS 10UF.	K.P. 2/18/87				
200	W1004700 SEE PDM RECORD FOR CHANGE DESCRIPTION					

NOTES: UNLESS OTHERWISE SPECIFIED.  
1. ALL RESISTANCES ARE IN OHMS.  
2.  
3. FOR REFERENCE DESIGNATOR DRAWING SEE 5500A-1608.  
4.  
**5.** C4, C6 AND C45 ARE NOT INSTALLED.

POWER AND GROUND CHART				
REF DES	PARTNAME	+6RLH	IDND	+5V
U2	74HC04		7	14
U3	74HC138		8	16
U15	DS444D1	12	6	
U5-7	UCH6801A		11	21
TOP				

**PROF**  
THIS DOCUMENT HAS  
CLOSED AND PEPPED  
MAILS NOT. GENERAL  
PLANE COMMUNICATION  
CLOSED IN, THAT'S A  
THREE FIVE A HALF  
FACTORY BY APPROX.  
THE INFORMATION IS  
NOTABLE EXPOSURE.  
OF ENGINEERED TECH-  
NICAL SPECIALTY  
SPECIFY PROCEDURE  
PLANE COMMUNICATION

TERARY NOTICE		FULKE.
TECHNICAL DATA REPORT T-1 FLUORINE POLYMER AND POLY(1,1,2,2-TETRAFLUOROETHYLENE) BLEND, RELEASED BY AIR-		89536
PART, OR USED TO MAKE MATERIAL CONTAINING POLY(1,1,2,2-TETRAFLUOROETHYLENE)		D
THIS PAPER IS A COPY OF THE ORIGINAL AND IS FOR INFORMATION PURPOSES ONLY. IT HAS BEEN REPRODUCED AT THE EXPENSE OF THE GOVERNMENT. IT IS NOT TO BE CIRCULATED, COPIED, OR USED FOR COMMERCIAL PURPOSES OR OTHER DECISIONS (BECUSE OF PRODUCTS FUD)		UNLESS OTHERWISE STATED
		.XX = +/- XXX = +/- ANGLES = +/-

THE CORPORATION P.O. BOX C890 CREST, WA 98202	DMW BARBARA CANDIOTTI	B-10-83
<del>NOT SCALE DRAWING</del>	CHK	
<del>WISE SPECIFIED</del>	PROJ ENGR	
<del>DIMENSIONS IN INCHES</del>	WFG ENGR	
	FINISH	
		SCH VOL
		PART NO.
		SCALE

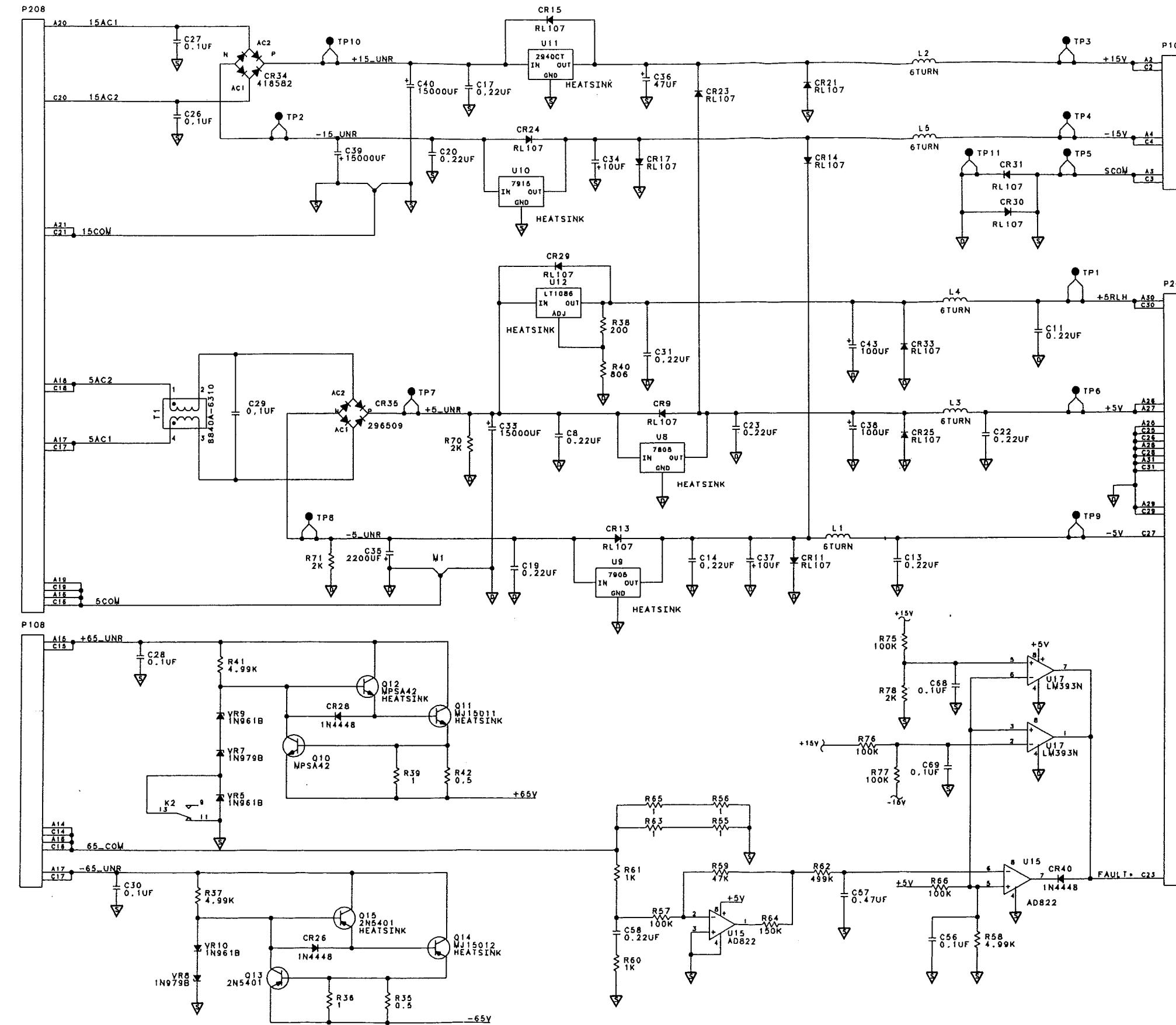
HEMATIC,  
TAGE, A8

PROPRIETARY

8 7 6 5 4 3 2 1

REVISIONS  
SEE SHEET 1 FOR REVISIONS

5500A-1008  
SH2 OF 3 REV 200



FLUKE	FLUKE CORPORATION P.O. BOX C6900 EVERETT, WA 98204
89536	DO NOT SCALE DRAWING
SCHEMATIC, VOLTAGE, A8	
PART NO.	SIZE
D	DRAWING NO.
5500A-1008	
SCALE	INCH 2 OF 3 REV 200

8 7 6 5 4 3 2 1 PROPRIETARY

8

6

1

1

2

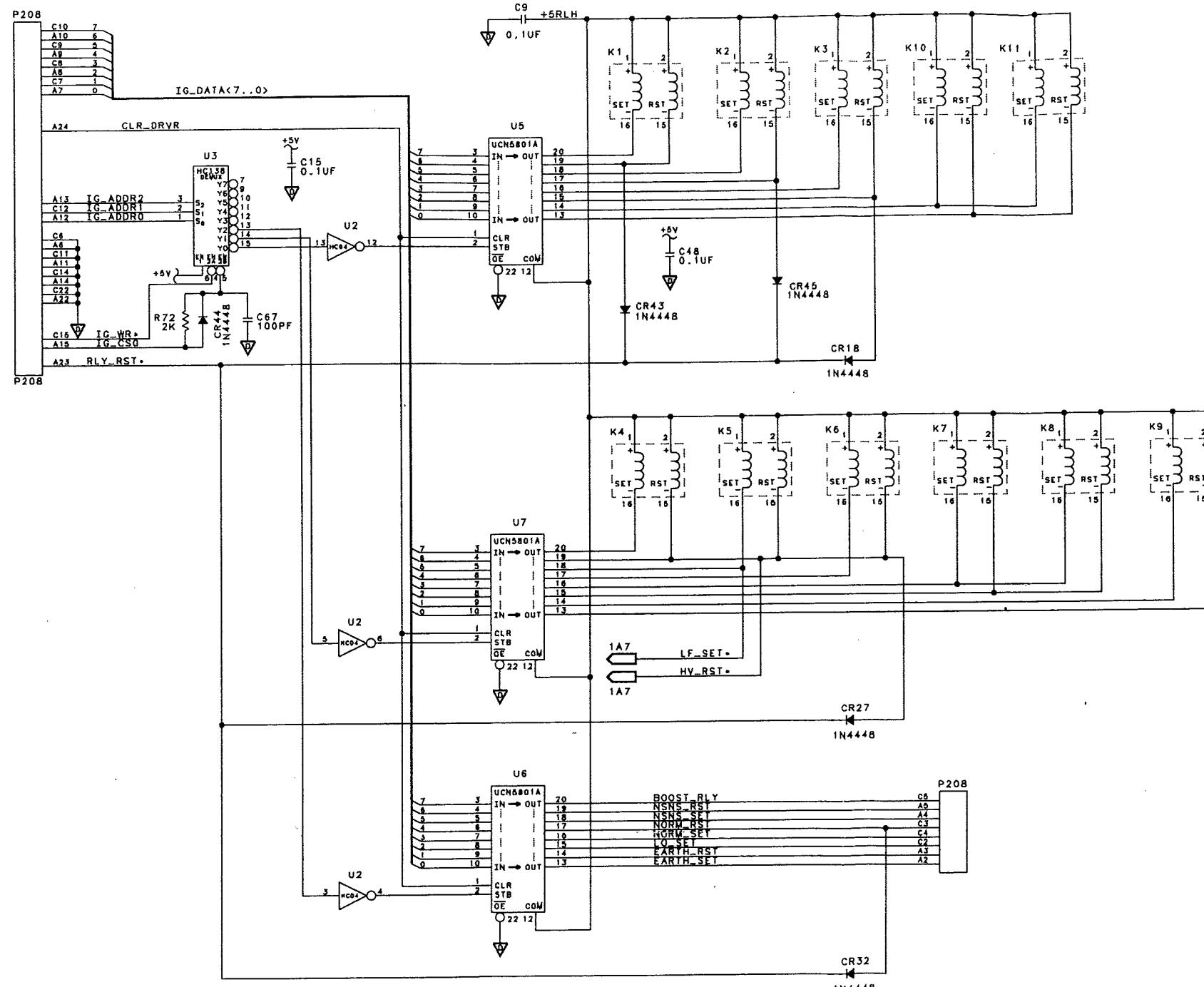
1

**REVISIONS**

---

**SHEET 1 FOR REVISIONS**

5500A-1008



<b>FLUKE.</b>		FLUKE CORPORATION P.O. BOX C9890 EVERETT, WA 98204
<b>89536</b>	DO NOT SCALE DRAWING	
<b>SCHEMATIC, VOLTAGE, A8</b>		
PART NO.	SIZE	DRAWING NO.
_____	<b>D</b>	<b>5500A-1008</b>
SCALE	SH 3	OF 3
_____	_____	REV 200

PROPRIETARY

REV		DCO	DESCRIPTION		DWN	CHK	APPD	APPD
200		W1004700 SEE PDM RECORD FOR CHANGE DESCRIPTION						

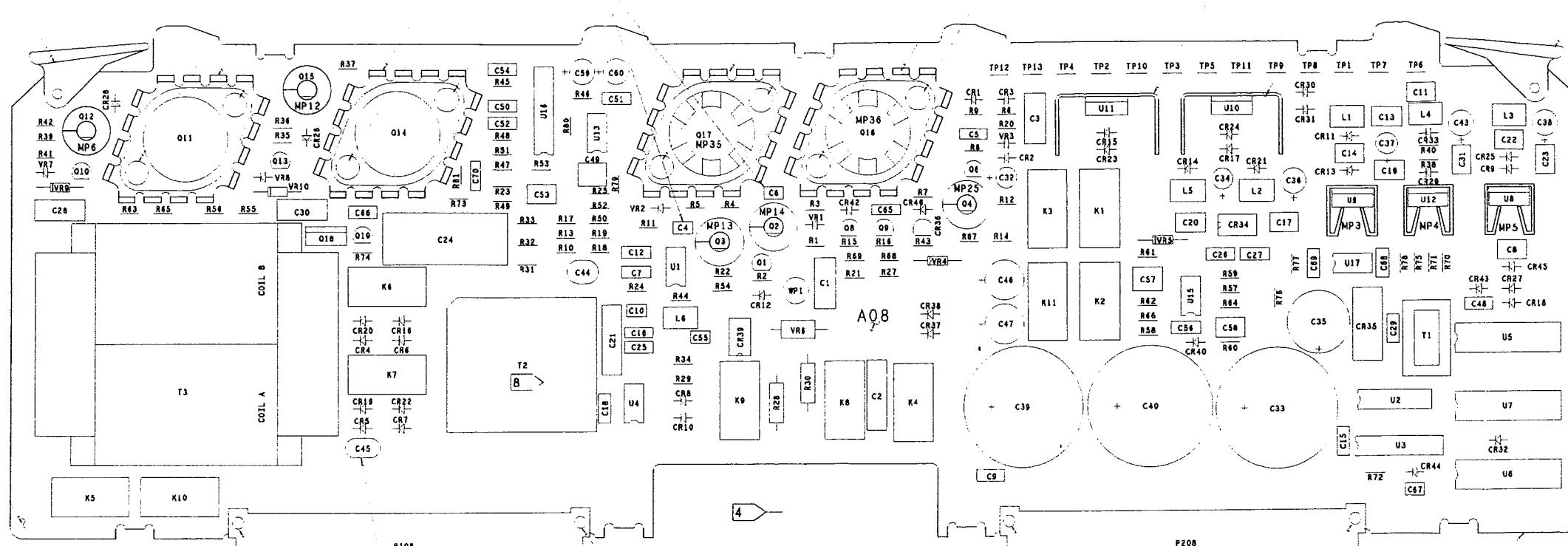
MP1—

MP7  
MP19  
MP28  
H15MP8  
MP20MP9  
MP21MP10  
MP22MP30  
H17MP32  
H19MP34  
H21MP27  
H14MP29  
H16MP31  
H18MP33  
H20

MP23

MP24

MP2

MP11  
NEAR SIDE

## NOTES:

1. FOR SCHEMATIC DIAGRAM SEE 5500A-1008
2. ASSEMBLE PER QSD 111.8.
3. LEAD LENGTH .100 MAX.
4. MARK 5500A-7608 REV STATUS ON ASSEMBLY.
- 5.
- 6.
7. NOTCH CONNECTORS, NEARSIDE, IN POSITIONS INDICATED BY SILKSCREEN.
8. MAKE SURE T2 IS FULLY SEATED ONTO BOARD BEFORE SOLDERING.  
(THE TRANSFORMER CLIPS SOMETIMES HANG UP A LITTLE).
9. C4, C6 AND C45 ARE NOT INSTALLED.



CAUTION  
SUBJECT TO DAMAGE BY  
STATIC ELECTRICITY

VIEWED FROM CKT 4 SIDE

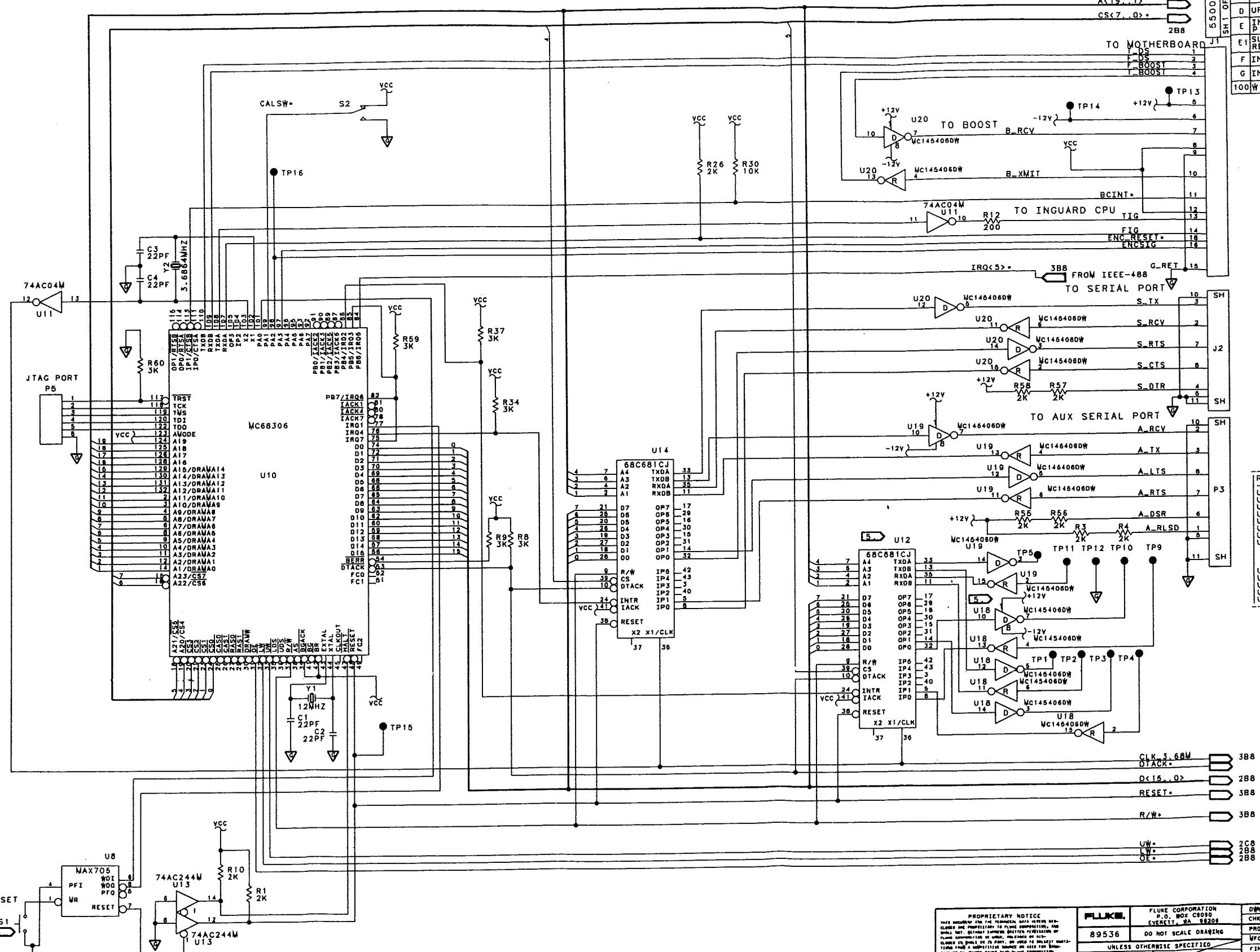
— H10 — H11 — H12 — H13 —

PROPRIETARY NOTICE  
THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO FLUKE CORPORATION AND SHALL NOT BE USED FOR ENGINEERING DESIGN, PROCUREMENT, OR MANUFACTURE IN WHOLE OR IN PART, WITHOUT THE EXPRESS WRITTEN CONSENT OF THE FLUKE CORPORATION.

