

TOP & BOTTOM VIEW ADDED REF. TO P-42E184 WASHER & IN VIEW M-W ADDED REF TO 845385790 WIRE ASSEMBLY.

SHEET C3 "CANCELED". SHEET C4, CANCELED FIG. WD SECT L-L ADDED REF TO "STP LIST" (L--I, REF TO 845365824 WIRE KIT & CONFIGURATION OF BRACKET ASSY WAS CHANGED TO SHOW NEW BRACKET 846133387 SECT N-N, ADDED REF TO 897244553, BUSHING, REF TO CORD PROVIDED --EXCEPT LIST EL CHANGED "ED" CKT PACK 48 VOLTS WAS 24 VOLTS. REF TO LIST "A" ADDED, & CHANGED CONFIGURATION OF BRACKET ASSEMBLY TO NEW BRACKET 846133387.

7-1-89 CL M  
RBB HL EJV 4

ADDED TABLE "X" TO SHEET A1 AT NOTE 9 "X" WAS ADDED TO SHOW BOTH SHOP & INST. IS RECD. CANCELED SHEET D1 LINE 197 CHANGED SHEET C2, VIEW P-P "SEE TABLE X" READ "SEE TABLE X & NOTE 14."

8-9-89 CL M  
RBB HL EJV 5

NOTE 13 ADDED. IN NOTE 54, GRI, A READ GRI IN NOTES 7 "CIRCUIT" READ "SYSTEM". IN NOTE 58 REF TO L-748 ADDED. IN TBL A, L-1, 2, 3, 4, 5, 6, COL A, H, S, Q, V, U, 8 ADDED RESP. DIST CODE READ RM10. IN SL LINES 121, 122, 125 & 126 WERE ON LINES 122, 123, 128 & 127 RESP. LINES 121 & 122 LINED OUT. LINES 123, 124, 127 & 175 ADDED. LINES 192, 194 & 195 COL E, WIRE SET READ WIRE KIT. LINE 267 & 269, COL E, PCBEN READ PCBEN. LINE 326, COL E, 2140 READ 581000-12. LINE 192 & 438, COL A, L-4 ADDED. LINES 341 & 438, COL C, REAO 40360501 & 814251849 RESP. LINE 445 QTY READ 2. LINE 438 QTY READ P-42E184. LINES 408 & 421 & 438 DESCR READ P-099 & 48X3/4, 8HT, 139-32X1/2 & 8HT. 151X.446X.038 RESP. VIEWS CHG ACCORD. IN SECT E-E, "E" READ "E5". SECT F-F READ SECT K-K. P.L. 4, 1, 4, 2, 4, 3, 5, 2, 5, 3 7-27-89 CLM  
WAP HL EJV 8

IN TABLE A LIST D AKWIB LINED OUT. AKWIC ADDFD. "H OMIT J OR K" READ "J OMIT K". IN S/L LINE 182 CHG. ACCORD. 10-2-89 CLM  
HL EJV 7

ON S/L C-6D LINES 368, 438, 138, 144, 155, 164, 168, 169, 170, 268, 470 & 473. LINE-OUT 440, 462, 463, 472, 268 & 269. ADD LINES 151, 52 & 153. ADDED NOTE 14, CHANGED INFO ON FIG 13A & SECT A-AB, B-D, E-E, H-H, L & N-N DALLAS PT. 155.71 ADDED NOTE 58, ADDED REF. TO NOTE 50 IN TABLE A FOR L-1 & L-A DALLAS PT. 155.72 ADDED NOTE 15. S/L CHANGED LINES 132, 133 & 438. ADDED INFO TO FIG 1 DALLAS PT. 155.73 ON S/L LINE-OUT 151, 53, 173 & 433. ADDED LINES 158, 159, 248, 250, 271, 272, 288, 287, 288, 289, 295, 322, 479 & 480. LINE-OUT LIST 2 REF. ON 138, 144, 155, 2, 3, 292, 325, 368, 369, 408 & 458. LINE 182 WAS CC 104434394. REMOVED NOTE 14 REF ON 138, 144, 155, 168-170. ADDED NOTE 14 REF ON 374, 378 & 377. SHEET A1 NOTE 14 MODIFIED. SHEET B1 LABEL 845385774 REMOVED. SHEETS B2 & C1 CHANGED TERMINAL BLOCK REF. 846446728 BRACKET WAS 845160280. SHEET C4 SECT A-N REMOVED REF. TO LIST 2. DALLAS PT. 155.74 ADDED NOTES 18 & 80. ADDED LABEL TO FIG 1 ON SHT BL DALLAS PT. 155.75 ON S/L LINE-OUT LINE 175. SHT B1 FIG 846250710 LABEL REMOVED. DALLAS PT. 155.78 ON SHT A1 ADDED NOTE 17. SHT B1 ADDED REF TO NOTE 17 ON FIG 1 ON S/L ADDED REF TO NOTE 17 ON 174.

MANUFACTURING NOTES CONTINUED:

- THESE PARTS MAY BE PURCHASED UNDER COMCODE 846434116 KIT WHEN LIST 2 IS ORDERED.
-  PARTS TO BE SHIPPED ATTACHED TO OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED ASSEMBLED ITEM.
- ADD WES LABEL FOR CURRENT MONTH TO UPPER RIGHT CORNER OF 845511138 LABEL.
- ON PRODUCT IDENTIFICATION LABEL 845511138, ITEM 174, ONLY LISTS 6, 7 & 8 ARE USED FOR IDENTIFICATION. THERE IS NO OUTPUT RATING ON PRODUCT. PRINT CHARACTERS ON LABEL FOR LISTS 6, 7 & 8 AS FOLLOWS:  
FOR LIST 6:  
SERIAL NUMBER: XXXXXXXXX  
MODEL NUMBER: J85501B-1  
INPUT: 27VDC  
DATE: XXXXXX  
SD: 82646-01  
OUTPUT: \*\*\*  
FOR LIST 7:  
SERIAL NUMBER: XXXXXXXXX  
MODEL NUMBER: J85501B-1  
INPUT: -27VDC  
DATE: XXXXXX  
SD: 82646-01  
OUTPUT: \*\*\*  
FOR LIST 8:  
SERIAL NUMBER: XXXXXXXXX  
MODEL NUMBER: J85501B-1  
INPUT: 54VDC  
DATE: XXXXXX  
SD: 82646-01  
OUTPUT: \*\*\*
- MODEM MANUAL IS SHIPPED LOOSE WITH CONTROLLER UNIT.
-  PARTS (A) REQUIRED FOR MANUFACTURE WHEN EQUIPMENT IS SHOP MOUNTED, OR (B) TO BE SHIPPED ATTACHED TO OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED ASSEMBLED ITEM WHEN FIELD MOUNTED.

