SHEET INDEX - SD DWG & T DWG SHEET ISSUES ARE IN AGREEMENT AS FOLLOWS					
SCHEMATIC	ISSUE				
SD-82588-01	6	1	1 MOD		6

WIRING DIAGRAM		ISSUE																											
AUTC CHG	SH NO.																												
1KY1	A1	24	25	26	27	28	29	30		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		31	32	33
AH1	A2	24	25	26	27	28	29	30									16	17	18	18	20	21	22	23		31	32	33
	B1	23	23	26	26	26	29	29		9	9	11	11	11	11	11	16	17	17	17	17	17	17	23		29	29	29
	B2	23	23	23	23	23	23	23		9	9	11	11	11	11	11	16	16	16	16	16	16	16	23		29	29	33
	B3	23	23	23	27	27	27	27		9	10	11	11	11	11	11	11	11	18	18	18	18	18	23		29	29	33
	B4	23	25	25	27	27	27	27		9	9	11	12	12	12	12	16	16	16	16	20	21	21	23		31	32	32
	B5	23	23	26	27	27	27	27		8	8	8	8	13	14	14	16	16	16	16	20	20	22	23		27	27	33
	B6	23	23	23	23	23	23	23		4	4	4	4	13	13	15	15	15	15	15	15	15	15	23		23	23	23
	B7	14	14	14	27	28	28	28		9	9	11	11	11	14	14	14	14	14	14	14	14	14	14		28	28	28
	B8	24	24	24	24	24	24	30		8	10	10	10	10	10	10	10	10	10	10	10	10	22	22		30	30	30
	B9	14	14	14	14	14	14	14		9	9	9	9	9	14	14	14	14	14	14	14	14	14	14		14	14	14
	B10	23	25	25	27	27	27	27		-	-	-	-	-	-	-	-	-	-	-	-	21	22	23		27	27	33
	B11	23	23	26	27	27	27	27		-	-	-	-	-	-	-	-	-	-	-	-	-	-	23				26

TABLE G			
PIGTAIL COMPONENT TABLE			
FUNCT DES	CODE	VALUE	OPTION
R1	KS-20810,L-1A RES	3.83K OHM	W
		1.96K OHM	Z
R2		3.83K OHM	W
		1.96K OHM	Z
R3		3.83K OHM	W
		1.96K OHM	Z
R4		3.83K OHM	W
		1.96K OHM	Z
R5		5K OHM	
R6		5K OHM	
R7		3.83K OHM	W
		1.96K OHM	Z
CR1	WP-90062	–	ZI
CR2	D100E	–	ZI

LINE	FIG	OPT	FIG	WRG	APP	REMARKS
	SD-82588-01		T-82588-30			
	FS9	ZN	(2)		ZN	SEE NOTE 67
40	2	ZL	(2)		ZL	
	1,(F)	ZK			ZK	
	1,(F)	ZJ			ZJ	
		K,ZB	G			
		D		D		
35		ZI		ZI		
		ZH		ZH		
		ZG	(2)	ZG		
		ZE		ZE		
		ZD	(2)	ZD		
30		ZC		ZC		
		ZB		ZB		
		ZA	(1)	ZA		
	(CAD 1)	P	H14			
	(CAD 5)	ZC	H13			
25	(CAD 5)	ZC	H12			
	2(CAD 1)	P	H11			
	2(CAD 5)	ZC	H10			
		S,U	H9			
		S,U	H8			
20		S,U	H7			
		S,U	H6			
		S,U	H5			
	(CAD 4)	J		J		
		H	(1)	H		
15		R	H4	R	R	
		R	H3	R	R	
		B			B	
		A	(A)		A	
			F			
10			E			
			D			
			C			
	(CAD1)	W	H2	Z		
	(CAD1)	Z	H1	W		
5		F	B			
		F	A			
	(CAD 2)	G,V,T,RU	2	G,T RU		
1	1,(CAD1)		1			

SCHEMATIC FIGURES AND OPTIONS AGREE WITH SIMILARLY DESIGNATED WIRING DIAGRAM FIGURES AND OPTIONS EXCEPT AS SHOWN ABOVE. WE ASSIGNED FIGURES AND OPTIONS ARE PREFIXED WITH LETTER H AND HAVE NO SCHEMATIC EQUIV UNLESS SHOWN ABOVE. ITEMS IN ( ) PARENTHESES ARE FOR INFORMATION ONLY AND ARE NOT TO BE RECORDED ON JOB WIRING LIST DRAWINGS.

TABLE C - SD T DWG CROSS REFERENCE TABLE

CA | CB | CC | CD | CE | CF

CHANGED ON ISSUE	SPECIFY	DO NOT SPECIFY	THIS OPTION WAS FURNISHED	SEE NOTE	AVAIL		DA	
	IF OFFICE RECORDS				RATING			
31	FIG 2	ZM OPT	ZL OPT		ZL		ZM	
28	FIG F	ZK OPT	ZJ OPT		ZK		ZJ	
23	FIG 1	ZI OPT	NONE					
		ZB OPT	ZA OPT		ZB		ZA	
	FIG 2	ZC OPT	NONE		ZC			
		P OPT	NONE		P			
		ZE OPT	ZD OPT		ZE		ZD	
		ZH OPT	HM,HN,ZG OPT		ZH		HM,HN, ZG	
	FIG A	D OPT	A OR B OPT		D		A,B	
19	FIG 2	U OPT	NONE		U			
18	FIG 2	R OPT	G OPT		R,G			
17		J OPT	H OPT		J		H	
15	FIG A	B APP	A APP		B		A	
9		FIG F	FIG E		F		E	
9		FIG D	FIG C		D		C	
4		FIG B	FIG A		A,B			
2	FIG 2	T APP	NONE		T			

TABLE B - RECORD OF FIGURES COMPONENTS AND WIRING CHANGE

FIG	OPT	SHEET
G		B11
H13,H14		B10
H10,H		
H7,H8,H9		
H6	T	
H5	U	
H2	Z	B9
H1	W	B9
E	HR,HS	29
B	HG	B8
	WX,Y,Z	B8
F	HS,HT	B7
A,H		B7
	Z,HA	B6
	A,B,D,U	B6
H3,H4	R	B5
2	G,W,Z	B5
	ZG,ZH,ZN	B4
	ZC,ZD,ZE	B4
2	HM,HN,ZL,ZM	B4
	P,R,T,U,V	54
D		B3
1	ZI	33
1	W,X,Y,Z	B2
1	ZA,ZB	B1
	H,J,Z,W	B1