DWN	FLUKE CORPORATION P.O. BOX 9090 EVERETT, WA 98206-9090	FCSM NO. 89536
CHK		
APPRVD		
APPRVD		

ASSEMBLY,  
VOLTAGE, A8

PART NO. 937404 D DRAWING NO. 5500A-7608  
REV 200  
SCALE NONE SH 1 OF 1



REVISIONS			
R	DESCRIPTION	0MM	APPROVAL/DATE
		CNC	PROJ ENG
	STARTED NEW AT REV B. RELEASE TO PHASE II.	J.A. 1-16-83	
	UPDATED FOR PRE-PILOT	W.B. 3/24/84	
	UPDATED FOR PILOT	B.C. 4-30-84	
	INCORPORATED ECO 6500A-21, P15 AND P16.	W.B. 8/25/84	
	SUPPRESSED DEVELOPMENT INFORMATION RELEASE TO DOCUMENT CONTROL.	B.C 1/16/84	W.W. 1/17/84
	INCORPORATED DCO 50717.	JHG 1/16/88	W.W. 1/16/88
	INCORPORATED DCO 53172.	LJP 9/3/88	E.G.C 1-26-89
O	W1004642: SEE PDM RECORD FOR DESCRIPTION OF REVISION.		LAH

POWER AND GROUND CHART

REF	DES	PARTNAME	GGND	VCC
U12	U14	68C681CJ	22	44
U11		74AC04M	7	14
U13		74AC244N	10	20
U34	U35	HM628128LFP-10	16	32
U32	U33	HM6285128LFP-10	16	32
U8		MAX705	3	6
U18	-20	MC145406DW	9	12, 11, 13,
U10		MC68306	22	7, 28,
			55	67, 79,
			88	40, 61, 73,
			100	94, 106
U26	U27	N28F001BX-B150	16	32
U1		PA28F0040BX	13, 32	23
U24		SN75ALS160DW	10	20
U25		SN75ALS161DW	10	20
U21		TMS9914AFN	22	44

NOTES: UNLESS OTHERWISE SPECIFIED:

1. ALL RESISTORS ARE IN OHMS.
  - 2.
  - 3.
  4. FOR ASSEMBLY DRAWING SEE 5600A-7608.

5 → PART NOT INSTALLED.

**PROPRIETARY**  
THIS DOCUMENT AND THE  
CLIMAX AND PROPRIETARY  
SHALL NOT, EXCEPT IN  
PLANE CORPORATION OR IN  
CLIMAX OR JONES, BE DIS-  
TRIBUTED BY ANYONE OTHER  
THAN THE MANUFACTURER  
OR ITS AUTHORIZED AGENTS.  
THE CLIMAX AND PROPRIETARY  
TECHNICAL TRAINING  
DEPARTMENT SPECIFIC INFORMATION  
SHALL NOT BE DISCLOSED BY  
CLIMAX OR JONES.

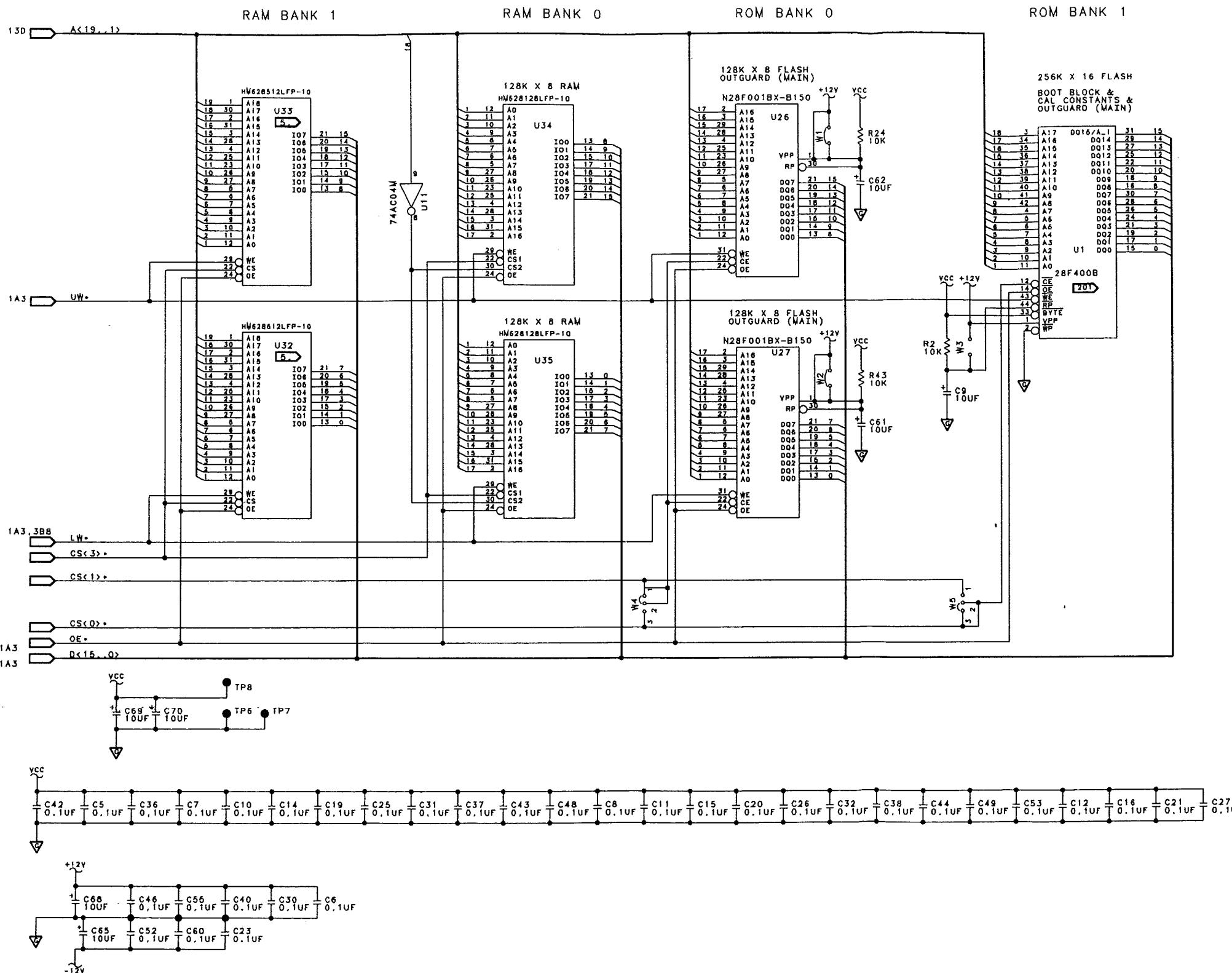
FLUKE		FLUKE CORPORATION P.O. BOX C6080 EVERETT, WA 98205	DIM JOHN ANHOLE	10/22/83
89536		DO NOT SCALE DRAWING	CHK	
		UNLESS OTHERWISE SPECIFIED	PROD ENGR	
			WFG ENGR	
			FINISH	
TOLERANCE		DIMENSIONS IN INCHES		
.XX = +/-		.XX =		
XXX = +/-				
ANGLES - / -				

SCHEMATIC, A9  
OUT-GUARD CPU

PROPRIETARY

REVISIONS  
SEE SHEET 1 FOR REVISIONS

5500A-1009  
SH2 OF 3 REV 100



#### MEMORY MAP

CS0 - BOOT ROM, CAL CONSTANTS  
CS1 - ROM BANK 0 OR 1  
CS2 - UNUSED  
CS3 - RAM (A18=0 - BANK 0 FOR 128K PARTS)  
CS4 - RAM (A18=1 - BANK 1 FOR 128K PARTS)  
CS5 - DUART FOR EXTERNAL RS-232 PORTS  
CS6 - UNUSED  
CS7 - IEEE-488

#### INTERRUPT LEVEL ASSIGNMENTS

IR07 - INTERNAL 10MS TIMER  
IR06 - UNUSED  
IR05 - IEEE-488 INTERFACE  
IR04 - EXTERNAL DUART  
IR03 - 68306 INTERNAL DUART - GUARD CROSSING & FRONT PANEL/BOOST  
IR02 - DEVELOPMENT BOARD  
IR01 - WATCHDOG TIMER

**Note:** 28F400BV PIN 2 (WP) MUST BE GROUNDED.  
28F400BV PIN 2 (DU) CONNECTION IS OPTIONAL.

FLUKE,	FLUKE CORPORATION P.O. BOX C9580 EVERETT, WA 98205
89536	DO NOT SCALE DRAWING
<b>SCHEMATIC, A9 OUT-GUARD CPU</b>	
PART NO.	SIZE
D 5500A-1009	REV. 100

8

7

6

5

4

3

2

1

D

D

C

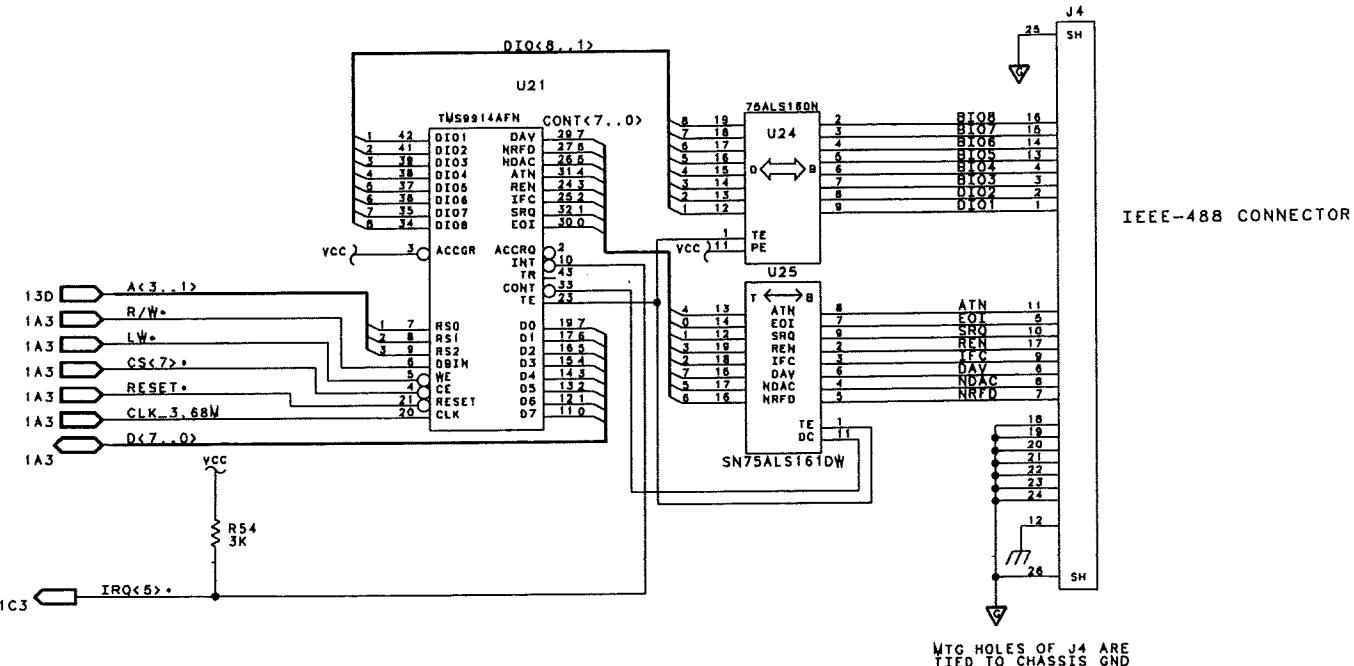
C

B

B

A

A

5500A-1009  
SH 3 OF 3 REV 100REVISIONS  
SEE SHEET 1 FOR REVISIONS

FLUKE.	FLUKE CORPORATION P.O. BOX C4080 EVERETT, WA 98208
89536	DO NOT SCALE DRAWING
<b>SCHEMATIC, A9</b>	
<b>OUT-GUARD CPU</b>	
PART NO.	SIZE DRAWING NO.
—	D 5500A-1009
SCALE	SH 3 OF 3 REV 100

PROPRIETARY

8

7

6

5

4

3

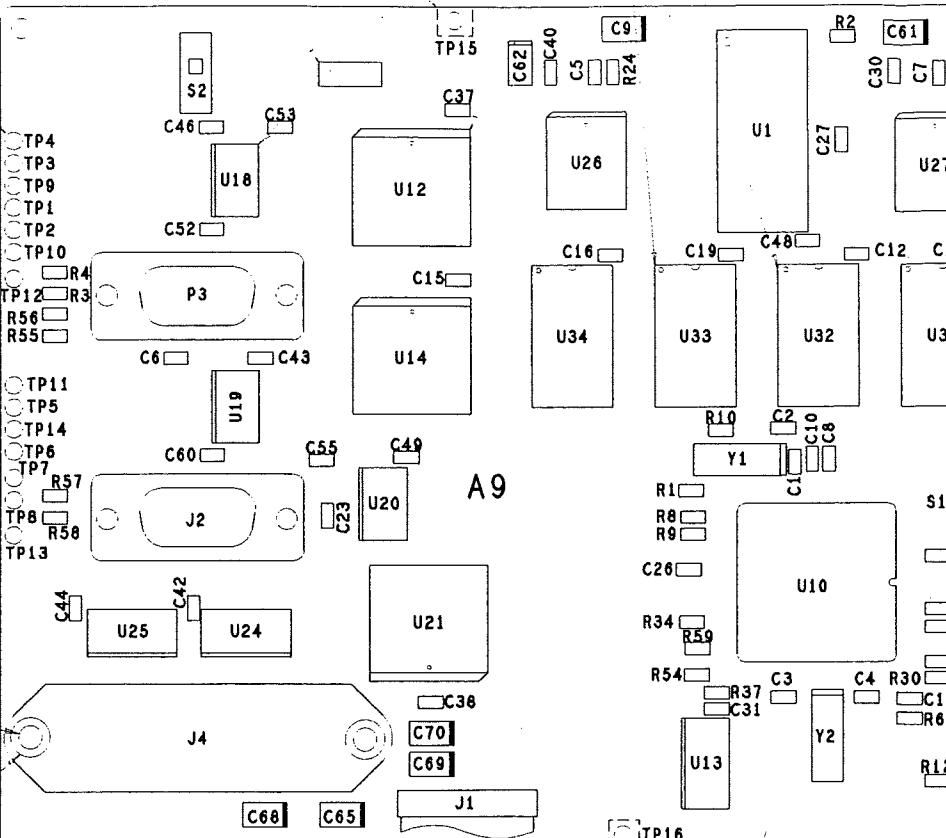
2

8

7

2

1



MP3-M  
NS

5500A-7609

REVISIONS				APPROVAL / DATE			
LTR	DESCRIPTION	EFF	DWK	CHK	PROJ ENGR	MFG ENGR	
C	RELEASE TO PRE-PILOT	3-3-84	W-B	W-B	3-3-84	3-3-84	
D	RELEASE TO PILOT	5-18-84	W-B	D-B	5-18-84	5-18-84	
E	INCORPORATED ECO 5500A-8, Z1, P15 AND P16.	B.C. 9-2-84	W-B	W-B	10-7-84	10-7-84	
-	RELEASE TO DOC. CONTROL.	1-15-85	W-B	W-B	1-15-85	1-15-85	
F	INCORPORATED DCO 50717.	1/18/85	W-B	W-B	1/18/85	1/18/85	
G	54357; SHT 1-ITEM 808 WAS P/N 943662. SHT 2-DELETED NOTES 2 & 6. REVISED NOTE 5.	K.P. 10/10/87				TD 10/13/87	
H	54485; SHT 1-ITEM 808 WAS P/N 110400.	K.P. 1/18/87				TD 1/18/87	
J	54716; SHT 1-ITEM 808 WAS P/N 943662.	K.P. 1/18/88				TD 1/20/88	
100	W1004642: SEE PDM RECORD FOR DESCRIPTION OF REVISION						
101	W1015670: SEE PDM RECORD FOR DESCRIPTION OF REVISION						

1 M

1 Mi

1 Mi

CKT 6 VIEW



**CAUTION**  
SUBJECT TO DAMAGE BY  
STATIC ELECTRICITY

			<b>PROPRIETARY NOTICE</b> This document and the technical data herein disclosed, are proprietary to John Fluke Mfg. Co., Inc. and shall not, without express written permission of John Fluke Mfg. Co., Inc., be reproduced or disclosed to others in whole or in part, or used to effect evaluations from a competitive source or vendor. The information contained herein is the sole property of John Fluke Mfg. Co., Inc. The information herein has been developed at private expense, and may only be used for the purpose for which it was intended. It is the property of John Fluke Mfg. Co., Inc. for its exclusive use.	<b>FLUKE</b> <b>89536</b>	<b>FLUKE CORPORATION</b> P.O. BOX 8990 EVERETT, WA 98206	<b>DW DARREN HERMSEN</b> CHK PROJ ENGR MECH ENGR	<b>3-3-84</b>	<b>PCA, OUT-GUARD CPU, A09</b>
<b>BASIC</b> <b>DRW. NO.</b> <b>SUFFIX</b>	<b>DRAWING NO.</b> <b>PART NO.</b> <b>FIRST USED ON</b> <b>APPLICATION</b>	<b>TOLERANCE</b> <b>.XX ± .XXV ± AUNCLES ±</b>	<b>DIMENSIONS IN INCHES</b> <b>Xc =</b>	<b>FINISH</b>	<b>PART NO.</b> <b>937409</b>	<b>SIZE</b> <b>D</b>	<b>DRAWING NO.</b> <b>5500A-7609</b>	
					<b>SCALE NONE</b>	<b>SH 1</b>	<b>OF 1</b>	<b>REV 101</b>

PROPRIETARY

8

7

6

5

4

3

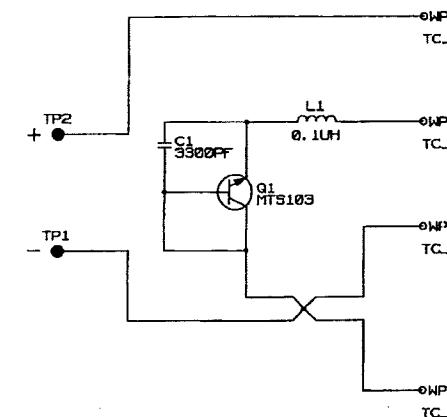
2

1

## NOTES: UNLESS OTHERWISE INDICATED

1. FOR REFERENCE DESIGNATOR DRAWING SEE 5500A-1610.  
FOR ASSEMBLY DRAWING SEE 5500A-7610.
2. REVISIONS TO THIS DRAWING MUST BE MADE THROUGH THE DATABASE  
SHOWN ON THE SOFTWARE CONTROL DRAWING (SCD): 5500A-C90010.