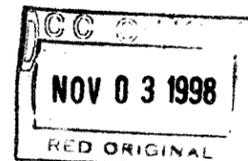


TABLE W RECOMMENDED CONNECTORS FOR LISTS 3 & 4

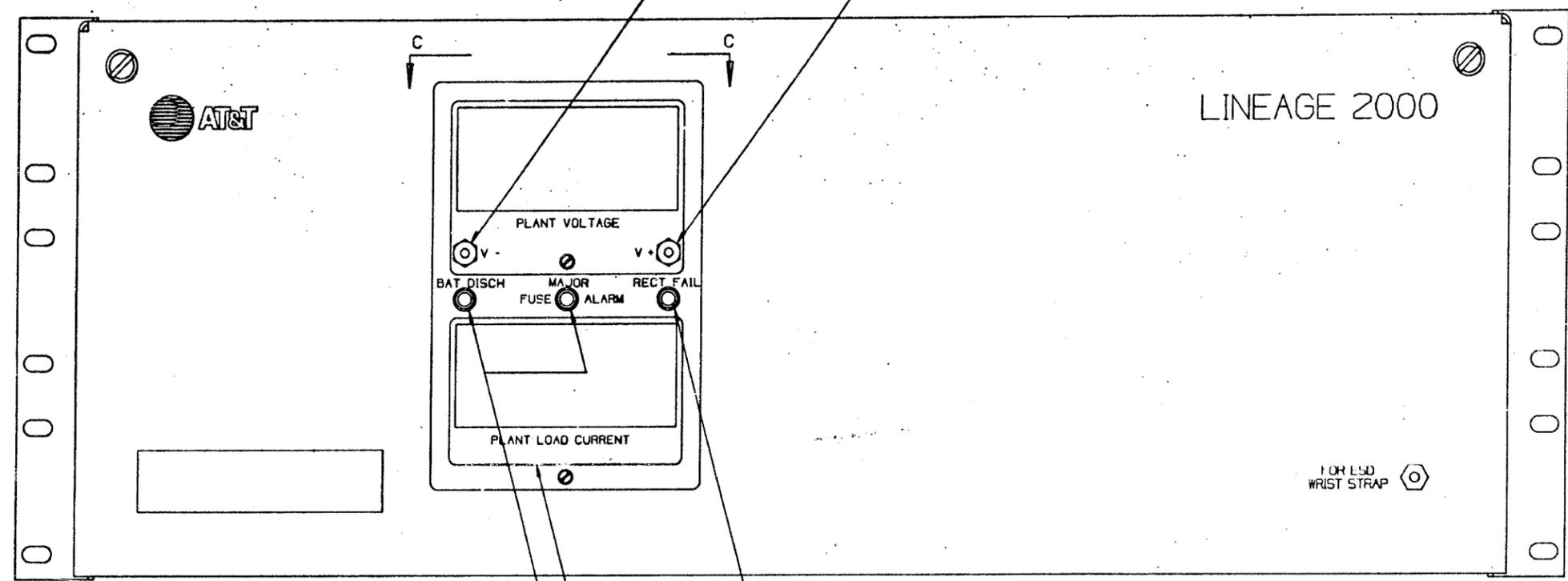
WIRE SIZE	TYPE	WP-91412 LIST	BOLT SIZE	TONGUE WIDTH
FUSE LOAD & RETURN LEADS (8 MAX) LIST 3 (ONLY)				
10-14	CL B	94	1/4-20	0.41
10-14	FLEX	94	1/4-20	0.41
8	CL B	74	1/4-20	0.41
8	FLEX	74	1/4-20	0.41
6	CL B	2	1/4-20	0.43
6	FLEX	2	1/4-20	0.43
RECTIFIER LEADS (6 MAX)				
6	CL B	2	1/4-20	0.43
6	FLEX	2	1/4-20	0.43
4	CL B	4	1/4-20	0.55
4	FLEX	4	1/4-20	0.55
2	CL B	53	1/4-20	0.59

TABLE A-FEATURES

LINE	DESCRIPTION	RATING	LIST	QTY	CIRCUITS AND FIGURES EQUIPPED			
					CIRCUIT	FIG.	WIRING APPARATUS	
1	ASSEMBLY, WIRING AND EQUIPMENT FOR ONE CONTROL UNIT FOR A POSITIVE OR NEGATIVE 24 VOLT OR 48 VOLT BATTERY PLANT. (SEE NOTE 59)	DA	1		T-82646-30	1, 3, 6	K S	
2	ASSEMBLY, WIRING AND EQUIPMENT FOR ONE CONTROL UNIT FOR A POSITIVE OR NEGATIVE 24 VOLT OR 48 VOLT BATTERY PLANT EQUIPPED WITH RECTIFIER REG FUSES. (SEE NOTE 52)	DA	2		T-82646-30	1, 2, 6, 8	K R	
3	ASSEMBLY, WIRING AND EQUIPMENT FOR ONE CONTROL AND DISTRIBUTION UNIT FOR A POSITIVE OR NEGATIVE 24 VOLT OR 48 VOLT BATTERY PLANT EQUIPPED WITH BUS BARS AND DISTRIBUTION FUSES.	DA	3		T-82646-30	1, 4, 6	K D	
4	ASSEMBLY, WIRING AND EQUIPMENT FOR ONE CONTROL AND DISTRIBUTION UNIT FOR A POSITIVE OR NEGATIVE 24 VOLT OR 48 VOLT BATTERY PLANT EQUIPPED WITH BUS BARS AND RECTIFIER REG FUSES.	DA	4		T-82646-30	1, 6, 7	K V	
5	ASSEMBLY, WIRING AND EQUIPMENT REQUIRED IN ADDITION TO LIST 1, 2, 3 OR 4 TO PROVIDE ANALOG METERS FOR PLANT VOLTAGE AND CURRENT.	DA	5		T-82646-30	(1) 5 OMIT 6	U	
6	EQUIPMENT AND WIRING REQUIRED IN ADDITION TO LIST 1, 2, 3 OR 4 FOR USE WITH A +24 VOLT PLANT. (SEE NOTE 58)	DA	6		T-82646-30	(1)	Y HQ OMIT HP	
7	EQUIPMENT AND WIRING REQUIRED IN ADDITION TO LIST 1, 2, 3 OR 4 FOR USE WITH A -24 VOLT PLANT.	DA	7		T-82646-30	(1)	X HS OMIT HR	
8	EQUIPMENT AND WIRING REQUIRED IN ADDITION TO LIST 1, 2, 3 OR 4 FOR USE WITH A -48 VOLT PLANT.	DA	8		T-82646-30	(1)	X HU OMIT HT	
9	UNASSIGNED	DA	9					
10	UNASSIGNED	DA	10					
11	EQUIPMENT REQUIRED IN ADDITION TO LIST 6 OR 7 WHEN LIST 5 IS PROVIDED. (24V PLANT WITH METERS)	DA	11		T-82646-30	(5)	Z	
12	EQUIPMENT REQUIRED IN ADDITION TO LIST 8 WHEN LIST 5 IS PROVIDED. (48V PLANT WITH METERS)	DA	12		T-82646-30	(5)	W	
13	EQUIPMENT REQUIRED IN ADDITION TO LIST 5 TO PROVIDE AN AMPMETER FOR USE WITH A POWER PLANT WITH A	DA	13	50	AMPERE DISCHARGE CAPACITY	T-82646-30	(5)	HA
14		DA	14	100				HB
15		DA	15	150				HC
16		DA	16	200				HD
17		DA	17	300				HE
18		DA	18	400				HF
19		DA	19	600				HG
20		DA	20	800				HH
21	UNASSIGNED	DA	21					
22	EQUIPMENT REQUIRED IN ADDITION TO LIST 3 OR 4 TO PROVIDE AN INTERNAL SHUNT FOR USE WITH A POWER PLANT WITH A	DA	22	50	AMPERE DISCHARGE CAPACITY	T-82646-30	(4) OR (7)	HJ
23		DA	23	100				HK
24		DA	24	150				HL
25		DA	25	200				HM
26	EQUIPMENT REQUIRED IN ADDITION TO LISTS 6, 7 & 8 TO PROVIDE A MICROPROCESSOR ADJUNCT BOARD. (SEE NOTES 9, 54, 55, 56 & 59)	DA	A			T-82646-30	9	P
27	EQUIPMENT REQUIRED IN ADDITION TO LIST A TO PROVIDE A 300/1200 BAUD MODEM. (SEE NOTES 55 & 57)	DA	B			T-82646-30	10	N
28	WIRING ALWAYS REQUIRED IN ADDITION TO LISTS 6, 7 & 8 (SEE NOTE 58).	DA	C					
29	EQUIPMENT ALWAYS REQ'D IN ADDITION TO LIST 1, 2, 3 OR 4 TO PROVIDE AKWIB	DA	D			T-82646-30	(1)	H OMIT J OR K

