

TITLE	SHEET	OF	REV. CODE	NUMBER	REV
DRAWING DIRECTORY H780	2	4	B DD	H780-0	E

ELECTRICAL (SECTION 1)						MECHANICAL (SECTION 2)									
CUSTOMER PRINT SET	MFG. SET	FIG. NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	CUSTOMER PRINT SET	MFG. SET	FIG. NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X		1	E-UA-H78 ϕ - ϕ - ϕ	E	2	POWER SUPPLY ASSY H78 ϕ		X		1	E-UA-H78 ϕ - ϕ - ϕ	E	2	POWER SUPPLY ASSY H78 ϕ	
X			C-PL-H78 ϕ - ϕ - ϕ	E	2	POWER SUPPLY ASSY H78 ϕ		X			D-IA-7011411- ϕ - ϕ		1	CABLE, LOGIC	
								X			D-IA-7011584- ϕ - ϕ		1	CABLE, DC OUTPUT	
								X			D-IA-7011733- ϕ - ϕ		1	HARNESS, FAN	
								X			D-IA-7011658- ϕ - ϕ		1	HARNESS, INPUT	
											C-IA-7011667- ϕ - ϕ		1	TRANS ASSY	
											B-MD-7414712-0-0		1	SHIELD, UL	
											B-IA-7414691-0-0		1	JUMPER	
X		5	D-CS-5411776-0-1		5	CIRCUIT SCHEMATIC H78 ϕ P.S.		X			C-IA-7011668-0-0		1	FILTER	
											D-IA-7008612-0-0		1	CABLE, KEYBOARD	
											C-PL-H78 ϕ - ϕ - ϕ	E	2	POWER SUPPLY ASSY H78 ϕ	
X		7	D-CS-5411808-0-1		2	CIRCUIT SCHEMATIC LIGHT & SW BD.									
X		8	D-CS-5412143- ϕ -1		2	CIRCUIT SCHEM SLAVE BD.				2	E-IA-7011283-0-0		1	CHASSIS ASSY	
											B-MD-7414149-0-0		1	ROD, CENTER SUPPORT	
											B-MD-7414148-0-0		1	ROD, MAIN SUPPORT, FRONT	
											B-MD-7414147-0-0		1	ROD, CAP SUPPORT	
											B-MD-7414100-0-0		1	SUPPORT, FAN	
											B-MD-7414099-0-0		1	ROD, SIDE SUPPORT	
											B-MD-7414146-0-0		1	SUPPORT, FAN & CONTROL PANEL	
											B-MD-7414145-0-0		1	SUPPORT, CONTROL PANEL	
											B-MD-7414098-0-0		1	GUIDE, CARD REAR	
											B-MD-7414097-0-0		1	GUIDE, CARD MIDDLE	
											B-MD-7414096-0-0		1	ROD, GUIDE	
											B-MD-7414095-0-0		1	ROD, BOTTOM SIDE, REAR	
											B-IA-7414205-0-0		1	BRKT, REAR FAN P.S. SUPPORT	
											B-MD-7414094-0-0		1	ROD, MIDDLE GUIDE	
											C-MD-7414093-0-0		1	BRKT, INPUT	
											B-MD-7414092-0-0		1	ROD, MAIN SUPPORT, MDI. & REAR	
											B-IA-7414204-0-0		1	SUPPORT STRAP, CAP, REAR	
											B-MD-7414091-0-0		1	SUPPORT STRAP, CAP, FRONT	
											B-IA-7414710-0-0		1	BRKT, FILTER	
										3	D-AD-7011569-0-0		1	REGULATOR ASSY	

CUSTOMER PRINT SET CODES
X = PRINT OF DOCUMENT INCLUDED IN PRINT SET
C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT
S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE
DRAWING DIRECTORY H78 ϕ
SHEET 3 OF 4
SIZE CODE
B DD
NUMBER
H78 ϕ - ϕ
REV
E

CUSTOMER PRINT SET		MECHANICAL (SECTION 2)					CUSTOMER PRINT SET		MECHANICAL (SECTION 2)						
	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE		MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
		4	C-IA-7011656-0-0		1	FRAME ASSY				10	A-SP-3700263-0-0	-	2	PACKAGING INSTRUCTIONS	
			D-MD-7414504-0-0		1	FRAME MODIFICATION					C-MD-7417466-0-0	-	1	SHIPPING BRKT	
			D-MD-7411744-0-0		1	WINDOW					A-PS-9905044-0-0	-	1	CUSHION SHIPPING	
			C-IA-7008612-0-0		1	CABLE, (LOGIC BD. TO SW BD.)					A-PS-9905966-0-0	-	1	CARTON OUTER	
											A-PS-9905967-0-0	-	1	LAMINATED BUILDUP	
		5	D-CS-5411776-0-1		5	CIRCUIT SCHEMATIC H78Ø P.S.									
			D-AH-5411776-0-5			ASSY DRILL HOLE LAYOUT									
			B-MH-5411776-0-6			MODULE ECO HISTORY									
			5011775			ETCH CIRCUIT BOARD									
		6	C-AD-7011583-0-0		1	BRKT. & CHOKE ASSY									
			E-IA-7414323-0-0		1	BRKT., CHOKE SUPPORT									
		7	D-CS-5411808-0-1		2	CIRCUIT SCHEM. LIGHT & SW BD.									
			K-CO-5411808-0-4			X-Y COORDINATE HOLE LOCATION									
			D-AH-5411808-0-5			ASSY/DRILLING HOLE LAYOUT									
			B-MH-5411808-0-6			MODULE ECO HISTORY									
			5011807			ETCH CIRCUIT BOARD									
		8	D-CS-5412143-0-1		2	CIRCUIT SCHEMATIC BALL-ME, MF BD.									
			K-CO-5412143-0-4			X-Y COORD. HOLE LOC.									
			D-AH-5412143-0-5			ASSY. DRILL. HOLE LAYOUT									
			B-MH-5412143-0-6			MODULE ECO HISTORY									
			5012142			ETCH CIRCUIT BOARD									
		9	C-MD-7414416-0-0		1	SHIELD, POWER SUPPLY									
			A-SS-7414416-0-1		1	SILK SCREEN 115V									
			A-SS-7414416-0-2		1	SILK SCREEN 230V									