TABLE D - SHEET LOC OF FIGURES & OPTIONS

MANUFACTURING NOTES (CONTINUATION)
CONVENTIONS

SHOP	INSTL	NOTE
	X	9-ALL WIRING FROM SHUNTS TO THE 845653286 AND 845653294 CABLE ASSEMBLIES (ON THE BACKPLANE OF THE CONTROLLER) IS TO BE RUN BY THE INSTALLER. THIS INCLUDES CRIMP CONNECTIONS THAT MUST BE MADE AT THE BUTT SPLICE OF THE FUSE HOLDER ASSEMBLY AND AT THE QUICK-CONNECT RECEPTACLES OF THE BACKPLANE CABLE ASSEMBLIES,O & R TWISTED PAIR, KS-22247, L4 20GA ST, OR EQUIVALENT, SHALL BE USED.
	X	10-THE AMP CONNECTOR P9C+ OR P9C- OF THE 845653674 FUSE HOLDER ASSEMBLY IS COMPATIBLE WITH TERMINALS 12 & 13 OF KS-22012 SHUNT-TYPE CIRCUIT BREAKERS. FOR THE MONITORING OF OTHER TYPES OF SHUNTS, THIS CONNECTION MAY BE CUT OFF AND REPLACED WITH A SUITABLE SUBSTITUTE SUCH AS A 224 OR A18-8FL STAKON TERMINAL DURING INSALLATION.
	X	11-WHEN CONNECTING TO BACKPLANE IN FIG 1 OR FIG 2 INSTALLER MUST IDENTIFY THE BLUE POST IN MIDDLE OF 127C APPARATUS MOUNTING AS TERM 012 & 112 OR 044 & 144 AS SHOWN IN FIGURES. 1&2.
X	X	12-DATA SWITCH PORT WIRING, WIRES (20 TO 22 AWG, STR) SHALL BE RUN, IN GENERAL, BY THE INSTALLER FROM EACH PIGTAIL OF AN H-285-224, L195 CABLE ASSEMBLY TO THE PIGTAIL OF CORRESPONDING COLOR ON THE L196 OR L197 CABLE ASSEMBLY (E.G. R TO R, W-R TO W-R, ETC. HOWEVER, THE FOLLOWING EXCEPTIONS APPLY; (A) FOR MCS REMOTE MONITOR TO DATA SWITCH CONNECTION THE R AND W-R LEADS ON THE L195 CABLE ASSEMBLY ARE NOT USED. (B) WHEN CONNECTING TO THE REMOTE INTERFACE IN THE SAME J85501A CONTROLLER AS THE DATA SWITCH, CUT OFF AND DISCARD THE THREE BUTT SPLICES AMP 2-320559-4, ~~2-34067-1~~ ON THE L196 CA ASSEMBLY STRIP & CRIMP THE BL & W-BL WIRES DIRECTLY TO THE PIGTAIL OF THE CORRESPONDING L195 CA ASSEMBLY. REFER TO NOTE 16 FOR G WIRE TERMINATION.
		13-INSTALLER SHALL CONNECT WIRE PER FIG H14 TO THE H285-226 L-1 CABLE ASSEMBLY USING 2-520183-2 FASTON CONNECTOR (AMP) FURNISHED WITH THE CABLE ASSEMBLY.
	X	14-(A) CONNECTION BETWEEN THE "TELCO" JACK ON THE DATA SET AND TELEPHONE LINE SHALL BE MADE USING CUSTOMER PROVIDED CORD AND PLUG. (M4AS CORD & PLUG OR EQUIV MAX 25 FT) (B) CONNECTION BETWEEN THE "TEL SET" JACK ON THE DATA SET ASSEMBLY FURNISHED WITH THE DATA SET.
		15-INSTALLER SHALL MOUNT THE (RT1) THERMISTOR ASSEMBLY TO (J85504A-1) SPARE HOLE IN BATTERY POST NEAREST GROUND POTENTIAL. (A) REMOVE SCREW AND WASHER FROM THERMISTOR AND REUISE TO SECURE THERMISTOR ASSEMBLY TO BATTERY POST. (B) CABLE ASSEMBLY SHALL BE TIE WRAPPED TO NEAREST BATTERY CABLE WITH 403746100 CABLE TIE. (C) WIRING RUN PER FIG H13 SHALL BE CRIMPED TO BUTT SPLICE ON H285-226 L-2 CABLE ASSEMBLY AND 845957406 THERMISTOR ASSEMBLY.
	X	16-FOR ALL REMOTE MONITOR TO DATA SWITCH CONNECTIONS, CRIMP H-285-224, L196 OR L197 CABLE ASSY TWO WIRES MAY BE INSERTED IN ONE END OF A BUTTSPLICE OF A L195 CABLE ASSY.

MANUFACTURING NOTES
CONVENTIONS

- CABLE
- SPADE TERMINAL
- SCREW CONNECTION
- DIVISION OF GENERAL WIRING VIEWS

SHOP	INSTL	NOTE
		1-ALL WIRES TO BE KS-22247, ~~L-1~~ L4 26GA SOLID UNLESS OTHERWISE SPECIFIED.
X	X	2-963 TYPE CONNECTORS SHALL BE CONNECTED TO THE BACKPLANE IN SUCH A MANNER AS TO CAUSE THE ARROW TO POINT UPWARD, (BLACK PORTION OF CONNECTOR ON THE LEFT).
	X	3-THE INSTALLER SHALL STRAP THE BACKPLANE BOARD IN ACCORDANCE WITH SHUNT SIZES PROVIDED ON THE BATTERY STAND. STRAPPING SHALL BE ACCOMPLISHED USING THE 963E-2 CONNECTORS FURNISHED AND IN ACCORDANCE WITH THE TABLE BELOW:

SHUNT SIZE IN AMPS	CONNECT 963E-2 CONNECTORS TO TERMINALS
05	0,3
100	3
150	0,1,2
200	1,2
400	0,1,2& 3
600	1,2,3
800	0,2,3
1200	2,3
1500	0,2
2000	0,1,3
2500	1,3
3000	2
4000	0,1
5000	1
6000	0
8000	NO STRAPS [illegible]

SEE SD-82588-01 NOTES 110&301

SHOP	INSTL	NOTE
		4-INFORMATION IN BRACKETS [ ] IS FOR RECORD ONLY AND REPRESENTS COLORS USED IN EARLY PRODUCTION.
	X	5-NO WIRES ON THIS DRAWING ARE TO BE RUN BY THE INSTALLER EXCEPT WIRES DESIGNATED ø IN FIG 1 AT (TB2) TERM STRIP, WIRES DESIG ø IN FIG.H4 AND ALL WIRES IN FIG H7,H9,H12,H13 & H14.
		6-ALL WIRING TO BE KS-22247,L4 26 GAUGE WIRE COLOR ~~GREEN~~ WHITE WIRE CONNECTION SHALL BE TO BASE OF TERM CLOSE TO BOARD AND RUN IN THE MOST CONVENIENT MANNER.
		7-AT - WIRES NOT TO BE CONNECTED UNTIL AFTER SHOP TESTS ARE COMPLETED.

ND085501KY1 5-3-83 | 1

ON SH A1 IN NOTE 1 26GA READ 24GA. IN NOTE 5 "EXCEPT WIRE" ETC ADDED. THRU-OUT DWG 26GA RMVD. ON SH B1 AT (TB1) TERM BLK & (TB2) T.S. BRKT TO CHG & DISCHG CKT READ FROM, AT (TB2) BLK ø DES ADDED & ON ALL LEADS KS-5482-01 12GA STRANDED ADDED. AT (P3) MC-30013A-1 PWB READ MC-30013 PWMQ OOA PWB. ON SH B2 AT TERMS E3 & E4 LEADS WERE DES STRAP. ON SH B5 T OPT ADDED.
6-9-83 CLASS AD | 2

ON SH A1, NOTE 6 & 54 ADDED IN FIG 1 ON SH B1 AT (TB1) TERM BLK WIRES TERMS 19 & 20 WERE NOT SO DESIG "AT". AT (TB2) TERM BLK, TERM 3, WIRE FROM CHG & DISCHG CKT ADDED. ON SH B3 FUNCT DESIG ADDED TO CONNECTORS AT THE H-285-224 CA ASSY & ASSOC MATING INFO ADDED AT (P3), (CP1) & (CP3) PWB. (J3-1) CONN ASSY WAS SHOWN MATING WITH (P4) CONN. IN NOTE 3, TABLE CHG'D
12-6-83 CLASS B | 3

ON SH A1 NOTE 7 & TABLE G ADDED. FIG A WAS PART OF FIG 1, FIG B ADDED.
4-30-84 CLASS B | 4

ON SH A1 NOTE 8 ADDED. ON SH B1 (TB1) TERM 22, BK 18GA LEAD ADDED. ON SH B4 FR GRD TERM BK 18GA LEAD ADDED.
10-2-84 CN3804KY CLASS A | 5

ON SH B2 AT (J8C) CONN TERMS 13&19 W-BL LINEDOUT & BL-3W ADDED. TERMS 14 & 20 W-O LINEDOUT & O-3W ADDED. TERMS 15&21 W-G LINEDOUT & G-3W ADDED. TERMS 17&22 W-BR LINEDOUT & BR-3W ADDED. TERMS 18&23 W-S LINEDOUT & S-3W ADDED. ALL LEADS DES 26BY. ON SH B3 AT (F9) FUSE W-BR LINEDOUT & BR-3W ADDED. AT (F1) W-G LINEDOUT & G-3W ADDED. AT (F11) W-BL LINEDOUT & BL-3W ADDED. AT APP LOC 22, 202A TERM W-BL LINEDOUT & BL-3W ADDED. AT (F13) W-G LINEDOUT & G-3W ADDED. AT (F5) W-O LINEDOUT & O-3W ADDED. AT APP LOC 28 202A TERM W-O LINEDOUT & O-3W ADDED & AT (F7) W-BR LINEDOUT & BR-3W ADDED. & REF TO POINT ISSUE 4.1 & 4.2.
10-2-84 CLASS B | 6