REVISIONS		APPROVALS/DATE		
REV	ltr	DESCRIPTION	DMR	OK
S5000A-1610	A	RELEASE TO PILOT	10/25/94	
	B	INCORPORATED ECO # P31	10/25/94	
	B1	SUPPRESSED DEVELOPMENT INFORMATION RELEASE TO DOCUMENT CONTROL	11-16-94	10/25/94



OWP4  
TC\_HI

TP1

OWP2  
TC\_COMP

OWP3  
TC\_LO

TP2

OWP4  
TC\_HI

C1  
3300PF

L1  
0.1UH

Q1  
MITS103

R1  
0.1UH

Q2  
MITS103

C2  
3300PF

R2  
0.1UH

Q3  
MITS103

C3  
3300PF

R3  
0.1UH

Q4  
MITS103

C4  
3300PF

R4  
0.1UH

LAST\_MODIFIED=Wed Nov 16 15:16:14 1994

PROPRIETARY NOTICE THIS DRAWING AND THE INFORMATION CONTAINED THEREIN ARE THE PROPERTY OF FLUKE CORPORATION. THEY MAY NOT BE COPIED OR DISCLOSED WITHOUT WRITTEN PERMISSION OF FLUKE CORPORATION. THIS DRAWING IS THE PROPRIETARY PROPERTY OF FLUKE CORPORATION AND MAY NOT BE COPIED OR DISCLOSED WITHOUT WRITTEN PERMISSION OF FLUKE CORPORATION. THIS DRAWING IS THE PROPRIETARY PROPERTY OF FLUKE CORPORATION AND MAY NOT BE COPIED OR DISCLOSED WITHOUT WRITTEN PERMISSION OF FLUKE CORPORATION.		JHM JIM GOODLUE OHL [Signature] 89536 DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED TOLERANCE INCHES MM ANGLES DIMENSIONS IN INCHES	FLUKE CORPORATION P.O. BOX 2000 PUQUETTE, WA 98066 PROJ ENGR [Signature] MFG ENGR [Signature] FINISH	12/4/93 10/25/94 10/25/94 10/25/94 10/25/94 10/25/94
SCHEMATIC- TC BUTTON, A10		PART NO. DRAWING NO. D 5500A-1010	SCALE SH 1 OF 1 REV B1	

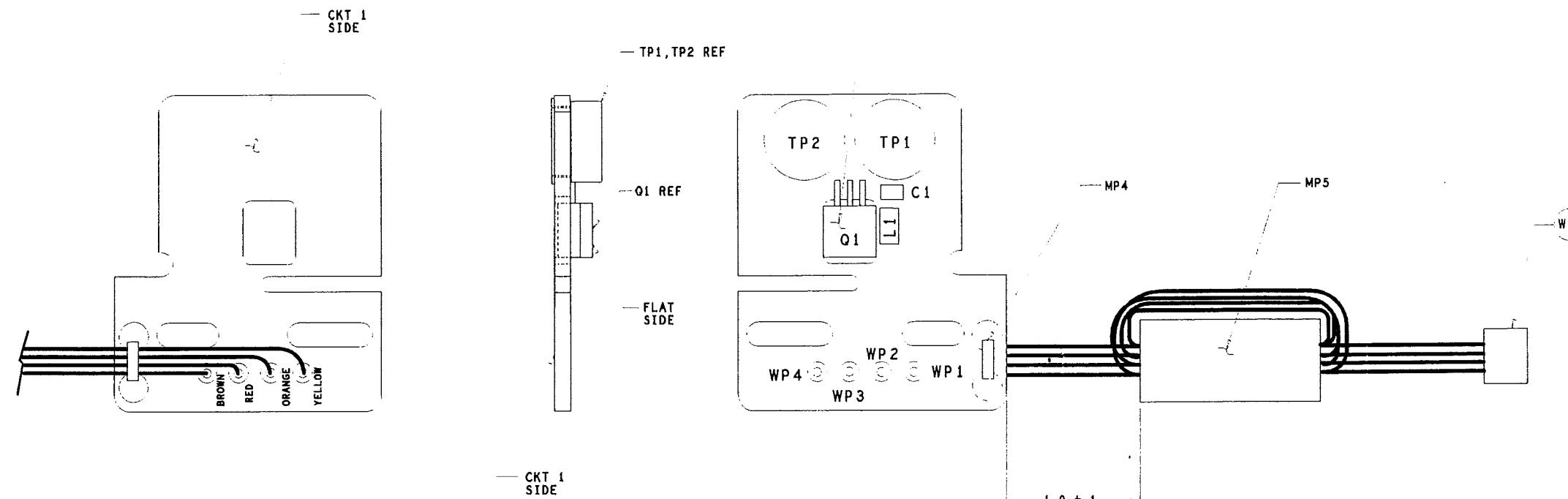
PROPRIETARY

NOTES: UNLESS OTHERWISE SPECIFIED

1. FOR SCHEMATIC DIAGRAM SEE 5500A-1010
  2. ASSEMBLE PER QSD 111.1.

REVISIONS				APPROVAL / DATE		
LTR	DESCRIPTION	EFF	DIM	CHK	PROJ ENGR	NO ENGR
-	RELEASE TO PRE-PILOT	4/12/84	JHG	BB	WW	ECC
A	RELEASE TO PILOT	5-18-84	DMH	BB	WW	4/12/84
R	ECO NO: 5500A-7 P31 & P36	4/20/84	BB	BB	WW	5-24-84
-	RELEASE TO DOCUMENT CTRL	11/10/84	WJ	BB	WW	ECC
C	52233: ITEM 276 WAS 271, P/N WAS 741538.	12/15/84	BB	BB	WW	12/14/84
D	53245: (ZNBA) DIM 1.0 ± .1 WAS .75 ± .1	10/1/86	JP	BB	WW	ESI-9
100	W1011660 SEE PDM RECORD FOR CHANGE DESCRIPTION					
101	W1013700 SEE PDM RECORD FOR CHANGE DESCRIPTION					

FLAT SIDE UP —



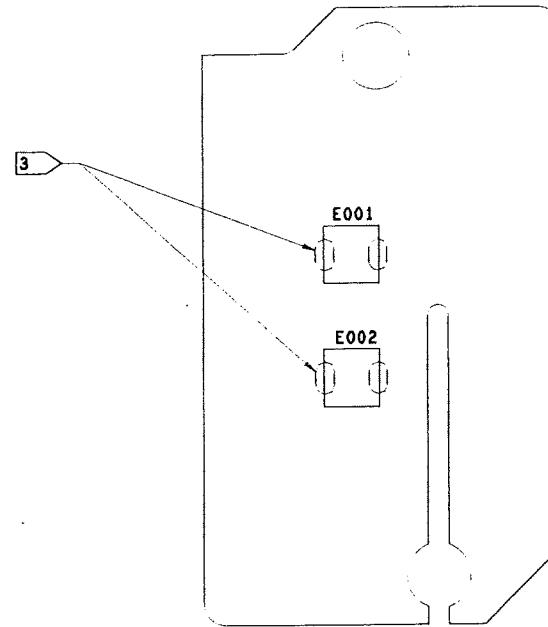
PROPRIETARY

D

C

B

A



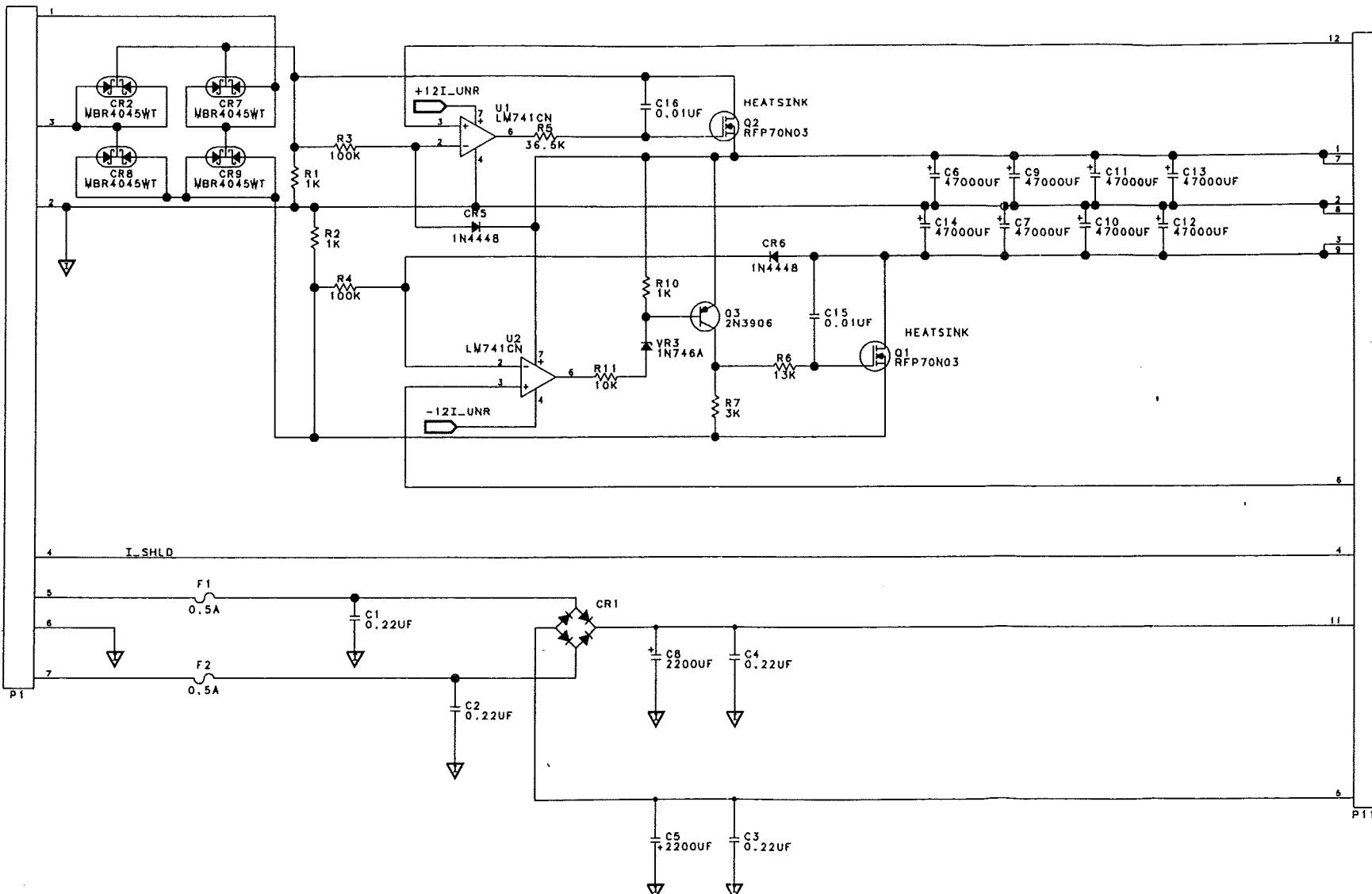
CIRCUIT 6 SIDE

PROPRIETARY

NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL RESISTANCES ARE IN OHMS.
- 2.
3. FOR ASSEMBLY DRAWING SEE 5500A-7612.

REVISIONS		APPROVAL DATE			
REV	DESCRIPTION	04M	CHK	PROJ ENGR	WG ENGR
100	RELEASE TO PHASE II	W.B.			
	A REVISED FOR PILOT RUN	11-18-84	W.B.		
	B INCORPORATED ECO 5500A-P5, P10, P38, AND 44.	11-10-84	W.B.		
	C INCORPORATED ECO 5500A-100 AND 105. SUPPRESSED DEVELOPMENT INFORMATION. RELEASE TO DOC. CONTROL.	11-18-84	W.B.	11-21-84	11-21-84
	D 53369: VALUE C6, C7, C9-14 WAS 56000UF	11-14-84	W.B.	11-15-84	11-15-84
100	W1004693: SEE PDV RECORD FOR DESCRIPTION OF REVISION.				