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A  
B  
C  
D  
E  
F  
G  
H  
J  
K  
L



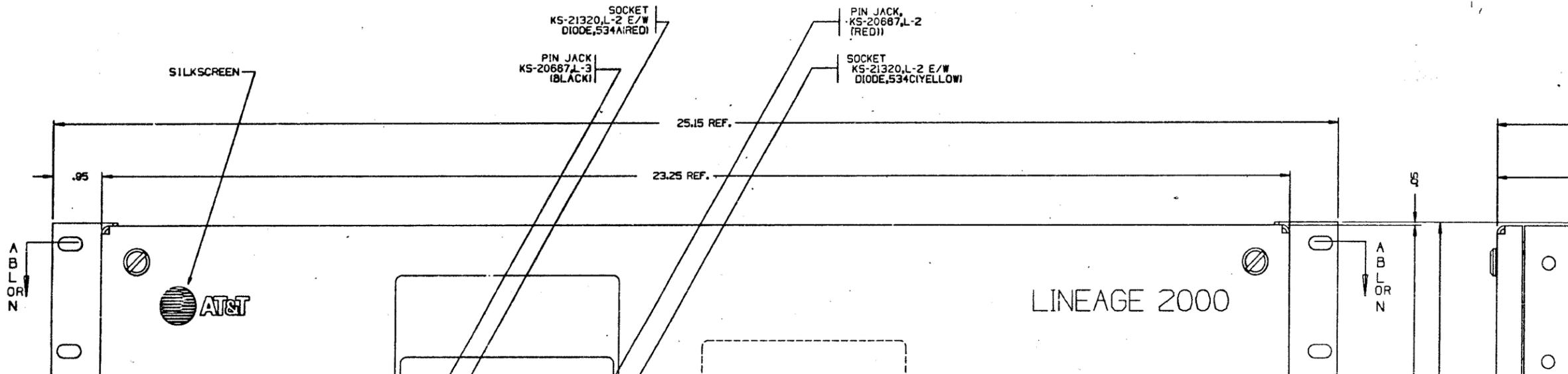
SOCKET KS-21320,L-2 E/W DIODE,534(RED)

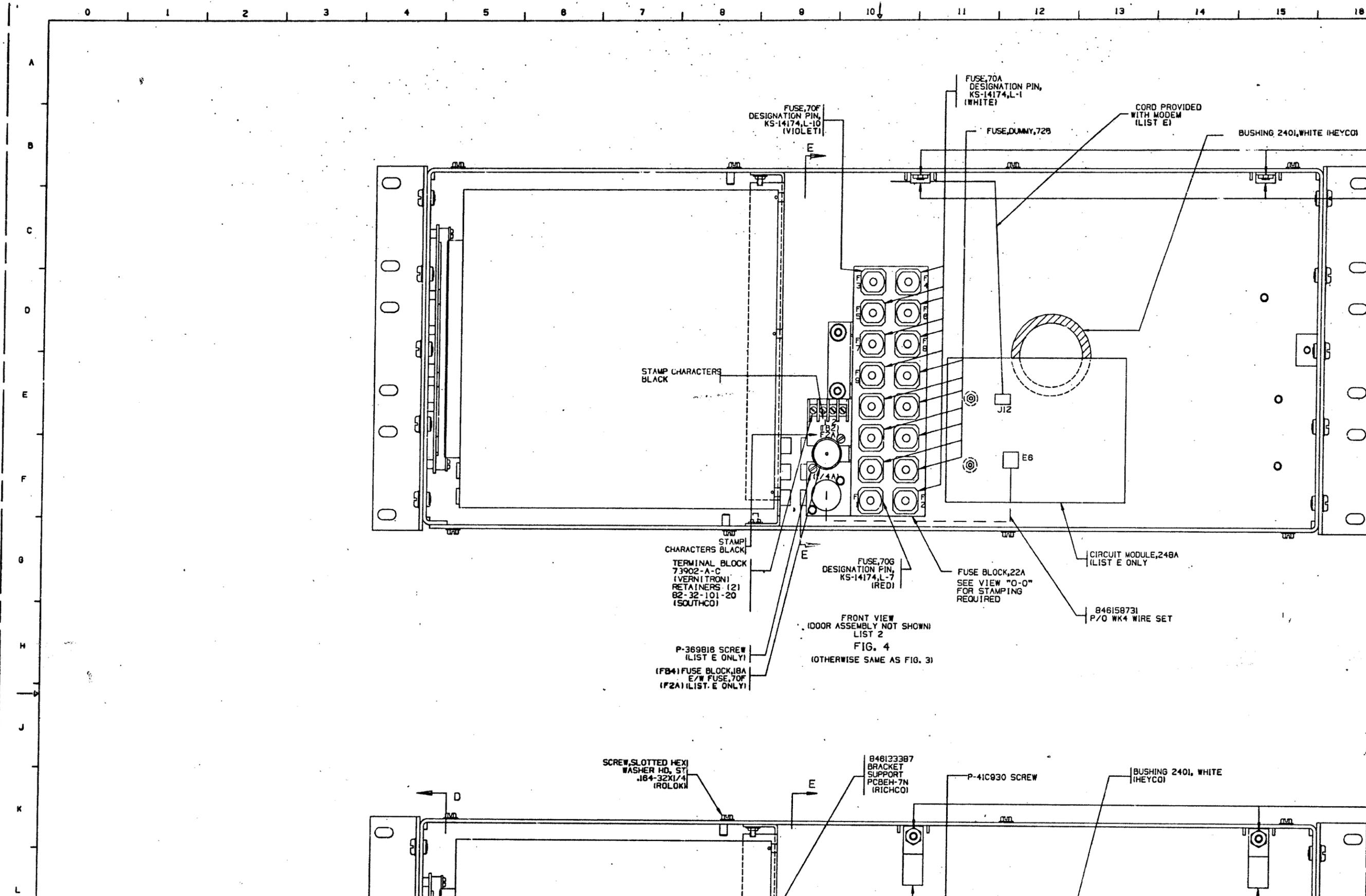
845160309 FACEPLATE, MARKED (LIST 5)