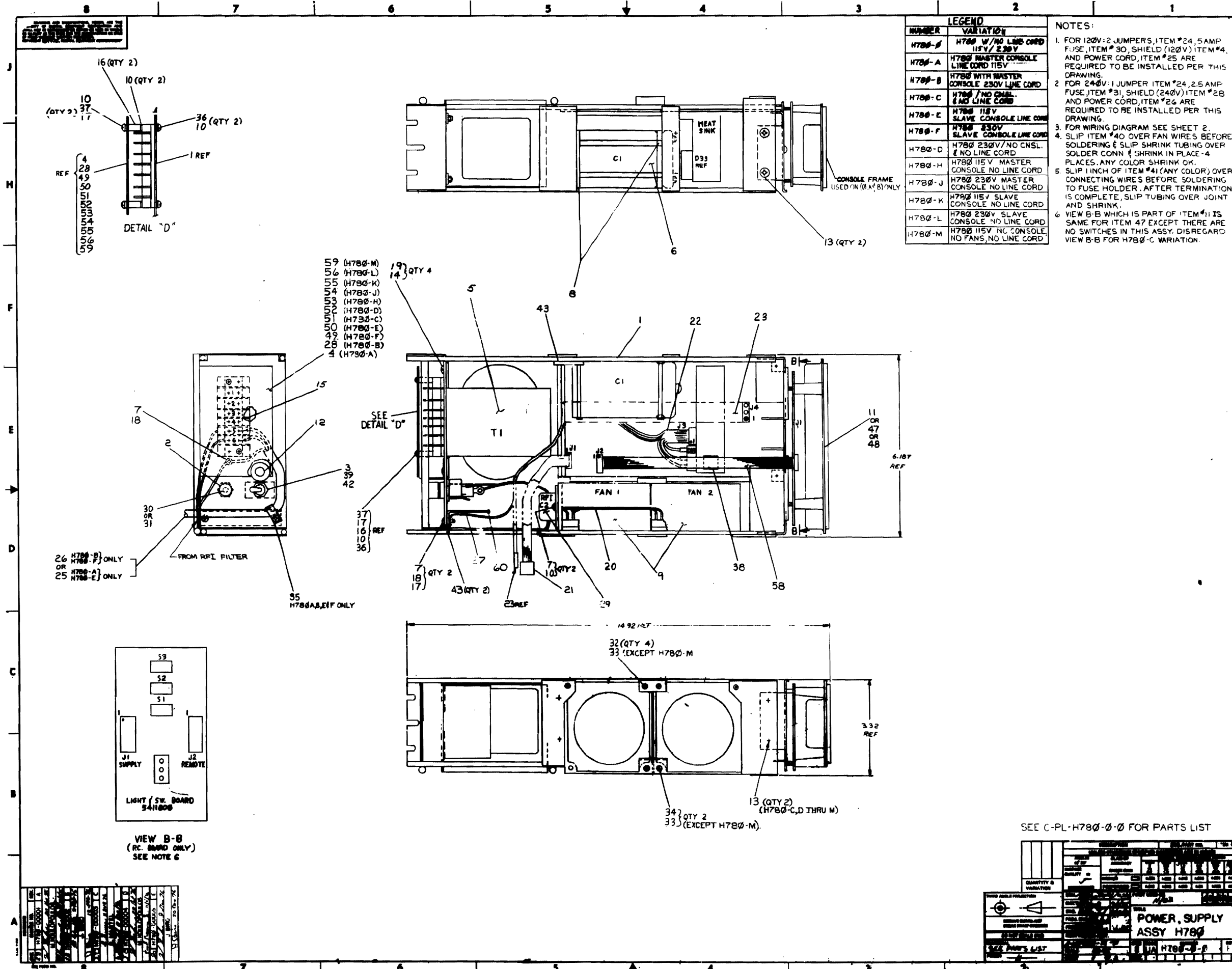
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TITLE
DRAWING DIRECTORY H78Ø