ON SH B4 FIG 1, AT (TB1) TS TERM 22 "BK, LW" TO FR GRD ON SH B4 RMV'D. ON TERM 18 "18GA STRANDED, BK, LW" TO (TB2) TERM 3 ADDED.
CN3804.1KY
9-5-85 CLASS A

ON SH A1 NOTE 3 CHG'D & INFO TO NOTES 56 & 76 ADDED. IN FIG 2 (SH B5) AT (P2), (P3), ETC BACKPLANE REF TO "HM & HN" APP ALSO "G,W & Z" APP & WRG ADDED. SH B9 INC'D FIG H1 & H2 ADDED. IN FIG B (SH B8) AT (M2) AMMETER REF TO "HB", "HC", "HD", "HE" & "HF" OPT RATED MD & "HH", "HJ", "HK", "HL" & "HP" OPT ADDED.
ND085501NJ6
9-5-85 CLASS "B" | 8

(CONTINUED)

(CONTINUATION)

FIG C WAS PART OF FIG 1, FIG D ADDED. FIG E WAS PART OF FIG 2, FIG F ADDED.
ND085501KY5
9-5-85 CLASS "B" | 9

IN FIG 1 (SH B3) AT (F15)(RB15) F. BLK "W-S" LINED OUT & "S3W" ADDED. IN FIG B AT (M2) AMMETER TERM E8 WAS NOT SO DES "TERM ON MTG LUG" & LEAD S2W WAS NOT DES "Z" WRG, "BL2R" & DES "W" WRG ADDED. REF TO "HQ, HR, HS, HT, HU & HV" OPT ADDED. AT (M1) VOLTMETER (-) TERM, LEAD "BL2R" WAS NOT DES "Z" & "S2W" DESIG "W" WRG ADDED.
ND085501NJ8 POINT ISS 6.1 & 6.2
9-5-85 CLASS "B" | 10

THRU-OUT DWG, REF TO "LCJ85501A-1A LC" READ "H-285-224, L-9 CA ASSY."
9-5-85 CLASS "D" | 11

(CONT'D)

(CONTINUATION)

IN FIG B, (M2) AMMETER CHG'D AS FOLLOWS:

AMMETER CODES REMOVED		AMMETER CODES READ	
OPT	KS-19516, LIST	OPT	KS-19516, LIST
HR	12	HB	9
HS	6	HC	12
HT	13	HD	6
HU	2	HE	13
HV	14	HF	2
		HG	11

CN3320NJ 3-7-86 CLASS AC | 12

ON SH B5 IN FIG 2 AT "G" APP, TERMS 101 & 001 WER NOT SHOWN. ON SH B6 IN FIG A AT (P4) PWB, ED-83009-30 LINED OUT, ED-83009-31 ADDED.
3-7-86 CLASS B | 13

(CONT'D ON SH A2)

POWER SYSTEMS
LINEAGE™ 2000 CONTROLLER
FOR 24 OR 48 VOLT POWER PLANTS

13 SHEETS

DIST CODE BM10

DWG SIZE 6S | ISSUE 33

AT&T | T-82588-30 | SHEET A1

T-82588-30 SHEET A1

6N-97-2130 (10-75)
PRINTED IN U.S.A.

K-E DG 121110887654

ENGINEERING NOTES

51-SEE SHEET INDEX FOR DRAWING FROM WHICH THIS DRAWING IS MADE.

52-CONNECTING DRAWINGS

CHG & DISCH CKT	T-82603-30,-31
OFF ALM CKT	T-NOT AVAILABLE
ENG ALM CKT	T-81100-32
	T-81223-30,-31
AC SW GEAR	T-81489-11

53-EQUIPMENT ARRANGEMENT

J85501A-1

54-THE TABLE BELOW LISTS LEADS DESIGNATED "FROM OFFICE ALARM CKT" IN FIG. 1 AND THE MEANING OF THE LEAD DESIGNATION.

LEAD DESIGNATION	MEANING	SIGNAL DESCRIPTION
A	ESS MINOR ALARM CONNECTION (SEE NOTE 56)	SENDS GRD ON ALM
ABS0	ALARM BATTERY SUPPLY	PROVIDES ABS
ABS1	ALARM BATTERY SUPPLY	
ABS2	ALARM BATTERY SUPPLY	
ABS3	ALARM BATTERY SUPPLY	
BD	BATTERY DISCHARGE	SENDS GRD ON ALM
D	ESS MAJOR ALARM CONNECTION	
FG	FRAME GROUND	
~~LDM~~	~~LOAD MONITOR~~	ALM ON CONTACT CLOSURE
~~LDMR~~	~~LOAD MONITOR RETURN~~	
PMJ	POWER MAJOR	
PMJR	POWER MAJOR RETURN	
PMJV	POWER MAJOR VISUAL	
PMJVR	POWER MAJOR VISUAL RETURN	
PMN	POWER MINOR	
PMNR	POWER MINOR RETURN	
PMNV	POWER MINOR VISUAL	
PMNVR	POWER MINOR VISUAL RETURN	
SI (A)	STATUS INDICATOR (BATTERY ON DISCHARGE)	
SIR (A)	STATUS INDICATOR (BATTERY ON DISCHARGE) RETURN	
SI (B)	STATUS INDICATOR (HIGH VOLTAGE)	
SIR (B)	STATUS INDICATOR (HIGH VOLTAGE) RETURN	
SI (C)	STATUS INDICATOR (MNF/RFA)	
SIR (C)	STATUS INDICATOR (MNF/RFA) RETURN	
SI (D)	STATUS INDICATOR (VERY LOW VOLTAGE)	
SIR (D)	STATUS INDICATOR (VERY LOW VOLTAGE) RETURN	
SI (E)	STATUS INDICATOR (MAJOR FUSE ALARM)	
SIR (E)	STATUS INDICATOR (MAJOR FUSE ALARM) RETURN	
SI (F)	RECTIFIER FAIL OR MINOR FUSE ALM	ALM ON CONTACT OPEN
SIR (F)		
SI (G)	HIGH VOLTAGE, VERY LOW VOLTAGE, LOW VOLTAGE OR OPERATED F17, F20, F21, DISCHARGE FUSE OR CB TRIP	
SIR (G)		
TR1	REMOTE SHUTDOWN FROM ENGINE CONTROL (J87339A CONT UNIT)	
TR2	" " " " "	
TR3	" " " " "	
TR4	" " " " "	
μPF	MICROPROCESSOR FAIL	ALM ON CONTACT CLOSURE
μPFR	MICROPROCESSOR FAIL RETURN	

55-LOOP LEAD LENGTH SHALL NOT EXCEED 2000 FT; SHUNT VOLTAGE SHALL NOT EXCEED +/- 100 VOLTS (SEE NOTE 9 & 57).

56-WHEN CONNECTION TO NO.1,1A,2 & 2B ESS OFFICE ALARM IS REQUIRED SPECIFY FIG H1 FOR 48 VOLT PLANT AND FIG H2 FOR 24 VOLT PLANTS.

57-ENGINEER SHALL PROVIDE TWISTED PAIR O & R 20 GA KS-22247, L-4 STRANDED WIRE OR EQUIVALENT. (SEE NOTE 10)

58-ENGINEER SHALL PROVIDE A 70A, 1 1/3 AMP FUSE (100203322) AS REQUIRED ON A JOB BASIS AND INSTRUCT INSTALLER TO REMOVE & REPLACE DUMMY FUSE AT POS F1 TO F16 TO BE EQUIPPED.

