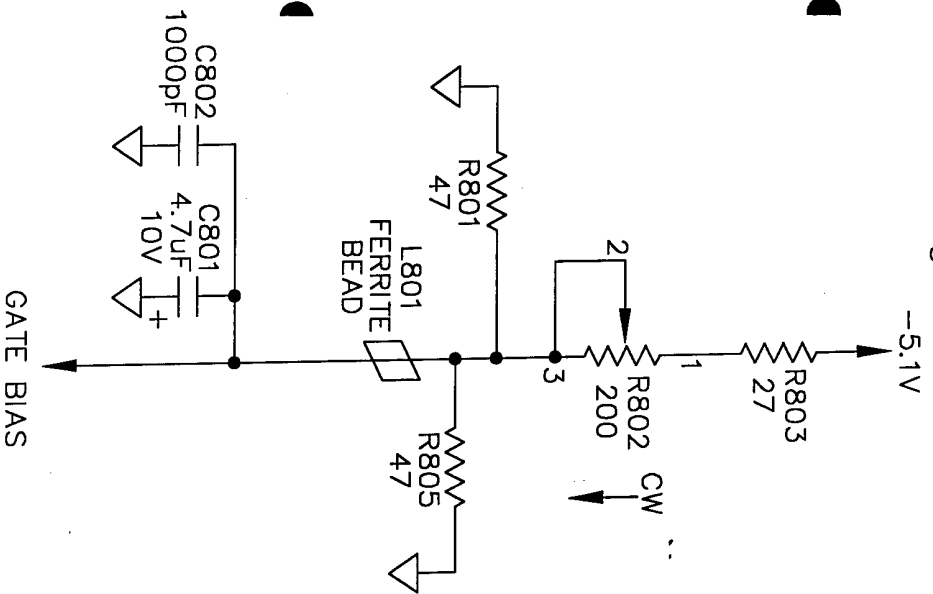
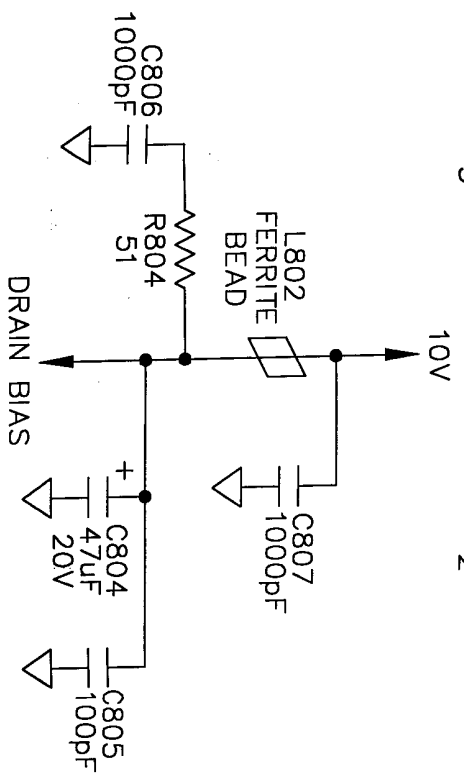




NOTES:

- 1) ALL RESISTORS ARE 1/8W, 5% & IN VALUES OF OHMS UNLESS OTHERWISE NOTED.
- 2) IF 200 OHM POTS ARE NOT AVAILABLE, 100 OHM POTS MAY BE USED. HOWEVER, RESISTOR VALUES MAY HAVE TO CHANGE (SEE NOTE 2).
- 3) TO ACCOUNT FOR VARIATIONS IN THE FLL300 & FLL200, R803 MAY BE RAISED TO INCREASE DRAIN CURRENT (TYP 150 OHM) OR LOWERED TO DECREASE DRAIN CURRENT (TYP 27 OHM).



ITS CORPORATION

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MATERIAL

FINISH

TITLE

SCH,
AMP DAUGHTER BOARD,
LEFT SIDE

ADDED NOTES & pF TO
C802, C805-C807. (GK)

1 8940 4/9/97

REV ECN DATE APV

REV ECN DATE APV

DWG. NO. 1512-3110

1512-3110

REL BKW 4/7/97 A SCALE

SHEET 1 OF 1

APV ECN REV

DWN GK 4/2/97

CHK BKW 4/7/97

REL BKW 4/7/97

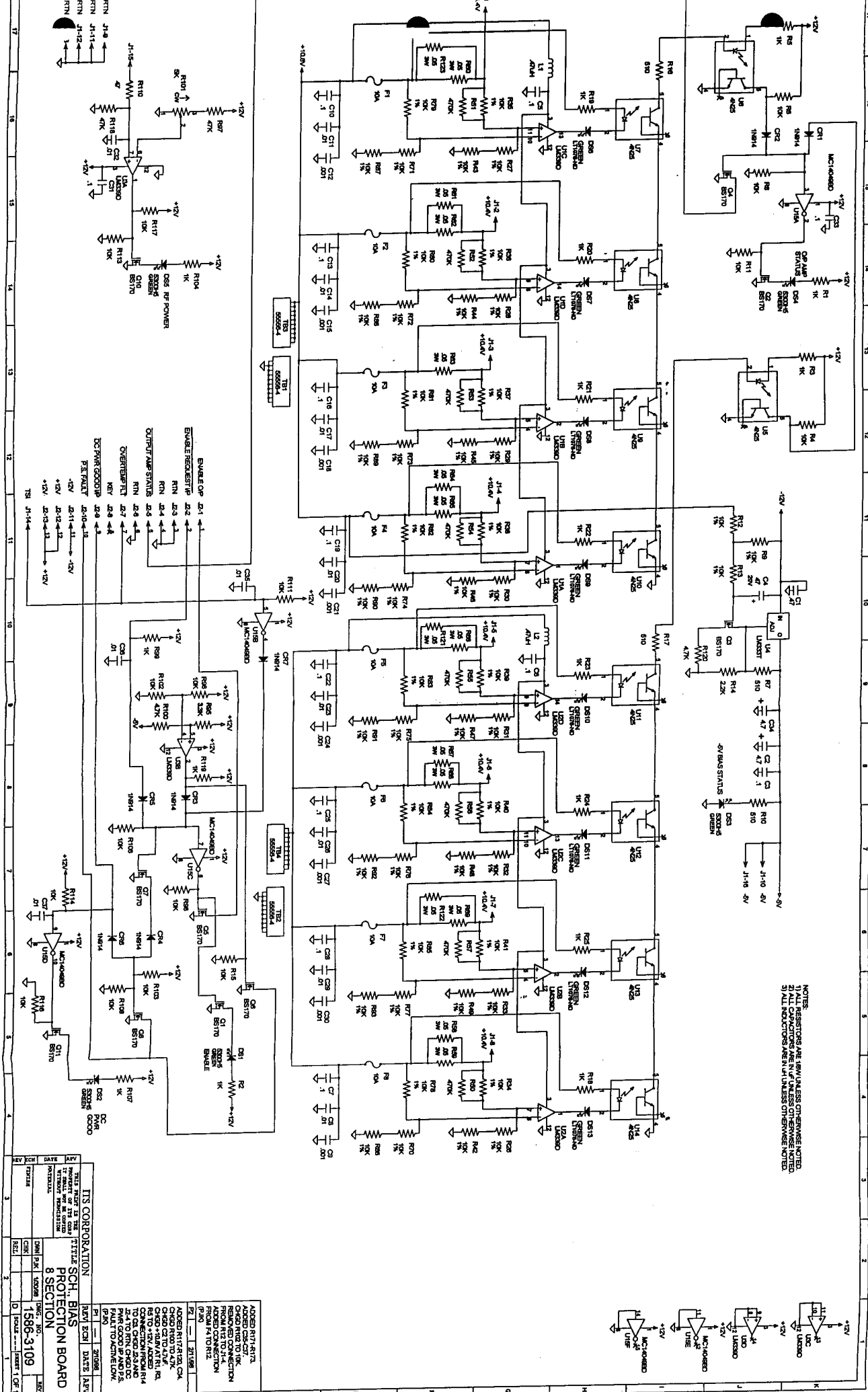
REL BKW 4/7/97

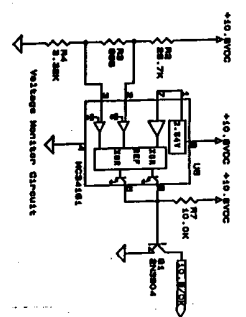
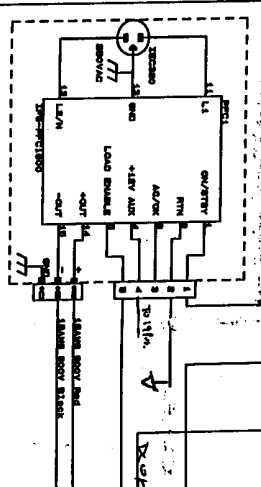
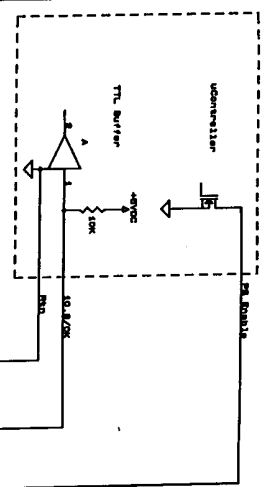
REL BKW 4/7/97