SHEET 4 OF 4
SIZE CODE
B DD

NUMBER
H78Ø-Ø

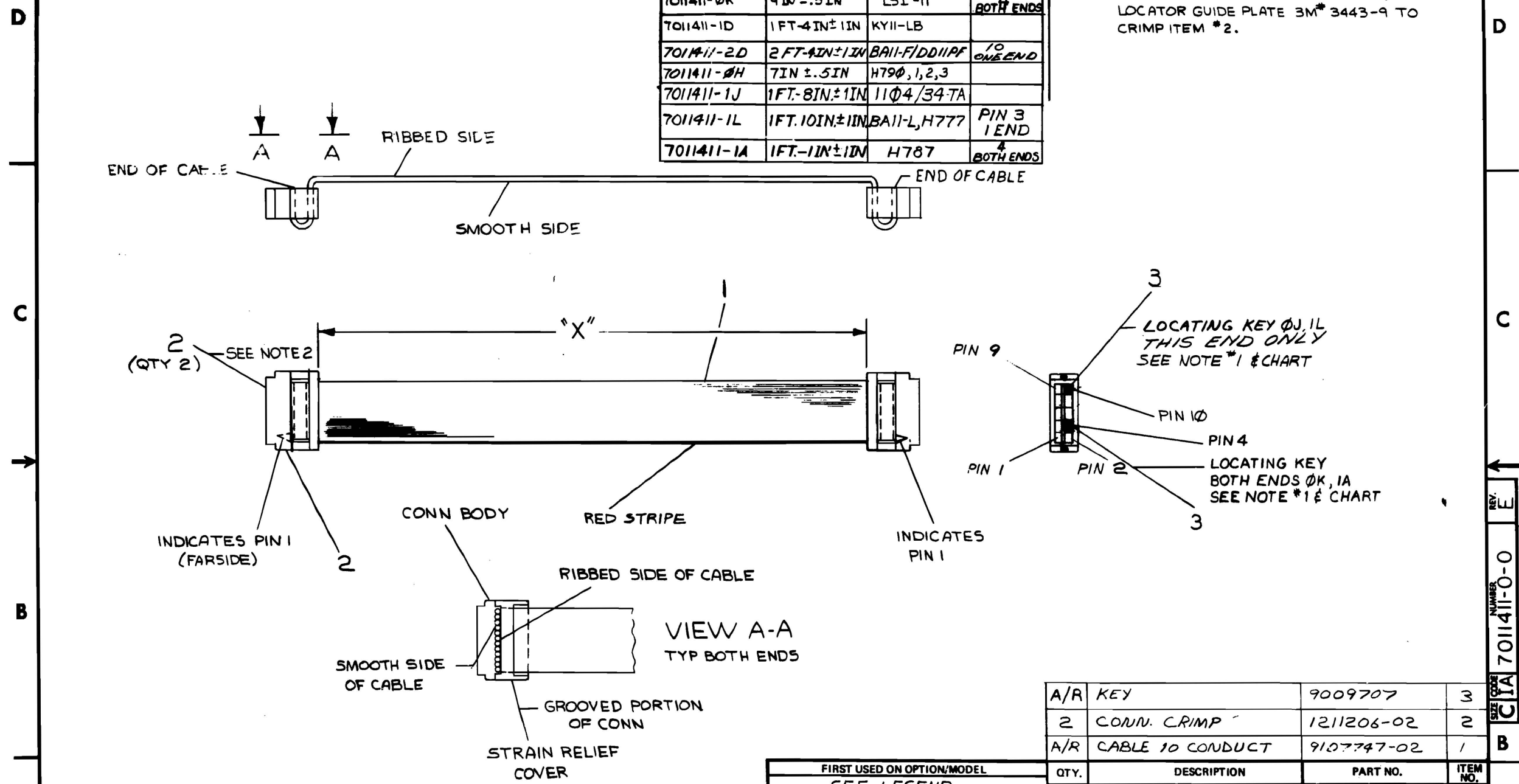
REV
E



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LEGEND			
NUMBER	DIM "X" VARIATION	USED ON	KEY PIN
7011411-0J	8 IN ± .5 IN	BAll-L OR K	10 ONE END
7011411-0K	9 IN ± .5 IN	LSI-11	BOTH ENDS
7011411-1D	1 FT-4 IN ± 1 IN	KY11-LB	
7011411-2D	2 FT-4 IN ± 1 IN	BAll-F/DD11PF	10 ONE END
7011411-0H	7 IN ± .5 IN	H790, 1, 2, 3	
7011411-1J	1 FT-8 IN ± 1 IN	1104/34TA	
7011411-1L	1 FT-10 IN ± 1 IN	BAll-L, H777	PIN 3 1 END
7011411-1A	1 FT-11 IN ± 1 IN	H787	BOTH ENDS

- NOTES:
1. INSERT KEY IN PROPER CONNECTOR PIN AND BREAK OFF TAB.
 2. USE CRIMP PRESS 3M* 3440 OR 3445 AND LOCATOR GUIDE PLATE 3M* 3443-9 TO CRIMP ITEM #2.



REV.	CHG	NO.	DATE	BY	APP.
A		00001			
B		00002			
C		00003			
D		00004			
E		00005			

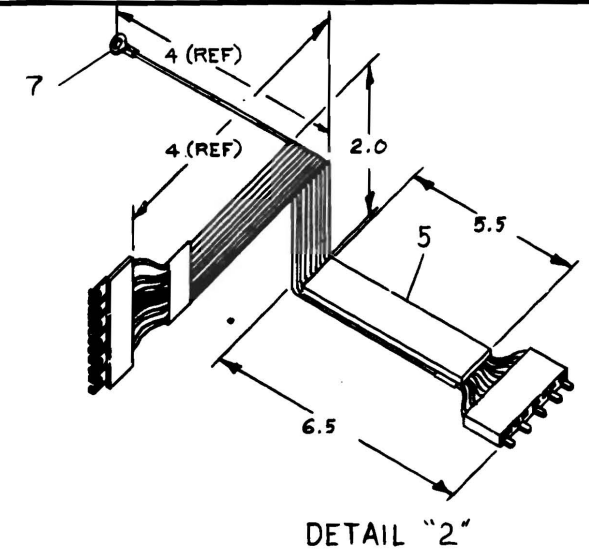
A/R	KEY	PART NO.	QTY.	DESCRIPTION	ITEM NO.
	KEY	9009707	3		
2	CONN. CRIMP	1211206-02	2		
A/R	CABLE 10 CONDUCT	9107747-02	1		

FIRST USED ON OPTION/MODEL SEE LEGEND		PARTS LIST	
DIMENSIONAL TOLERANCE		DRN. <i>M. E. G. Tab</i> DATE 5/20/75	
DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED		CHK'D <i>D. Hoag</i> DATE 4/13/75	
MILLIMETERS	INCHES	ANGLES	ENG. <i>R. Barry</i> DATE 6/18/75
X,XX = ± 0.10	.XXX = ± .005	± 0° 30'	PROJ. ENG. <i>R. Barry</i> DATE 6/18/75
X,X = ± 0.5	.XX = ± .02		PROD. <i>A. K. Peters</i> DATE 6/19/75
X = ± 2	.X = ± .1		TITLE
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	NEXT HIGHER ASSY.	CABLE, CONSOLE/BACKPLANE
MATERIAL SEE PARTS LIST	FINISH	SCALE NONE	SIZE CODE NUMBER REV. C IA 7011411-0-0 E
		SHEET 1 OF 1	DIST.

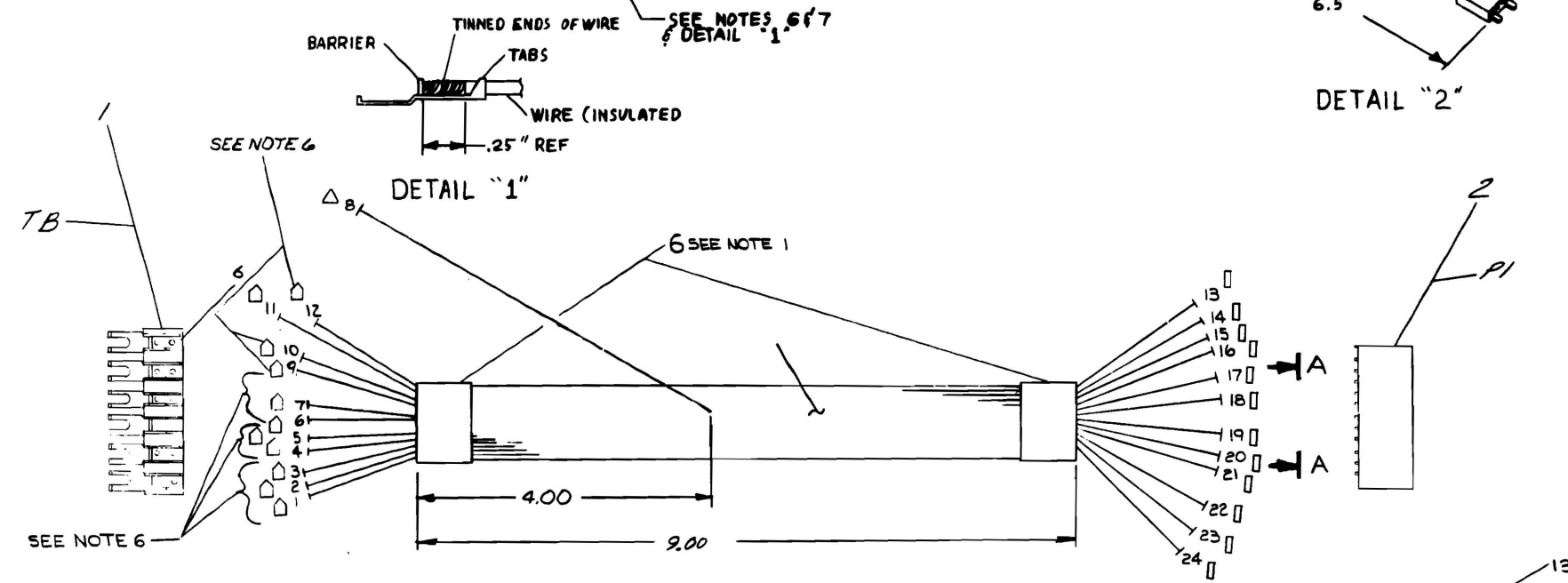
REV. E
 NUMBER 7011411-0-0
 SIZE CODE C IA