59-MCS DATA SWITCH PORTS 1 THROUGH 4 MAY BE USED IN ANY COMBINATION FOR CONNECTIONS TO MCS REMOTE INTERFACE IN ANOTHER PLANT, OR TO LINEAGE REMOTE ACCESS SYSTEM. LINE ENGINEER SHALL SPECIFY FIG H6 & H7 REMOTE INTERFACE CONNECTION AND/OR FIG H8 & H9 REMOTE ACCESS CONNECTIONS AS REQUIRED. (SEE NOTE 60)

60-LINE ENGINEER SHALL PROVIDE KS-22247,L4 22GA STRANDED WIRE OR EQUIVALENT FOR CONNECTION BETWEEN W7 & W4 CABLE ASSEMBLIES (REMOTE ACCESS) AND FOR CONNECTION BETWEEN W6 & W4 CABLE ASSEMBLIES (REMOTE INTERFACE). WHEN THE DATA SWITCH AND REMOTE INTERFACE ARE IN THE SAME CONTROLLER ADDITIONAL WIRE IS NOT REQUIRED. (SEE NOTE 12)

61-THE CUSTOMER SHALL PROVIDE THE PLUG AND CORD NECESSARY TO MAKE THE CONNECTION BETWEEN THE (TEL CO) JACK ON THE DATA SET AND THE TELEPHONE CO. LINE RECP (W4AS CORD & PLUG OR EQUIVALENT 25 FT MAX) THE PHONE JACK SHALL BE MOUNTED NEAR THE CONTROLLER TO MEET THE 25 FOOT REQUIREMENT.

62-ALARM WIRING IS FURNISHED BY THE USER. ALARM (W/BK) AND ALARM RETURN (G) ARE TO BE CONNECTED TO THE L195 CABLE ASSEMBLY FROM ANY ISOLATED CONTACT PAIR. FOR REMOTE MONITOR, THE ALARM AND RETURN CONNECTIONS MAY BE MADE AT THE ALARM TERMINAL BLOCK TB1 (SEE SD-82588-01. FOR REMOTE ACCESS SYSTEM, IF A RAS ALARM IS USED, ALARM RETURN IS PROVIDED BY CONNECTION TO THE (G) WIRE OF THE L197 CABLE ASSEMBLY, THE CORRESPONDING ALARM CONNECTION MUST BE MADE ELSEWHERE WITHIN THE RAS (SEE SD-82645-01).

63-LINE ENGINEER SHALL PROVIDE KS22247L-4, 20 GAUGE STRANDED WIRE PAIR OR EQUIVALENT FOR CONNECTION BETWEEN RECTIFIER SEQUENCE CONTROLLER AND ENGINE ALTERNATOR APPLICATION OR ALARM CIRCUIT.

64-LINE ENGINEER SHALL PROVIDE KS13385,L-1, 18 GAUGE STRANDED WIRE PAIR OR EQUIVALENT FOR CONNECTION BETWEEN ROUND CELL PREDICTOR CONNECTOR AND (RT1) THERMISTOR MOUNTING ASSEMBLY.

65-SPARE FUSES FOR THE UNIVERSAL SHUNT MONITOR ARE GLR-1/2 AMP FUSE (BUSSMAN) AND MAYBE ORDERED PER COMCODE 405186339.

66-IN ORDER FOR THE "CALL OUT ON ALM" FEATURE ON DATA SWITCH TO FUNCTION, THE ENGINEER MUST CONNECT THE ALM & ALM RET LEAD OUT OF DATA SW PORT TO AN INSOLATED CONTACT PAIR ON THE MCS CONTROLLER ON RAS. THE CONTACT PAIR CAN BE EITHER NORMALLY CLOSED OR NORMALLY OPEN. INSTALLATION PROGRAMS THE DATA SWITCH WITH THE CORRECT ALM OPERATION. THE ENGINEER SHOULD DISCUSS WITH THE CUSTOMER AS TO WHETHER HE REQUIRES A CALL OUT ON A MAJOR OR MINOR ALM. THIS WILL PROVIDE THE CONNECTION POINT FOR THE ALM & ALM RET LEADS ON THE CONTROLLER OR RAS. (SEE NOTE 16)

76-MODIFICATION OF SD-82588-01 CONSISTS OF MAKING CHANGES PER LDI 9A & CONSIDERING KS-14523 TYPE CONNECTORS TO BE REPLACED BY KS-20667 TYPE JACKS.

(CONTINUATION)

W4-4 RESP. AT (J10B) TERM 5 & 2 REF TO ASSOC BACK PL TERMS 103 & 003 ADDED RESP. IN FIG H6 REF TO (SEE NOTE 12) ADDED. IN FIG H13 COLORS "BR, BR-W" READ "BK, W-BK".
2-17-89 CLASS "M"
EJC | | | 27

IN FIG F "ZJ" OPT WAS NOT SO DES "ZK" OPT ADDED. DIST CODE READ "AMIO".
2-23-89 CLASS "M"
EJC | | | 28

SN B1, FIG.1, AT TB2 INFO "T-82603-31 FIG.15 (LOW VOLTAGE DISCONNECT CKT." FROM OF DISCH GRD1 LEAD.
4-11-89 CLASS "M"
JPC | [illegible] | | 29

IN FIG B AT (M2) AMMETER X & Y OPT INTERCHANGED.
8-2-89 CLASS "R"
JWM | [illegible] | | 30

SHT A1-ADD TBL. B CHG; TBL. C ADD L40; TBL. D ADD ZL, ZM OPT FOR FIG. 2;
SHT B4 ADD ZL, ZM OPT INFO TO Z1 NETWORK
CD00020J CLASS: AC
3-15-90
GDO | | | 31

SHT A1-ADD L41 TO TBL. C; ADD OPT ZN TO FIG. 2 ON TBL. D; SHT. A2-ADD ENG. NOTE 67; SHT. B4-ADD OPT ZN ON (CP12) OF FIG. 2
ND085501NJ-29
3-15-90 CLASS: B
GDO | | | 32

CORRECT ISS. MISMATCH WITH SH A1 ON SH B2, B3, B5 & B10.
PDI 92ESDJ9753 CL. "MF"
557 | 12-11-92 | | 33

(CONTINUATION)

NOTE 57 ADDED. IN FIG E HR OPT WAS NOT SO DESIG, HS OPT ADDED. IN FIG F, HT OPT WAS NOT SO DESIG, HS OPT ADDED. ON SH B5 IN FIG 2, (CP6) & (CP7) ADDED.
ND085501NJ11 3-7-86 CLASS B
JWM | JHZ MG | | 14

IN FIG A.A. OPT WAS NOT SO DES OR RATED M.D. B OPT & ASSOC INFO ADDED.
CN3827NJ
ND0855501NJ16 9-26-86 CLASS AC
EML | JAC MG | | 15

ON SH A1 NOTES 9 & 10 ADDED. SH A2 ADDED. SHEETS B4 & B5 REDRAWN FIGS H3 & H4 AND IN FIG 2 POS 2 TO 7 OPT R MCA80013D-1, ADDED.
ND085501NJ19
9-26-86 CLASS B
EML | JAC MG | | 16

ON SH B1 FIG 1 AT (TB1) H OPT WAS NOT SO DES OR RATED M.D. J OPT & ASSOC INFO ADDED.
ND0 85501NJ20
9-26-86 CLASS AC
EML | JAC MG | | 17

ON SH A2 NOTE 58 ADDED ON SH B3 IN FIG 1 AT 22A FUSE BLK 72B DUMMY FUSES ETC. READ 70A FUSES.
9-26-86 CLASS B
EML | JAC MG | | 18

THRU OUT DWG & IN MFG NOTE 1 & 8 REF TO "KS-22247, L4" READ KS-22247, L1
1-7-86 CLASS M
EJC | JAC MG | | 19

IN FIG H3 (SH B5) AT (J92A-7) & (J92B-7) CONN, PAIR COLORS INTERCH'D IN FIG H4 AT BRKT "TO FIG H3" LEAD COLORS" O & R-O INTERCHG'D.
3-22-87 CLASS M
EJC | JAC MG | | 20

ON SH A1 NOTES 12, 13 & 14 ADDED. ON SH A2 NOTES 59, 60, 61 & 62 ADDED. ON SH (B10) FIGS H5, H6, H7, H8 & H9 ADDED. SH B4 REDRAWN & "U" APP ADDED.
ND08551NJ21 4-13-87 CLASS M
EJC | JAC MG | | 21

(CONTINUED ON UPPER RIGHT)