REL BKW 4/7/97

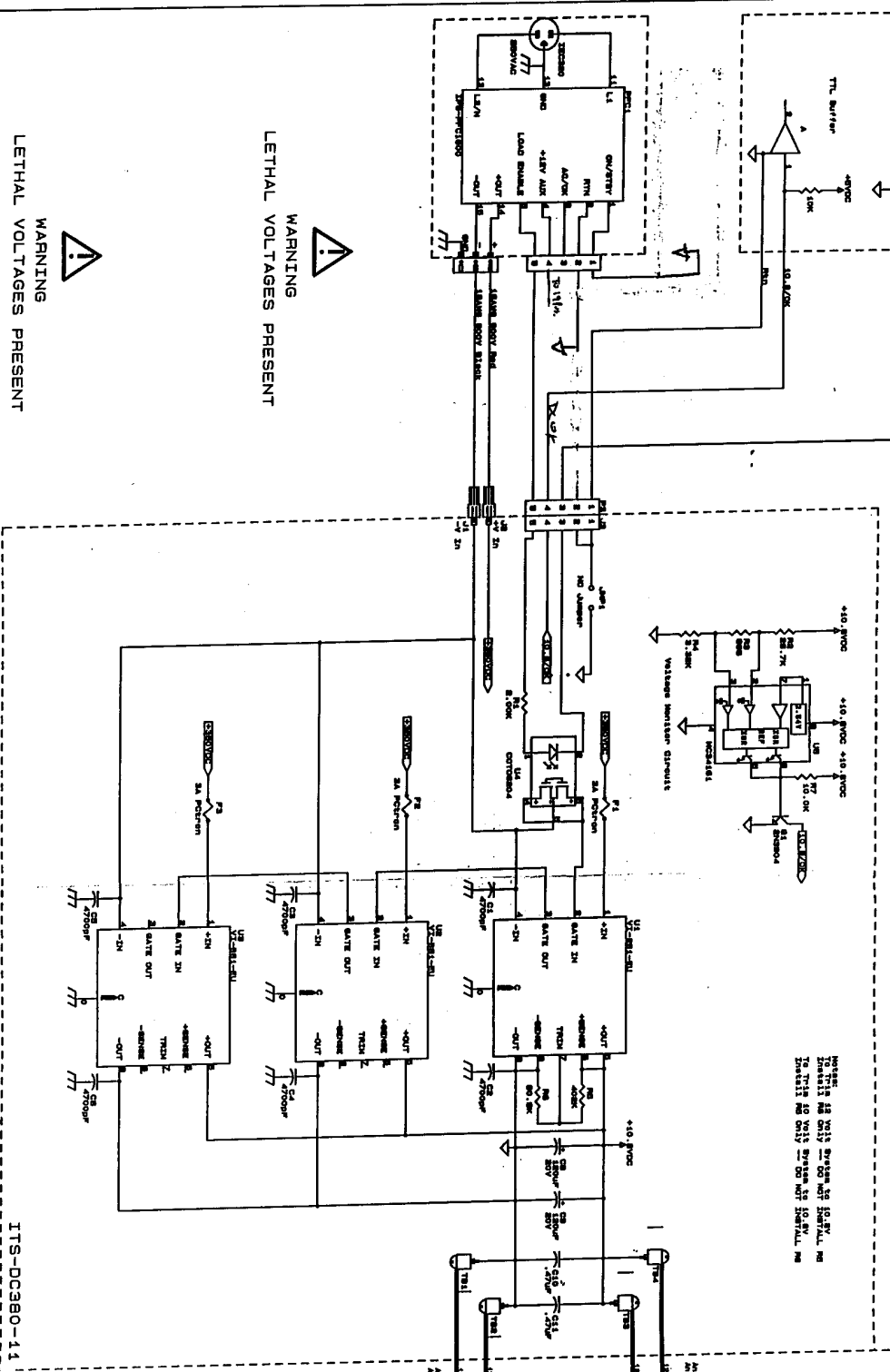
REL BKW 4/7/97

REL BKW 4/7/97





NOTE:
DO NOT
INSTALL IN THIS SYSTEM TO 10.8V
INSTEAD OF ONLY 10.8V
INSTEAD OF ONLY 10.8V
INSTEAD OF ONLY 10.8V



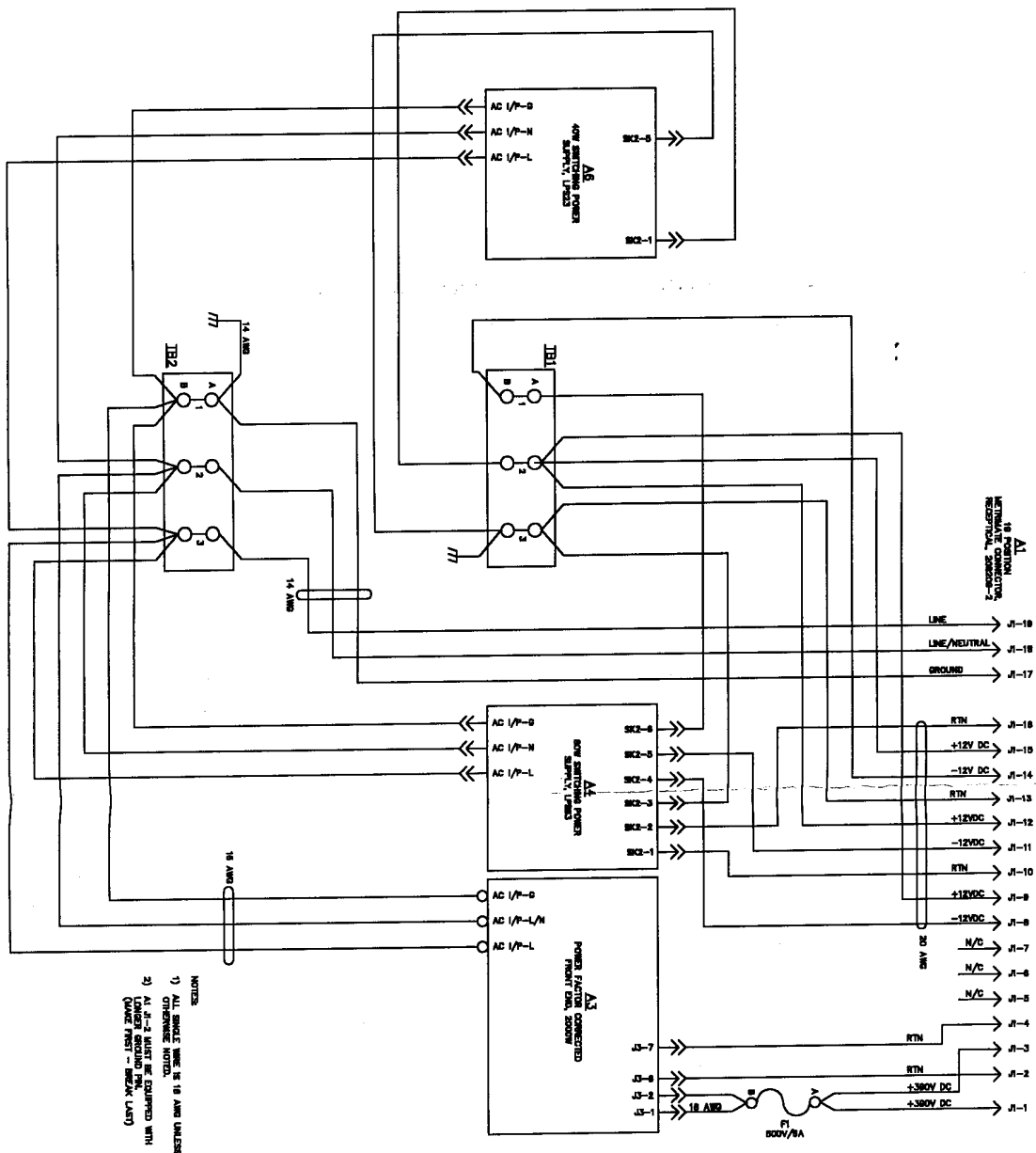
WARNING
LETHAL VOLTAGES PRESENT

WARNING
LETHAL VOLTAGES PRESENT

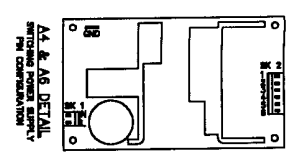
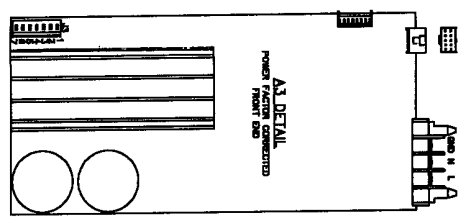
PROTOTYPE

ITS-DC380-14

Integrated Power Solutions Inc.
8800 Commerce Park
Bedford, MA 01832
ITS Power Supply Division
ITS-DC380-14
Rev. 1.0



NOTES
 1) ALL WIRING SHALL BE 16 AWG UNLESS OTHERWISE NOTED.
 2) ALL 2-3 MUST BE EQUIPPED WITH UNDER GROUND P.W. (UNDER FIRST - BREAK LAST)



JTS CORPORATION		REV	DATE	BY
TITLE		1/C		
PFC FRONT END				
MODULE				
REV		1	12/10/81	1586-813610
REV		2	06/21/81	1586-813610
REV		3	06/21/81	1586-813610
REV		4	06/21/81	1586-813610
REV		5	06/21/81	1586-813610
REV		6	06/21/81	1586-813610
REV		7	06/21/81	1586-813610
REV		8	06/21/81	1586-813610
REV		9	06/21/81	1586-813610
REV		10	06/21/81	1586-813610
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REV		40	06/21/81	1586-813610

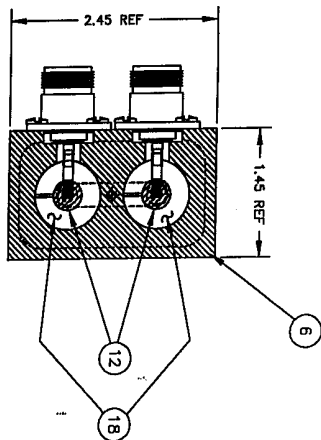
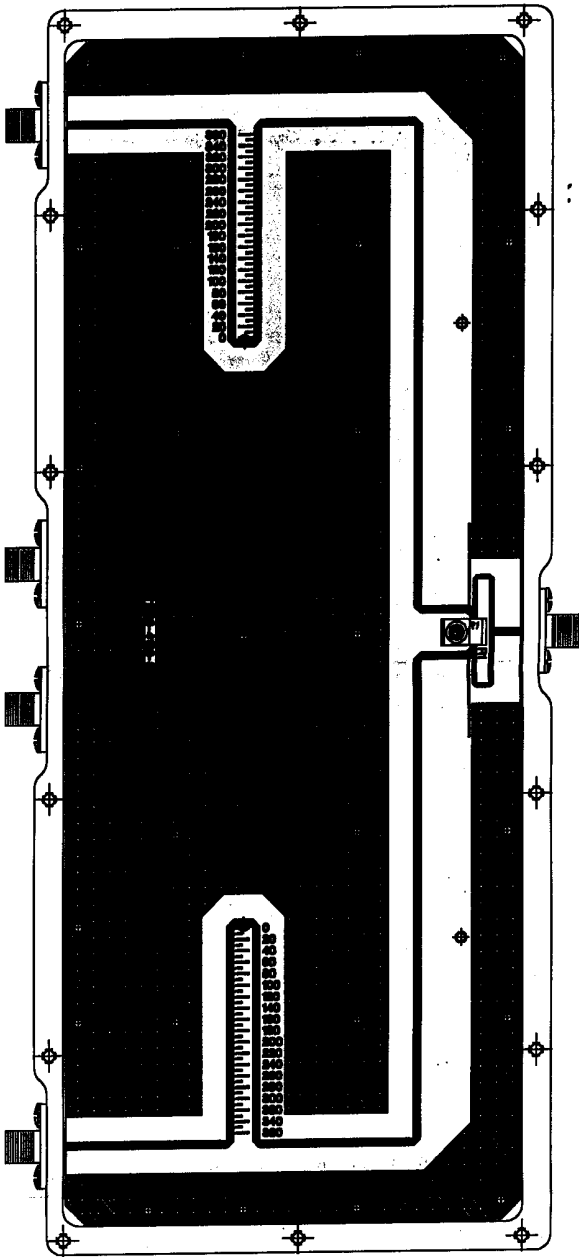


Diagram showing the front view of the instrument with callouts for components 2, 4, 10, 12, 14, 16, 18, 20, and 22. The diagram includes the text "SEE NOTE 2" and "REF" with an arrow pointing to the right.

1. SEPARATE PIN FROM 82-97 CONNECTOR, BEFORE ASSEMBLY. ATTACH PINS TO CENTER CONDUCTORS USING PLIERS. PINS MUST BE FULLY SEATED AND TIGHT. REPLACE 82-97 CONNECTORS OVER PINS, PUSH WITH A CLOCKWISE MOTION. A GAP OF .150" TO .170" MUST BE MAINTAINED FROM END OF PIN TO END OF CONNECTOR.
2. HOUSING (ITEM 6) MUST BE ORIENTED AS SHOWN FOR PROPER ASSEMBLY.

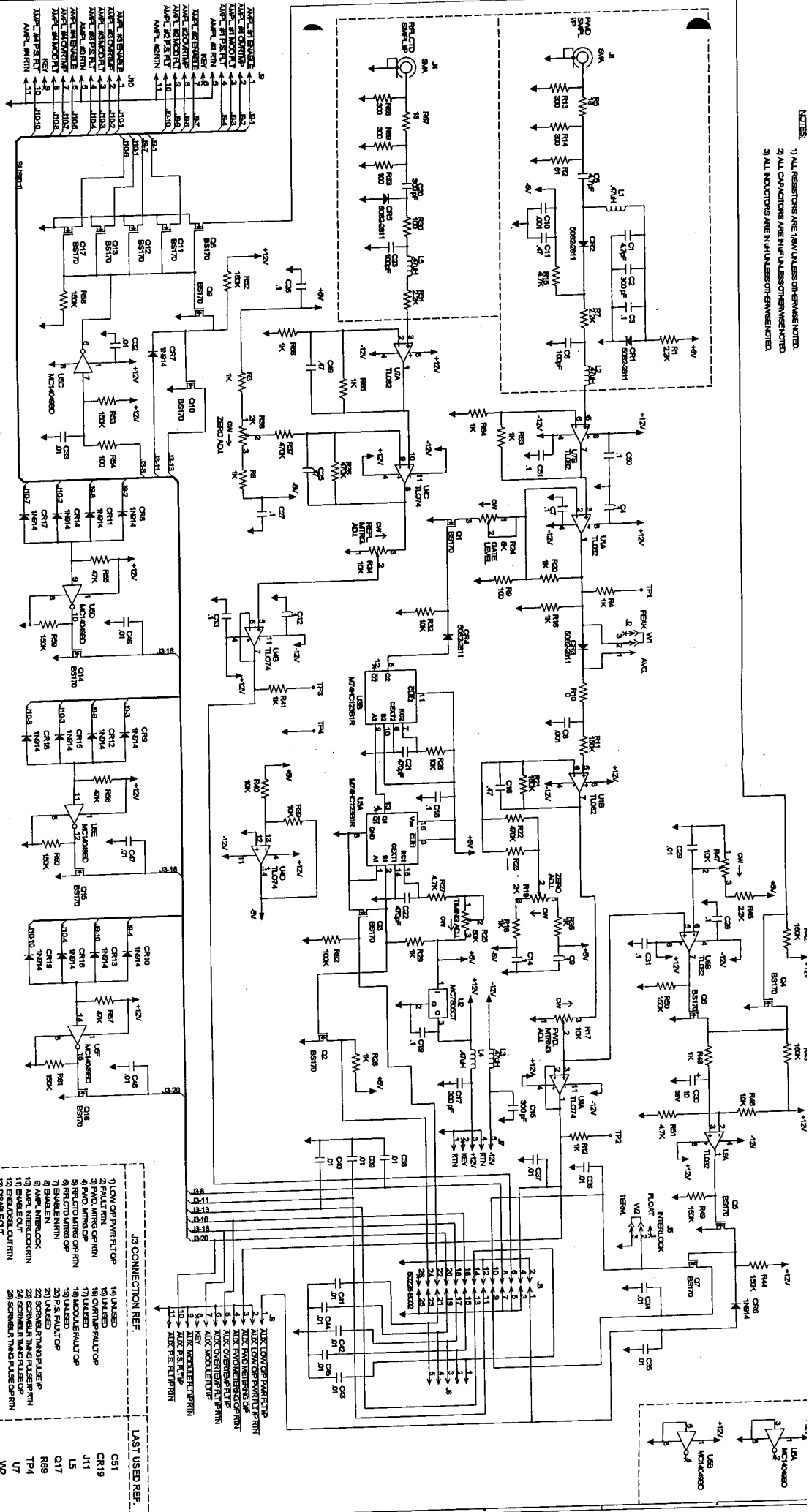
SECTION Y-Y

REV	ECON	DATE	TITLE	REV	ECON	DATE	AVG
ADV			THIS PRINT IS THE PROPERTY OF ITS OWNER. IT MUST BE RETURNED IF WITHOUT PERMISSION.				
			MATERIAL				
			A/D, 2 WAY COMBINER/SPLITTER 2.5-2.7 GHz				
			DRAWN SAK/ZZ/MS				
			CHECK				
			REL				
			DWG NO.				
			2111-5008				
			REV				
			0				
			C SCALE 1=1				
			SHEET 1 OF 1				
			3				



TTS CORPORATION		REV	EDN	DATE	APV
TITLE		A/D, 2 WAY			
SPLITTER		(1586-1134)			
MATERIAL		DIN. NO.			
1586-5134		PO			
DIN. NO.		1586-5134			
REV		1			
DIN. NO.		1586-5134			
REV		1			