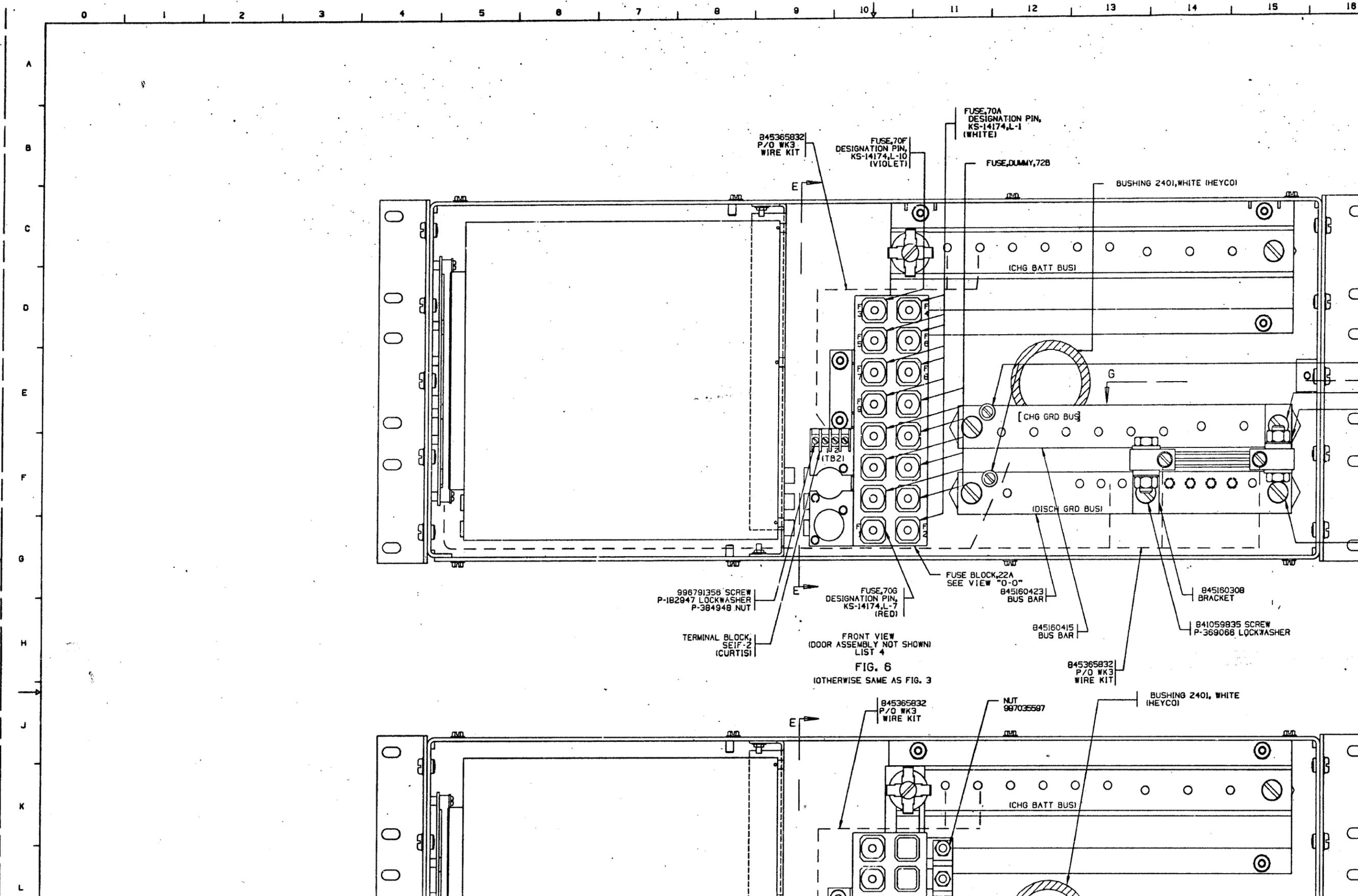
SOCKET KS-21320,L-2 E/W DIODE,534(YELLOW)

ISEE NOTE 4)  
FRONT VIEW  
FIG. 2  
LIST 5  
(OTHERWISE SAME AS FIG. 1)

BEST AVAILABLE



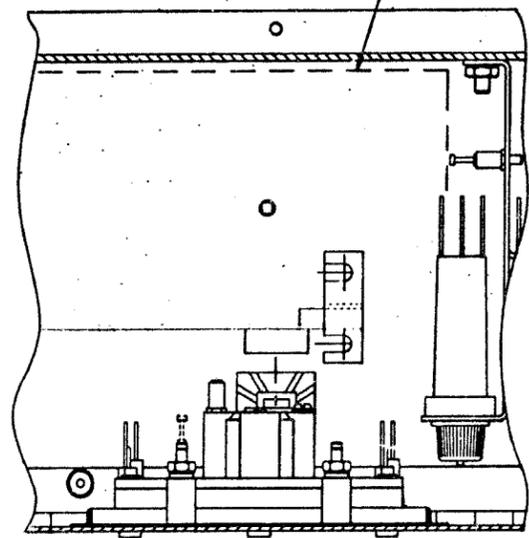




0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A  
B  
C  
D  
E  
F  
G  
H  
J  
K

845365816 WK1  
WIRE KIT  
(PATH SAME AS IN  
SECTION B-B BELOW).



SECT. C-C  
(LIST 1,5 SHOWN)

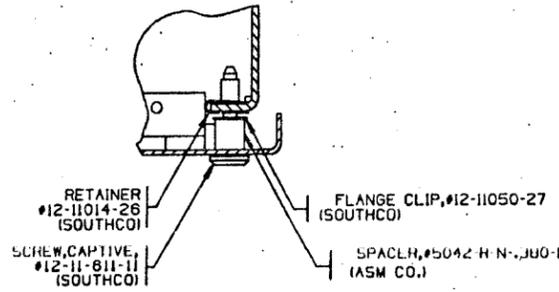
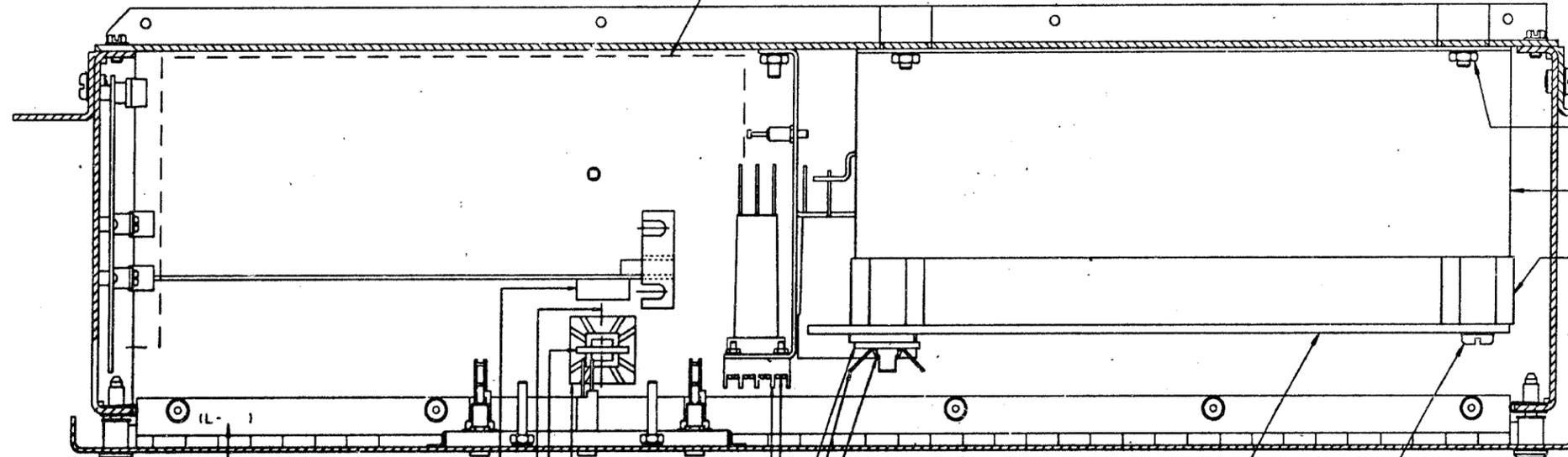


FIG. A  
(TYPICAL)

845365816 WK1  
WIRE KIT



(LIST 3 SHOWN)  
SECT. B-B

NUT  
997035597

845160448  
CHANNEL

STANDOFF INSULATOR,  
2165-1A  
(GLASTIC)

STAMP LIST

845365790 WIRE ASSEMBLY  
SEE NOTE 8  
WIRE TIE, WIT-18S (RICHCO)  
TIEHOLDER, FTH-7A (RICHCO)

TERMINAL BLOCK, SEIF-2  
(CURTIS)  
814939187 SCREW  
P-182947 LOCKWASHER  
P-384948 NUT  
RETAINING WASHER,  
#258-.093-S-31  
(ASM CO.)