ON SH A1 MFG NOTE 5 REF TO COLOR GREEN "LINED OUT & "WHITE" ADDED. IN NOTE 12, PART B REF TO "INTERFACE" READ "MONITOR". ON SH A2 NOTE 58 "SEE NOTE 10" ON SH A2 NOTE 58 "SEE NOTE 10" RMV'D. IN FIG 1 SH B1 AT (P1) BACKPLANE REF TO "SEE NOTE 2" ADDED. AT 22A F. BLK (SH B3) REF TO "A87N" TERM READ "A87" TERM. AT (F17), (F18) & (F19) BRKT DES "29A FUSE (F18 & (F19) BRKT DES" 29A FUSE BLK" ADDED. IN FIG 2 (SH B4) AT (CP10) CP BRKT DES (J10B) FOR TERM 002 TO 004 READ "(J10C)". IN FIG H4 SH B5 LEAD DES FOR O & R REF TO NOTE 55 ADDED ALSO LEAD DES CH-(NEG) CH "45" READ CH "29" IN FIG A SH B7 P3 & J3 CONN REF TO "MC80013A1C CP" READ "ED-83007-30 PWB". IN FIG H5 (SH B18) CA ASSY DES W4-4, W4-3, W4-2 & W4-1 READ W4-1, W4-2, W4-3 &

(CONTINUED ON UPPER LEFT)

(CONTINUATION)

ON SHEET A1 NOTE 13 RMV'D & READ, "FOR ALL REMOTE-MONITOR TO DATA SWITCH CONNECTIONS, CRIMP THE ALM-RETURN WIRE TOGETHER WITH THE G(GRD) WIRE OF THE L196 CABLE. TWO WIRES MAY BE INSERTED INTO ON END BUTT SPLICE." IN TABLE C, FIG H9 ADDED & FIG H5 TO H8 WERE SHOWN MADE FROM U OPT. ON SHEET A2 IN NOTE 57 "(SEE NOTE 10)" ADDED. ON SHEET B5 IN FIG H4 AT BRKT TO FIG H3 R-O WIRE READ O-R & ø ADDED TO WIRES & AT FUSES (FA-) READ (FB-).

ON SHEET B10 IN FIG H5 (PORT 1 TO 4) READ (PORT 4 TO 1) RESP. IN FIG H6, G WIRE PART OF H-285-274, L-196 CA ASSY RMV'D FROM (J100-) TERM 24 DESIG GRD AT BRKT & TERM NBR 100 AT BACK-PLANE. IN FIG H7, G WIRE, DESIG GRD BET BRKTS TO FIG H5 & FROM FIG H6 RMV'D. SEE NOTE 13 RMV'D FROM WIRES DESIG GRD. IN FIG H8 G WIRE PART OF H285-224, L-197 CA ASSY RMV'D FROM TERM 5 OF (TB303) DESIG GRD TO FIG H9. SEE NOTE 13 RMV'D FROM WIRES DESIG GRD. IN FIG H9 G WIRE DESIG GRD BET BRKTS TO FIG H5 & FROM FIG H8 RMVD. SEE NOTE 13 RMV'D FROM WIRES DESIG GRD.
7-14-87 CLASS M
[illegible] | [illegible] | | 22

ON SH B1 IN FIG 1(P2)CP WAS NOT SO DES. ZA, ZB OPT ADDED. ON SH B3 IN FIG 1 ZI APP ADDED. ON SH B4 IN FIG 2, HN, ZG APP READ HN; ZD APP READ R. Y APP WAS NOT SO DESIG, P, ZC, ZE & ZH APP ADDED. ON SH B6 IN FIG A, D APP ADDED. ON SH B10, FIGS 10 TO 14 ADDED. ON SH A1 NOTE 4 READ, "NO WIRES ON THIS DWG ARE TO BE RUN BY THE INSTALLER EXCEPT WIRES DESIG ● IN FIG 1 AT (TB2)TS;" NOTE 13 READ UNASSIGNED, NOTE 15 ADDED. IN TABLE C (CR1) & (CR2) DIODE ADDED. ON SH A2 NOTE 63 & 64 ADDED. IN NOTE 54 MEANING FOR LEAD DESIG "S1(F), S1R(F), S1(G) & (S1R(G) READ UNASSIGNED IN NOTE 58 "(SEE NOTE 10)" ADDED. IN NOTE 76 "B8 READ 68," SH B11 & NOTES 6, 65 & 66 ADDED. IN FIG H4 "O" WIRE READ "R-O".
ND085501NJ23 1-25-83 CLASS B
JWM | [illegible] | | 23

ON SH B8 REF TO KS-14523, L-2 & L-3 LINED OUT & REPLACED. NOTE 76 REF TO CONSIDERING _______ KS-20667 TYPE JACKS" ADDED.
3-7-88 CLASS M
[illegible] | [illegible] | | 24

ON SH A1 NOTE 16 & REF TO SAME IN NOTE 12, 66, FIG H7 & H9 ADDED. IN NOTE 10 REF TO "OR A18-8FL ADDED. IN NOTE 76 LDI "9A" READ "88". IN FIG 2 AT (P2)-(P7) BACK-PLANE DES "MC80031-A18" READ "MC-80031-A". IN FIGS H6, H7, H8 & H9 GRD LEAD ADDED. IN TABLE C SO OPT FOR CAD 14 "S" OPT READ "Q".
CN3841
5-25-88 CLASS "A"
EJC | [illegible] MG | | 25

ON SH A2 LEADS DES "LDM & LDMR" AND MEANING LINED OUT. IN FIG 1 AT BRKT "FROM RECT SEQ" LEAD "S1R(G)" WAS NOT SO DES "S" OPT. IN FIG 6 AT P1 & P2 ON BACKPLANE, WRG REARRANGED; IN FIG H3 AT (J9A2-7) & (J9B2-7) CONN'S COLORS BRACKETED NEW COLORS ADDED TO AGREE ASSY DWG & DALLAS POINT ISSUE 23.1
5-25-88 CLASS "M"
EJC | [illegible] MG | | 26

(CONTINUED)

CONTROLLER CKT

DWG SIZE 65 | ISSUE 33

AT&T | T-82588-30 | SHEET A2

T-82588-30 SHEET A2

FIG 1
CONTROLLER CKT
(SEE NOTE 11)

(TB1)
722140
TERM BLK
(MAGNUM
ELEC CO)

A221 TERM
(T&B CO)

11A

μPFR
μPF
ABS0
FG
ABS1
A
SI(A)
ABS2
SIR(A)
D
SI(B)
ABS3
SIR(B)
BD
SI(C)
TR1
SIR(C)
TR2
SI(D)
TR3
SIR(D)
TR4
SI(E)
PMN
SIR(E)
PMNR
SI(F)
PMNV
SIR(F)
PMNVR
SI(G)
PMJ
SIR(G)
PMJR
FG
PMJV
PMJVR

BK
BK
BK

(J)
(H)

FROM RECTIFIER SEQUENCE CONTROLLER CKT (DO NOT CONNECT WHEN FIG H11 IS FURN)

FROM OFFICE ALARM CKT

(TB1)
722140
TERM BLK
(MAGNUM
ELEC CO.)

MATES WITH (J1) CONN IN FIG C (SH B2) OR FIG D (SH B3)
MATE WITH FIG C UNLESS OTHERWISE SPECIFIED

21 (FR GRD)
GRD
TERM ON
FRAME

A85
TERM
(T&B CO.)

(BK)

~~18GA STRANDED~~
OR
846323665
WIRE SET

40G

MATES WITH (J1A), (J1B) CONN IN FIG C (SH B2) OR FIG D (SH B3)
MATE WITH FIG C UNLESS OTHERWISE SPECIFIED

P1A

25 P/O 841768245
BACKPLANE
(P1)
(SEE NOTE 2)

P/O (P2) E/W
(2A) ED-83006-30
OR
(2B) ED-83006-31 C.P.

156	056	156	056
155	055	155	055
154	054	154	054
153	053	153	053
152	052	152	052
151	051	151	051
150	050		
149	049		
148	048		
147	047		
146	046		
145	045		
144	044		
143	043		
142	042		
141	041		
140	040		
139	039		
138	038	138	038
137	037	137	037
136	036	136	036
135	035	135	035
134	034	134	034
133	033	133	033
132	032	132	032

963E-2
CONN
FOR 24V (Z)

963E-2
CONN
FOR 48V (W)

P1B

CONTINUED
ON SHEET B2

640903-1
TERM (AMP)
FIG A
640907-2
TERM (AMP)
FIG B

40A (BL)
40C (W)
343 R
234 Y
233 O
311 BL

P/O LCJ85501A-1A
LOCAL CA
22GA
18GA
640903-1
TERM
(AMP CO.)