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WIRE TABLE									
ITEM NO	DESCRIPTION	FROM			TO				
		AWG	COLOR	CONNECTION	POINT	TERM	CONNECTION	POINT	TERM
4	18	RED	BRN	TB-2	1	TWIST TOGETHER	PI-1	24	3
					2	TIN & SOLDER	PI-2	23	
					3		PI-3	22	
					4		PI-4	21	
					5		PI-5	20	
					6		PI-6	19	
					7		PI-7	18	
					8		PI-8	17	
					9		PI-9	16	
					10		PI-10	15	
					11		PI-11	14	
					12		PI-12	13	3



- NOTES:
- CUT LENGTH OF ITEM 4 APPROXIMATELY 19 INCHES LONG. WRAP ONE WRAP OF TAPE, ITEM 6 IN TWO PLACES APPROXIMATELY 5 INCHES FROM EACH END AS SHOWN.
 - PEEL WIRES 13 THROUGH 24 APART DOWN TO TAPE.
 - PEEL WIRES 1 THROUGH 12 APART IN GROUPS OF 1, 2, OR 3, AS SHOWN DOWN TO TAPE.
 - FASTEN TO NAIL BOARD AND CUT TO PROPER LENGTHS.
 - STRIP AND CRIMP ITEM 3 TO WIRES 13 THROUGH 24.
 - STRIP ENDS OF WIRES 1 THROUGH 12 1/4" TO 3/8" BACK AND TWIST END OF INDICATED GROUPS TOGETHER. (1,2,3; 4,5,6; 7, 8,10; 12,11) TIN ENDS.
 - PLACE TINNED ENDS ON FANNING STRIP (ITEM 1) TO BARRIER (SEE DETAIL 1) AND SOLDER. (SEE WIRE TABLE FOR CONNECTIONS.) BEND TABS OVER WIRE TO PROVIDE GOOD STRAIN RELIEF. INSULATION SHOULD BE UNDER TABS.
 - PLACE WIRES 13 THROUGH 24 IN ITEM 2 AS INDICATED IN WIRE TABLE AND REFERENCE VIEW AA.
 - CUT AND ASSEMBLE ITEM 5 TO CABLE AS SHOWN ON SHEET 2.
 - FOLD CABLE AS SHOWN ON DETAIL 2.



DO NOT REDUCE SCALE
 0 IN 6 IN 12 IN
 FOR MANUFACTURING PURPOSES ONLY

QTY	DESCRIPTION	DWG. PART NO.	ITEM NO.
1	TERM, RING TONGUE	9007927-00	7
1	AR TAPE, ELECTRIC, BLK PLASTIC	9009507	6
1	AR TAPE, ADHESIVE BACK	9009087	5
19'	CABLE, 12 WIRE	1700057	4
12	TERM, CRIMP	1212203-00	3
1	CONN, HSB, 12 PIN	1212620-01	2
1	CONN STRIP 6 LUG	1212698-00	1

CLASS OF ACCURACY	DIMENSIONAL TOLERANCES IN INCHES					
	OVER 12	6 TO 12	3 TO 6	1.5 TO 3	.5 TO 1.5	UNDER .5
MEDIUM	±.005	±.003	±.002	±.0015	±.001	±.0005
PREFERRED	±.002	±.0015	±.001	±.0007	±.0005	±.0003

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DRN: [Signature] 7/3/75
 CHK'D: [Signature] 8/6/75
 ENG: [Signature] 8/11/75
 PROJ. ENG: [Signature] 8/11/75
 PROD: [Signature] 1/1/76

FIRST USED ON 11/03

TITLE: CABLE, DC OUTPUT

SIZE: D
 CODE: IA7011584-0-0
 NUMBER: A
 REV: A

SHEET 1 OF 1

REVISIONS

REV.	DATE	BY	DESCRIPTION
1	7/3/75	J. BIRRO	INITIAL DESIGN

SCALE: 20:1

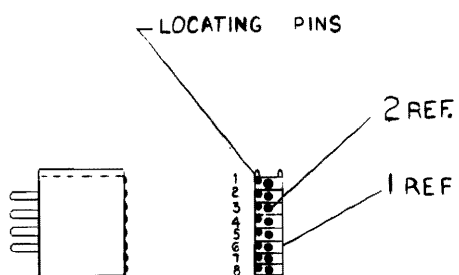
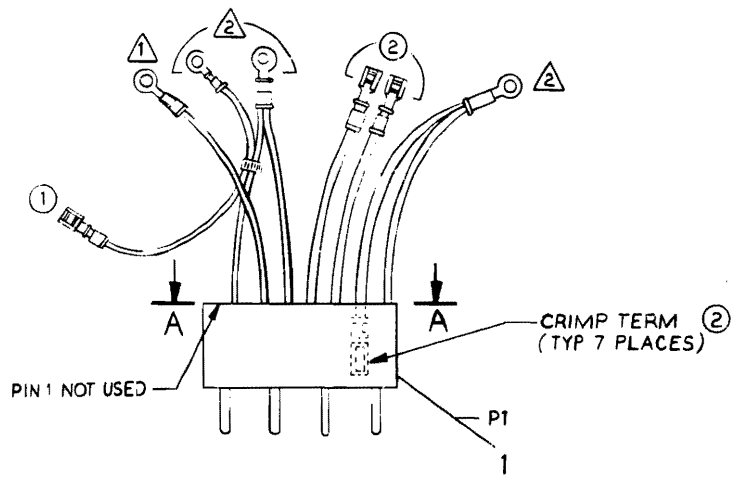
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NOTES:
1. MAKE ALL CONNECTIONS USING WIRE TABLE AND PRECUT LENGTHS NOTED THERE.