841059868 SCREW  
841661721  
TERMINAL

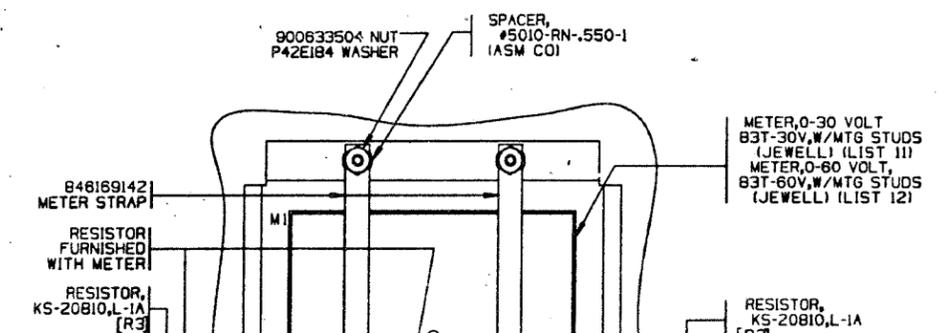
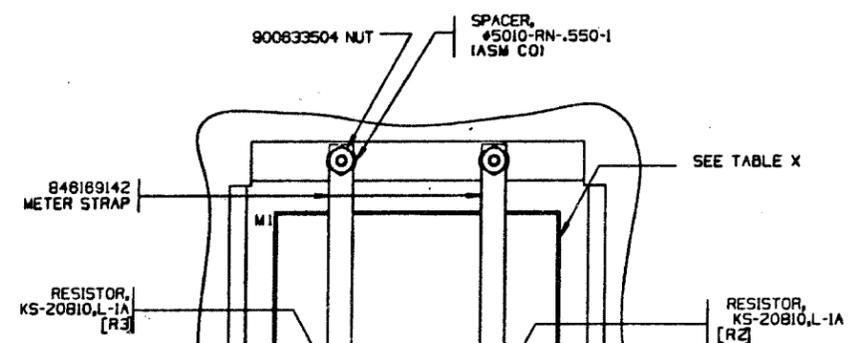
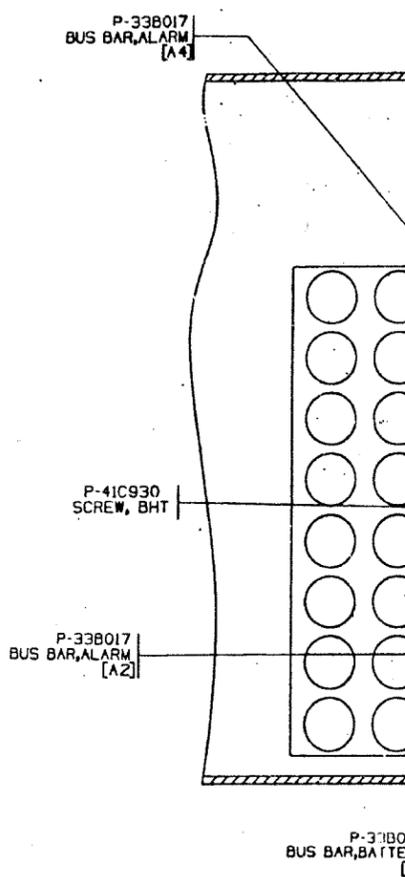
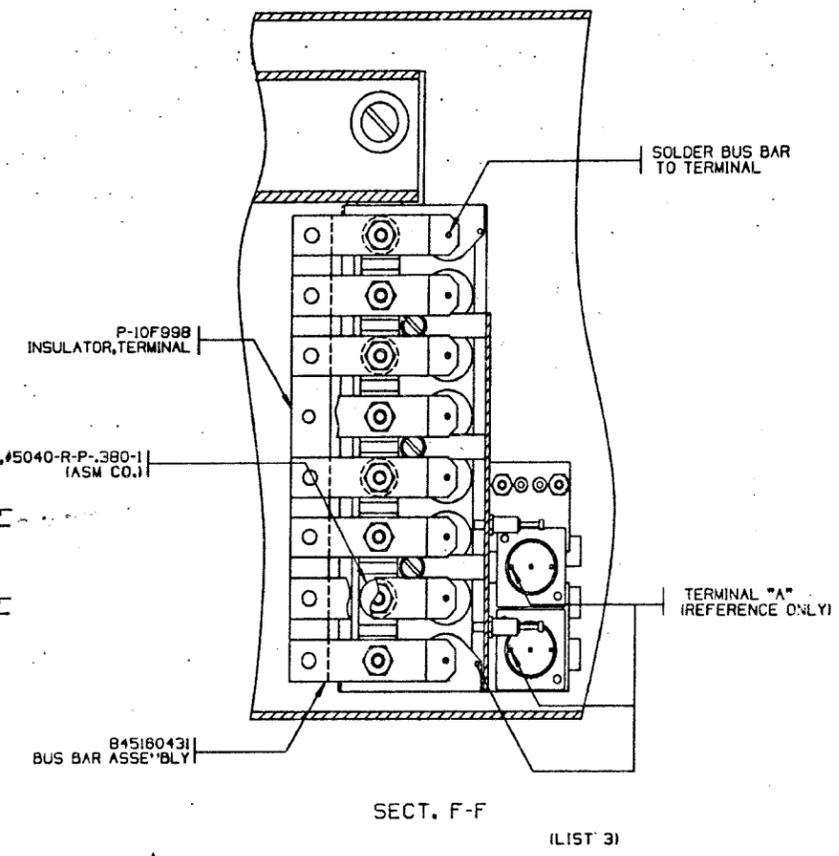
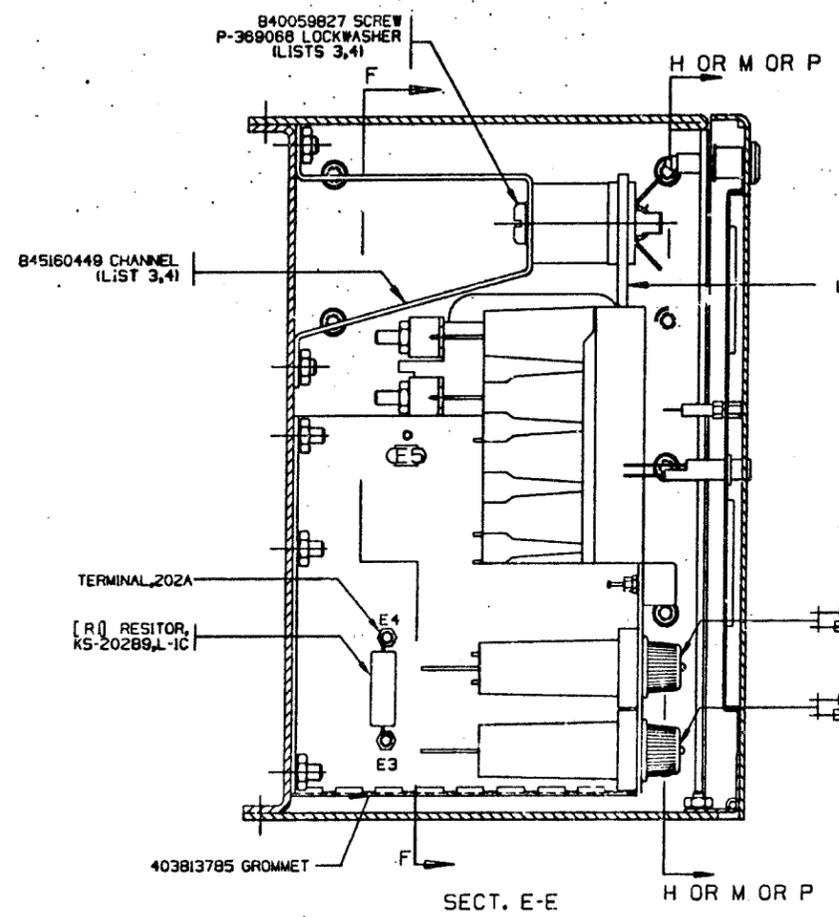
845180407  
BUS BAR