35 (TB2)
A319308-NL
TERM BLK
(MAGNUM
ELEC CO.)

8 7 6 5 4 3 2 1

640907-2
FASTON RECP
(AMP) FIG B

40E (BL)
40B (BL)
40F (O)
40D (O)

30
E1
E2

2,520114-2
FASTON RECP
(AMP) FIG A
2,62049-2
FASTON RECP
(AMP) FIG B

963E-2 CONN
FOR 48V (W)
FOR 24V (Z)
963E-2 CONN
SEE NOTE 3

30
TYPSH

AT
(SEE
NOTE 7)

~~LW, 18GA~~
~~STRANDED~~
OR
846323665
WIRE SET

(TB2)
A319308-NL
TERM BLK
(MAGNUM
ELEC CO.)

1 2 3 4 5 6 7 8

8K

P W BK

C220
TERM
(T&B CO)

KS-5482-01
12GA STRANDED

REG BAT +
REG GRD -
DISCH GRD
DISCH BAT
BAT SH
BAT SHG
DISCH GRD

A85 TERM
(T&B CO)

FAN
FAJ

TO CHG & DISCHG CKT

FROM CHG & DISCHG CKT
T-82603-31
FIG 15
(LOW VOLTAGE
DISCONNECT CKT

40

35 30 35 30 30 30 21
A B C D E F G

FROM FIG A OR B FROM FIG A
UNLESS OTHERWISE SPECIFIED

T-82588-30
SHEET B1

CONTROLLER CKT

DWG SIZE 6S

ISSUE 29

AT & T | T-82588-30 | SHEET B1

GN-97-2135 (10-75)
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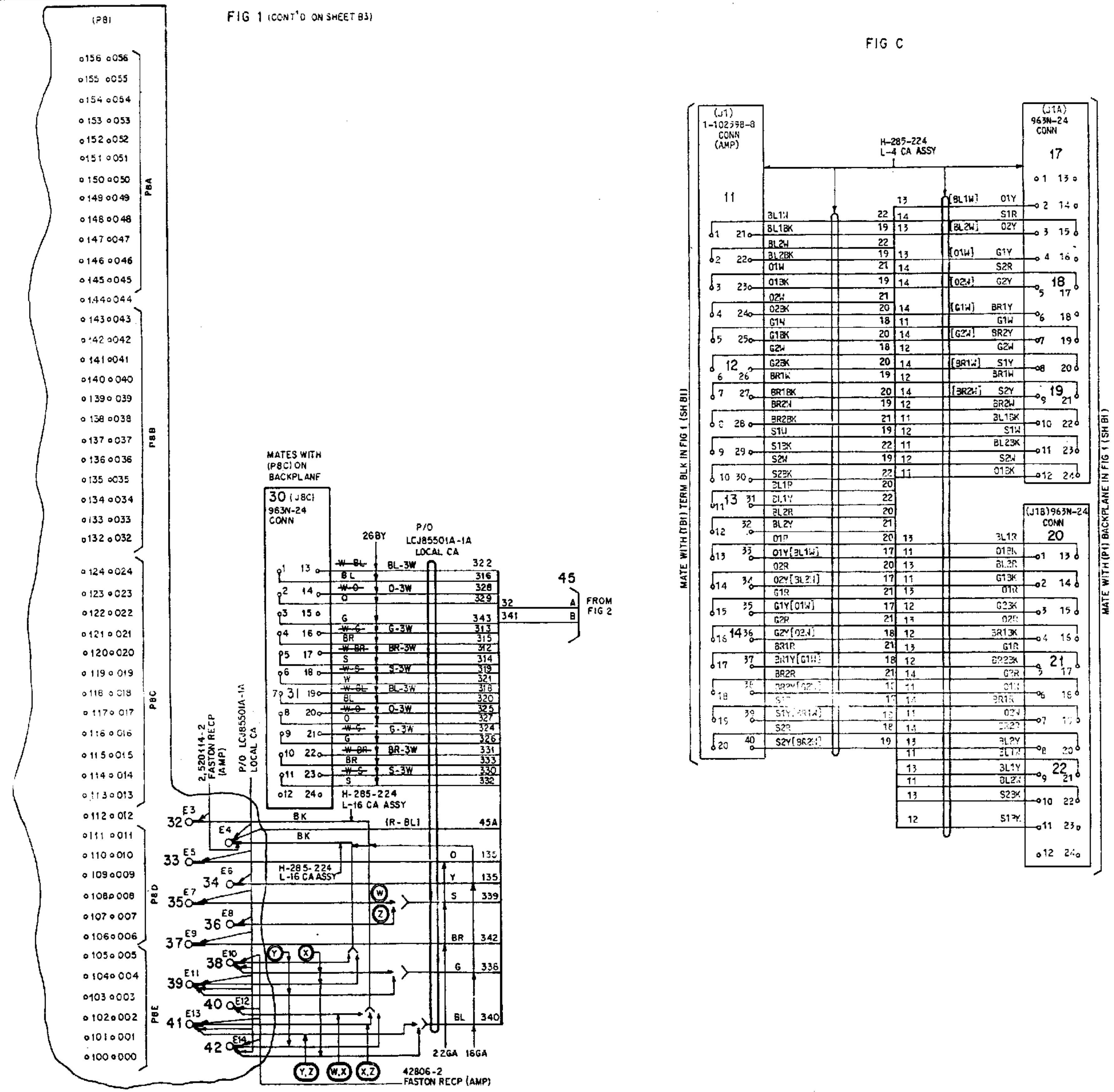

AT&T TECHNOLOGIES, INC - PROPRIETY
USE PURSUANT TO COMPANY INSTRUCTIONS

CONTROLLER CKT		DWG SIZE 65	ISSUE 33
AT&T	T-82588-30		SHEET B2

T-82588-30 SHEET B2

GN-97-2135 (08-01-82)
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FIG 1 (CONT'D)

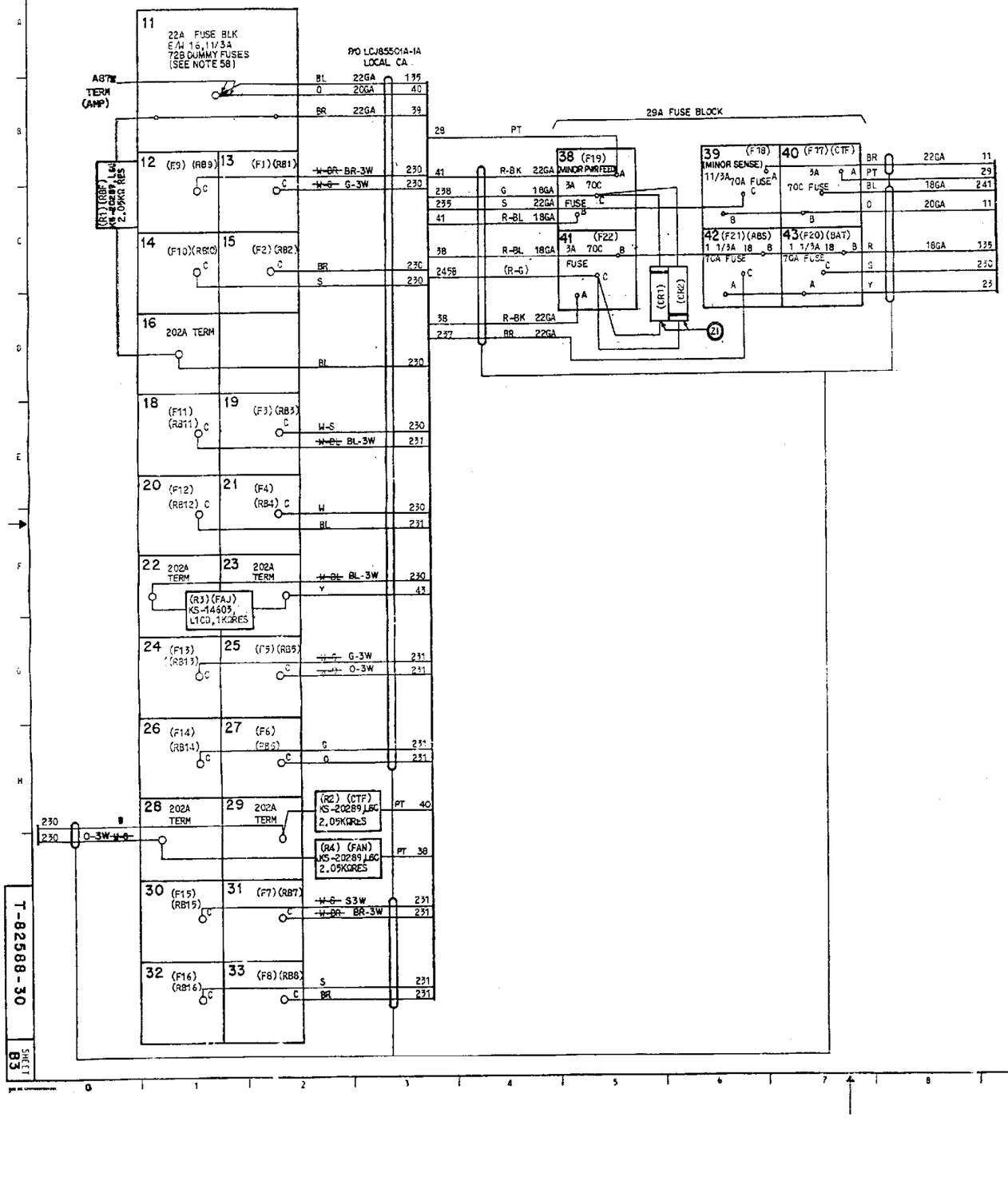
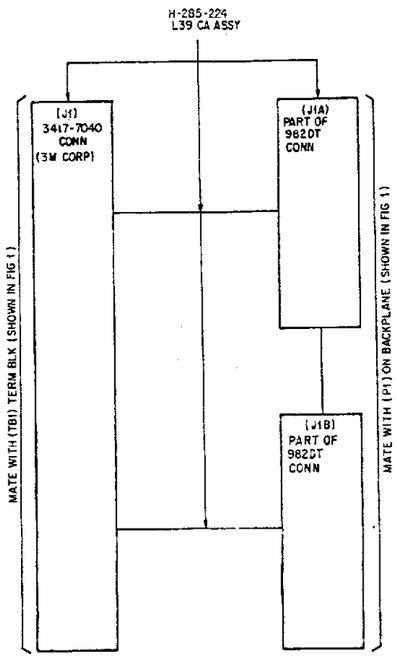