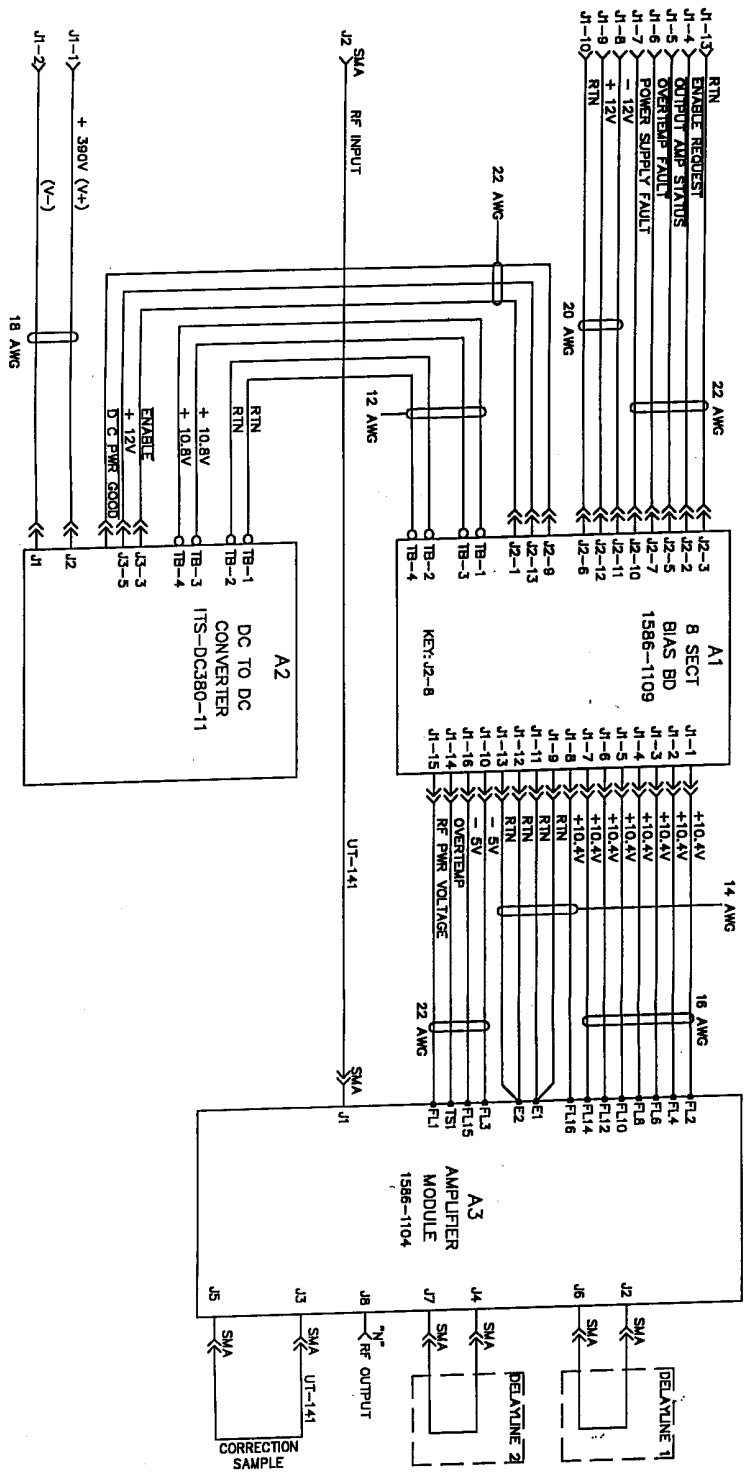
- NOTES:
 1) ALL RESISTORS ARE 1/8W UNLESS OTHERWISE NOTED.
 2) ALL CAPACITORS ARE 50V UNLESS OTHERWISE NOTED.
 3) ALL INDUCTORS ARE 1/2W UNLESS OTHERWISE NOTED.



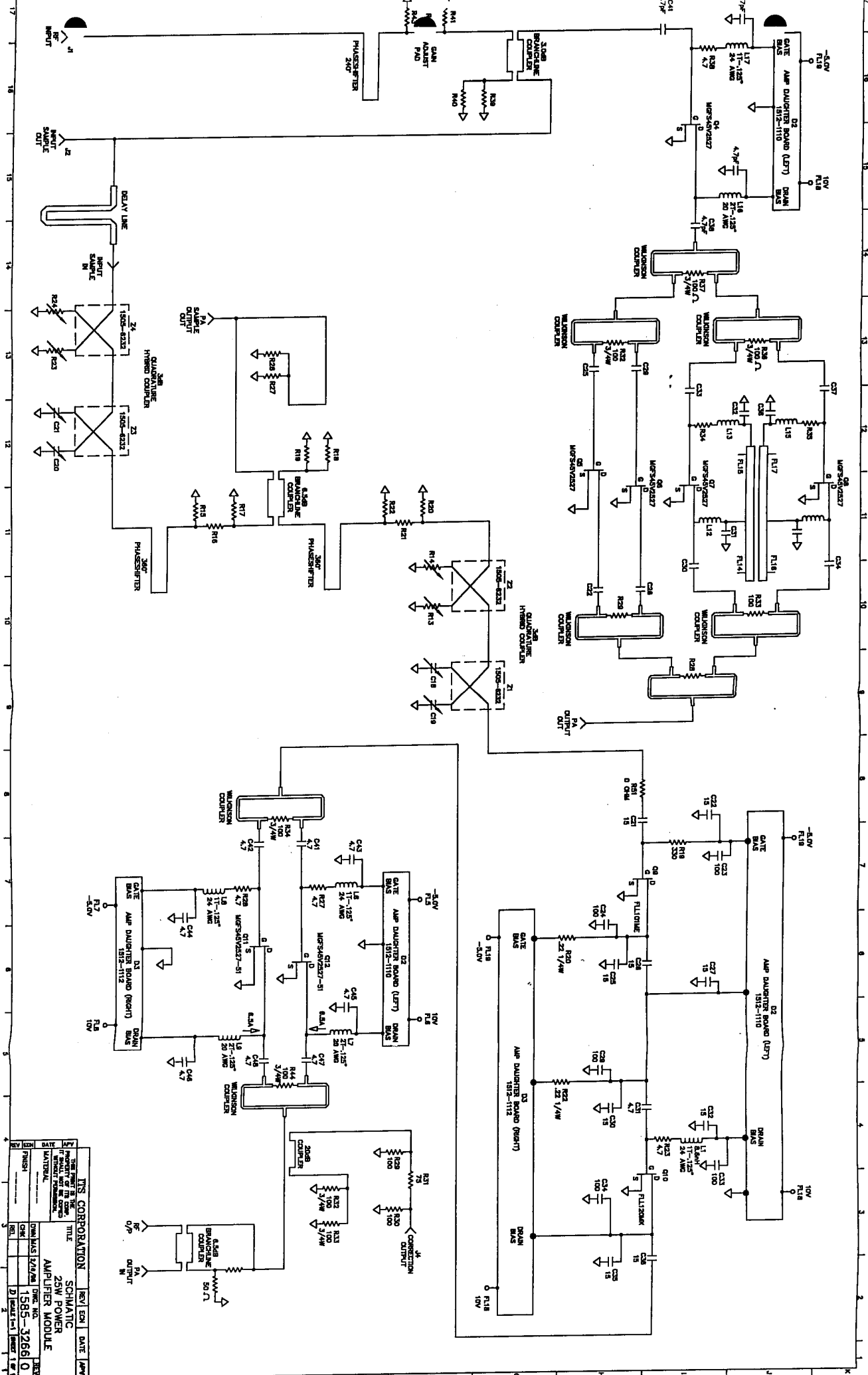
J3 CONNECTION REF.		LAST USED REF.	
1	LOW OF PWR FLT/OP	14	UNUSED
2	FALL/IN	15	UNUSED
3	PWR MING OF PWR IN	16	UNUSED
4	PWR MING OF PWR IN	17	UNUSED
5	PWR MING OF PWR IN	18	UNUSED
6	PWR MING OF PWR IN	19	UNUSED
7	PWR MING OF PWR IN	20	UNUSED
8	PWR MING OF PWR IN	21	UNUSED
9	PWR MING OF PWR IN	22	UNUSED
10	PWR MING OF PWR IN	23	UNUSED
11	PWR MING OF PWR IN	24	UNUSED
12	PWR MING OF PWR IN	25	UNUSED
13	PWR MING OF PWR IN	26	UNUSED
14	PWR MING OF PWR IN	27	UNUSED
15	PWR MING OF PWR IN	28	UNUSED
16	PWR MING OF PWR IN	29	UNUSED
17	PWR MING OF PWR IN	30	UNUSED
18	PWR MING OF PWR IN	31	UNUSED
19	PWR MING OF PWR IN	32	UNUSED
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23	PWR MING OF PWR IN	36	UNUSED
24	PWR MING OF PWR IN	37	UNUSED
25	PWR MING OF PWR IN	38	UNUSED
26	PWR MING OF PWR IN	39	UNUSED
27	PWR MING OF PWR IN	40	UNUSED
28	PWR MING OF PWR IN	41	UNUSED
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85	PWR MING OF PWR IN	98	UNUSED
86	PWR MING OF PWR IN	99	UNUSED
87	PWR MING OF PWR IN	100	UNUSED

REV	ECN	DATE	BY
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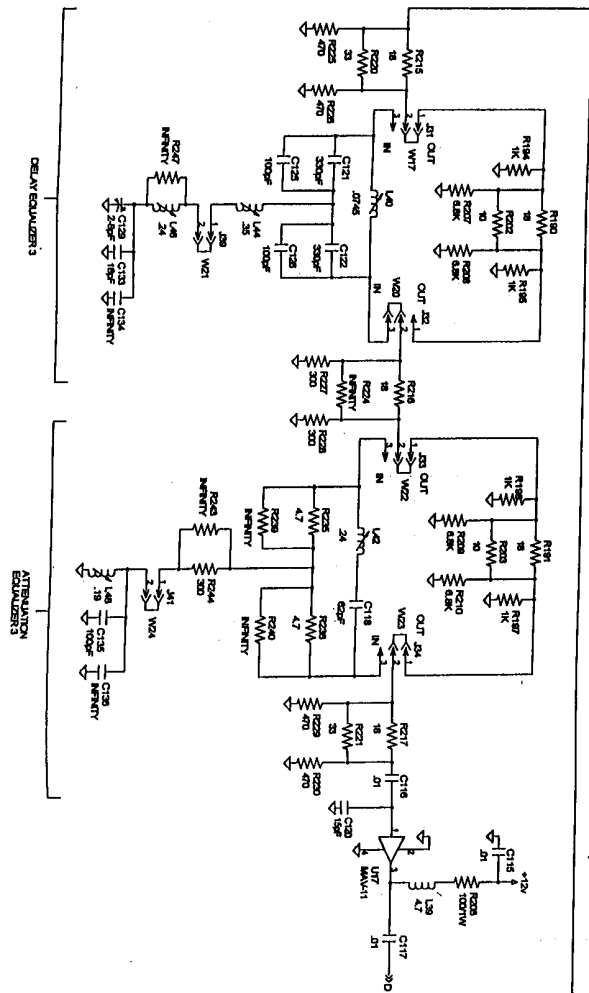
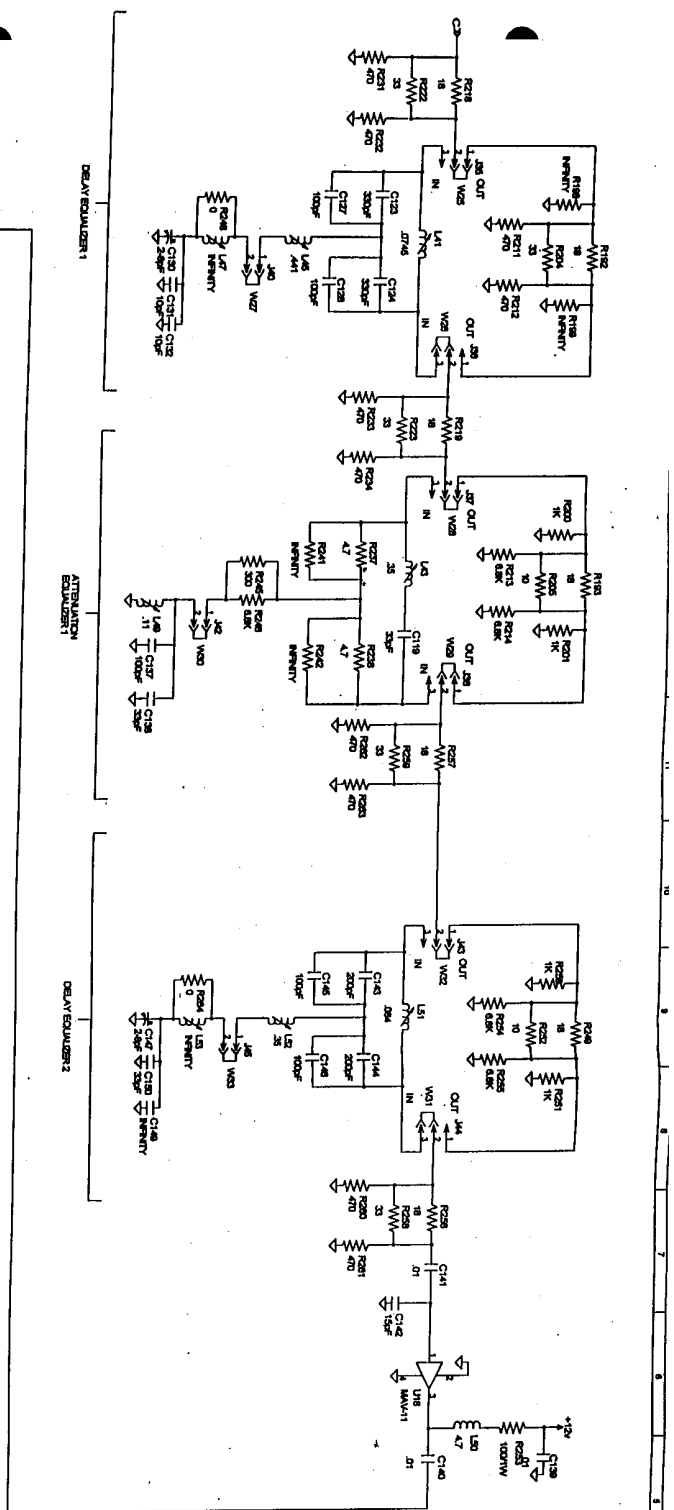
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57	57	1/2/88	1586-3118