841059827 SCREW  
P-369066 LOCKWASHER

NUT  
997035597

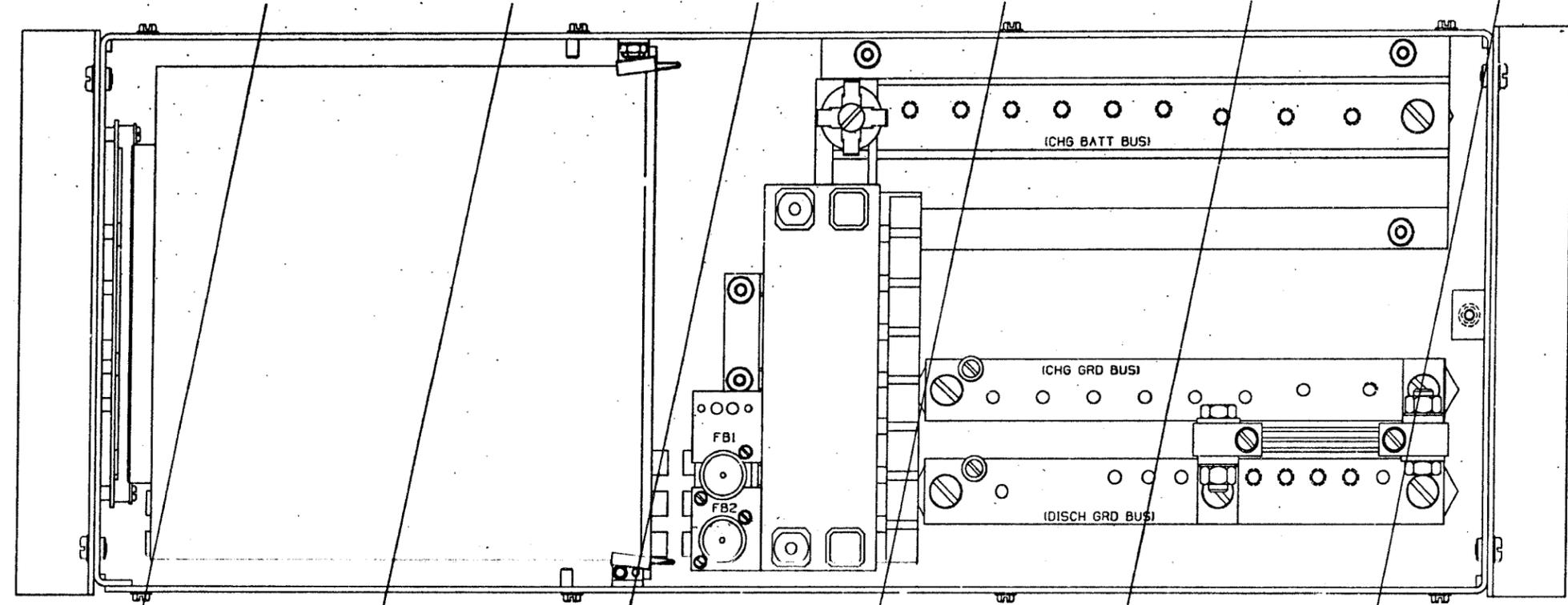
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

A  
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K  
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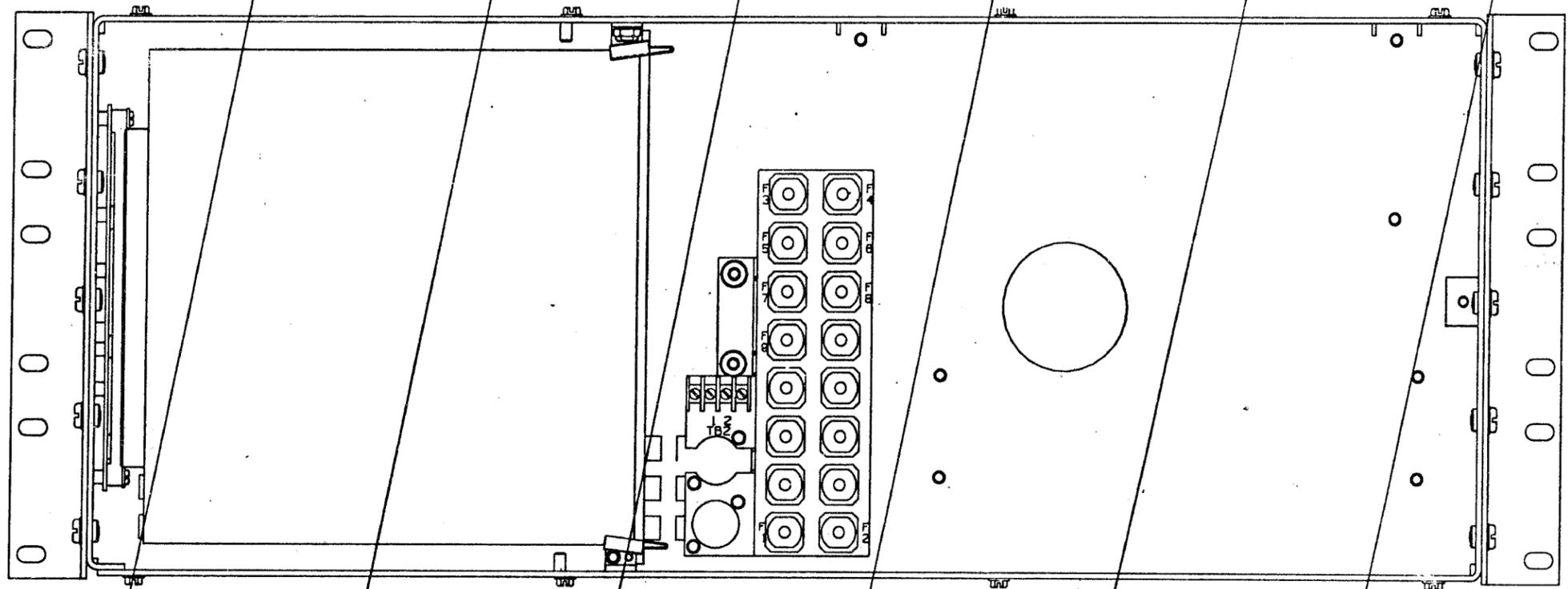


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A  
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K  
L