8

7

6

1

6

1

2

1

MP3

MP4  
EAR SIDE

A12

MP7  
FAR SIDE

MP6  
FAR SIDE

MP5  
FAR SIDE

P112

MP1

MP2

F1

F2

P1

C1 C2 CR1 C5 C8 C3 C4 C14 C16 R5 U1 U2 CR5 R3 R11 R1

C6 C10 C15 R6 Q3 R10 RT R4 VR3 R2

C13 C12 C9 C7 C11 C1 CR7 CR2 CR9 CR8

VIEWED FROM CKT 2 SIDE

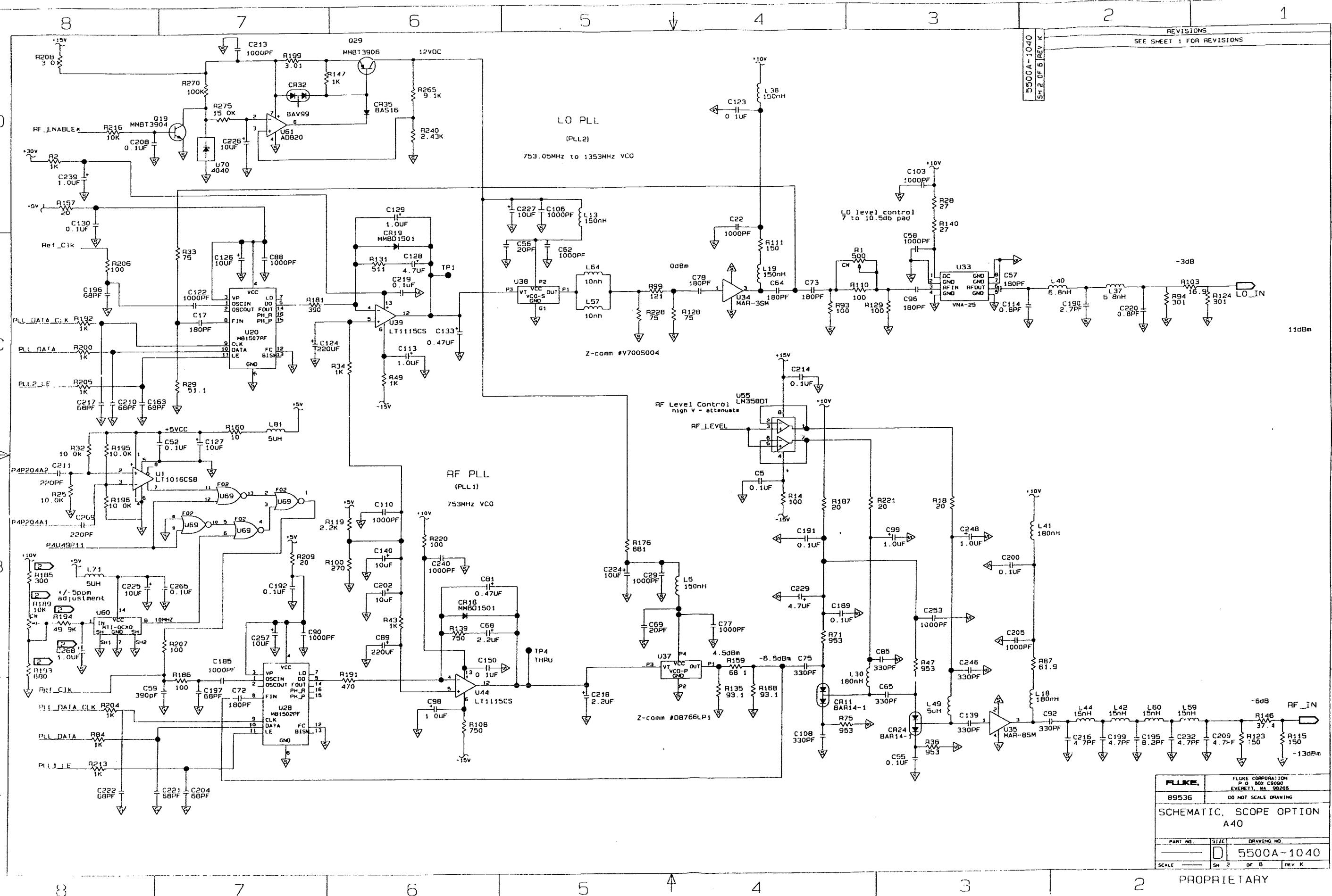


**CAUTION**  
SUBJECT TO DAMAGE BY  
STATIC ELECTRICITY

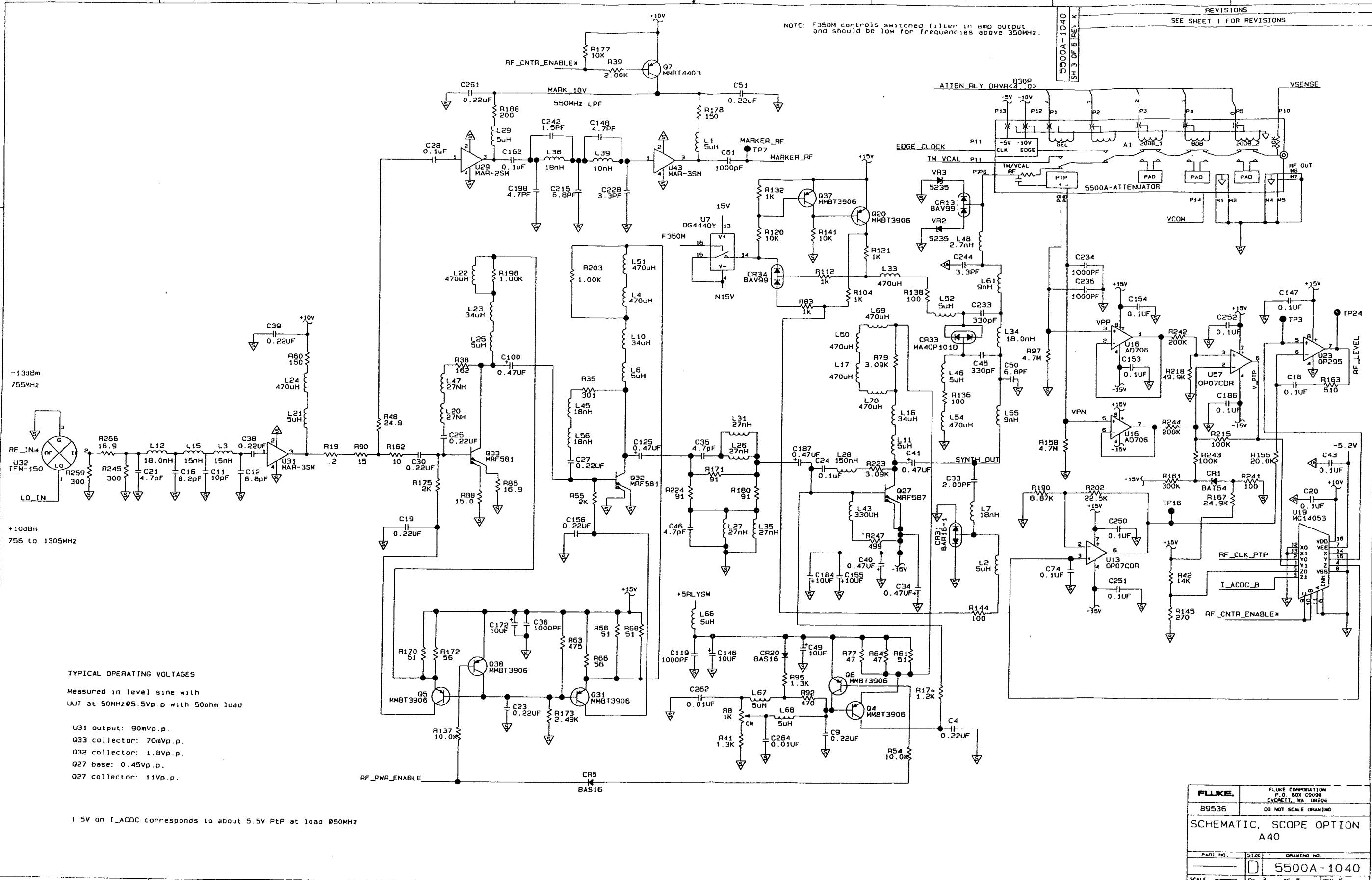
PROPRIETARY NOTICE This document and the technical data herein described, are proprietary to John Fluke Mfg. Co., Inc. and shall not, without express written permission of John Fluke Mfg. Co., Inc., be copied, reproduced or otherwise made or used, or used to assist another company to compete with John Fluke Mfg. Co., Inc. The information herein has been developed at great expense and effort, and is protected by a variety of engineering, aesthetic and/or copyright laws and other documents which prohibit the manufacture of products from John Fluke Mfg. Co., Inc.			
BASIC DRAFT NO.	DRAWING NO.	PART NO.	
SUFFIX	FIRST USED ON	APPLICATION	
<b>FLUKE</b>			
89536 DO NOT SCALE DRAWING			
UNLESS OTHERWISE SPECIFIED			
TOLERANCE	DIMENSIONS IN INCHES		
.XX ±	XX ±		
.XXX ±	XXX ±		
ANGLES ±	C°		
JOHN FLUKE MFG. CO., INC. P.O. BOX 98268 EVERETT, WA 98208			
DWN BARBARA CANDIOTTI 1-31-94 CHM WILLIAM BRITZ 1-31-94 PROJ ENGR BARREN WONG 2-1-94 MFG ENGR ED COLLINS 2-1-94			
ASSEMBLY, A12, FILTER			
PART NO.		SIZE	DRAWING NO.
945337		D	5500A-7612
SCALE NONE		SH 1	OF 1
		REV 100	
PROPRIETARY			

PROPRIETARY

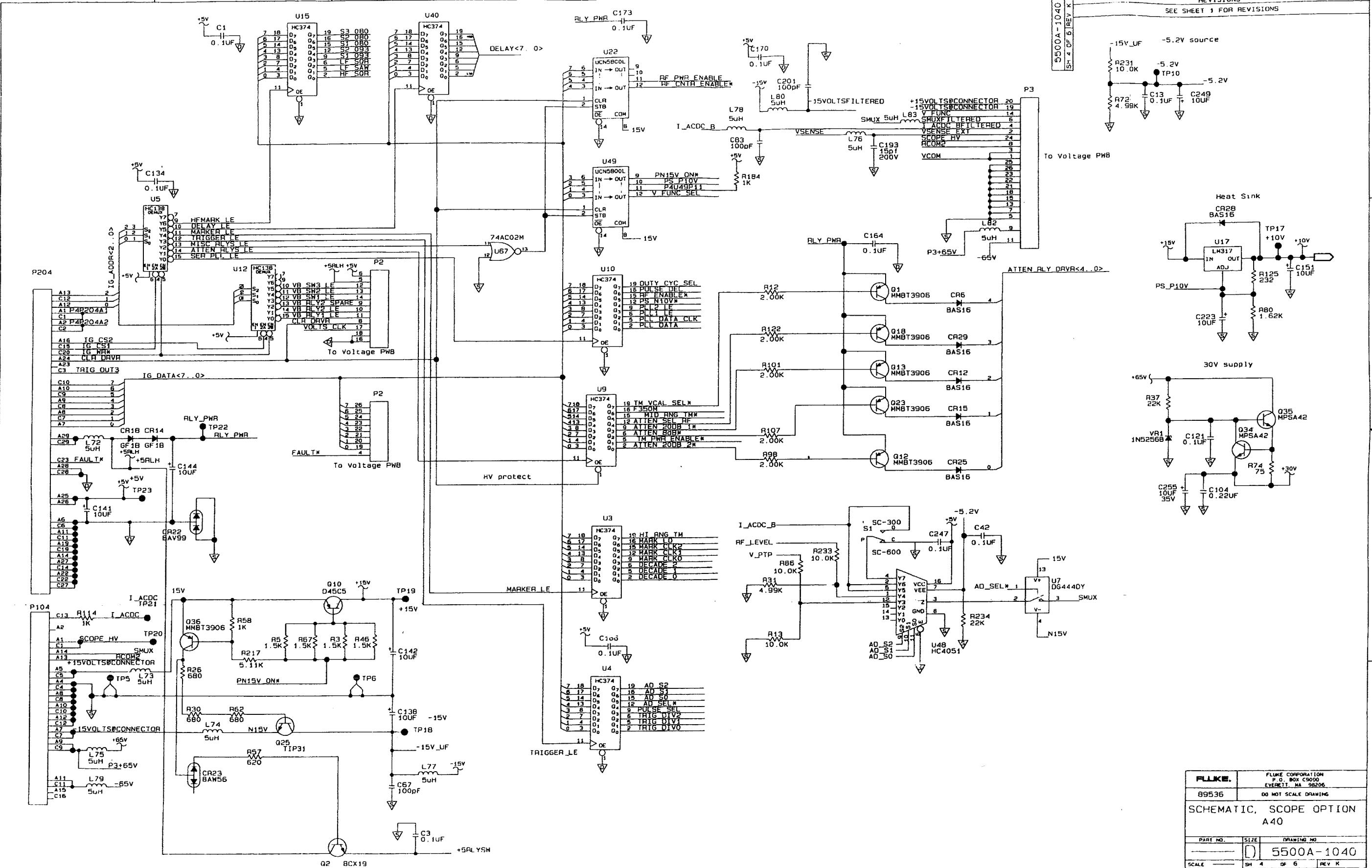




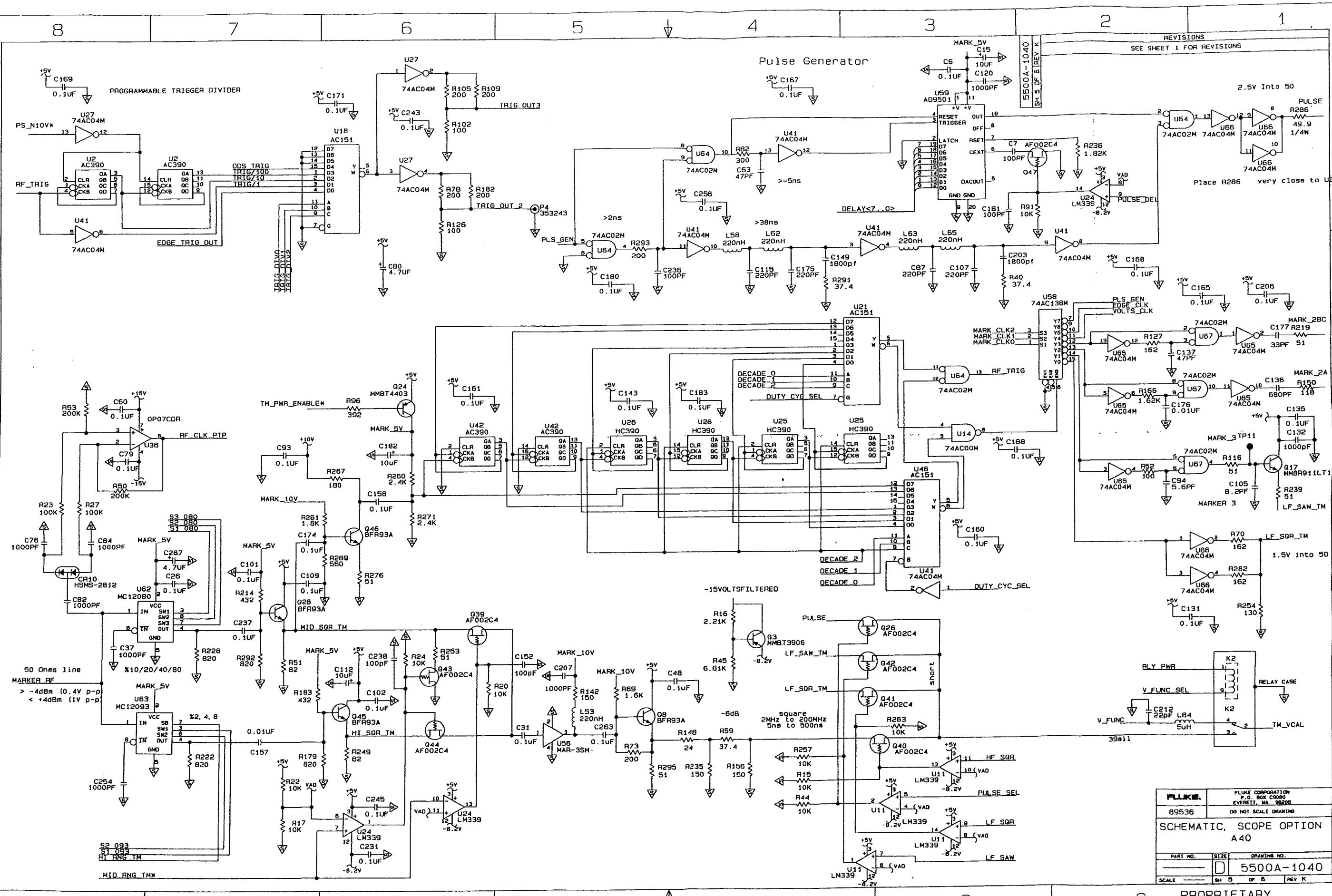
PROPRIETARY



8 7 6 5 4 3 2 1



FILKIE.	FLUKE CORPORATION P.O. BOX C9000 EVERETT, MA 02146
89536	DO NOT SCALE DRAWING
SCHEMATIC, SCOPE OPTION A40	
PART NO.	SIZE DRAMING NO.
	5500A-1040
SCALE	SH 4 OF 6 REV K

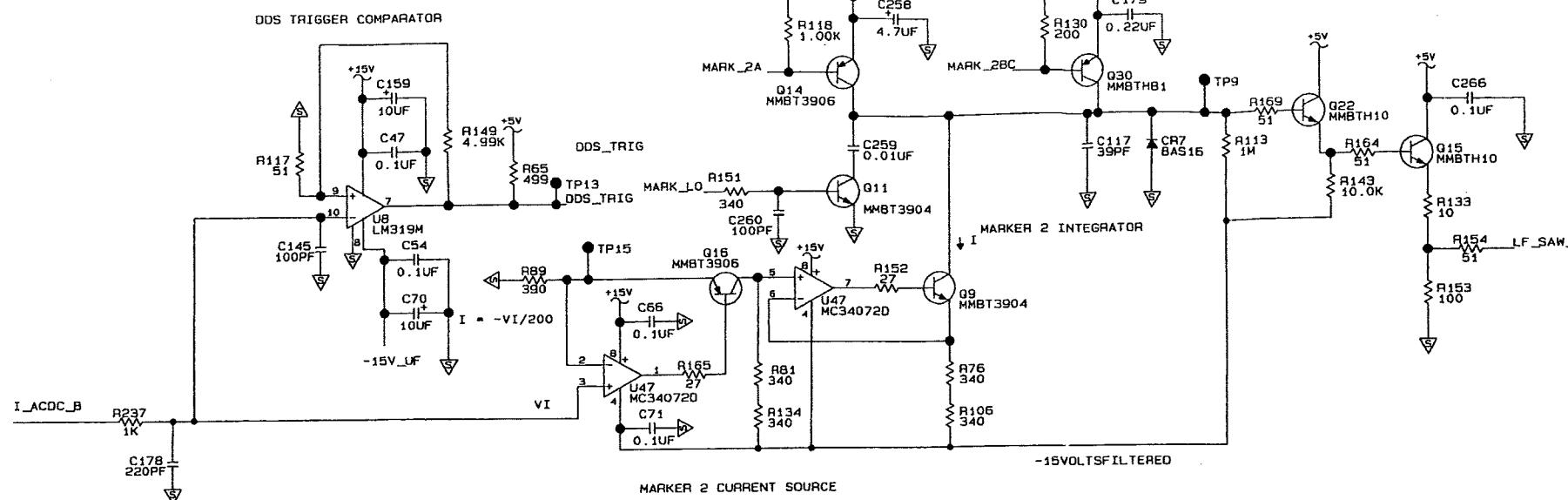


PROPRIETARY

8 7 6 5 4 3 2 1

REVISIONS  
SEE SHEET 1 FOR REVISIONS

5500A-1040  
SH 6 OF 6 REV X



FLUKE	FLUKE CORPORATION P.O. BOX C9090 EVERETT, MA 02149
89536	DO NOT SCALE DRAWING
SCHEMATIC, SCOPE OPTION A40	
PART NO.	SIZE
	D
SCALE	SH 6 OF 6 REV K
	5500A-1040