FIG D



T-82588-30 SHEET 83

CONTROLLER CKT

DWG SIZE 65 | ISSUE 33

AT&T | T-82588-30 | SHEET 83

GN-97-2135 (10-75)
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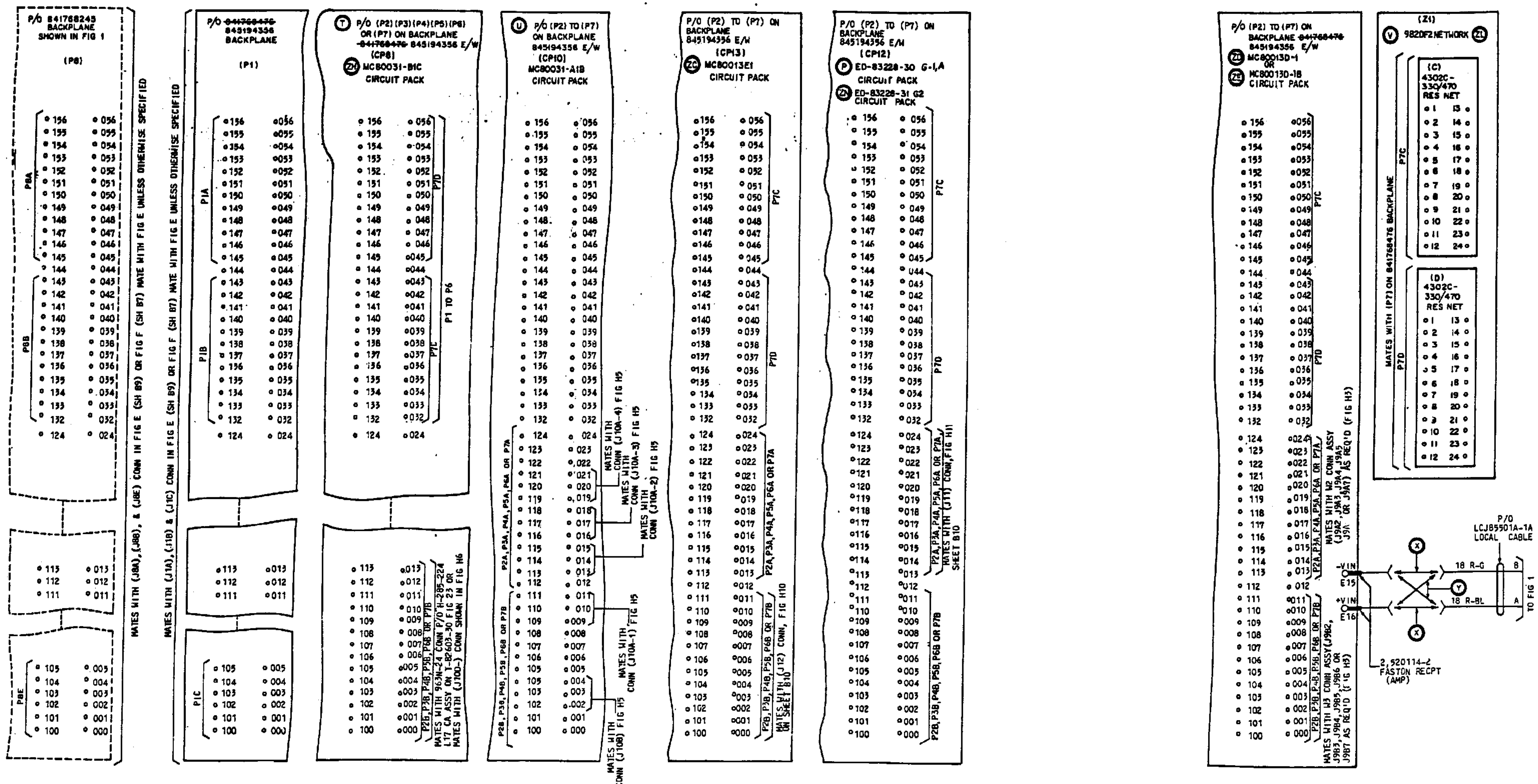
FIG 2 (CONT'D ON SH B5)



AT&T TECHNOLOGIES, INC-PROPRIETARY
USE PURSUANT TO COMPANY INSTRUCTIONS

CONTROLLER CKT	DWG SIZE 65	ISSUE 32
AT&T TECHNOLOGIES, INC.	T-82588-30	SHEET B4

T-82588-30 SHEET B4

GN-97-2135 (4-84) PRINTED IN U.S.A.