REV		ECN	DATE		REV		ECN	DATE		REV		ECN	DATE		REV		ECN	DATE	
THIS DRAWING THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED OR REPRODUCED WITHOUT PERMISSION.																			
MATERIAL																			
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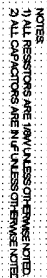
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ITS CORPORATION REV ECH DATE JAN

SCHEMATIC IF PROCESSING CARD

DATE	10/28/87	DATE	10/28/87
BY	1685-3198	BY	1685-3198
CHK		CHK	
REL		REL	

1685-3198 P0

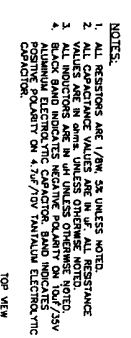


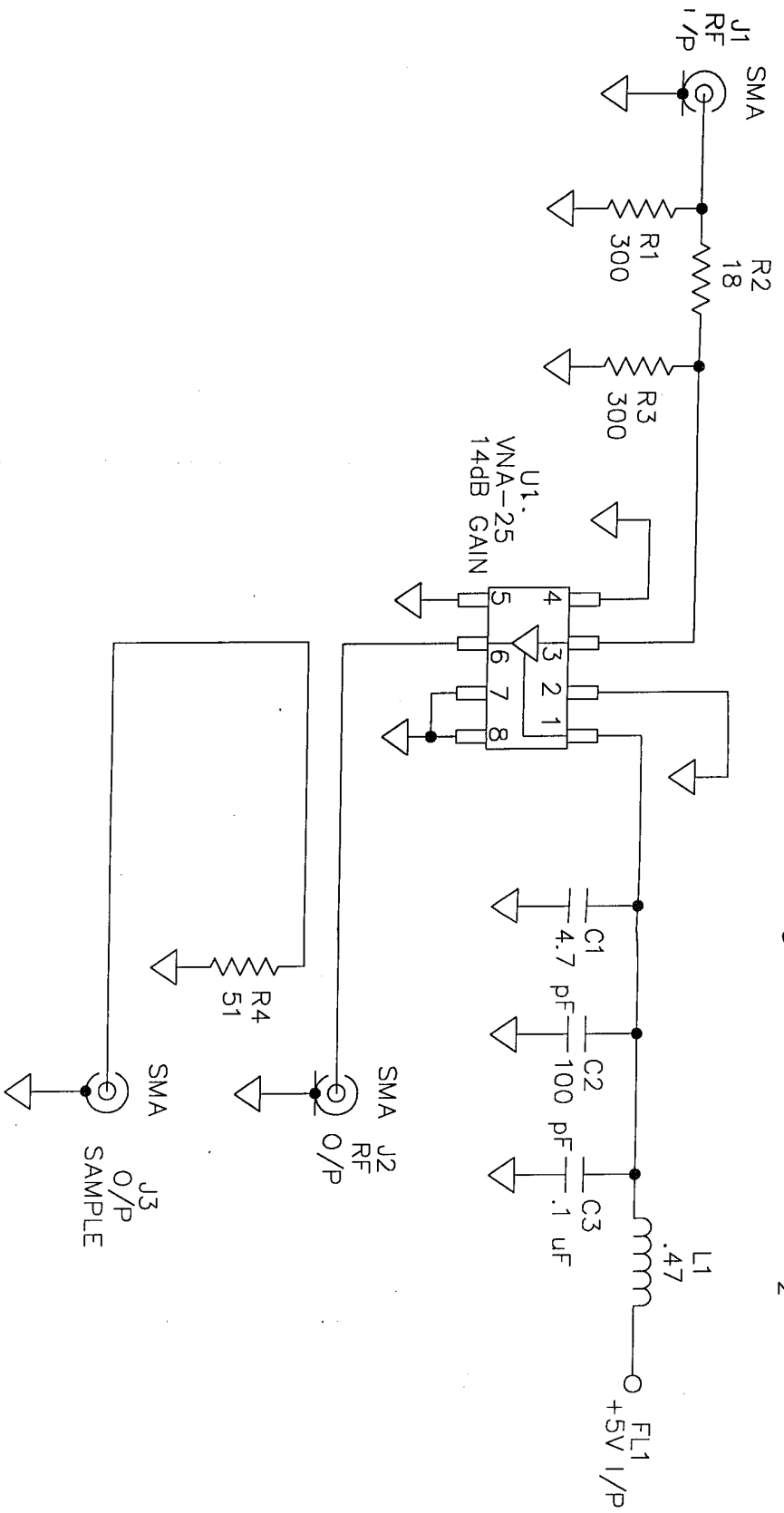
2) ALL CAPACITORS ARE IN UNLESS OTHERWISE NOTED

2) ALL CAPACITORS ARE IN UNLESS OTHERWISE NOTED

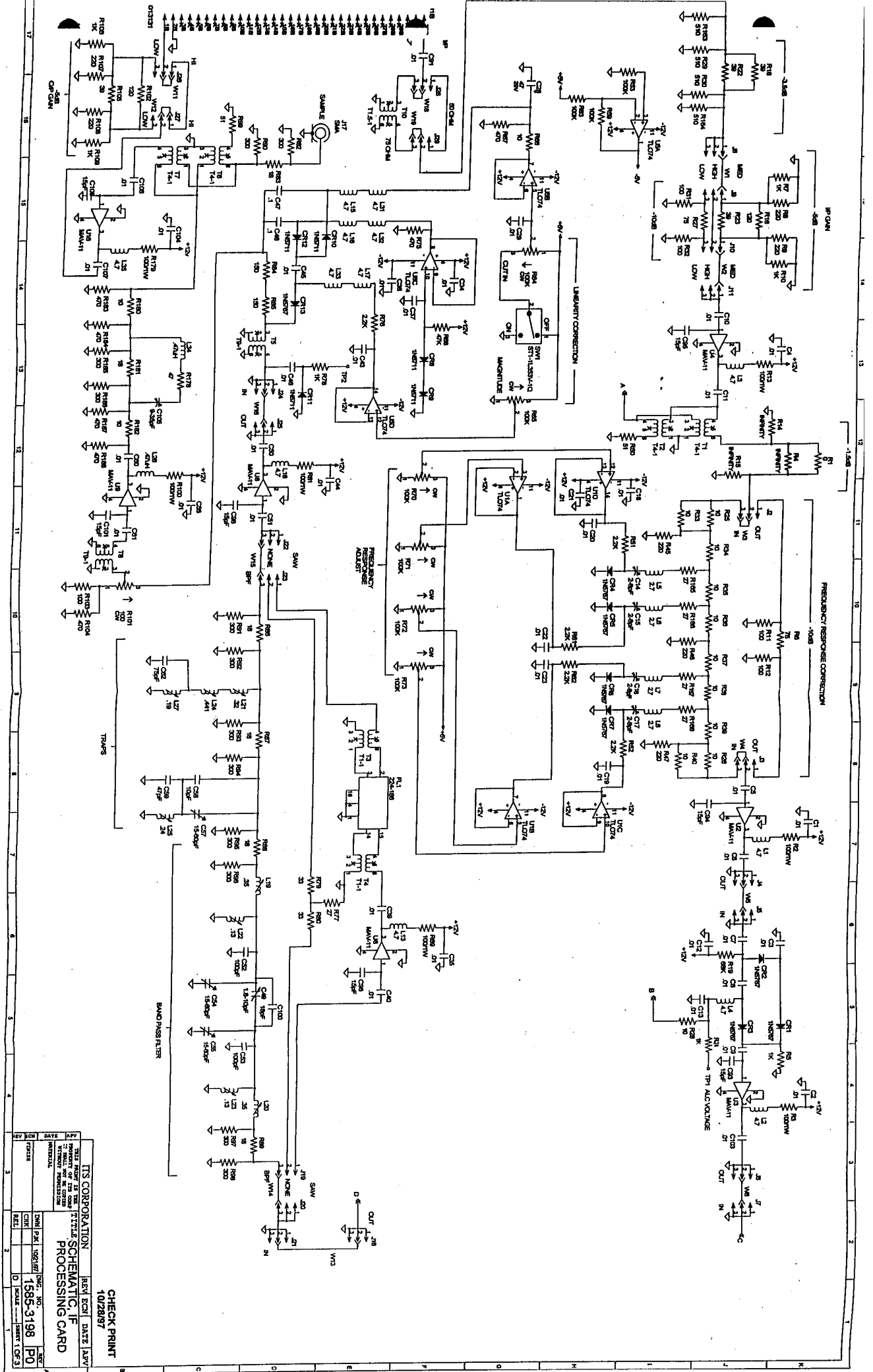
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REV	ECN	DATE	REV	ECN	DATE	REV
1	2	3	4	5	6	7

[illegible]



ITS CORPORATION				REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE			
MATERIAL				SCH.,			
FINISH				SINGLE STAGE AMPLIFIER			
REV	ECN	DATE	APV	DWN	TM Y	DWG. NO.	REV
					7/28/97	1585-3101	0
REL				A		SCALE----	SHEET 1 OF 1

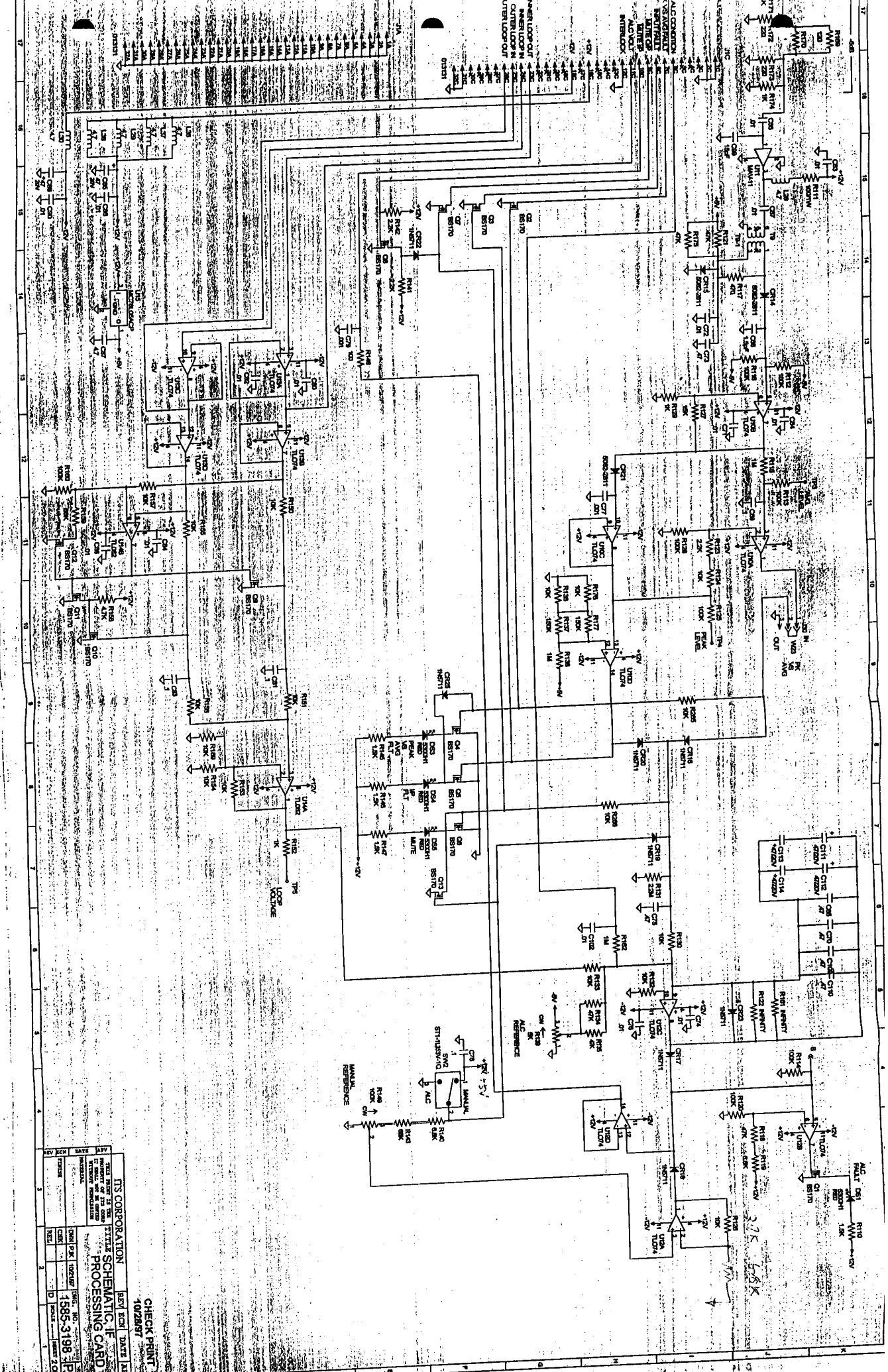


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ITS CORPORATION
REV ECH DATE LAV