PROPRIETARY

8 7 6 5 4 3 2 1

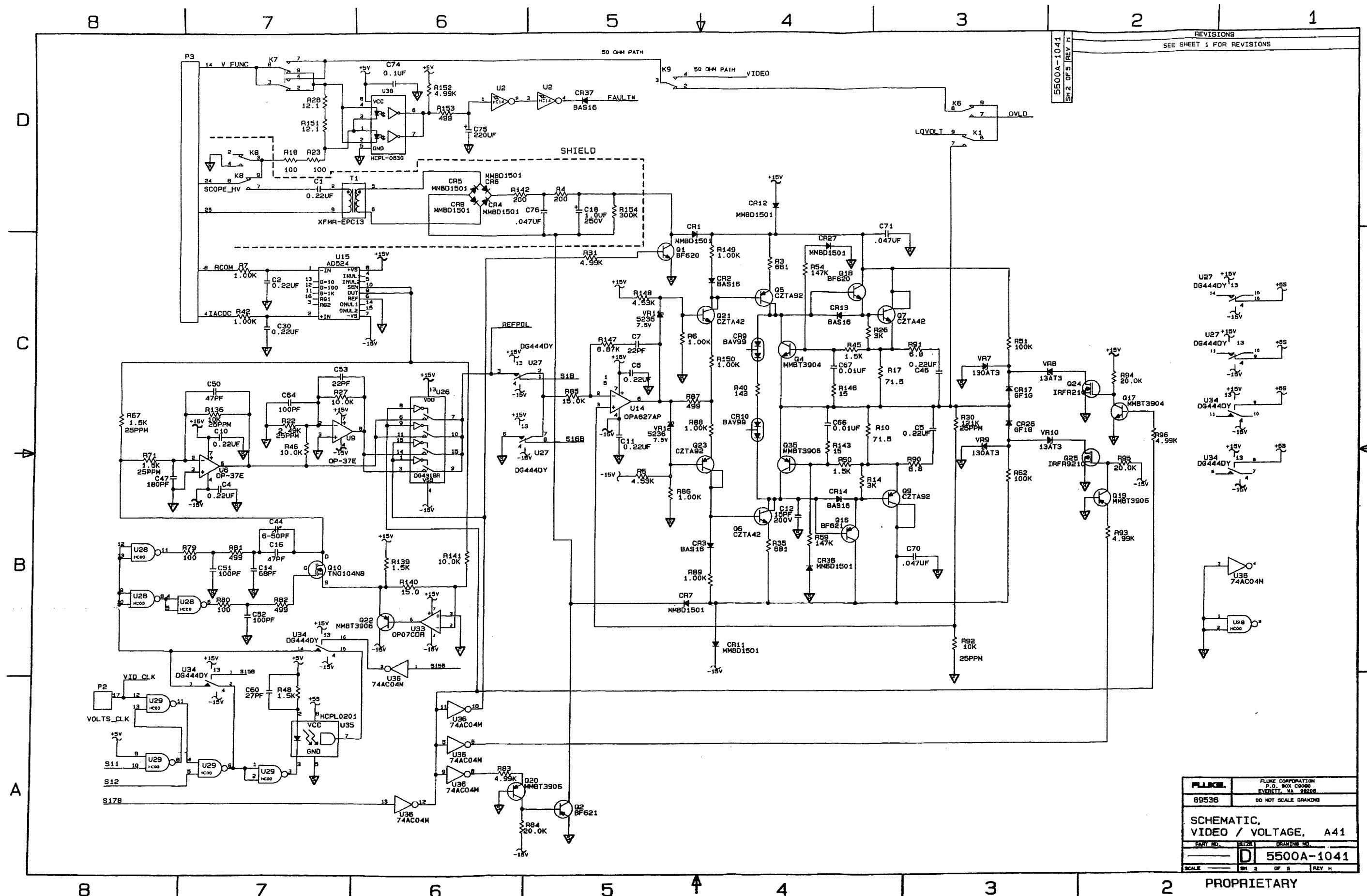




REV	DCO	DESCRIPTION	OWN	CHK	APPO	APPO
SEE SHEET 1 FOR REVISIONS						
1	686	603834 ----- CAP,CER,2.0PF,+-0.25PF,50V,COG,0805	C33			
1	679	643459 ----- CAP,CER,22PF,+-5%,200V,COG,0805	C212			
5	677	758078 ----- CAP,CER,220PF,+-10%,50V,COG,1206	C87,C107,C115,C175			
			C178			
3	675	930243 ----- CAP,TA,10UF,+-20%,35V,7343	C44,C97,C255			
1	674	514166 ----- CAP,CER,1.5PF,+-0.5PF,50V,COG,0805	C242			
1	673	519793 ----- CAP,CER,2.7PF,+-0.5PF,50V,COG,0805	C190			
1	672	769240 ----- CAP,CER,33PF,+-10%,50V,COG,1206	C177			
3	671	106146 ----- CAP,CER,0.01UF,+-10%,50V,XTR,0805	C176,C262,C264			
8	670	853861 ----- CAP,CER,68PF,+-10%,50V,COG,1206	C163,C196,C197,C204			
			C210,C217,C221,C222			
7	668	740571 ----- CAP,CER,100PF,+-10%,50V,COG,1206	C7,C67,C145,C152			
			C181,C236,C238			
1	667	493908 ----- CAP,CER,680PF,+-10%,50V,COG,0805	C136			
5	666	867262 ----- CAP,TA,4.7UF,+-20%,10V,3528	C80,C128,C229,C258			
			C267			
2	665	747261 ----- CAP,CER,0.01UF,+-10%,50V,XTR,1206	C157,C259			
2	664	875294 ----- CAP,CER,0.8PF,+-0.1PF,200V,COG,1206	C114,C220			
6	663	866970 ----- CAP,TA,1UF,+-20%,35V,3528	C98,C99,C113,C129			
			C239,C248			
1	662	782409 ----- CAP,CER,5.6PF,+-10%,50V,COG,1206	C94			
2	661	944496 ----- CAP,TA,220UF,+-20%,8V,7343H	C89,C124			
4	660	867650 ----- CAP,CER,100PF,+-1%,50V,COG,0805	C83,C201,C211,C260			
2	659	854760 ----- CAP,TA,2.2UF,+-20%,20V,3528	C68,C218			
2	658	494633 ----- CAP,CER,47PF,+-5%,50V,COG,0805	C63,C137			
1	657	887278 ----- CAP,CER,390PF,+-5%,50V,COG,1206	C58			
2	656	747345 ----- CAP,CER,20PF,+-10%,50V,COG,1206	C56,C69			
28	655	927814 ----- CAP,TA,10UF,+-20%,25V,6032	C15,C49,C70,C91,C95			
			C111,C112,C126,C127			
2	880	816090 ----- JUMPER,WIRE,NOHNSUL,0.200CTR	TP5,TP6			
			C138,C140-C142,C144			
2	840	603156 ----- HEADER,2 ROW,2MMCTR,LOCK/EJECT,26 PIN	P2,P3			
			C146,C151,C155,C159			
4	815	838458 ----- RIVET,S-TUB,OVAL,AL.,.087,.343	H33-36			
			C172,C182,C184,C202			
1	810	803247 6060A-2048 RELAY WASHER	H37			
			C223-227,C249			
1	807	853408 ----- HEAT DIS,VERT.,.75,.50,.50,TO-220	MP38			
			C11			
1	805	544056 ----- SOCKET,SINGLE,PWB,FOR .042-.049 PIN	P5-13			
1	804	807800 ----- CONN,DIN41612,TYPE C,RT ANG,64 PIN	P204			
1	803	836866 ----- CONN,DIN41612,TYPE 1/2C,RT ANG,32 PIN	P104			
1	802	353243 ----- CONN,COAX,SBM(W),PWB,RT ANG	P4			
1	801	461087 ----- RELAY,ARMATURE,2 FORM C,5VDC	K2			
			C240,C253,C254			
9	805	544056 ----- SOCKET,SINGLE,PWB,FOR .042-.049 PIN	P5-13			
1	804	807800 ----- CONN,DIN41612,TYPE C,RT ANG,64 PIN	P204			
1	803	836866 ----- CONN,DIN41612,TYPE 1/2C,RT ANG,32 PIN	P104			
1	802	353243 ----- CONN,COAX,SBM(W),PWB,RT ANG	P4			
1	801	461087 ----- RELAY,ARMATURE,2 FORM C,5VDC	K2			
			C240,C253,C254			
2	783	603206 ----- INDUCTOR,0.0088UH,+-5%,0.750ADC,1206	L55,L61			
1	782	107265 ----- INDUCTOR,0.18UH,+-10%,0.065ADC	L43			
3	781	106705 ----- INDUCTOR,0.010UH,+-5%,0.30ADC	L39,L57,L64			
2	780	106690 ----- INDUCTOR,0.0068UH,+-0.0005UH,0.50ADC	L37,L40			
2	779	603214 ----- INDUCTOR,0.018UH,+-20%,0.680ADC,1210	L12,L34			
6	778	106713 ----- INDUCTOR,0.027UH,+-5%,0.30ADC	L20,L26,L27,L31,L35			
			L47			
3	777	800920 ----- INDUCTOR,0.18UH,+-10%,770MHZ	L18,L30,L41			
3	776	944509 ----- INDUCTOR,33UH,+-10%,0.115ADC	L10,L16,L23			
9	775	106739 ----- INDUCTOR,0.22UH,+-5%,0.45ADC	L8,L9,L14,L32,L53			
			L58,L62,L63,L65			
4	774	106897 ----- INDUCTOR,0.010UH,+-5%,0.300ADC	L7,L36,L45,L56			
5	773	844902 ----- INDUCTOR,0.15UH,+-5%,825MHZ	L5,L13,L19,L28,L38			
10	772	107257 ----- INDUCTOR,470UH,+-10%,0.080ADC	L4,L17,L22,L24,L33			
6	771	603198 ----- INDUCTOR,0.015UH,+-5%,0.680ADC,1206	L50,L51,L54,L69,L70			
			L60			
24	770	943704 ----- FERRITE CHIP,600 OHM B100 MHZ,1206	L1,L2,L6,L11,L21			
			L25,L29,L46,L49,L52			
			L66-68,L72-75,L77-80,			
			L82-84			
OTY	ITEM	JFNP	DRAWING NO.	DESCRIPTION	REFERENCE DESIGNATOR	
PARTS LIST						
QTY	ITEM	JFNP	DRAWING NO.	DESCRIPTION	REFERENCE DESIGNATOR	
				PARTS LIST		

REV	DCO	DESCRIPTION	REFERENCE DESIGNATOR			
PARTS LIST						
1	630	603453 ----- CAP,CER,15PF,+-5%,200V,COG,0805	C193			
1	593	930172 ----- RES,CERM,1.82K,+-1%,0.1W,100PPM,0805	R236			
1	591	867692 ----- RES,CERM,40.2K,+-1%,.125W,100PPM,1206	R21			
3	557	756338 ----- RES,CERM,91,+-5%,.125W,200PPM,1206	R171,R180,R224			
2	555	105988 ----- RES,CERM,3.09K,+-1%,.125W,100PPM,1206	R79,R223			
1	553	745984 ----- RES,CERM,620,+-5%,.125W,200PPM,1206	R57			
2	547	801423 ----- RES,CERM,1.33K,+-1%,.125W,100PPM,1206	R41,R95			
1	535	867689 ----- RES,CERM,24.9K,+-1%,.125W,100PPM,1206	R167			
1	534	944884 ----- RES,CERM,392,+-1%,0.125W,100PPM,1206	R96			
1	533	929674 ----- RES,CERM,49.9,+-1%,0.25W,100PPM,1210	R286			
1	530	740514 ----- RES,CERM,560,+-5%,.125W,200PPM,1206	R289			
1	529	746321 ----- RES,CERM,180,+-5%,.125W,200PPM,1206	R267			
1	528	746602 ----- RES,CERM,9.1K,+-5%,.125W,200PPM,1206	R265			
2	527	746495 ----- RES,CERM,2.4K,+-5%,.125W,200PPM,1206	R260,R271			
2	526	836367 ----- RES,CERM,1M,+-1%,.125W,100PPM,1206	R4,R113			
1	525	816041 ----- RES,CERM,130,+-5%,.125W,200PPM,1206	R254			
3	524	746362 ----- RES,CERM,300,+-5%,.125W,200PPM,1206	R82,R245,R259			
1	523	867494 ----- RES,CERM,100,+-1%,.125W,100PPM,1206	R241			
1	522	810655 ----- RES,CERM,2.43K,+-1%,.125W,100PPM,1206	R240			
1	520	944439 ----- RES,CERM,0.2,+-5%,0.1W,600PPM,0805	R19			
1	519	810663 ----- RES,CERM,5.11K,+-1%,.125W,100PPM,1206	R217			
1	518	913850 ----- RES,CERM,22.25K,+-1%,100PPM,1206	R202			
1	517	876016 ----- RES,CERM,8.87K,+-1%,.125W,100PPM,1206	R190			
1	516	927421 ----- RES,CERM,20K,+-1%,.125W,100PPM,1206	R9			
1	515	769810 ----- RES,CERM,15K,+-1%,.125W,100PPM,1206	R275			
QTY	ITEM	JFNP	DRAWING NO.	DESCRIPTION	REFERENCE DESIGNATOR	
PARTS LIST						