WIRE TABLE									
ITEM NO.	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	WIRE LENGTH
3	18	YEL		P1-6	ITEM*2			ITEM*11	3.0 IN
3		YEL		P1-5				ITEM*11	3.0 IN
4		BLK		P1-3				ITEM*10	4.0 IN
4		BLK		P1-8				ITEM*8	4.0 IN
4		BLK		P1-7				ITEM*8	4.0 IN
5		RED		P1-4				ITEM*8	3.5 IN
5	18	RED		P1-2	ITEM*2			ITEM*8	3.5 IN
6	14	RED			ITEM*7			ITEM*8	3.75 IN

SEE NOTE #1

SEE DETAIL "A" FOR P-1 PIN LOCATIONS



VIEW A-A
SCALE: NONE
(P1, ITEM*1)

QTY	SYMBOL	DESCRIPTION	DWG. PART NO.	ITEM NO.
2	②	TERM, QUICK CONN., (RED)	3007370	11
1	△	TERMINAL RING RED	9007930-00	10
1	X	TIE, CABLE	3001031	9
3	△	TERMINAL RING BLU	9007928-00	9
1	①	FASTON TAB BLU	9007929	7
	A/R	WIRE *14 AWG (RED)	9107370-22	5
	A/P	WIRE *18 AWG (RED)	9107360-22	5
	A/R	WIRE *18 AWG (BLK)	9107360-00	4
	A/R	WIRE *18 AWG (YEL)	9107360-44	3
7	■	TERMINAL CRIMP	1212203-00	2
1	■	CONN, HSG 8 PIN	1212620-00	1

SEE WIRE CHART FOR WIRE LENGTHS

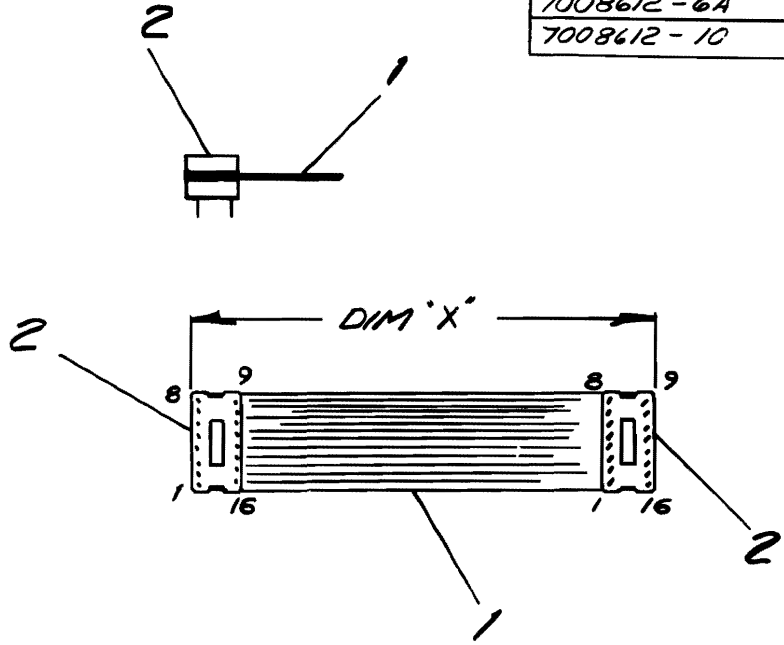
REV.	DATE	BY	CHK'D
1	10/16/58	00001 A	
2	11/19/58	REVISION	
3	12/19/58	R. MARTEL	

THIRD ANGLE PROJECTION	DRM. G. GRAYTON 7/2/77	FIRST USED ON	11/67
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D C. HEALY 3/3/77	TITLE	HARNE AC INFUT
DO NOT SCALE DWG	ENG. R. MARTEL 3/9/77	SIZE	D
MATERIAL SEE PARTS LIST	PROL. ENG. W. TEL 3/9/77	CODE	JA
FINISH	PROD. E. H. AVE 1/3/77	NUMBER	7011658-00
	NEXT HIGHER ASSY.	REV.	A
	SCALE 1/1		
	SHEET 1 OF		

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LEGEND	
NUMBER	VARIATION
7008612-ØD	Ø IN
7008612-1B	1.4 IN.
7008612-1F	18 IN.
7008612-Ø3	3 FT.
7008612-ØF	6 IN.
7008612-ØK	9 IN. ± 1 IN.
7008612-4A	49 IN. ± 1 IN.
7008612-ØM	11 IN.
7008612-Ø2	2 FT. ± 1 IN.
7008612-6A	6 FT. 1 IN. ± 2 IN.
7008612-10	10 FT. ± 2 IN.

- NOTES:
- TOOLS REQUIRED FOR ASSEMBLY:
 - ASSEMBLY PRESS MODEL #3440 (3M CO)
 - CABLE SHARP MADE #3437 (3M CO)
 - CUTTING BLADE #3449 (3M CO)
 - PLATEN & LOCATOR PLATE #3443-13 (3M CO)
 - HEIGHT GAUGE #3436 (3M CO)



REV.	CHANGE NO.	CHK	DATE
A	LK 40-0001		8-9-75
B	GT 40-0001		6-8-75
C	7008612-0001		6-12-74
D	7008612-0002		6-17-74
E	7008612-0003		9-26-74
F	LA36-0011		3-2-75
H	7008612-0004		1-26-76
J	7008612-0005		2-4-76
K	7008612-0006		1-14-76
	7008612-0007		2-18-76

QTY.	DESCRIPTION	PART NO.	ITEM NO.
2	SOCKET 16 CONTACTS 3M Co	1210722	2
1	CABLE 28 AWG STD 16 COND	7107738	1

FIRST USED ON OPTION/MODEL		PARTS LIST	
VT05		digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DATE 10-1-71	TITLE CABLE, KEYBOARD	
DECIMALS .005	DATE 10-1-71	SIZE CODE C IA	
ANGLES 0 30'	DATE	NUMBER 7008612-0-0	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	DATE	REV. K	
MATERIAL	DATE	SCALE	
FINISH	DATE	SHEET / OF /	