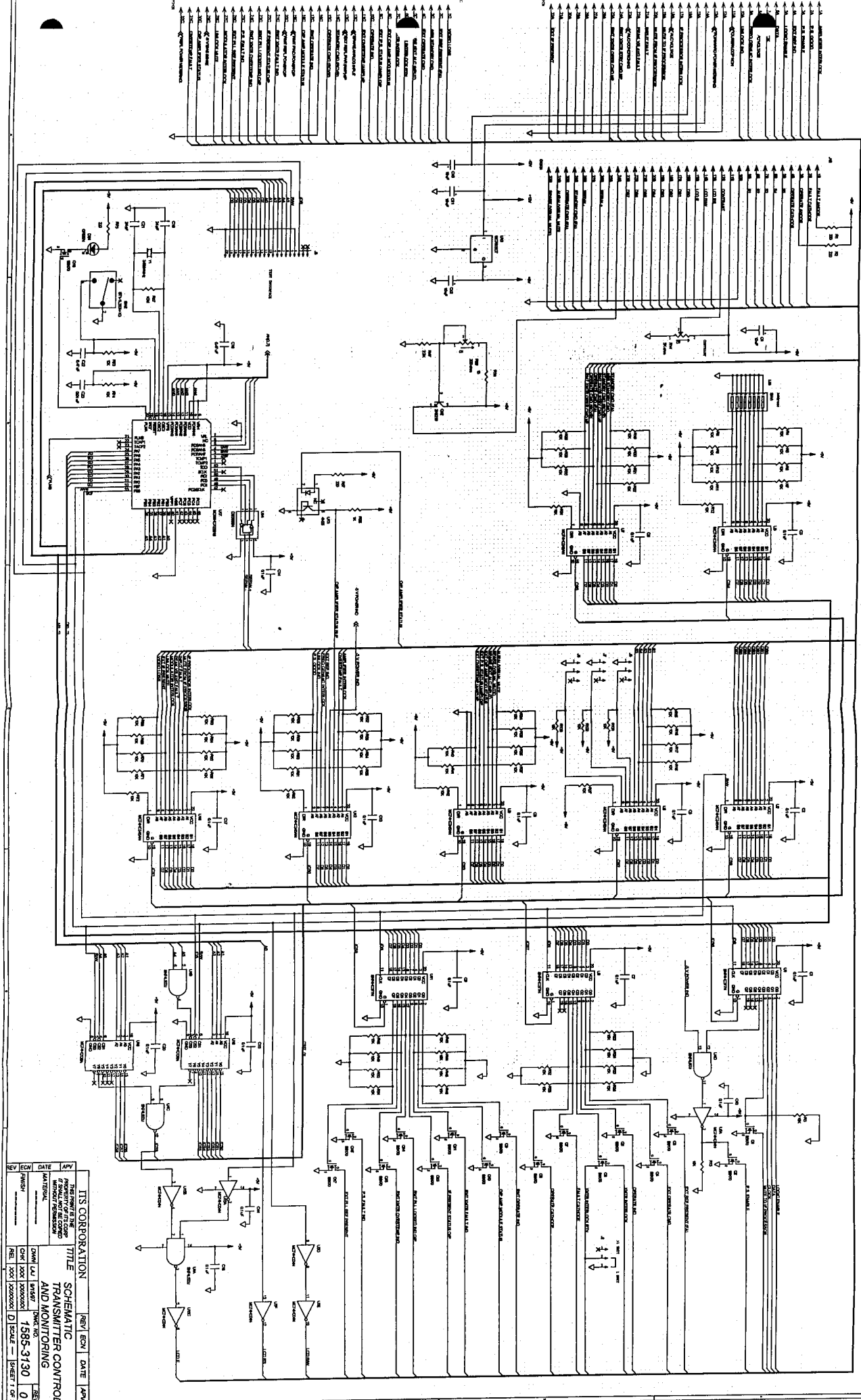
TITLE SCHEMATIC, IF PROCESSING CARD

REV	DATE	BY	CHK	APP
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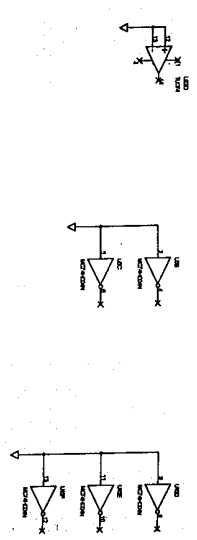


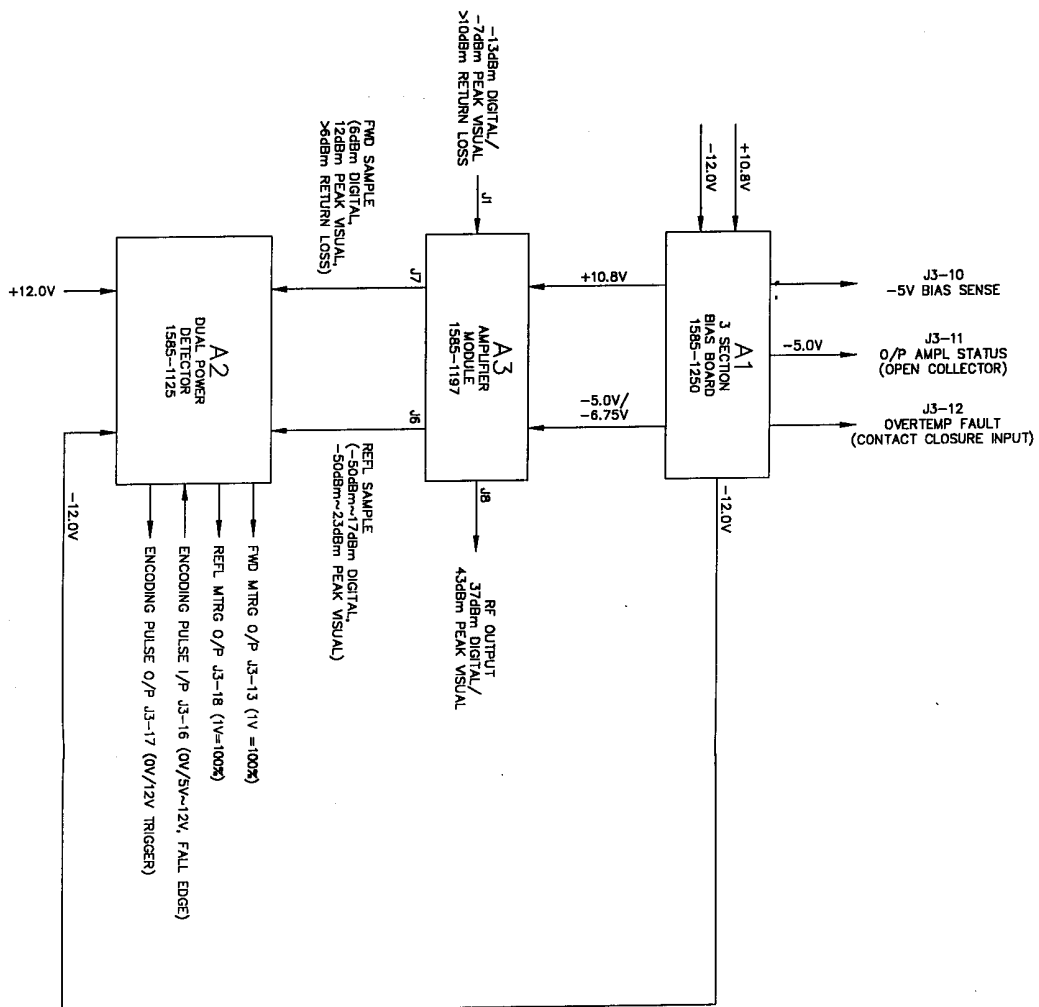
REV		REV	DATE	APP
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THIS PRINT IS THE PROPERTY OF ITS CORP. NO REUSE OR REPRODUCTION WITHOUT PERMISSION				
TITLE SCHEMATIC, IF PROCESSING CARD				
1585-3198-1P0	1585-3198-1P0	1585-3198-1P0	1585-3198-1P0	1585-3198-1P0
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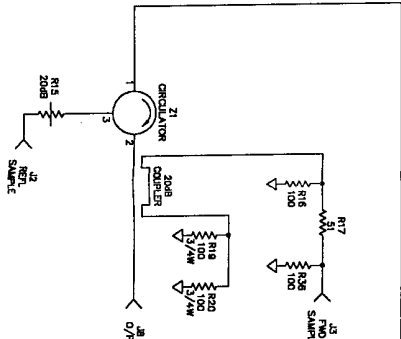
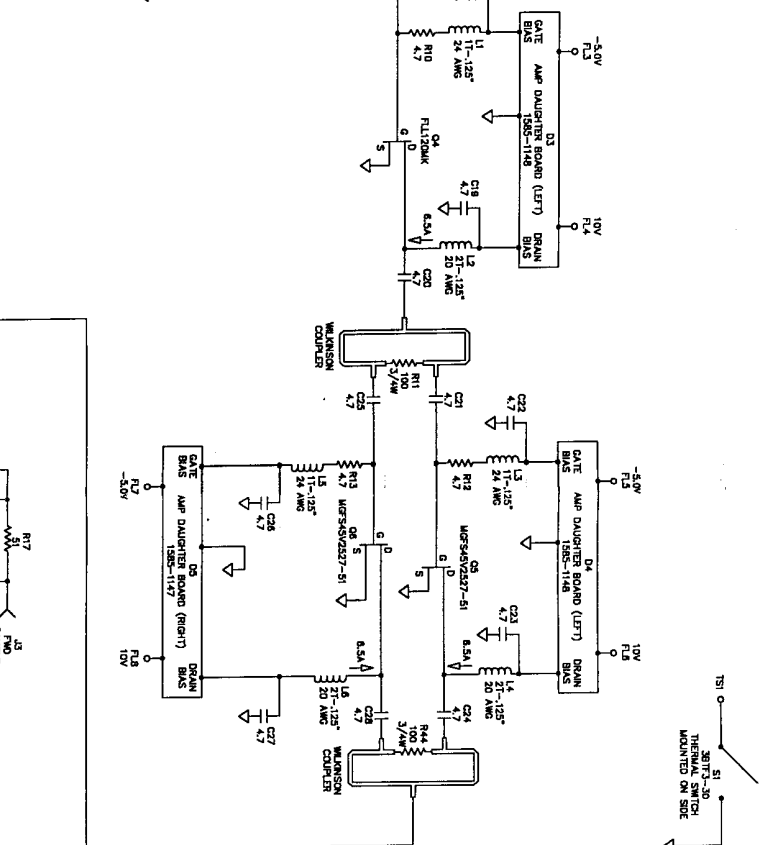


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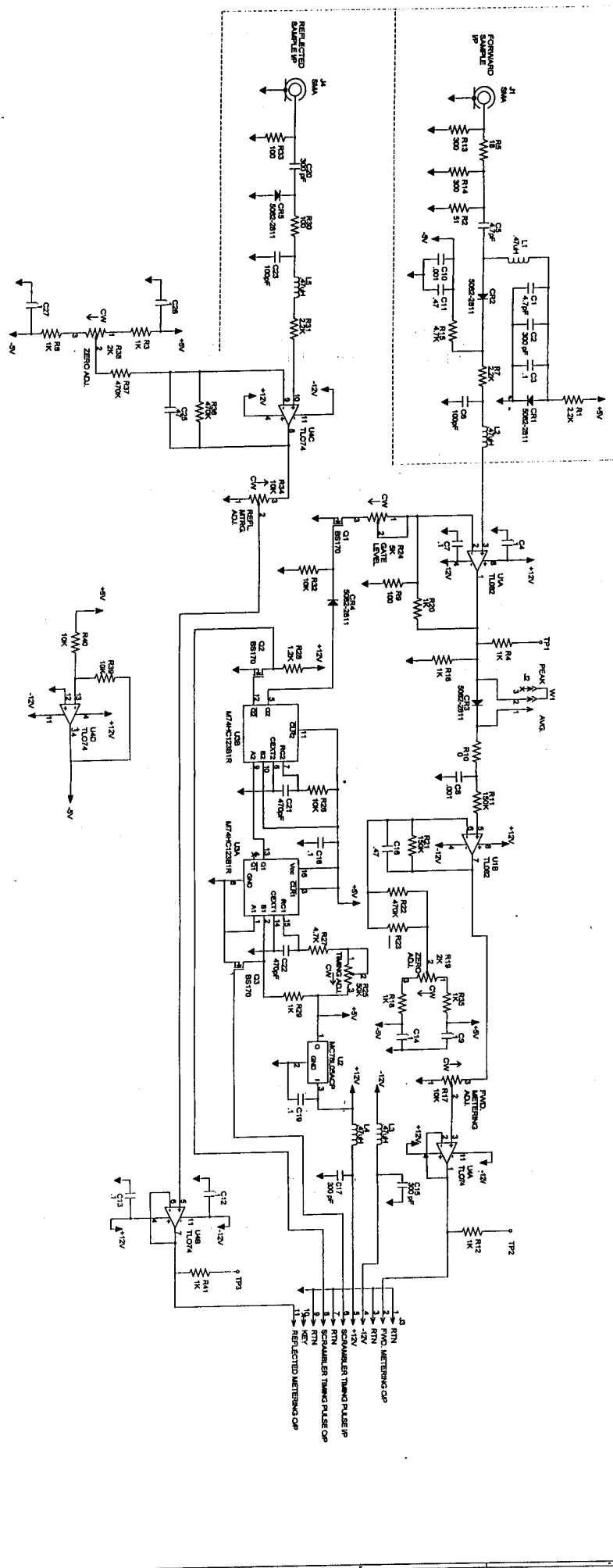
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REV	ECN	DATE	APV
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REL			
TITLE			
B/D, AMPL ASSY, 40W PEP, 2.50-2.70 GHz (1585-1239)			
DWG NO.	1585-3239	REV	0
DATE	12/09/87	DATE	
SCALE	1=1	SHEET	1 OF 1