PART NO.	SIZE	DRAWING NO.	REV
613403D	SH 2	5500A-4040	J
FLUKE	FCM NO.	P.O. BOX 8080 EVERETT	

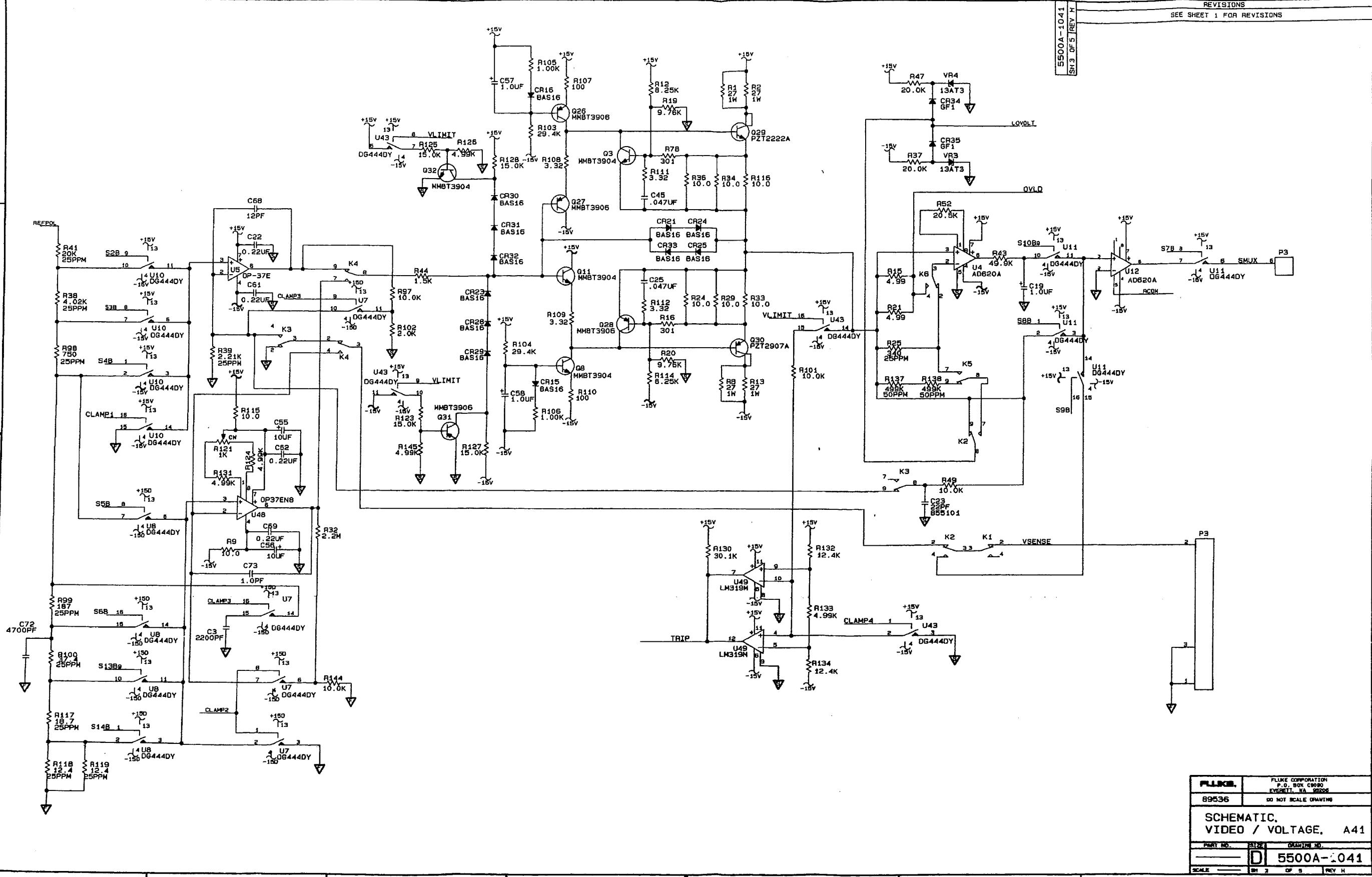


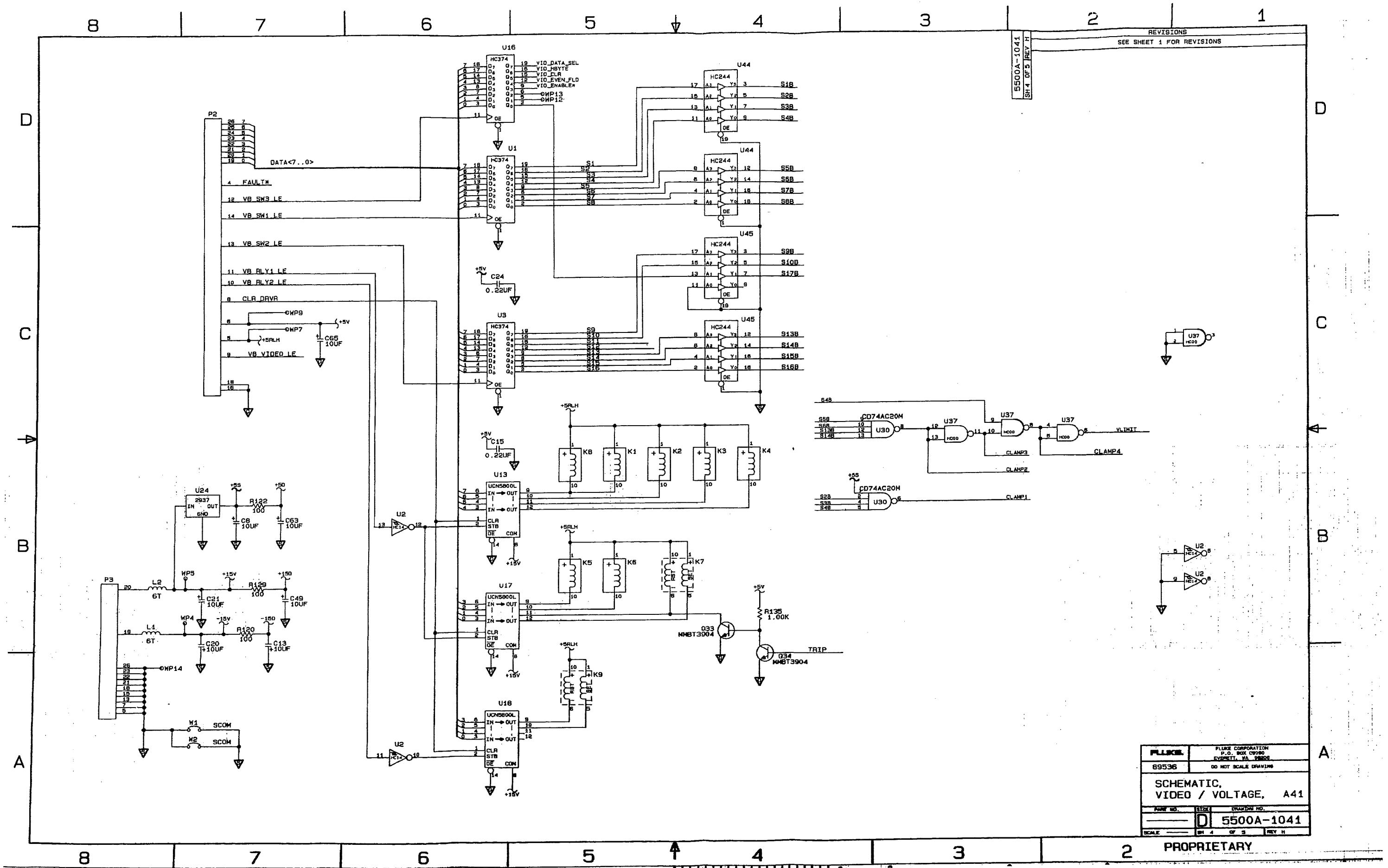
8 7 6 5 4 3 2 PROPRIETARY

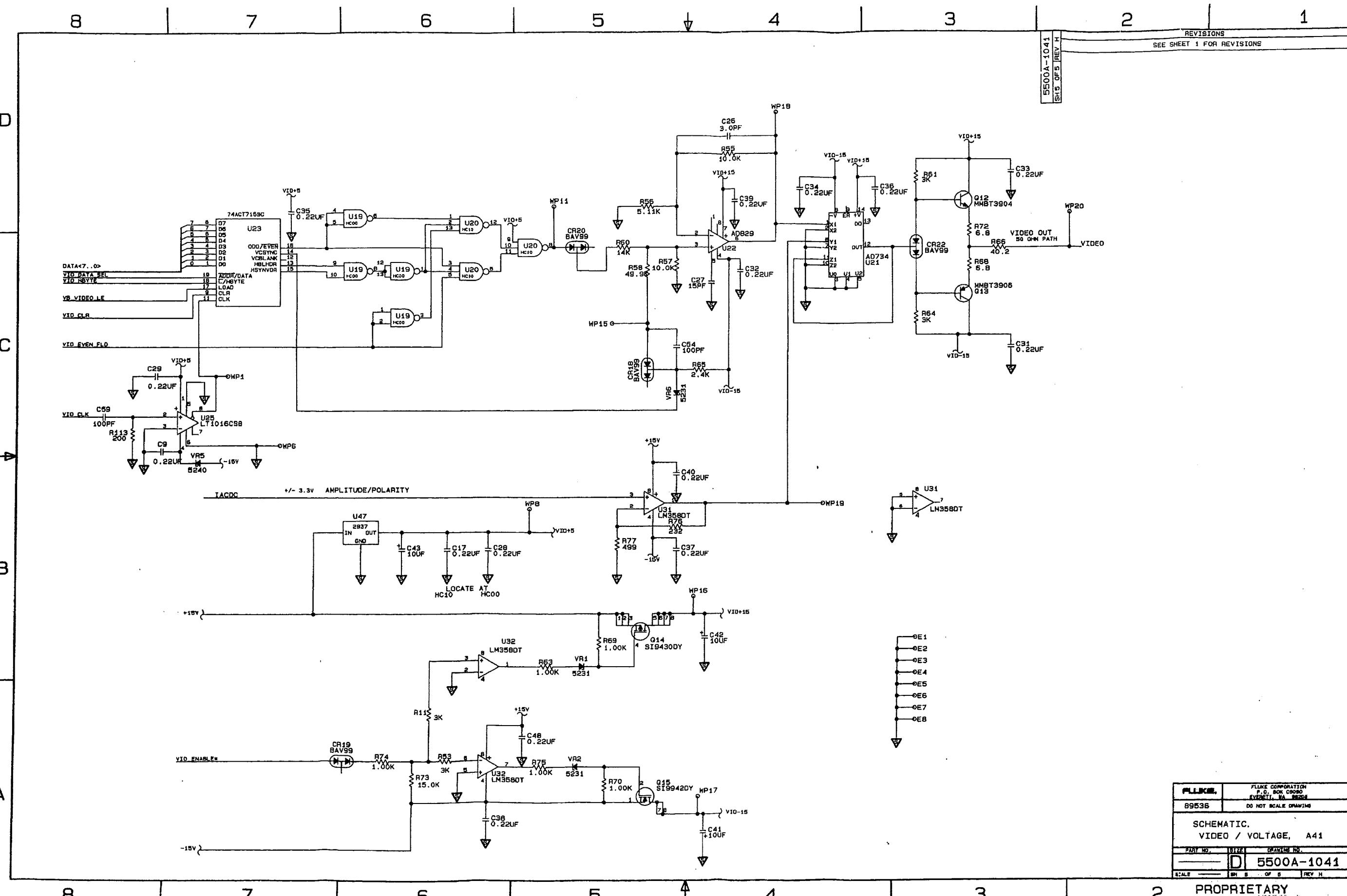
8 7 6 5 4 3 2 1

REVISIONS  
SEE SHEET 1 FOR REVISIONS

5500A-1041  
SH 3 OF 5 REV H







KIR.	FLUKE CORPORATION P.O. BOX C9080 EVERETT, WA 98203		
35	DO NOT SCALE DRAWING		
Schematic.			
VIDEO / VOLTAGE, A41			
NO.	SIZE	DRAWING NO.	
	D	5500A-1041	



8

1

6

2

4

1

1

**NOTES:** UNLESS OTHERWISE SPECIFIED

1. ALL RESISTANCE IS IN OHMS.
2. ALL CAPACITANCE IS IN MICRO-FARADS.
3. FOR ASSEMBLY DRAWING SEE: 5500A-4041.
4. FOR REFERENCE DESIGNATOR DRAWING SEE: 5500A-164

REF	DES	PARTNAME	DGND	P5D	P5S	P5V	SGND	V1DPS
U1, U3, U16		74HC374	10			20		
U2		74HC14	7			14		
U7, UB		DG444DY		12			5	
U10, U11, U27		DG444DY			12		5	
U34, U43								
U13, U17, U18		UCN5800L	7			13		
U19		74HC00					7	14
U20		74HC10					7	14
U23		74ACT715SC					10	20
U26		ADG431		12			5	
U28, U37		74HC00		14			7	
U29		74HC00	7			14		
U30		CD74AC20M			14		7	
U36		74AC04M			14		7	
U44, U45		74HC244			20		10	

REFERENCE DESIGNATION	
LAST USED	NOT USED
C76	
CR37	
E8	
K9	
L2	
P3	P1
Q35	
R154	
T1	
U49	U39-42, 46
VR12	
W2	
WP20	WP2, 3, 10

5500A-1041		REVISIONS			
REV	LTR	DESCRIPTION		APPROVAL/DATE	
		DMN	COR	PROJ ENG	WGS ENG
H	C	RELEASE TO PILOT RUN	D.H.	J.F.	E.C.
I	D	RELEASE TO DOCUMENT CONTROL	1-3/97	10-97-10-97	10-97
F	E	DCO 53775, GJ791 AND 53845.	J LEE	D.P.	E.C.
F	F	DCO 53808.	3/28/97	3/6/97	3/6/97
G	G	DCO 55388.	J F.	5/20/98	5/20/98
H	H	DCO 55583.	J F.	5/20/98	5/20/98

D

98

C

1

B

10

A

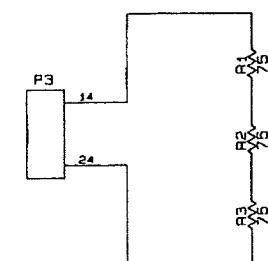
1

PROPRIETARY NOTICE THIS DOCUMENT AND ALL INFORMATION CONTAINED HEREIN ARE THE PROPERTY OF FLUKE CORPORATION. AND MAY NOT BE COPIED OR DISCLOSED EXCEPT AS AUTHORIZED IN WRITING BY FLUKE CORPORATION OR AS REQUIRED BY LAW.		FLUKE CORPORATION P.O. BOX C80800 EVERETT, WA 98200		DRAWN BY JAE LEE REVISED BY CHK DOYLE PEARSON DATE 7/23/98 PROJ. ENGR. 7/31/98 MFG ENGR. ED COLLINS		SCHEMATIC, VIDEO / VOLTAGE, A41	
<b>89536</b>		DO NOT SCALE DRAWING  UNLESS OTHERWISE SPECIFIED		FINISH		PART NO. 01281 DRAWING NO. D 5500A-1041	
TOLERANCE XXX = +/- XXX = +/- ANGLE -/-		DIMENSIONS IN INCHES -- -- -- --				SCALE 1:100 REV H	

PROPRIETARY

NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL RESISTANCE IS IN OHMS.
  2. ALL CAPACITANCE IS IN MICRO-FARADS.
  3. FOR ASSEMBLY DRAWING SEE: 5500A-4042.
  4. FOR REFERENCE DESIGNATOR DRAWING SEE: 5500A-4042.



D

C

B

A

REVISION						
REV	DCO	DESCRIPTION	OWN	CRK	APPD	APPD
-		RELEASE TO DOCUMENT CTRL	JF	2/1/89	9/1/90	5-1-90

**PROPRIETARY NOTICE**  
THIS DOCUMENT CONTAINS INFORMATION  
PROPRIETARY TO FLUKE CORPORATION  
AND SHALL NOT BE USED FOR ENGINEERING  
DESIGN, PROCUREMENT, OR MANUFACTURE  
IN WHOLE OR IN PART WITHOUT THE  
EXPRESS WRITTEN CONSENT OF THE  
FLUKE CORPORATION.

**LUKE** FLUKE CORPORATION  
P. O. BOX 9090  
EVERETT, WA 98206-9090 FCSM NO.  
89536

SCHMATIC,  
COPE INTERCONNECT, A42

LAST\_MODIFIED=Tue May 5 09:50:06 1998

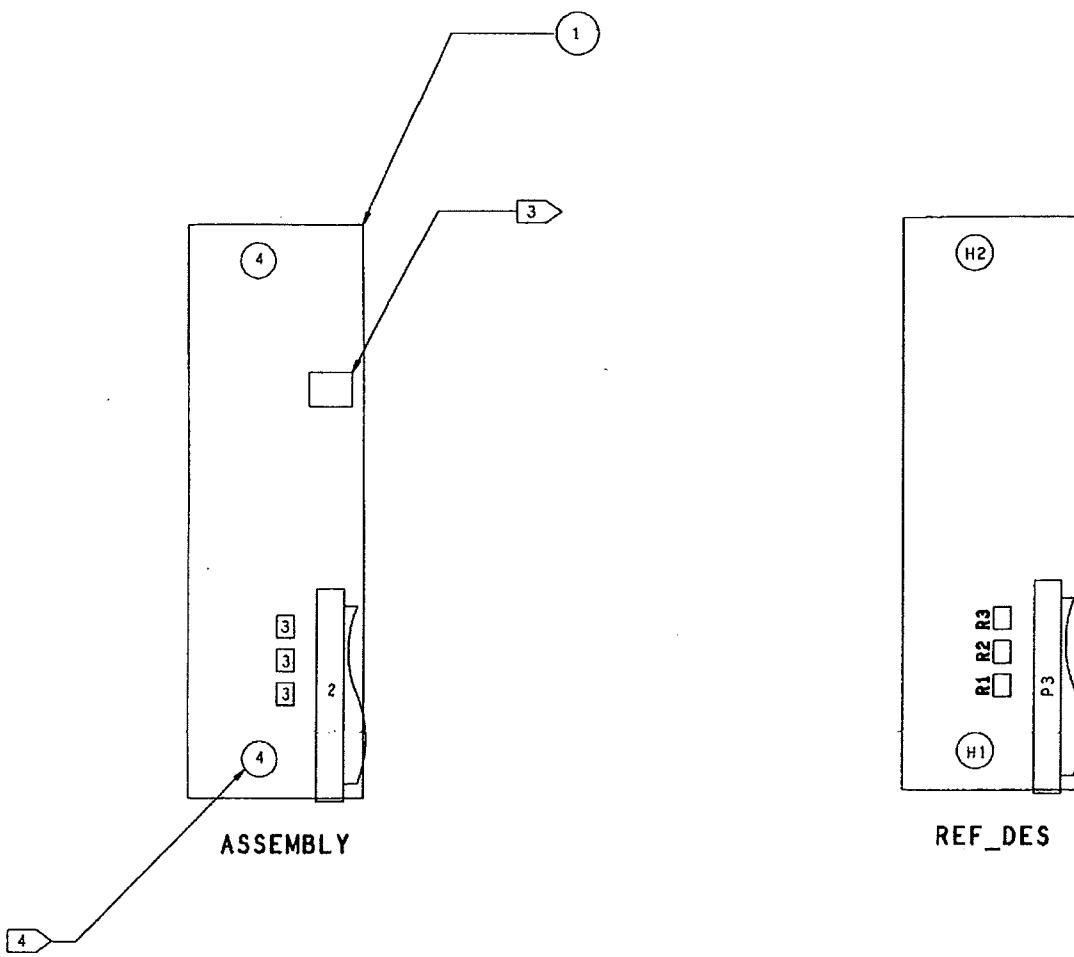
PROPRIETARY



J5500A-4042		REVISIONS	
REV	DCO	DESCRIPTION	OWN
.	.	RELEASE TO DOCUMENT CONL	J LEE 4-6-98 Ebj/98 J. Lee 5/25/98 APPD APPD

NOTES: UNLESS OTHERWISE SPECIFIED

1. FOR SCHEMATIC DIAGRAM SEE 5500-1042.
2. ASSEMBLE PER OSD 111.8.
3. MARK ASSEMBLY REVISION LETTER IN SPACE PROVIDED USING A PERMANENT MARKER.
4. INSTALL ITEM 4 FAR SIDE. (2 PLACES)



OTY	ITEM	JFPN	DRAWING NO.	DESCRIPTION	REFERENCE DESIGNATOR
2	004	357269	-----	SPACER, SWAGE, .250 RND, BR., .140	H1, H2
3	003	929679	-----	RES, CERM, .75, +/- 1%, 0.25W, 100PPM, 1210	R1-3
1	002	603164	-----	CABLE ASSY, FLAT, 26 COND, 2ROW SCKT, PWB	P3
1	001	617172	5500A-3042	PCB, SCOPE, INTERCONNECT, A42	A1

PARTS LIST

PROPRIETARY NOTICE THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO FLUKE CORPORATION AND SHALL NOT BE USED FOR ENGINEERING DESIGN, PROCUREMENT, OR MANUFACTURE IN WHOLE OR IN PART, WITHOUT THE EXPRESS WRITTEN CONSENT OF THE FLUKE CORPORATION.		FCSN NO. P.O. BX 9090 EVERETT, WA 98206-9090 <b>89536</b>
FLUKE		
PCA, SCOPE, INTERCONNECT, A42		
OWN	JAE LEE	4/3/98
CHK	John Fender	5/25/98
APPRV	John Fender	5/25/98
APPRV	John Fender	5/25/98
PART NO. 659877 D 5500A-4042		REV -
SCALE 2:1		SH 1 OF 1

PROPRIETARY

8

7

6

5

4

3

2

1

0

C

D

C

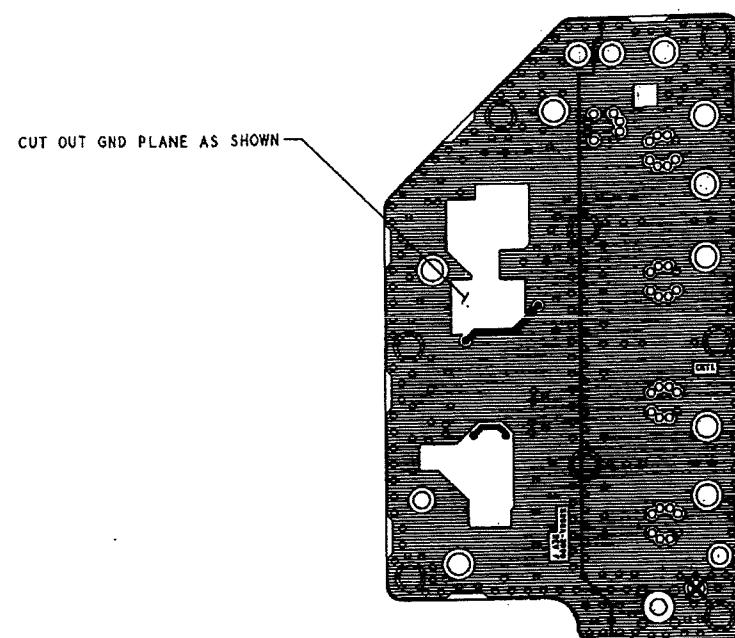
B

A





REVISIONS		APPROVAL / DATE			
REV	CHG	EFF	DM	PROJ. ENGR.	INFO ENGR.
1	2	5500A-4090	2 OF 2 REV J	LTR	SEE SHEET 1 FOR REVISIONS



REWORK DETAIL  
CKT 1 SIDE

FLUKE	JOHN FLUKE MFG. CO., INC. P.O. BOX 3090 EVERETT, WA 98203
89536	DO NOT SCALE DRAWING
<b>PCA, EDGE/ATTENUATOR, A90</b>	
PART NO.	SIZE
621885	D
SCALE 2:1	SH 2 OF 2 REV J