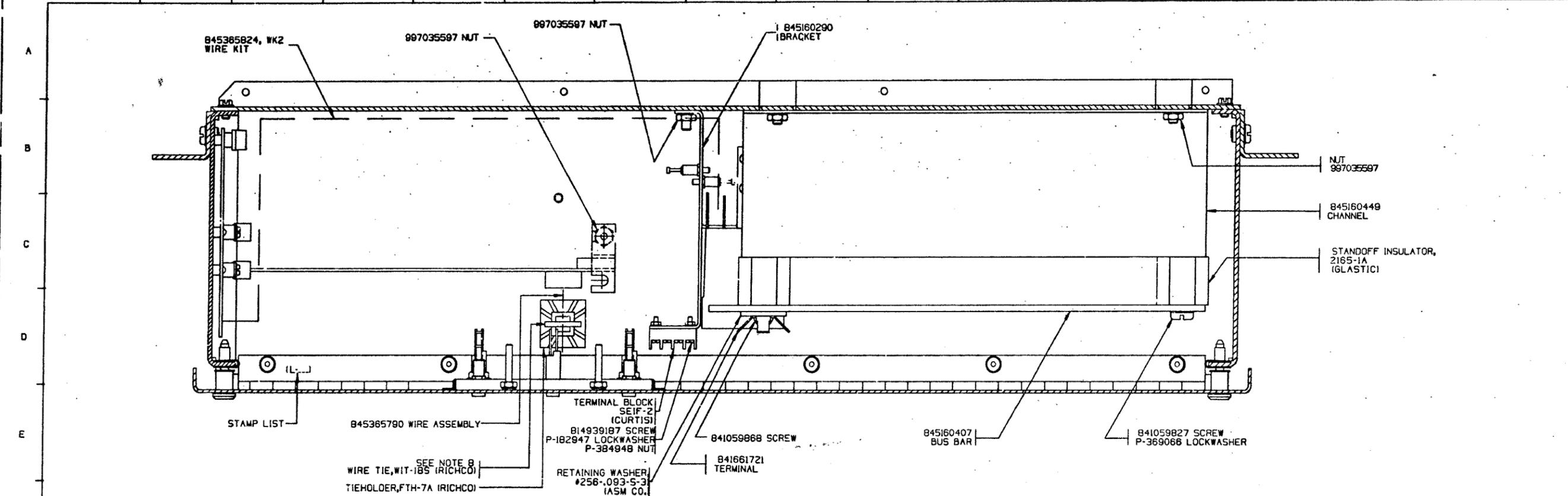


(SEE NOTE 5)  
FIG. WC

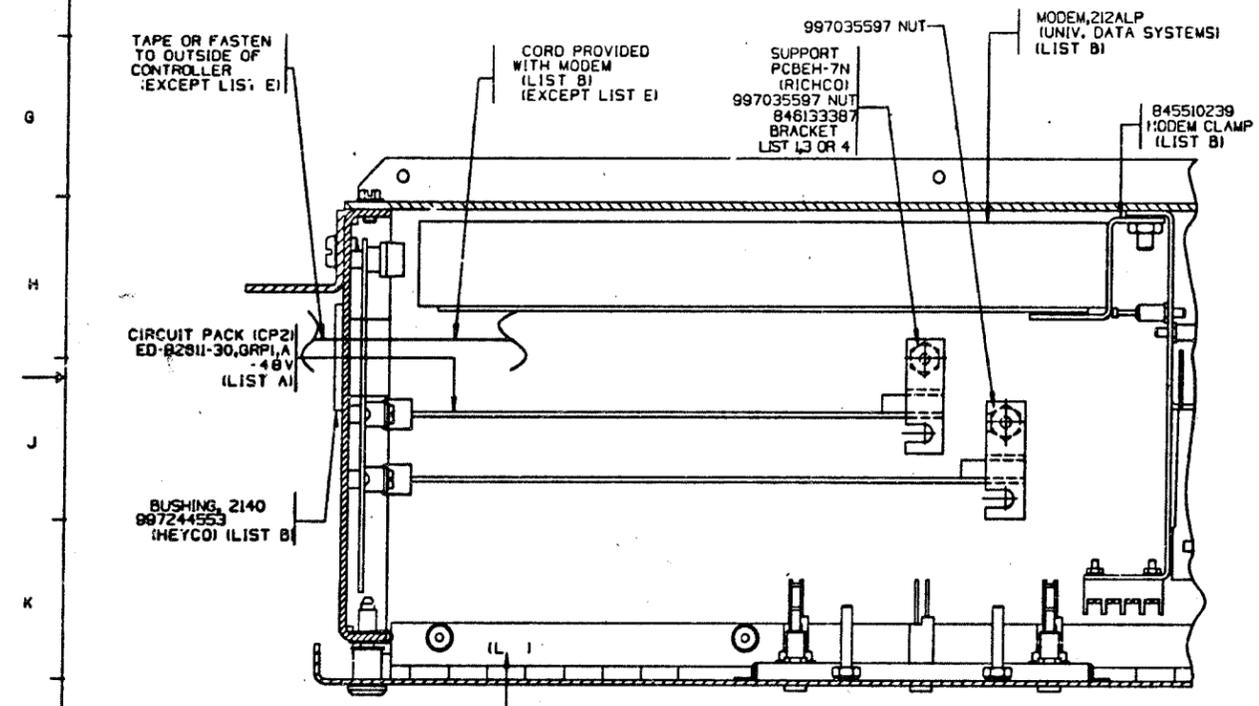


(SEE NOTE 5)