REV. K
NUMBER 7008612-0-0
SIZE CODE C IA

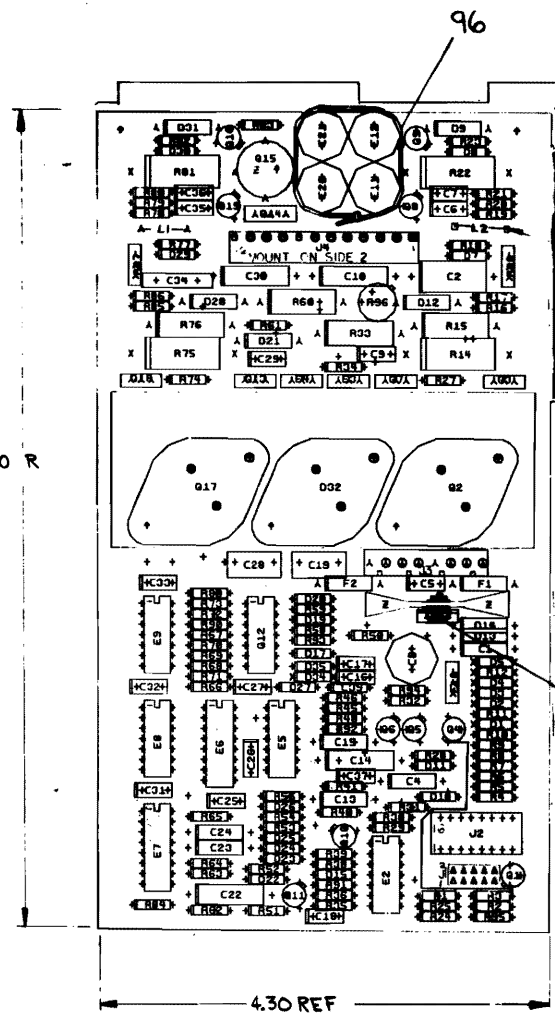
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NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 1/4W ±5% .
2. COMPONENTS SHOWN INSIDE DASHED LINES ARE EXTERNAL TO THE PC BOARD .

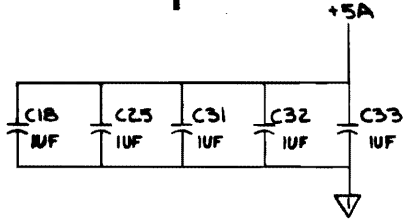
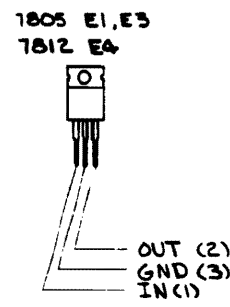
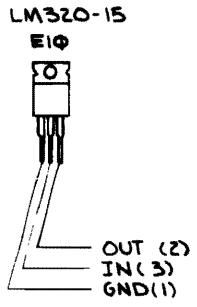
NOTES:

3. TIN LEADS ON L-1 & L-2 AFTER STRIPPING



L1 & L2 MOUNTED ON ITEM 88 (BRACKET & CHOKE ASS'Y) SEE NOTE 3

FROM BOTTOM END OF THE TIP OF THE CONNECTOR PIN TO THE BOARD SHALL BE A SPACE OF .25" ±.010 -0.



IC TYPE	GND	+5V	-15V	+28V
LM339 E5	12			3
LM339 E2	3		12	

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE

IC PIN LOCATIONS

FIRST USED ON OPTION MODEL		QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
ETCH BOARD REV. C						
PARTS LIST						
DRN: W. LUFKIN		DATE: 8/15/75				
CHN: [Signature]		DATE: 8/15/75				
PRJ: [Signature]		DATE: [Signature]				
PRD: [Signature]		DATE: 11/6/75				
NEXT HIGHER ASSY				D-AD-7011569-0-0		
DEC NO.		EIA NO.		DEC NO.		EIA NO.
SCALE: 1:1		SHEET: 1 OF 5		D.C.S. 5411776-0-1		REV. F