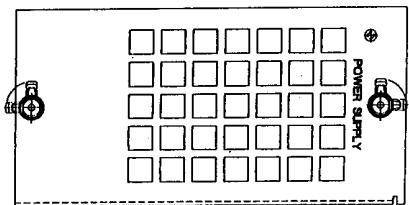
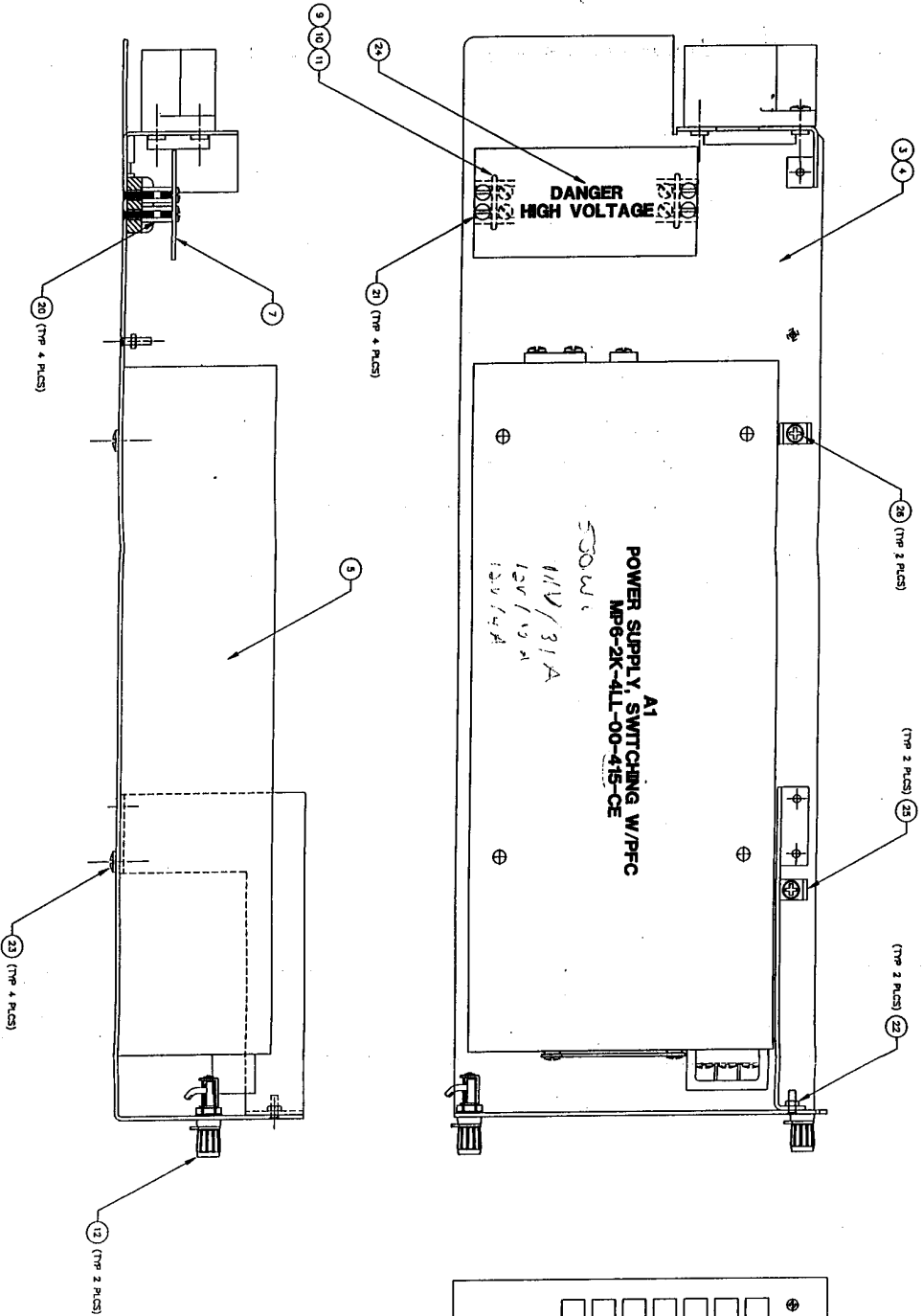
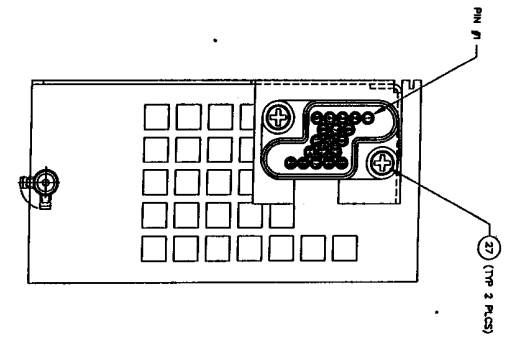


REV	ECN	DATE	APP	THIS DRAWING IS THE PROPERTY OF THE COMPANY. IT SHALL NOT BE COPIED OR REPRODUCED WITHOUT PERMISSION.
REV	ECN	DATE	APP	
TITLE				
SCH. 40W PEP				
AMPLIFIER BD.				
(2.5-2.7 GHz)				
DRAWN BY: 11/4/87 DWG. NO.				
CHK				
REL				
REV				
D SCALE: 1" = 1"				

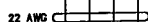


NOTES:
 1) ALL RESISTORS ARE 1/4W UNLESS OTHERWISE NOTED.
 2) ALL CAPACITORS ARE 50V UNLESS OTHERWISE NOTED.
 3) ALL INDICATORS ARE IN UNLESS OTHERWISE NOTED.

ITS CORPORATION		REV	ECN	DATE	REV
TITLE		SCH. DUAL			
POWER DETECTOR BD.		(1585-1125)			
DRAWN BY		GRIFFIN, DMC. NO.			
CHKD BY		BROWN, GRIFFIN			
REL. BY		GRIFFIN, DMC.			
1585-3125		1			