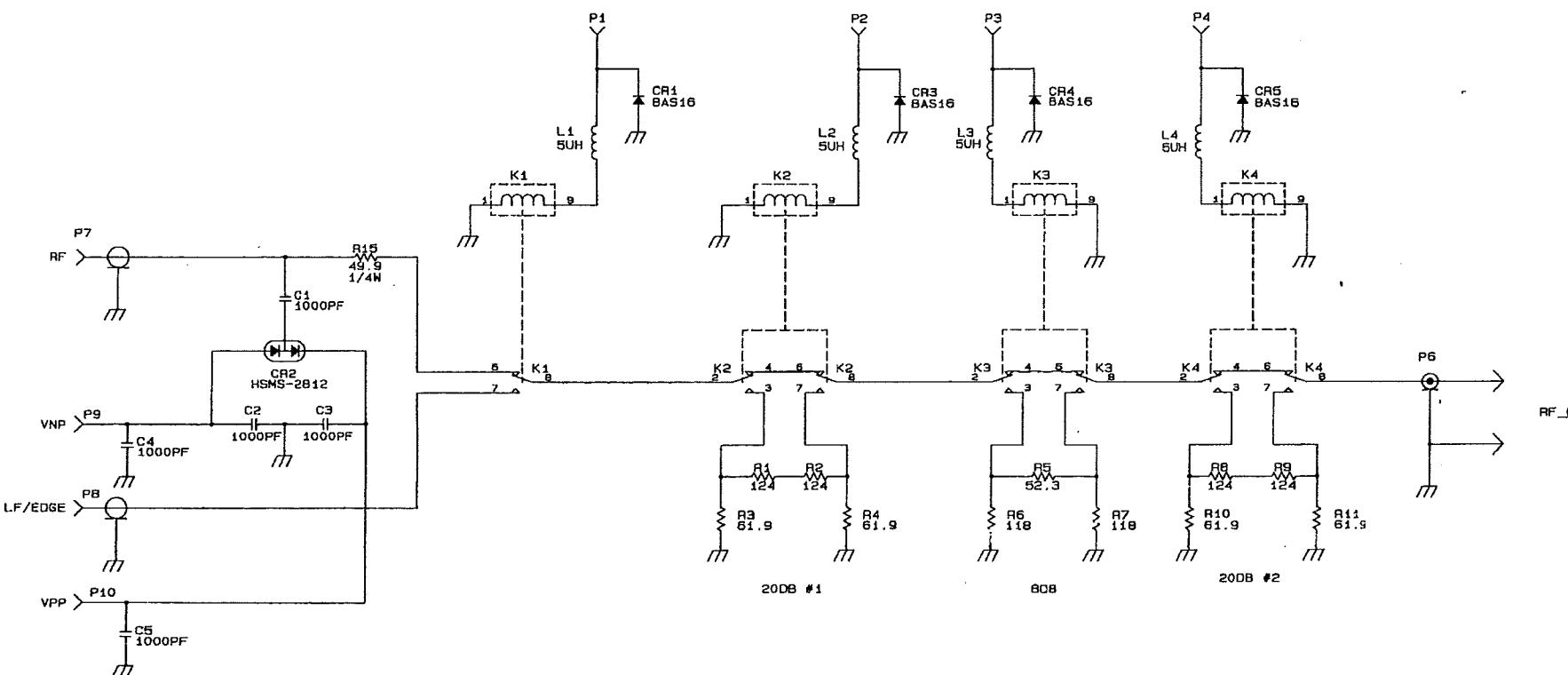
PROPRIETARY

8 7 6 5 4 3 2 1

NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL RESISTORS ARE IN OHMS.
2. ALL CAPACITORS ARE IN MICROFARADS.
3. CHANGES TO THIS DRAWING MUST BE MADE THRU THE DATABASE SHOWN ON SOFTWARE CONTROL DRAWING (SCD) 5500A-C90094.
4. RELAYS ARE SHOWN IN STATE FOR NO COIL POWER APPLIED.

REVISIONS		APPROVAL DATE			
LTR	DESCRIPTION	CHG	CHK	PROJ ENGR	MFG ENGR
A	REVISED PER ENG INPUT	JHG			
B	SWAPPED NC WITH NO ON K2-5.	T.S.			
C	ADDED CR3-6, DELETED P11.	JHG			
D	DELETED 6DB ATTENUATOR, ADDED L1-L4, RELEASE TO PILOT RUN.	JHG	BTB	HN	SH
D	RELEASE TO DOC CONTROL.	JHG	BTB	HN	SH
		8/26/94	8/24/94	8/25/94	5-25-94
		8/16/94	8/16/94	8-11-95	8-11-95



PROPRIETARY NOTICE THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND IS THE PROPERTY OF FLUKE CORPORATION. IT IS PROVIDED PURSUANT TO A CONFIDENTIALITY AGREEMENT. IT IS NOT TO BE COPIED, DISCLOSED, OR USED EXCEPT AS AUTHORIZED IN WRITING BY FLUKE CORPORATION. ANY REPRODUCTION OR OTHER USE OF THIS DOCUMENT IS PROHIBITED.		FLUKE	FLUKE CORPORATION P.O. BOX C5090 EVERETT, WA 98203	DRW Jim Godsalve CHK [initials] PROJ ENGR [initials] MFG ENGR [initials]	10/1/94 10/1/94 P-X-PS
89536 DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED		SCHEMATIC - A94 ATTENUATOR			
TOLERANCE	DIMENSIONS IN INCHES		FINISH		
XXX = +/- ANGLED	XX = +/- ANGLED		DRAWING NO. 5500A-1094		
SCALE	SH 1 OF 1	REV 0			

PROPRIETARY

8

7

6

1

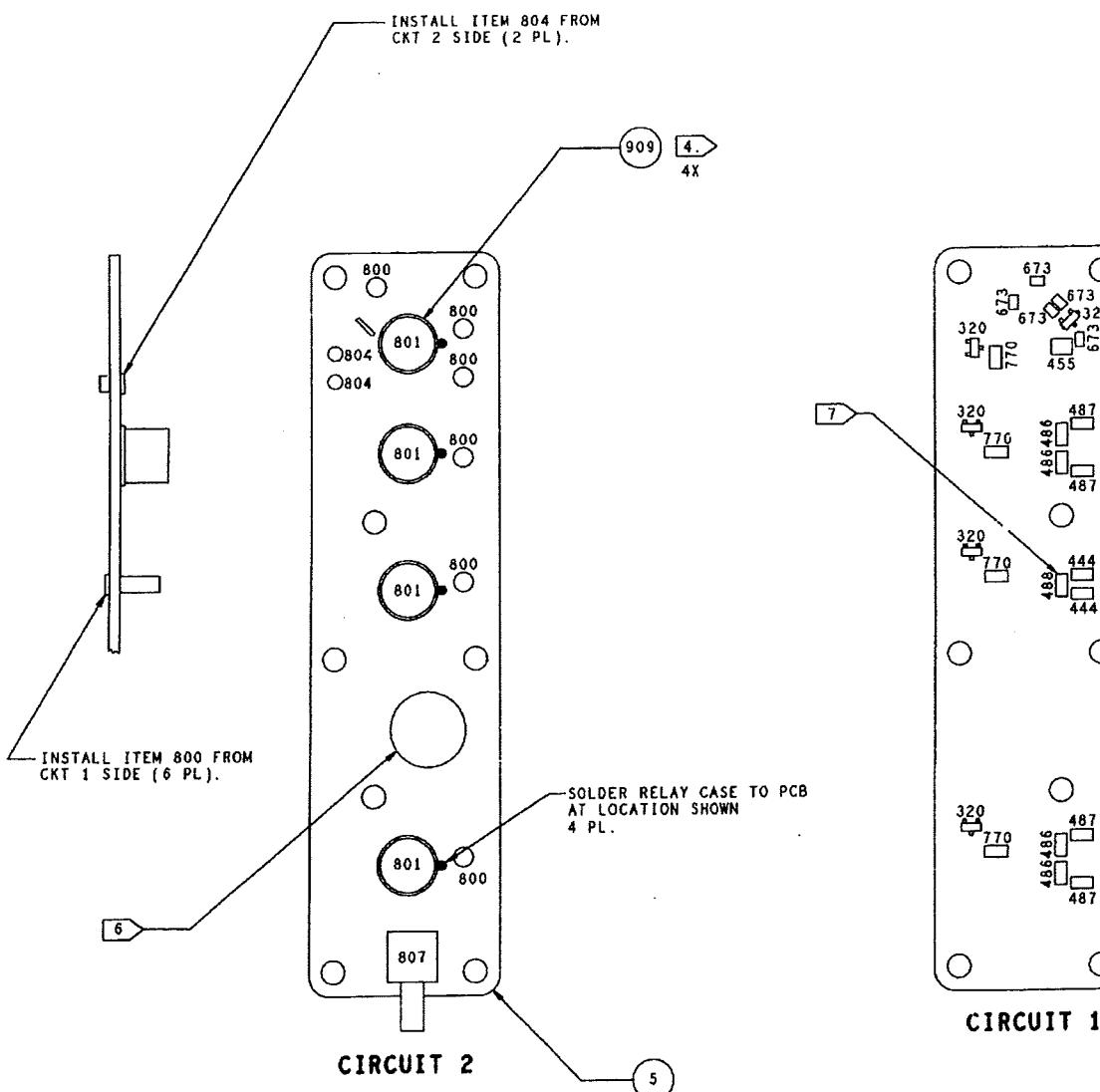
1

10

1

**NOTES:** UNLESS OTHERWISE SPECIFIED

1. FOR SCHEMATIC DIAGRAM SEE 5500A-1094.  
FOR REFERENCE DESIGNATOR DRAWING SEE 5500A-1694.
  2. ASSEMBLE PER OSO 111.8.
  3. CHANGES TO THIS DRAWING MUST BE MADE THRU THE DATABASE  
SHOWN ON SOFTWARE CONTROL DRAWING (SCD) 5500A-C90094.
  4.  INSTALL SPACER, ITEM 909, UNDER RELAY, ITEM 801.
  - 5.
  6.  MARK ASSEMBLY REVISION LETTER IS AREA SHOWN, USING  
PERMANENT BLACK FELT-TIP PEN.
  7.  AT TOUCHUP STATION, MOVE ITEM 488 CLOSER TO ITEMS 444 (2)

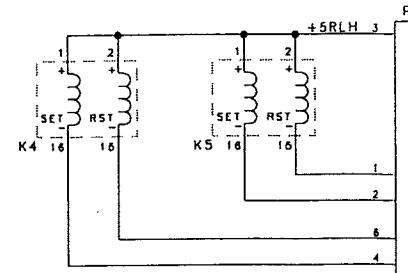


**CAUTION**  
SUBJECT TO DAMAGE BY  
STATIC ELECTRICITY

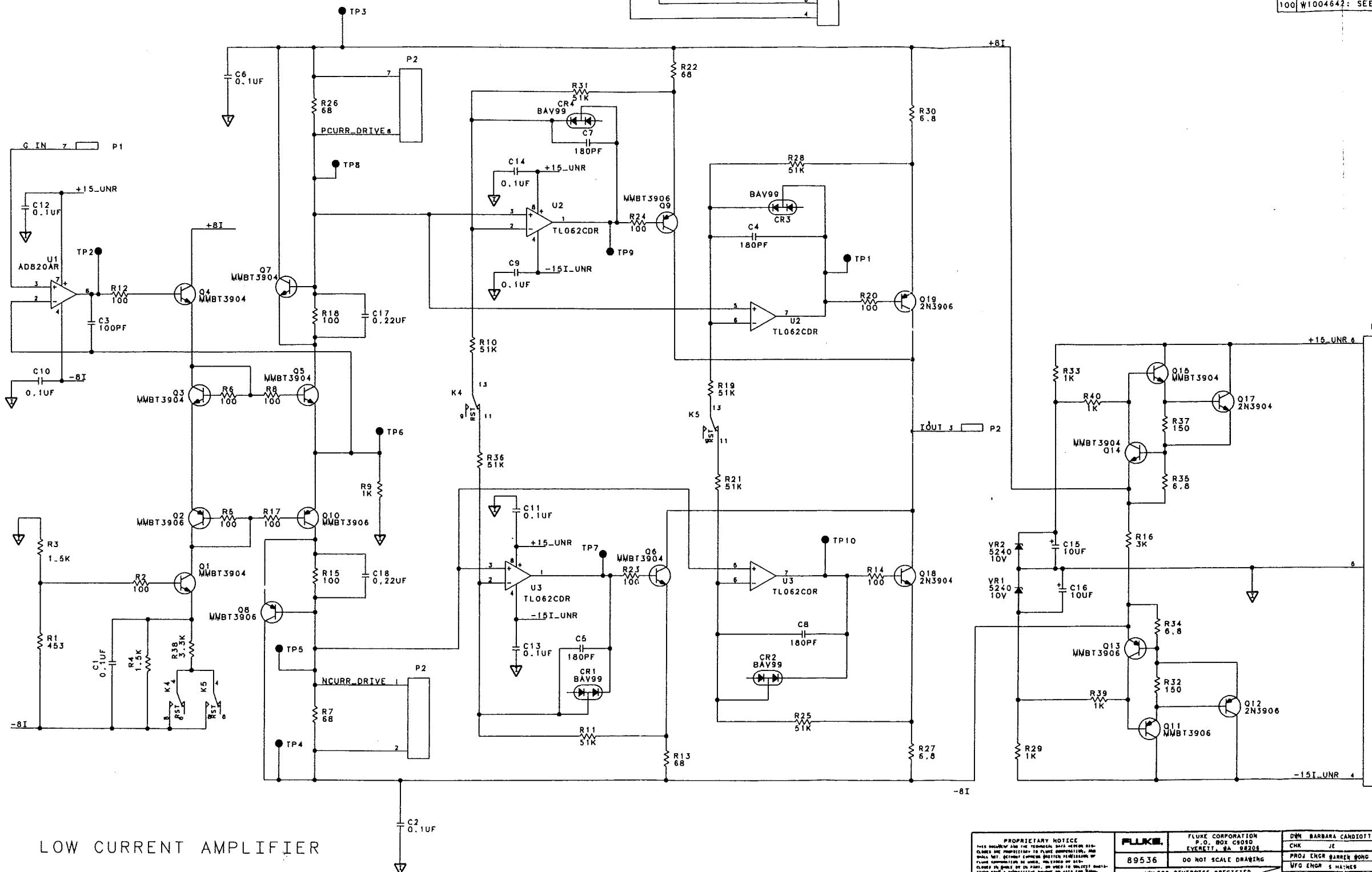
SCALE 2:1 ISH 1 OF 1

NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL RESISTANCES ARE IN OHMS.
  - 2.
  3. FOR ASSEMBLY DRAWING SEE 5500A-7697.



		REVISIONS				APPROVAL/DATE	
LTR	DESCRIPTION	DMM		CHG		PROJ ENO	VFO LNO
		REV	DATE	REV	DATE		
A	RELEASE TO PHASE II	JHG	3/1/94				
B	RELEASE TO PILOT	JE	5-3-94				
C	INCORPORATED ECO 5500A-13, 15, 36 AND P28.	B.C.	6-25-94				
C1	SUPPRESSED DEVELOPMENT INFORMATION. RELEASE TO DOC. CONTROL.	B.C.	11-16-94	JE	11-17-94	WW	SH
D	53789: (ZN8B) R4 VALUE WAS 2.43K, R38 VALUE WAS 1.8K.	X.P.	4/29/97			JGR	5/1/97
100	W1004642: SEE PDM RECORD FOR DESCRIPTION OF REVISION.						