SEMICONDUCTOR CONVERSION CHART

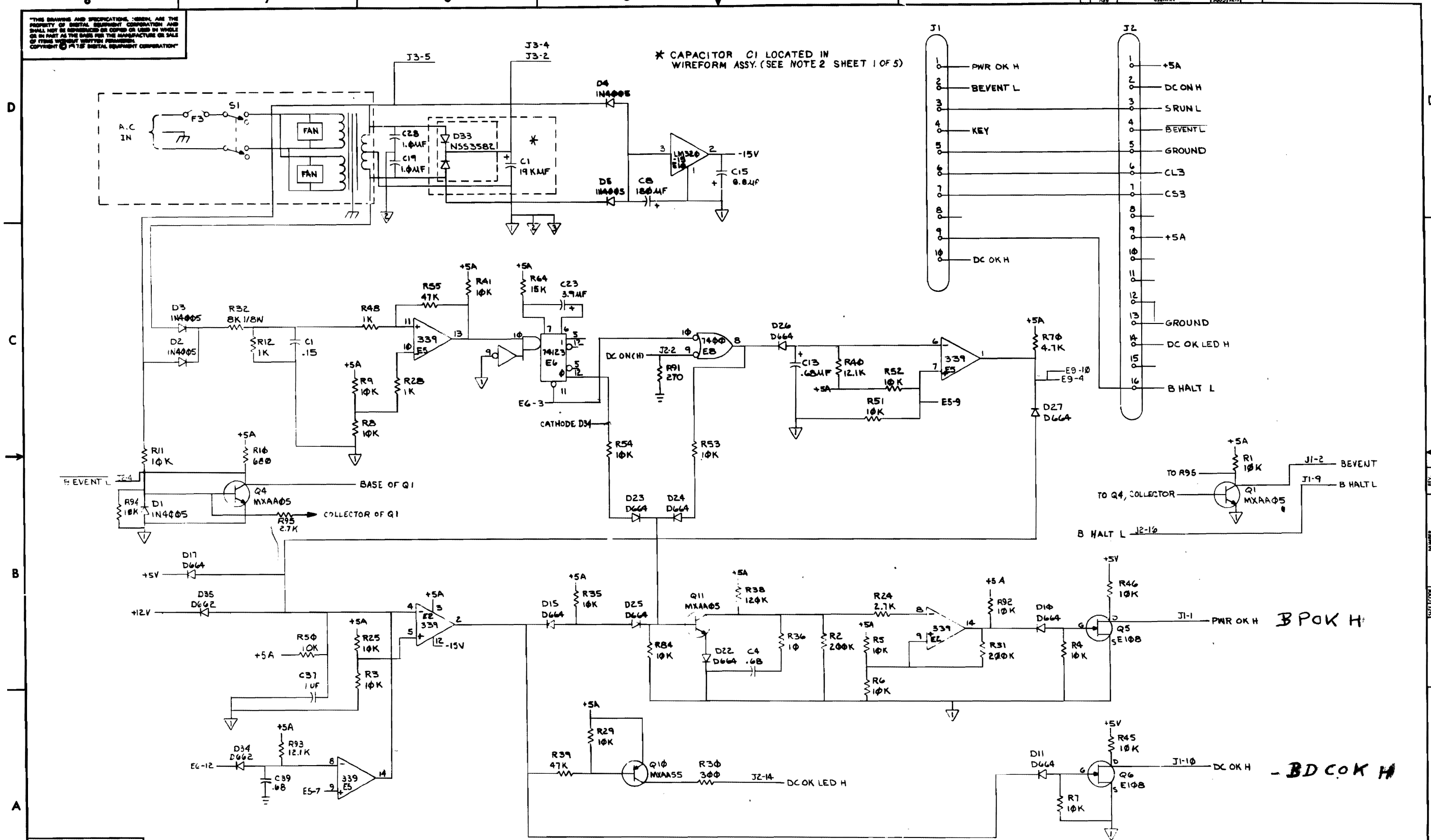
PARTS LIST

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	REF.
		ASSY/DRILLING HOLE LAYOUT	DAM-541176-0-5	1
		MODULE ECO HISTORY	B-MH-541176-0-6	2
1		PRINTED CIRCUIT BOARD	5011775-00	3
1	C23	CAP, 39MF 10V STA	1000064-00	4
3	C10, C22, C30	CAP, 39MF 10V STA	1000076-00	5
6	C6, C7, C8, C23, C35, C36	CAP, .01MF CERAMIC DISC	1001610-01	6
1	C1	CAP, .15MF 35V STA	1002180-00	7
1	C8	CAP, 180MF 50V 672D	1012607-02	8
3	C11, C12, C21	CAP, 1200MF 6.3V 672D	1012607-01	9
				10
2	C14, C15	CAP, 6.8MF 35V STA	1005306-00	11
4	C4, C13, C24, C39	CAP, .68MF 35V STA	1009964-00	12
1	C2	CAP, .47MF	1010021-05	13
2	C9, C29	CAP, .22MF 50V	1010214-00	14
1	C20	CAP, 560MF 20V 672D	1012607-00	15
				16
6	D7, D8, D29, D30, D34, D35	DIODE, D662	1100113-00	17
12	D10, D11, D13, D17, D19, D22, D27, D20	DIODE, D664	1100114-00	18
1	D9	DIODE, 1N752A	1102808-00	19
				20
1	D14	DIODE, 1N756A	1103441-00	21
1	D31	DIODE, 1N4648 13V 5% ZENER	1109988-00	22
3	D12, D28, D21	DIODE, A115F	1112594-00	23
1	D32	DIODE, M4E 1N580117	1110715-00	24
5	D1-D5	DIODE, 1N4005	1110967-00	25
1	D33	DIODE, NSS3582 RECTIFIER	1112588-00	26
1	F2	FUSE, 5A	1005767-00	27
1	F1	FUSE, 15A	1210929-00	28
1	J2	SOCKET, IC, DUAL IN LINE (16 PIN)	1211813-02	29
9	J1	PIN, STAKING, PC BOARD	7009149-00	30
1	J3	HEADER, 8PIN	1212619-00	31
1	J4	HEADER, RIGHT ANGLE, 12 PIN	1212204-02	32
1		HEAT SINK, COMPONENT MOUNTING	1212485-00	33
1		HEAT SINK (FOR 7805, E1)	1212531-00	34
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1	R19	RES, 33Ω 1/4W 5% CC	1300191-00	36
2	R20, R19	RES, 47Ω 1/4W 5% CC	1300202-00	37
1	R78	RES, 100Ω 1/4W 5% CC	1300229-00	38
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1	R57	RES, 470Ω 1/4W 5% CC	1300316-00	40