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



(LIST 4 SHOWN) SECT. L-L



(LIST A & B SHOWN) SECT. N-N

BEST AVAILABLE DRAWING

STOCKLIST									
ITEM	LIST	QUAN PER LIST	IDENTIFICATION NO.		DESCRIPTION	REFERENCE	NOTE	LINE	
			COMCODE	DRAWING			SYM NO.		
	C	1		ED-83178-30	OPTION BOARD	CWI		98	101
	6	1		ED-83178-30	OPTION BOARD	CWI			
	7	1		ED-83178-30	OPTION BOARD	CWI			105
	8	1		ED-83178-30	OPTION BOARD	CWI			
B	6	OMIT 1		ED-83178-30	OPTION BOARD	CWI			110
	6	1		ED-83178-30	OPTION BOARD	CWI			
	7	OMIT 1		ED-83178-30	OPTION BOARD	CWI			
	7	1		ED-83178-30	OPTION BOARD	CWI			115
C	8	OMIT 1		ED-83178-30	OPTION BOARD	CWI			
	8	1		ED-83178-30	OPTION BOARD	CWI			
	8	1		ED-83178-30	OPTION BOARD	CWI			120
A	1	1		ED-82611-30	MICROPROCESSOR	CP2			
	1	1		ED-82611-30	MICROPROCESSOR	CP2			
A	1	1	105313373	ED-82611-30	MICROPROCESSOR	CP2			125
	1,2,3,4	1	105538003	ED-82611-30	MICROPROCESSOR	CP2			130
	1,2,3,4	2	841768153	841768153	MICROPROCESSOR	CP2			135
A	1	1	845674910	845674910	MICROPROCESSOR	CP2			140
	1,2,3,4	1	845160357	845160357	MICROPROCESSOR	CP2			145
	3	1	811069988	811069988	MICROPROCESSOR	CP2			150
	8	1	845510239	845510239	MICROPROCESSOR	CP2			155
	1,3,4	1	845160290	845160290	MICROPROCESSOR	CP2			160
	3,4	2	845160308	845160308	MICROPROCESSOR	CP2			165
F	1,3,4	2	846133387	846133387	MICROPROCESSOR	CP2			170
	3,4	1	845160407	845160407	MICROPROCESSOR	CP2			175
	3,4	1	845160415	845160415	MICROPROCESSOR	CP2			180
	3,4	1	845160423	845160423	MICROPROCESSOR	CP2			185
G	2,4	4	813320173	813320173	MICROPROCESSOR	CP2			190
	3	8	845160431	845160431	MICROPROCESSOR	CP2			195
	2,4	2	813320488	813320488	MICROPROCESSOR	CP2			200
	1,2,3,4	1	846475168	846475168	MICROPROCESSOR	CP2			205
	2	1	84643418	84643418	MICROPROCESSOR	CP2			210
	5	OMIT 1	846475168	846475168	MICROPROCESSOR	CP2			215
	1,2,3,4	1	845160365	845160365	MICROPROCESSOR	CP2			220
	1,3,4	1	848159663	848159663	MICROPROCESSOR	CP2			225
H	3,4	1	845160449	845160449	MICROPROCESSOR	CP2			230
	2	1	846488383	846488383	MICROPROCESSOR	CP2			235
	2	1	848448728	848448728	MICROPROCESSOR	CP2			240
	1,2,3,4	1	104184122	104184122	MICROPROCESSOR	CP2			245
D	OMIT 1	1	104184122	104184122	MICROPROCESSOR	CP2			250
	0	1	10872138	10872138	MICROPROCESSOR	CP2			255
J	1,2,3,4	1	845160373	845160373	MICROPROCESSOR	CP2			260
	1,2,3,4	1	845160381	845160381	MICROPROCESSOR	CP2			265
	5	OMIT 1	845160381	845160381	MICROPROCESSOR	CP2			270
	5	1	845160399	845160399	MICROPROCESSOR	CP2			275
K	2,4	1	848199208	848199208	MICROPROCESSOR	CP2			280
	1,2,3,4	1	845366774	845366774	MICROPROCESSOR	CP2			285
	1,2,3,4	1	845511138	845511138	MICROPROCESSOR	CP2			290
	1,2,3,4	1	846250719	846250719	MICROPROCESSOR	CP2			295
	1,2,3,4	1	845676048	845676048	MICROPROCESSOR	CP2			300
	5	2	845160340	845160340	MICROPROCESSOR	CP2			305
	5	2	848189142	848189142	MICROPROCESSOR	CP2			310
L	1,2,3,4	2	840227110	840227110	MICROPROCESSOR	CP2			315
	5	OMIT 2	840227110	840227110	MICROPROCESSOR	CP2			320

STOCKLIST									
ITEM	LIST	QUAN PER LIST	IDENTIFICATION NO.		DESCRIPTION	REFERENCE	NOTE	LINE	
			COMCODE	DRAWING			SYM NO.		
	2,4	7	401922058		PIN, DESIGNATION				230
	2,4	1	401922109		PIN, DESIGNATION				235
	3	8	401922109		PIN, DESIGNATION				
	2,4	1	401922125		PIN, DESIGNATION				240
	1,2,3,4	1	400739199		PIN, JACK, KS-20667, L-2	J7			245
	1,2,3,4	1	400739207		PIN, JACK, KS-20667, L-3	J8			
	1,2,3,4	1	846306872	846306872	LEAD, GROUND ASM				250
	1,2,3,4	1	401256417		JACK, 101 BANANA				
	1,2,3,4	1	996865887		RESISTOR, KS-20289, L-1C	R1			
	2,4	1	400764460		RESISTOR, KS-20289, L-6C	R4			255
	1,2,3,4	2	401137146		RESISTOR, KS-20810, L-1A	R2, R3			
	1,2,3,4	3	401275896		RESISTOR, KS-20810, L-1A	R2, R3			260
	1,2,3,4	5	403851678		RESISTOR, KS-20810, L-1A	R2, R3			265
	A	2	403851678		RESISTOR, KS-20810, L-1A	R2, R3			
	2	2	401384904		RESISTOR, KS-20810, L-1A	R2, R3			270
	E	2	801098963	P-109896	RESISTOR, KS-20810, L-1A	R2, R3			275
	1,2,3,4	2	403846991		RESISTOR, KS-20810, L-1A	R2, R3			280
	3	1	900670159		RESISTOR, KS-20810, L-1A	R2, R3			
	5	4	403846801		RESISTOR, KS-20810, L-1A	R2, R3			285
	2	1	405044140		RESISTOR, KS-20810, L-1A	R2, R3			
	1,3,4	1	403883640		RESISTOR, KS-20810, L-1A	R2, R3			290
	1	2	896233028	896233028	RESISTOR, KS-20810, L-1A	R2, R3			295
	2	3	402105357		RESISTOR, KS-20810, L-1A	R2, R3			300
	22	1	403783012		RESISTOR, KS-20810, L-1A	R2, R3			
	23	1	403758978		RESISTOR, KS-20810, L-1A	R2, R3			305
	24	1	403851688		RESISTOR, KS-20810, L-1A	R2, R3			
	25	1	403028408		RESISTOR, KS-20810, L-1A	R2, R3			310
	8	1	405107087		RESISTOR, KS-20810, L-1A	R2, R3			315
	1,2,3,4	1	403746100		RESISTOR, KS-20810, L-1A	R2, R3			320
	1,2,3,4	1	405018532		RESISTOR, KS-20810, L-1A	R2, R3			

STOCKLIST									
ITEM	LIST	QUAN PER LIST	IDENTIFICATION NO.		DESCRIPTION	REFERENCE	NOTE	LINE	
			COMCODE	DRAWING			SYM NO.		
	1,2,3,4	B	402992457		CABLE TIE, PRTI.55				360
	1,2,3,4	3	401811401		CABLE TIE, PRTI.55				365
	1,3,4	2 FT	403917313		CABLE TIE, PRTI.55				
	1,3,4	6 INCH	403814378		CABLE TIE, PRTI.55				370
	1,2,3,4	2	900746553		CABLE TIE, PRTI.55				375
	1,2,3,4	2	402844955		CABLE TIE, PRTI.55				
	1,2,3,4	2	900709452		CABLE TIE, PRTI.55				380
	1,2,3,4	10	900753302		CABLE TIE, PRTI.55				385
	2,4	1	400764460		CABLE TIE, PRTI.55				390
	1,2,3,4	2	401137146		CABLE TIE, PRTI.55				395
	1,2,3,4	3	401275896		CABLE TIE, PRTI.55				400
	1,2,3,4	5	403851678		CABLE TIE, PRTI.55				405
	A	2	403851678		CABLE TIE, PRTI.55				
	2	2	401384904		CABLE TIE, PRTI.55				410
	E	2	801098963	P-109896	CABLE TIE, PRTI.55				415
	1,2,3,4	2	403846991		CABLE TIE, PRTI.55				420
	3	1	900670159		CABLE TIE, PRTI.55				425
	5	4	403846801		CABLE TIE, PRTI.55				
	2	1	405044140		CABLE TIE, PRTI.55				430
	1,3,4	1	403883640		CABLE TIE, PRTI.55				435
	1	2	896233028	896233028	CABLE TIE, PRTI.55				440
	2	3	402105357		CABLE TIE, PRTI.55				445
	22	1	403783012		CABLE TIE, PRTI.55				
	23	1	403758978		CABLE TIE, PRTI.55				450
	24	1	403851688		CABLE TIE, PRTI.55				
	25	1	403028408		CABLE TIE, PRTI.55				455
	8	1	405107087		CABLE TIE, PRTI.55				460
	1,2,3,4	1	403746100		CABLE TIE, PRTI.55				465
	1,2,3,4	1	405018532		CABLE TIE, PRTI.55				