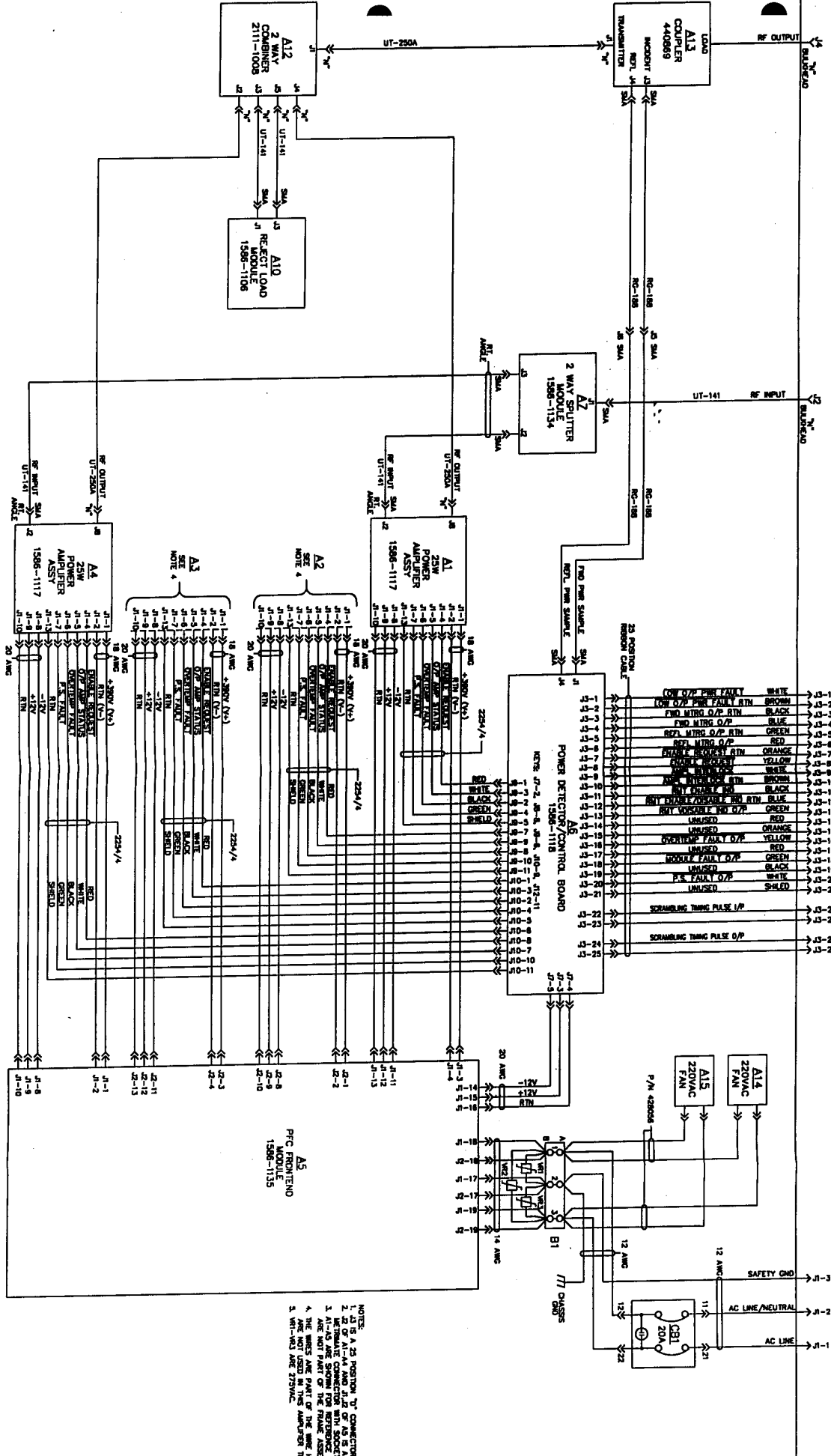


ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED										THIS DRAWING IS THE PROPERTY OF ITS CORPORATION AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING.									
TOLERANCES UNLESS OTHERWISE NOTED:										DIMENSIONS ARE TO BE TAKEN FROM THE UNFINISHED SURFACE UNLESS OTHERWISE SPECIFIED.									
FRACTIONS: 1/16, 1/8, 1/4, 1/2, 3/4, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 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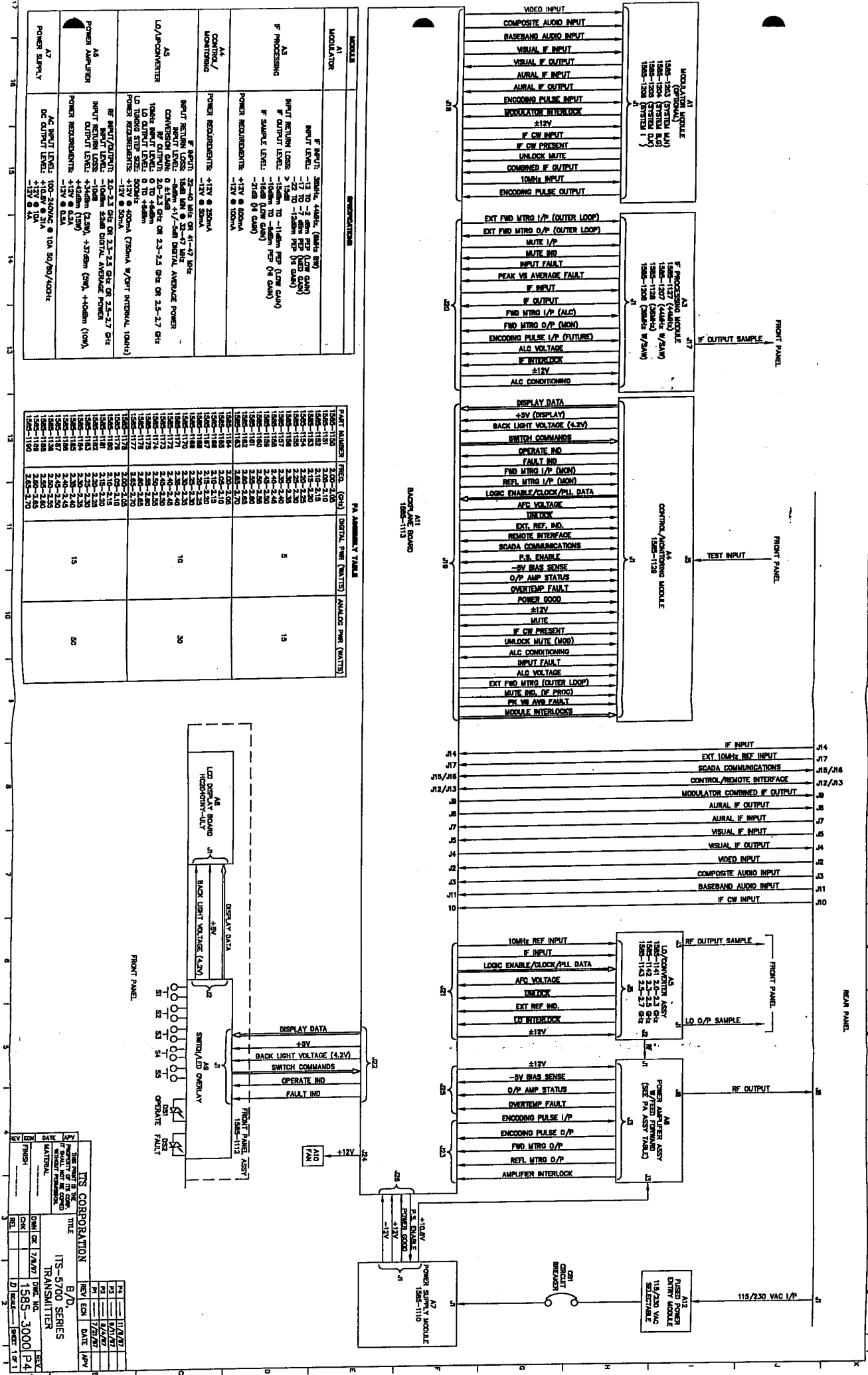
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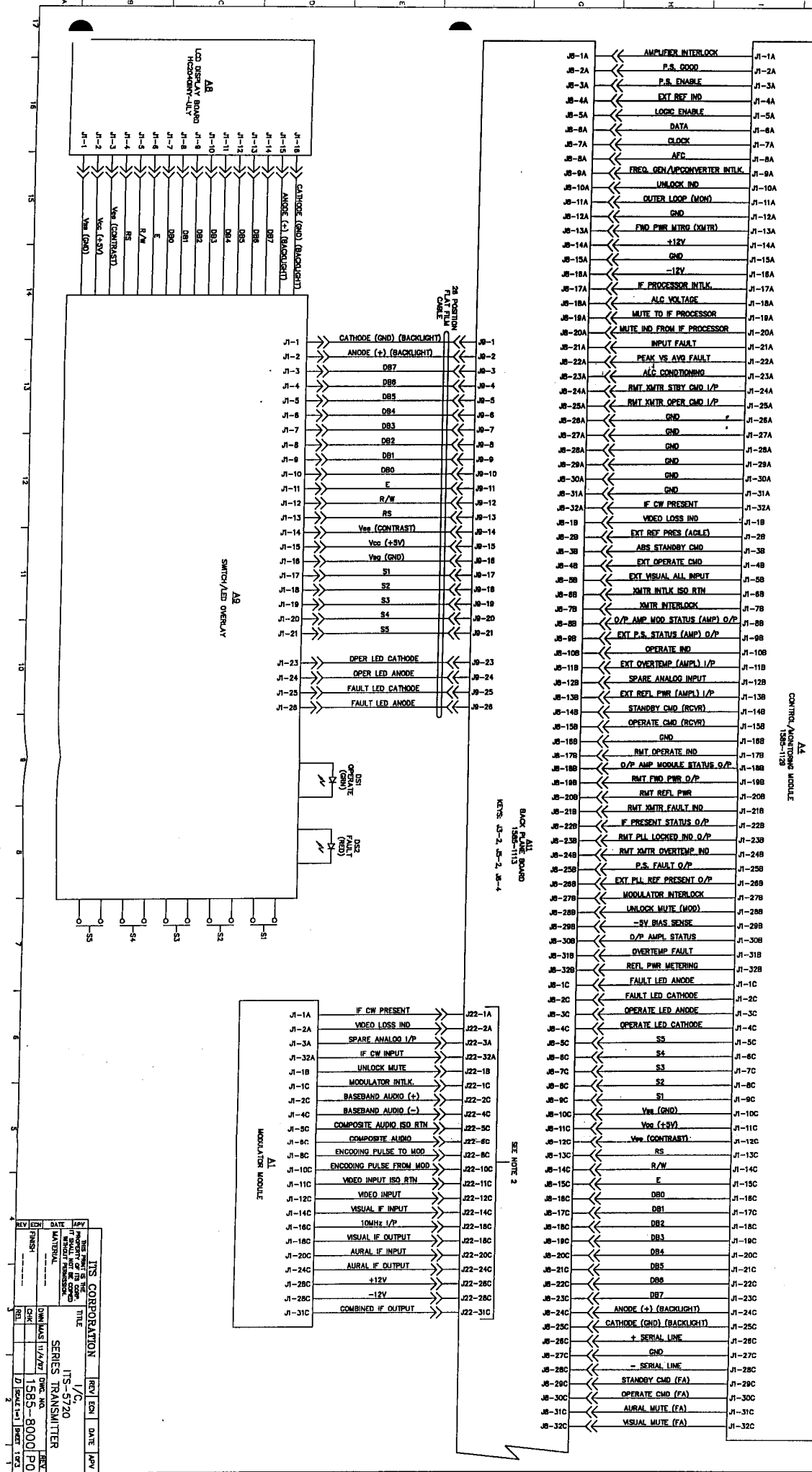


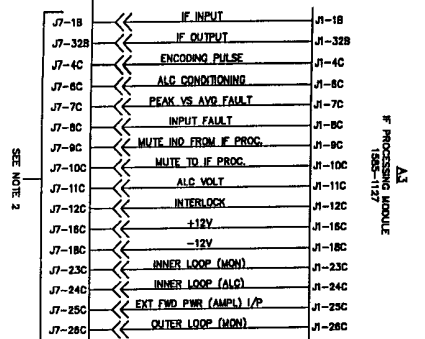
ITS CORPORATION		REV	EDN	DATE	APV
1. INITIAL ISSUE		1		11/5-5766	
2. REVISION		2		50W AMPLIFIER TRAY	
3. REVISION		3		(1586-1001)	
4. REVISION		4		1386-8001	
5. REVISION		5		1386-8001	
6. REVISION		6		1386-8001	
7. REVISION		7		1386-8001	
8. REVISION		8		1386-8001	
9. REVISION		9		1386-8001	
10. REVISION		10		1386-8001	
11. REVISION		11		1386-8001	
12. REVISION		12		1386-8001	
13. REVISION		13		1386-8001	
14. REVISION		14		1386-8001	
15. REVISION		15		1386-8001	
16. REVISION		16		1386-8001	
17. REVISION		17		1386-8001	
18. REVISION		18		1386-8001	
19. REVISION		19		1386-8001	
20. REVISION		20		1386-8001	
21. REVISION		21		1386-8001	
22. REVISION		22		1386-8001	
23. REVISION		23		1386-8001	
24. REVISION		24		1386-8001	
25. REVISION		25		1386-8001	

NOTES:
 1. A 25 POSITION "D" CONNECTOR WITH PINS 1-25 IS REQUIRED FOR THE REMOTE CABLE.
 2. A 25 POSITION "D" CONNECTOR WITH PINS 1-25 IS REQUIRED FOR THE REMOTE CABLE.
 3. A 25 POSITION "D" CONNECTOR WITH PINS 1-25 IS REQUIRED FOR THE REMOTE CABLE.
 4. THE WIRE IS PART OF THE WIRE HARNESS BUT IS NOT USED IN THIS AMPLIFIER TRAY.
 5. WIRE-103 ARE 270VAC.



REV	DATE	DESCRIPTION
1	11/8/87	INITIAL
2	11/8/87	REVISION
3	11/8/87	REVISION
4	11/8/87	REVISION
5	11/8/87	REVISION
6	11/8/87	REVISION
7	11/8/87	REVISION
8	11/8/87	REVISION
9	11/8/87	REVISION
10	11/8/87	REVISION
11	11/8/87	REVISION
12	11/8/87	REVISION
13	11/8/87	REVISION
14	11/8/87	REVISION
15	11/8/87	REVISION
16	11/8/87	REVISION
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100	11/8/87	REVISION



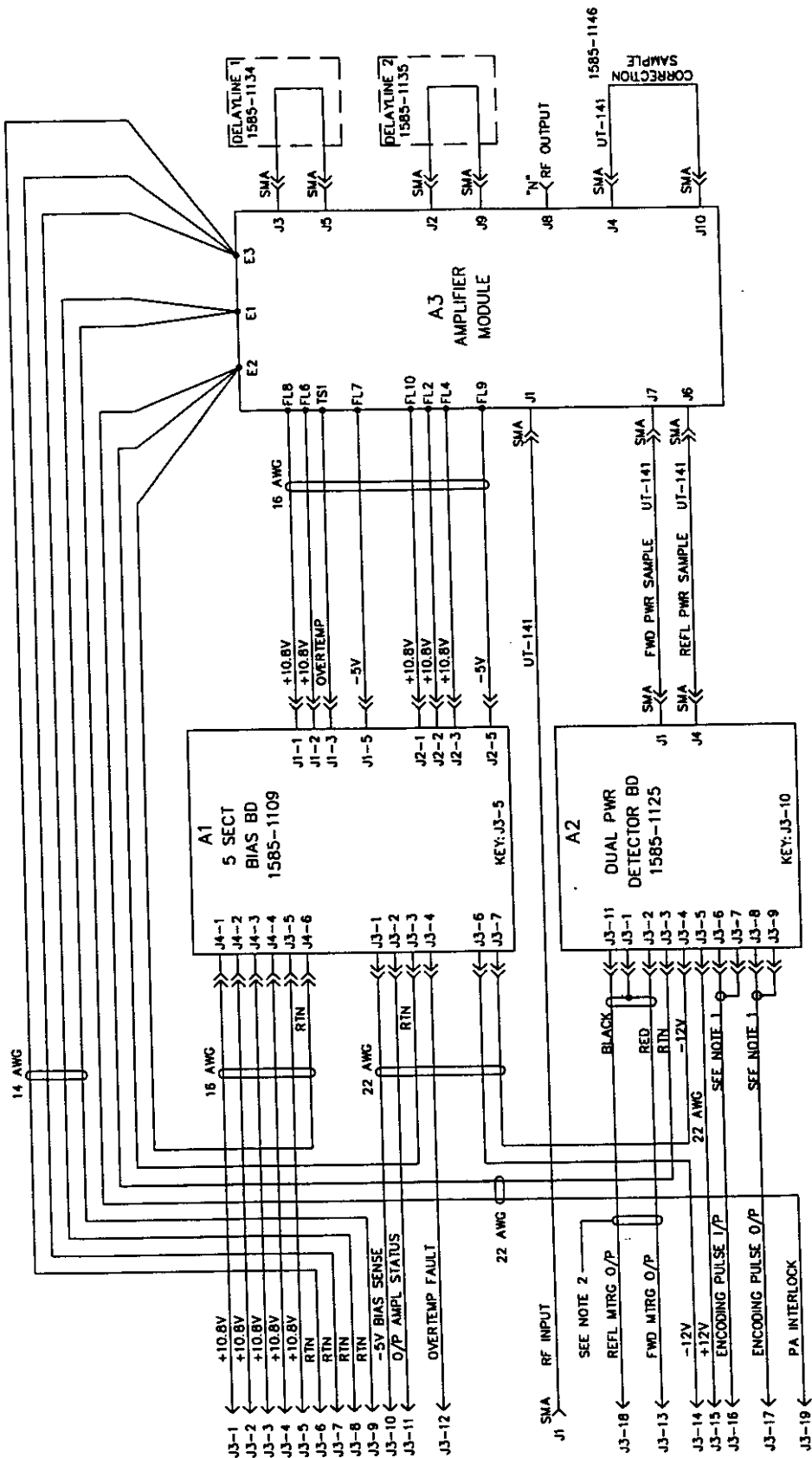


IF PROCESSING MODULE
1585-117

J12-1	STBY CMD (FA)
J12-2	GND
J12-3	DEPR CMD (FA)
J12-4	GND
J12-5	AURAL/VISUAL MUTE (FA)
J12-6	VISUAL MUTE (FA)
J12-7	NOT USED
J12-8	GND
J12-9	EXT REF PRESENT (FA)
J12-10	GND
J12-11	ARS STANDBY CMD
J12-12	GND
J12-13	EXT OPERATE CMD
J12-14	GND
J12-15	EXT VISUAL ALC INPUT
J12-16	GND
J12-17	ENCODING PULSE I/P
J12-18	XMTR INTLK ISOLATED RTN
J12-19	XMTR INTERLOCK
J12-20	GND
J12-21	SPARE ANALOG INPUT
J12-22	GND
J12-23	NOT USED
J12-24	O/P AMP MOD STATUS (AMPL) O/P
J12-25	GND
J12-26	EXT P.S. STATUS (AMPL) O/P
J12-27	STANDBY CMD (RCVR)
J12-28	GND
J12-29	OPERATE CMD (RCVR)
J12-30	GND
J12-31	OPERATE IND
J12-32	GND
J12-33	EXT OVERTEMP (AMPL) I/P
J12-34	GND
J12-35	EXT FWD PWR (AMPL) I/P
J12-36	GND
J12-37	EXT REFL PWR (AMPL) I/P
J10-1	NO CONNECTION
J10-2	GND
J10-3	GND
J10-4	+ SERIAL LINE
J10-5	- SERIAL LINE
J10-6	GND
J10-7	GND
J10-8	NO CONNECTION
J11-1	NO CONNECTION
J11-2	GND
J11-3	GND
J11-4	+ SERIAL LINE
J11-5	- SERIAL LINE
J11-6	GND
J11-7	GND
J11-8	NO CONNECTION
J13-1	RMT XMTR OPER CMD I/P
J13-2	GND
J13-3	RMT XMTR STBY CMD I/P
J13-4	RMT OPER IND
J13-5	GND
J13-6	GND
J13-7	O/P AMP MODULE STATUS O/P
J13-8	RMT FWD PWR O/P
J13-9	GND
J13-10	NOT USED
J13-11	GND
J13-12	RMT REFL PWR
J13-13	GND
J13-14	RMT XMTR FAULT IND
J13-15	IF PRESENT STATUS O/P
J13-16	RMT PLL LOCKED IND O/P
J13-17	NOT USED
J13-18	RMT XMTR OVERTEMP IND
J13-19	P.S. FAULT O/P
J13-20	EXT OVERTEMP (AMPL) I/P
J13-21	EXT FWD PWR (AMPL) I/P
J13-22	EXT REFL PWR (AMPL) I/P
J13-23	O/P AMP MOD STATUS (AMPL) O/P
J13-24	EXT P.S. STATUS (AMPL) O/P
J13-25	EXT PLL REF PRESENT O/P