QTY	REF. DESIGNATION	DESCRIPTION	PART NUMBER	REF.
2	R21, R80	RES, 1.5KΩ 1/4W 5% CC	1300391-00	41
4	R24, R72, R73, R98	RES, 2.7KΩ 1/4W 5% CC	1300426-00	42
2	R17, R86	RES, 750Ω 1/4W 5% CC	1301401-00	43
4	R18, R69, R70, R71	RES, 4.7KΩ 1/4W 5% CC	1300447-00	44
19	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100, R101, R102, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121, R122, R123, R124, R125, R126, R127, R128, R129, R130, R131, R132, R133, R134, R135, R136, R137, R138, R139, R140, R141, R142, R143, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R154, R155, R156, R157, R158, R159, R160, R161, R162, R163, R164, R165, R166, R167, R168, R169, R170, R171, R172, R173, R174, R175, R176, R177, R178, R179, R180, R181, R182, R183, R184, 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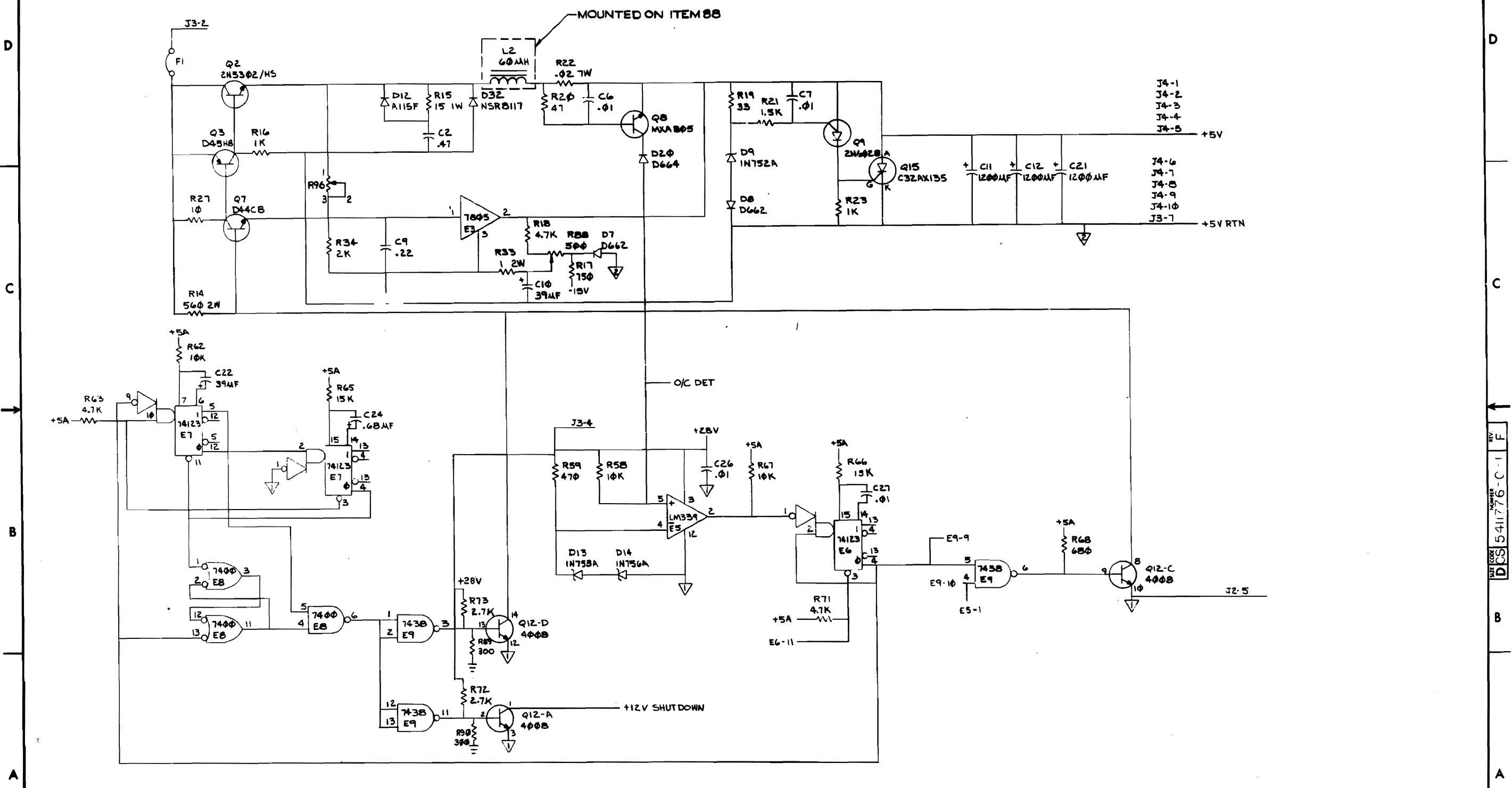
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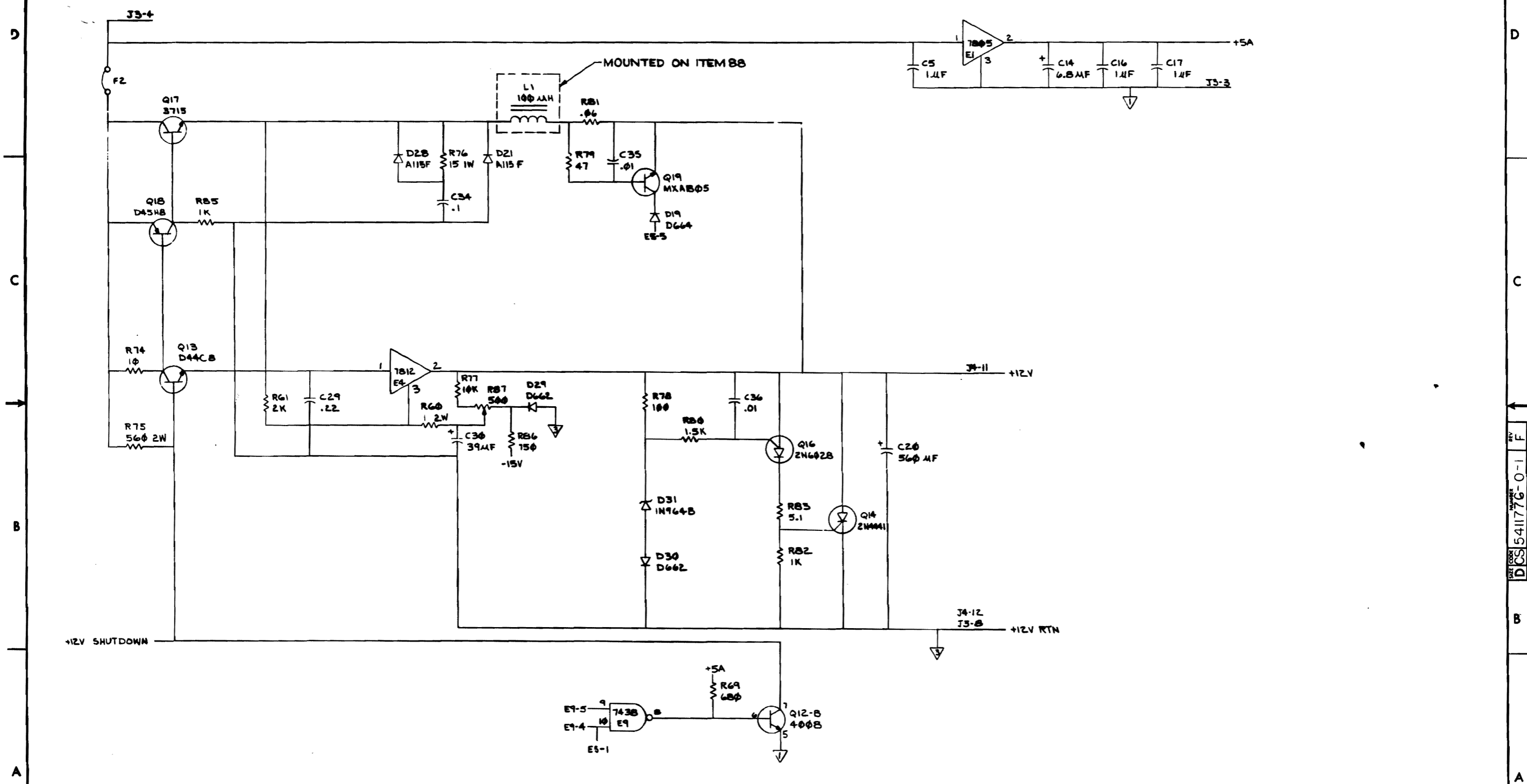
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