## LOW CURRENT AMPLIFIER

PROPRIETARY NOTICE THIS DRAWING AND THE TECHNICAL DATA HERINBORN, CONTAINED HEREIN ARE THE PROPERTY OF FLUKE CORP., AND SHALL NOT BE COPIED, EXCEPT EXPRESS WRITTEN PERMISSION OF FLUKE CORP. IN WRITING. THIS DRAWING IS FOR THE USE OF FLUKE EMPLOYEES OR FLUKE CONTRACTORS ONLY. IT IS THE PROPERTY OF FLUKE CORP. AND IS TO BE RETURNED TO FLUKE CORP. WHEN NO LONGER NEEDED AS A SOURCE OF INFORMATION.		FLUKE CORPORATION P.O. BOX C5040 EVERETT, WA 98204		DVM BARBARA CANDIOTTI 1/17/84 CHK JC 1/17/84 PROJ ENGR BARREN BONG 1/21/84 UFC ENGR S MATHEWS 1/21/84		SCHEMATIC, SIP, LOW CURRENT AMPLIFIER, A97			
89536 DO NOT SOLVE DRAWING		UNLESS OTHERWISE SPECIFIED		FINISH		PART NO.	SIZE	DRAWING NO.	
								5500A-1097	
TOLERANCE		DIMENSIONS IN INCHES				SCALE	SM 1	OF 1	REV 100
XX = +/-		XX =							
XXX = +/-		XXX =							
ANGLES = +/-		ANGLES =							

PROPRIETARY

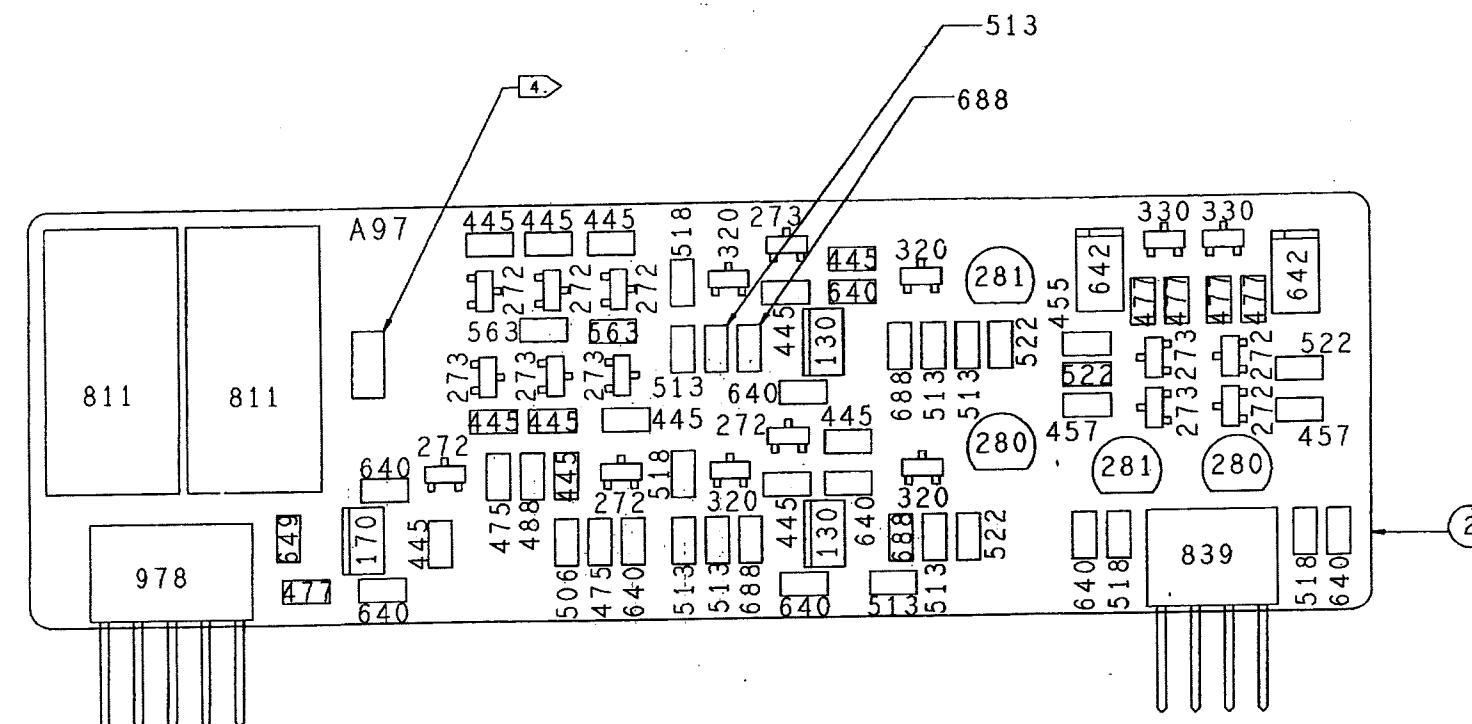
## NOTES :

1. FOR SCHEMATIC DWG SEE 5500A-1097.  
FOR REFERENCE DESIGNATOR SEE 5500A-1697

3. ASSEMBLE PER OSD 111.8.

4. MARK ASSEMBLY REVISION LETTER IN LOCATION SHOWN USING A PERMANENT BLACK FELT MARKER.

SEE SHEET 1 FOR REVISIONS



VIEWED FROM CKT 6 SID



**CAUTION**  
SUBJECT TO DAMAGE BY  
STATIC ELECTRICITY

<b>FLUKE</b>	JOHN FLUKE MFG. CO., INC P.O. BOX 8050 EVERETT, WA 98203	
89536	DO NOT SCALE DRAWING	
<b>PCA, SIP, LOW CURRENT AMPLIFIER, A97</b>		
PART NO.	SIZE	DRAWING NO.
945332	D	5500A-7697
SCALE NONE	SM 2	OF 2
		REV F
<b>PROPRIETARY</b>		<b>0131</b>

PROPRIETARY

		REVISIONS			
		DESCRIPTION	EFF	APPROVAL / DATE	REV. FREQ.
LTR			DRW CNC PROJ. ENGR	W.M. E.C.C. J.E. W.H. L.C.	W.E.F.
-	PROTO.		1-21-94 JUN 3-3-94	J.E. W.H. L.C.	1-21-94 3-6-94
A	RELEASE TO PRE-PILOT		3-3-94	J.E.	3-6-94
B	RELEASE TO PILOT		5-11-94 5-26-94	J.E. W.H. L.C.	5-26-94
C	INCORPORATED ECO 5500A-13 15 AND 36.		9-2-94 10-4-94	J.E. W.H. L.C.	10-4-94
-	RELEASE TO DOC. CONTROL.		10-2-94	J.E. W.H. L.C.	10-2-94
D	53024: SHT 1-ITEM 811 WAS P/N 836486. SHT 2-REVISED NOTE 3. DELETED NOTE 5.		K.P. 7/23/94		LS 8-1-98
E	53789: SHT 1-DELETED ITEMS 450 479. ADDED ITEM 488. ITEM 475 WAS 1. SHT 2-(ZNB5) ITEM 488 WAS 450. ITEM 475 WAS 479.		K.P. 4/30/97		JOB 5-1-97
F	55073: SHT 1-ITEM 518 WAS P/N 746289.		K.P. 4/01/98	J.E. W.H. L.C.	4/01/98

5	477	745992	----	RES,CERM,1K,+-5%,.125W,200PPM,1206	R9,R29,R33,R39,R40
2	475	810630	----	RES,CERM,1.5K,+-1%,.125W,100PPM,1206	R3,R4
2	467	811463	----	RES,CERM,7.5K,+-1%,.125W,100PPM,1206	R42,R44
2	457	772780	----	RES,CERM,150,+-1%,.125W,100PPM,1206	R32,R37
1	455	746511	----	RES,CERM,3K,+-5%,.125W,200PPM,1206	R16
12	445	746297	----	RES,CERM,100,+-5%,.125W,200PPM,1206	R2,R5,R6,R8,R12,R14 R15,R17,R18,R20,R23 R24
2	342	807008	----	ZENER,UNCOMP,3.3V,5%,20mA,0.2W,SOT-23	VR3,VR4
2	330	783704	----	ZENER,UNCOMP,10V,5%,20mA,0.2W,SOT-23	VR1,VR2
4	320	742320	----	DIODE,SI,BV 70V,IO=50mA,DUAL,SOT23	CR1-4
2	281	698233	----	TRANSISTOR,SI,PNP,T092	Q12,019
2	280	698225	----	TRANSISTOR,SI,NPN,SMALL SIGNAL,T0-92	Q17,018
6	273	742684	----	TRANSISTOR,SI,PNP,SMALL SIGNAL,SOT-23	Q2,08-11,013
8	272	742676	----	TRANSISTOR,SI,NPN,SMALL SIGNAL,SOT-23	Q1,03-7,014,015
1	170	929828	----	IC,OP AMP,FET,PREC,LOW PWR,SNGL S,SO8	U1
2	130	806794	----	IC,OP AMP,DUAL,JFET,LOW POWER,SOIC	U2,U3
1	2	945118	5500A-3101	PCB, ENCODER,A2/DDS,A6/0G CPU,A9/A97	MP6

QTY	ITEM	JFPM	DRAWING NO.	DESCRIPTION	REFERENCE DESIGNATOR
1	978	658112	-----	HEADER, 2 ROW, .100CTR, RT ANG, 10 PIN	P1
1	839	424200	-----	HEADER, 2 ROW, .100CTR, RT ANG, 8 PIN	P2
2	811	603001	-----	RELAY, ARMATURE, 2 FORM C, 5VDC, LATCH	K4, K5
4	688	769778	-----	CAP, CER, 180PF, +-10%, 50V, COG, 1206	C4, C5, C7, C8
1	649	740571	-----	CAP, CER, 100PF, +-10%, 50V, COG, 1206	C3
2	642	927814	-----	CAP, TA, 10UF, +-20%, 25V, 6032	C15, C16
9	640	747287	-----	CAP, CER, 0.1UF, +-10%, 25V, X7R, 1206	C1, C2, C6, C9-14
2	563	740597	-----	CAP, CER, 0.22UF, +80-20%, 50V, Y5V, 1206	C17, C18
4	522	811802	-----	RES, CERM, 6.8, +-5%, .125W, 300PPM, 1206	R27, R30, R34, R35
4	518	944897	-----	RES, CERM, 68.1, +-1%, .125W, 100PPM, 1206	R7, R13, R22, R26
6	513	746693	-----	RES, CERM, 51K, +-5%, .125W, 200PPM, 1206	R10, R11, R19, R21, R25 R28, R31, R36
1	506	801415	-----	RES, CERM, 453, +-1%, .125W, 100PPM, 1206	R1
1	488	746529	-----	RES, CERM, 3.3K, +-5%, .125W, 200PPM, 1206	R38



**CAUTION**  
SUBJECT TO DAMAGE BY  
**STATIC ELECTRICITY**

PARTS LIST	
BASIC DATA NO. SUFFIX	DRAWING NO. EASY USER ID
	APPLICATION

**CAUTION**  
SUBJECT TO DAMAGE BY  
**STATIC ELECTRICITY**

<b>BASIC</b>		
DIN. NO.	CHARTING NO.	PART NO.
SUPPLY	FIRST USED ON	
	APPLICATION	

**PROPRIET**  
This document and the funds  
therein, are proprietary to  
and owned by, either compa-  
ny (See Proprietary Co., Inc.)  
or the Society or its partners  
furnished from a competitive  
process by company other than  
the Society. The information herein  
is strictly confidential, and may not  
be implemented without the  
written specifications and  
written agreement of proprie-  
tary company.

**ARY NOTICE**  
The enclosed data has been dis-  
seminated by John Fluke Mfg. Co., Inc.,  
without written permission of  
the author, referred to below,  
as used to establish per-  
formance or used for com-  
parison with John Fluke Mfg. Co.,  
Inc. It has been developed or  
adapted for use for purposes  
and for incorporation into  
other documents which  
are also from John Fluke

**FLUKE**  
**89536**  
**UNLESS O**  
**TOLERANCE**  
~~.XX 2~~  
~~.XXX 2~~  
~~ANGLES 2~~

JOHN FLUKE MFG. CO.  
P.O. BOX 1000  
EVERETT, WA 98201  
  
DO NOT SCALE DRAWING  
PRINT SIZE SPECIFIED  
DIMENSIONS IN  
  
 $x_c$

000 INC  
00  
0208  
  
DRAWING  
\_\_\_\_\_  
IN INCHES  
  
DIM BLR  
CRK  
PROJ EH  
MEG ENG  
FINISH

**NARA CANDIDATE  
JOHN ERNST  
GE WARREN KONG  
ED COLLINS.**

**PCA  
AMP**

, SIP,  
LIFIER,  
NO. 332 SIZE D 5  
SH 1

LOW CUR  
A97  
DRAWING NO.  
500A-76  
OF 2 REV

RENT  
97  
F

PROPRIETARY

8

7

6

5

4

3

2

NOTES: UNLESS OTHERWISE SPECIFIED

11. INSTALL ITEM NO. 838 ON 100V & 120V UNITS ONLY.  
 12. INSTALL ITEM NO. 858 ON 240V UNITS ONLY.  
 13. ASSEMBLE PER WORKMANSHIP QSD 111.1.

LTR	DESCRIPTION	APPROVAL DATE		
		DW	CHK	APPRVD
AA	55629: SHT 1-ADDED ITEM 37. ITEM 961 P/N WAS 881789.	K.P. 8/28/98		DJ 9/3/98
AB	56001: SHT 1-ITEM 988 WAS P/N 945451. NOUN WAS 5500A-2022.	K.P. 12/15/98		DJ 12/18/98
AC	56015: SHT 1-ITEM 967 P/N WAS 407908. ITEM 970 QTY WAS 9. SHT 6 (ZHD7) DELETED ITEM 970, 3X. DELETED F/N 64.	K.P. 12/15/98		DJ 12/18/98
AD	56084: SH 1 DELETED ITEM 20, ADDED ITEMS 1-5.	LJP 1/6/99		WW 1/7/99
100	W1002122: SEE PDM RECORD FOR DESCRIPTION OF REVISION.			
101	W1003160: SEE PDM RECORD FOR DESCRIPTION OF REVISION.			
102	W1005654: SEE PDM RECORD FOR DESCRIPTION OF REVISION.			
103	W1009672: SEE PDM RECORD FOR DESCRIPTION OF REVISION.			
104	W1010156: SEE PDM RECORD FOR DESCRIPTION OF REVISION.			
105	W1011660: SEE PDM RECORD FOR DESCRIPTION OF REVISION.			
106	W1010903: SEE PDM RECORD FOR DESCRIPTION OF REVISION.			
107	W1013847: SEE PDM RECORD FOR DESCRIPTION OF REVISION.			
108	W1016092: SEE PDM RECORD FOR DESCRIPTION OF REVISION.			

LTR	DESCRIPTION	REVISIONS		
		DW	CHK	APPRVD
-	RELEASE TO PRE PILOT	MN	TM	WW EC
5500A	A REV 08 RELEASE TO PILOT RUN	RG	DP	WW EC
B	INCORP ECO'S 5500A-18, 5500A-P20, 5500A-P25, 5500A-P49. ON SHT 1, DELETED ITEM 927. ADDED ITEMS 994. ITEM 858 WAS 851, NOTE 11 WAS 851; ITEM 952 QTY WAS 35 ON SHT 3, MOVED ITEM 937 ON SHT 4, ADDED ITEM 994 AND ITEM 952, 3 PL ON SHT 5, ADDED ITEM 939	10/24/98	TM	WW EC
C	INCORP ECO 5500A-114 RELEASE TO DOCUMENT CONTROL	RG	TGM	WW EC
C1	INCORP DCO 50661 REVISED NOTES 11 & 12	1/16/99	DP	WB EC
D	INCORP DCO 50714 REVISED ITEMS 838, 858 & 939 DELETED ITEMS 897, 898 & 899 INCORP DCO 50785 REVISED ITEM 918	1/16/95	DP	WB EC
E	INCORP DCO 51014 ADDED ITEM 896 & NOTE 13 ADDED ITEM 896 TO SHT 3 ADDED FLAGNOTE 24 TO SHT 2	4/3/95	TGM	DLD ECC
F	INCORP DCO 51042 ADDED ITEMS 895 & 970 REVISED SHTS 4 & 6	4/3/95	TGM	DLD ECC
G	INCORP DCO 51056 ADDED ITEM 894 TO P/L 8 SHTS 3 & 6 ADDED NOTE 62 TO SHT 6	4/3/95	TGM	DLD ECC
H	INCORP DCO 51159 DELETE ITEM 894 (DCO 51056)	4/3/95	TGM	DLD ECC
J	51749: SHT 1-ADDED ITEM 894. REVISED NOTE 13, ADDED NOTE 14.	K.P. 8/3/95		LAH 8/22/95
K	52077: SHT 1-ADDED ITEM 980, QTY OF ITEM 970 WAS 6. SHT 4-ADDED VIEW OF ITEM 980 ZONE B5 & 4, SHT 6-REVISED VIEW ZONE C & D-7, ADDED F/N 64.	WKC 11/7/95		TD 11/10/95
L	52174: SHT 1-ADDED ITEM 979, SHT 3- (ZNB3) ADDED ITEM 979 TO VIEW.	K.P. 1/10/96		TD 1/12/96
M	52524: SHT 1-ADDED ITEM 801 TO P/L. SHT 6 (ZNB3) ADDED ITEM 801 TO VIEW.	K.P. 3/22/96		LAH 3/29/96
N	52559: SHT 1-ADDED ITEM 903 TO P/L.	K.P. 3/22/96		LAH 3/29/96
P	52594: SHT 1-ADDED ITEM 888, ITEM 980 WAS P/N 600665. SHT 4-ADDED DETAILS C & D.	K.P. 5/6/96		TD 5/15/96
R	52649: SHT 1-DELETED ITEM 935 FROM P/L SHT 3-DELETED ITEM 935 FROM VIEW.	K.P. 5/6/96		TD 5/15/96
T	53729: SHT 1-ADDED ITEMS 899, 927, 929, 932, 935, 946, 949, 958, 967 & 999. ITEM 916 QTY WAS 12. ITEM 952 QTY WAS 38. DELETED NOTE 14. SHT 2-UPDATED VIEW PER P/L CHANGES, ADDED SECTION A-A. SHT 5-ADDED ITEM 967 TO VIEW. 53809: SHT 1-ITEM 999 WAS P/N 358341. SHT 2-UPDATED VIEW.	K.P. 7/29/97		TD 7/30/97
U	54331: SHT 1-ITEM 662 WAS P/N 937073, DWG. NO. WAS 5500A-2005. ITEM 663 WAS P/N 937078, DWG. NO. WAS 5500A-2006.	K.P. 9/26/97		TD 9/28/97
V	54367: SHT 1-ITEM 944 WAS P/N 944459. DELETED ITEM 995. 54376: SHT 1-ADDED ITEM 702. SHT 2-ADDED ITEM 702 TO VIEW.	K.P. 10/21/97		TD 10/21/97
W	54836: SHT 1-ITEM 946 WAS P/N 621976, DWG. NO. WAS 5500A-2048. 54862: SHT 1-ITEM 946 REF DES WAS A63MP030.	K.P. 2/18/98		TD 2/19/98
Y	55154: SHT 1-DELETED ITEM 911 FROM P/L. SHT 2-DELETED ITEM 911 FROM VIEW.	K.P. 4/29/98		WW 5/4/98

TABLE I

PN	NOUN	VOLTAGE
945167	5500A	100V
945162	5500A	120V
945170	5500A	240V

PROPRIETARY NOTICE		FCSN NO.
THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO FLUKE CORPORATION. IT MAY NOT BE USED FOR ENGINEERING, DESIGN, PROCUREMENT, OR MANUFACTURE IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF THE FLUKE CORPORATION.		FLUKE CORPORATION P.O. BOX 9890 EVERETT, WA 98206-9890 89536
CALIBRATOR		
DNW CMNERBY 16N94	CHK T. MOREY	APPRVD W. WONG
APPRVD E. COLLINS	SEE TABLE D	SCALE 1/1
SHEET 1 OF 6	REV 108	DWG NO. 5500A