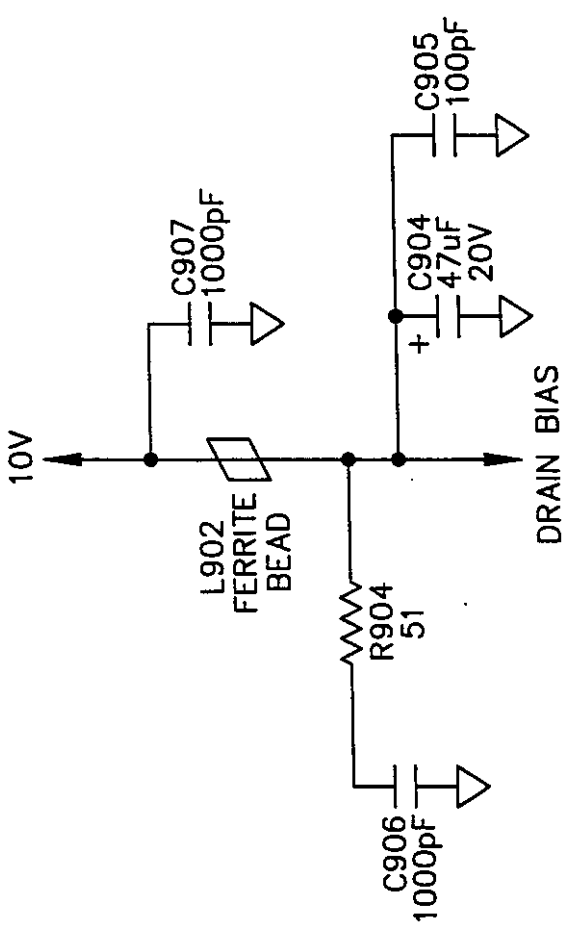
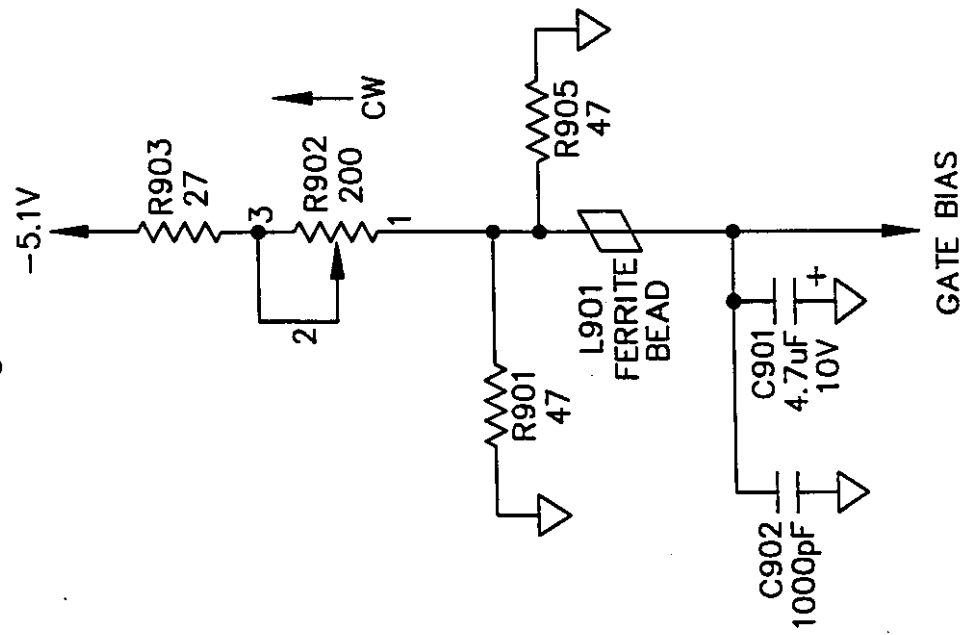
ALL
BACK PLANE BOARD
1585-113
REV: J1-2, J5-2, J6-4

REV	DATE	BY	DESCRIPTION
1	1585-113	1585-113	1585-113
2	1585-113	1585-113	1585-113
3	1585-113	1585-113	1585-113
4	1585-113	1585-113	1585-113
5	1585-113	1585-113	1585-113
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99	1585-113	1585-113	1585-113
100	1585-113	1585-113	1585-113



NOTE:
 1) WIRES ARE BELDEN YR40143. THE SHIELDS AT THE J3 END OF THE WIRES ARE CUT BACK (NO CONNECTION) AND COVERED WITH HEAT SHRINKABLE TUBING.
 2) WIRE IS 941. THE SHIELD AT THE J3 END OF THE WIRE IS CUT BACK (NO CONNECTION) AND COVERED WITH HEAT SHRINKABLE TUBING.

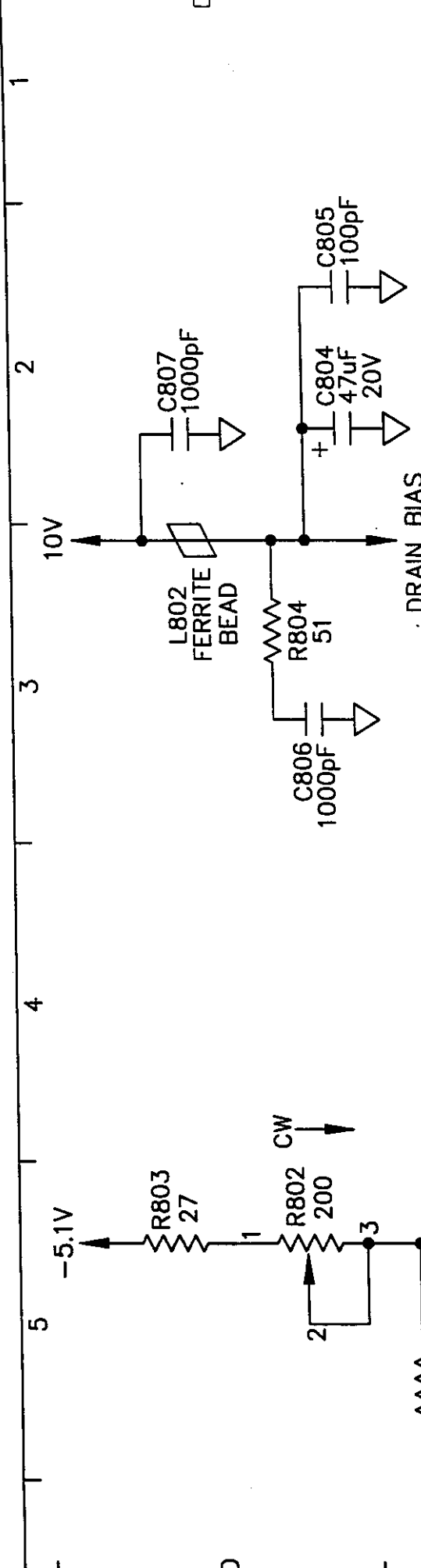
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100	100	1585-1136	0



NOTES:

- 1) ALL RESISTORS ARE 1/8W, 5% & IN VALUES OF OHMS UNLESS OTHERWISE NOTED.
- 2) IF 200 OHM POTS ARE NOT AVAILABLE, 100 OHM POTS MAY BE USED. HOWEVER, RESISTOR VALUES MAY HAVE TO CHANGE (SEE NOTE 2).
- 3) TO ACCOUNT FOR VARIATIONS IN THE FLL300 & FLL200, R903 MAY BE RAISED TO INCREASE DRAIN CURRENT (TYP 150 OHM) OR LOWERED TO DECREASE DRAIN CURRENT (TYP 27 OHM).

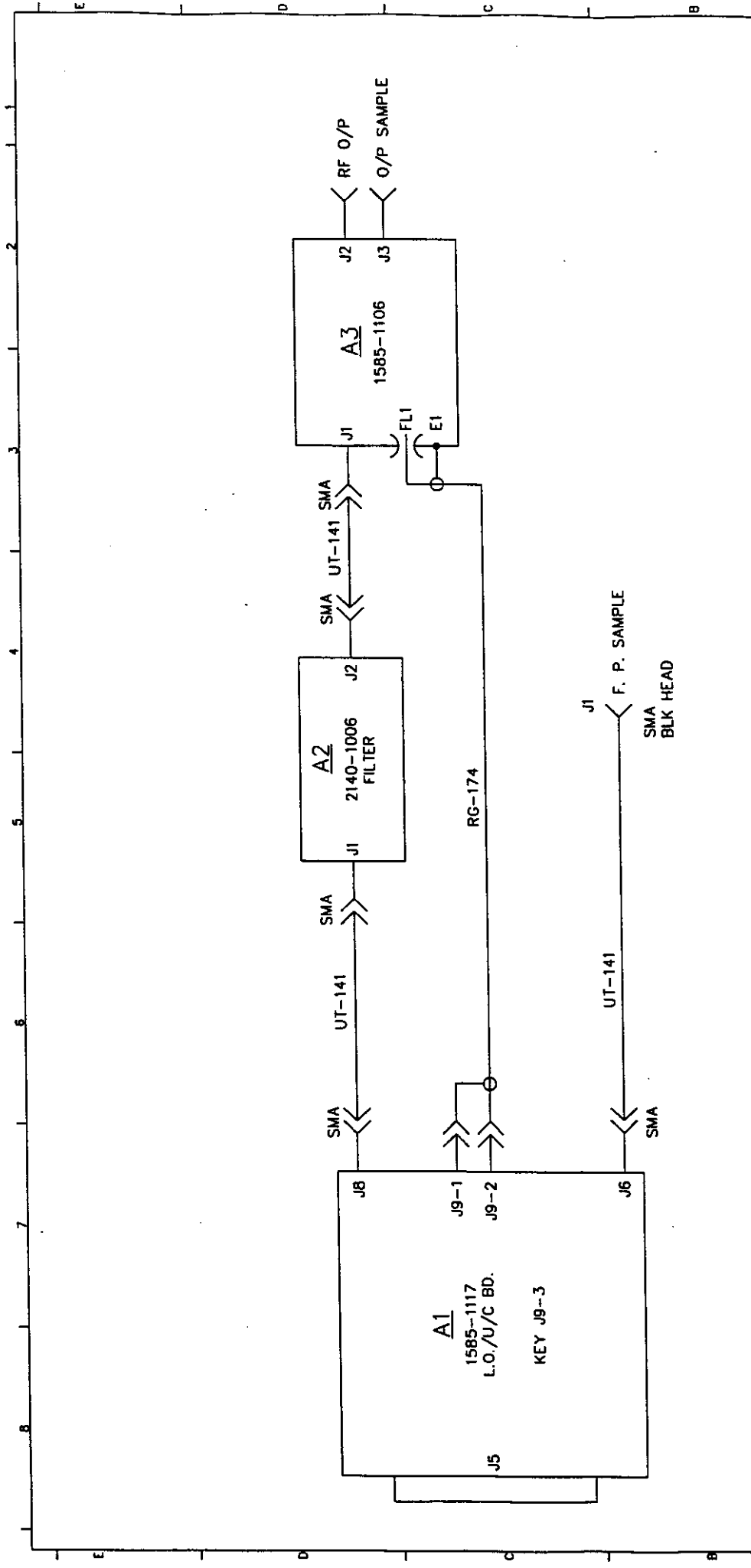
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ITS CORPORATION				
TITLE SCH, AMP. DAUGHTER BOARD, RIGHT SIDE (1585-1147)				
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.		DWN	JKF	10/1/97
MATERIAL		DWG. NO. 1585-3147		
FINISH		CHK		REL
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NOTES:

- 1) ALL RESISTORS ARE 1/8W, 5% & IN VALUES OF OHMS UNLESS OTHERWISE NOTED.
- 2) IF 200 OHM POTS ARE NOT AVAILABLE, 100 OHM POTS MAY BE USED. HOWEVER, RESISTOR VALUES MAY HAVE TO CHANGE (SEE NOTE 2).
- 3) TO ACCOUNT FOR VARIATIONS IN THE FLL300 & FLL200, R803 MAY BE RAISED TO INCREASE DRAIN CURRENT (TYP 150 OHM) OR LOWERED TO DECREASE DRAIN CURRENT (TYP 27 OHM).

IT'S CORPORATION		REV	ECN	DATE	APV
THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.		TITLE SCH, AMP. DAUGHTER BOARD, LEFT SIDE (1585-1148)			
		DWN	JKF	10/1/97	DWG. NO. 1585-3148
		MATERIAL			
		FINISH			
REV	ECN	REL	CHK	REL	SCALE
2					A
					SHEET 1 OF 1



THIS PRINT IS THE PROPERTY OF ITS CORP. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				IT'S CORPORATION				REV	ECN	DATE	APV
TITLE				I/C							
L.O./U/C ASSY				2.5 - 2.7 GHz							
MATERIAL				DWN	MAS	10/21/97	DWG. NO.				
FINISH				CHK			1585-8143	REV			
REL				REL							
SCALE 1=1				SHEET 1 OF 1							