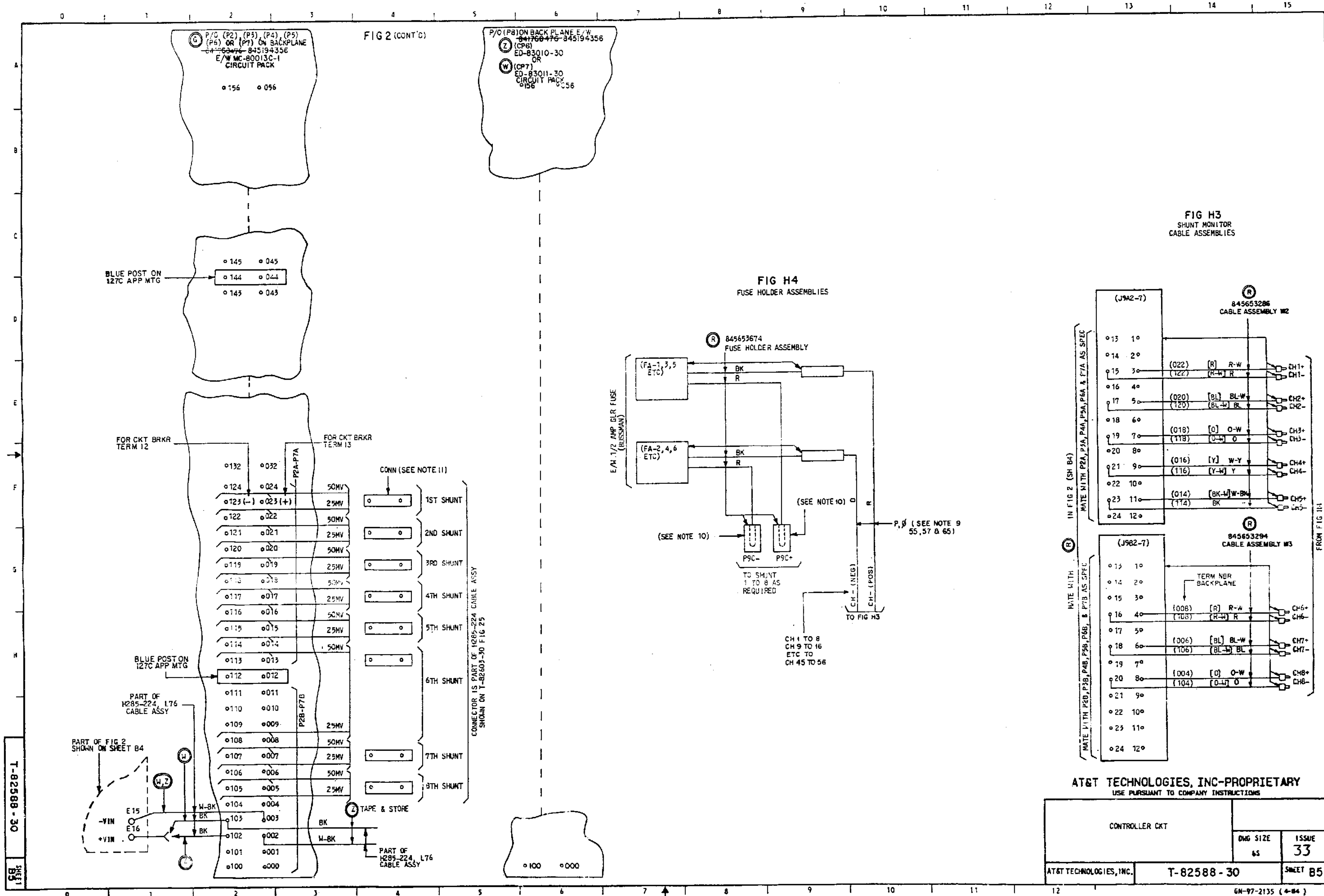


FIG 2 (CONT'D)
P/O (P2), (P3), (P4), (P5) (P6) OR (P7) ON BACKPLANE 845194356 E/W MC-80013C-1 CIRCUIT PACK
P/O (P8) ON BACK PLANE E/W 845194356
(CP6) ED-83010-30 OR (CP7) ED-83011-30 CIRCUIT PACK
BLUE POST ON 127C APP MTG
FOR CKT BRKR TERM 12
FOR CKT BRKR TERM 13
P2A-P7A
P2B-P7B
CONN (SEE NOTE 11)
1ST SHUNT
2ND SHUNT
3RD SHUNT
4TH SHUNT
5TH SHUNT
6TH SHUNT
7TH SHUNT
8TH SHUNT
CONNECTOR IS PART OF H285-224 CABLE ASSY SHOWN ON T-82603-30 FIG 25
PART OF H285-224, L76 CABLE ASSY
PART OF FIG 2 SHOWN ON SHEET B4
-VIN
+VIN
E15
E16
TAPE & STORE
FIG H4
FUSE HOLDER ASSEMBLIES
845653674 FUSE HOLDER ASSEMBLY
E/W 1/2 AMP CLR FUSE (BUSSMAN)
(FA-1,3,5 ETC)
(FA-2,4,6 ETC)
(SEE NOTE 10)
P9C-
P9C+
TO SHUNT 1 TO 8 AS REQUIRED
P,Ø (SEE NOTE 9 55,57 & 65)
CH- (NEG)
CH- (POS)
TO FIG H3
CH 1 TO 8
CH 9 TO 16
ETC TO
CH 45 TO 56
FIG H3
SHUNT MONITOR CABLE ASSEMBLIES
(J9A2-7)
845653286 CABLE ASSEMBLY W2
MATE WITH P2A, P3A, P4A, P5A, P6A & P7A AS SPEC IN FIG 2 (SH B4)
(J9B2-7)
845653294 CABLE ASSEMBLY W3
MATE WITH P2B, P3B, P4B, P5B, P6B, & P7B AS SPEC
TERM NBR BACKPLANE
FROM FIG H4
AT&T TECHNOLOGIES, INC-PROPRIETARY
USE PURSUANT TO COMPANY INSTRUCTIONS
CONTROLLER CKT
DWG SIZE
ISSUE 33
AT&T TECHNOLOGIES, INC.
T-82588-30
SHEET B5
GN-97-2135 (4-84)
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FIG A

P/O 841768245
BACKPLANE

P/O (P3)
E/W
(A) HC-80013A-1
OR
(B) HC-80013A1B
OR
(D) HC-80013A1C CP

o156	o056
o155	o055
o154	o054
o153	o053
o152	o052
o151	o051
o150	o050
o149	o049
o148	o048
o147	o047
o146	o046
o145	o045

P/O (P4)
E/W
~~CO-83009-30~~
ED-83009-31 C.P.

o156	o056
o155	o055
o154	o054
o153	o053
o152	o052
o151	o05
o150	o050
o149	o049
o148	o048
o147	o047
o146	o046
o145	o045

P/O (P5)
E/W
(CP4)
ED-83008-30 C.P.

RECT 2 / RECT 1

o456	o356	o256	o156	o056
o455	o355	o255	o155	o055
o454	o354	o254	o154	o054
o453	o353	o253	o153	o053
o452	o352	o252	o152	o052
o451	o351	o251	o151	o051
o450	o350	o250	o150	o050
o449	o349	o249	o149	o049
o448	o348	o248	o148	o048
o447	o347	o247	o147	o047
o446	o346	o246	o146	o046
o445	o345	o245	o145	o045

P/O (P6)
E/W
(CP4)
(NA) ED-83008-30 C.P.

RECT 10 / RECT 9

o456	o356	o256	o156	o056
o455	o355	o255	o155	o055
o454	o354	o254	o154	o054
o453	o353	o253	o153	o053
o452	o352	o252	o152	o052
o451	o351	o251	o151	o051
o450	o350	o250	o150	o050
o449	o349	o249	o149	o049
o448	o348	o248	o148	o048
o447	o347	o247	o147	o047
o446	o346	o246	o146	o046
o445	o345	o245	o145	o045

P/O (P7)
E/W
(Z) (CP6) ED-83010-30
OR
(W) (CP7) ED-83011-30 C.P.

o156	o056
o155	o055
o154	o054
o153	o053
o152	o052
o151	o051
o150	o050
o149	o049
o148	o048
o147	o047
o146	o046
o145	o045

o111	o011
o110	o010
o109	o009
o108	o008
o107	o007
o106	o006
o105	o005
o104	o004
o103	o003
o102	o002
o101	o001
o100	o000

o111	o011
o110	o010
o109	o009
o108	o008
o107	o007
o106	o006
o105	o005
o104	o004
o103	o003
o102	o002
o101	o001
o100	o000

RECT 8 / RECT 7

o411	o311	o211	o111	o011
o410	o310	o210	o110	o010
o409	o309	o209	o109	o009
o408	o308	o208	o108	o008
o407	o307	o207	o107	o007
o406	o306	o206	o106	o006
o405	o305	o205	o105	o005
o404	o304	o204	o104	o004
o403	o303	o203	o103	o003
o402	o302	o202	o102	o002
o401	o301	o201	o101	o001
o400	o300	o200	o100	o000

RECT 16 / RECT 15

o411	o311	o211	o111	o011
o410	o310	o210	o110	o010
o409	o309	o209	o109	o009
o408	o308	o208	o108	o008
o407	o307	o207	o107	o007
o406	o306	o206	o106	o006
o405	o305	o205	o105	o005
o404	o304	o204	o104	o004
o403	o303	o203	o103	o003
o402	o302	o202	o102	o002
o401	o301	o201	o101	o001
o400	o300	o200	o100	o000

o111	o011
o110	o010
o109	o009
o108	o008
o107	o007
o106	o006
o105	o005
o104	o004
o103	o003
o102	o002
o101	o001
o100	o000

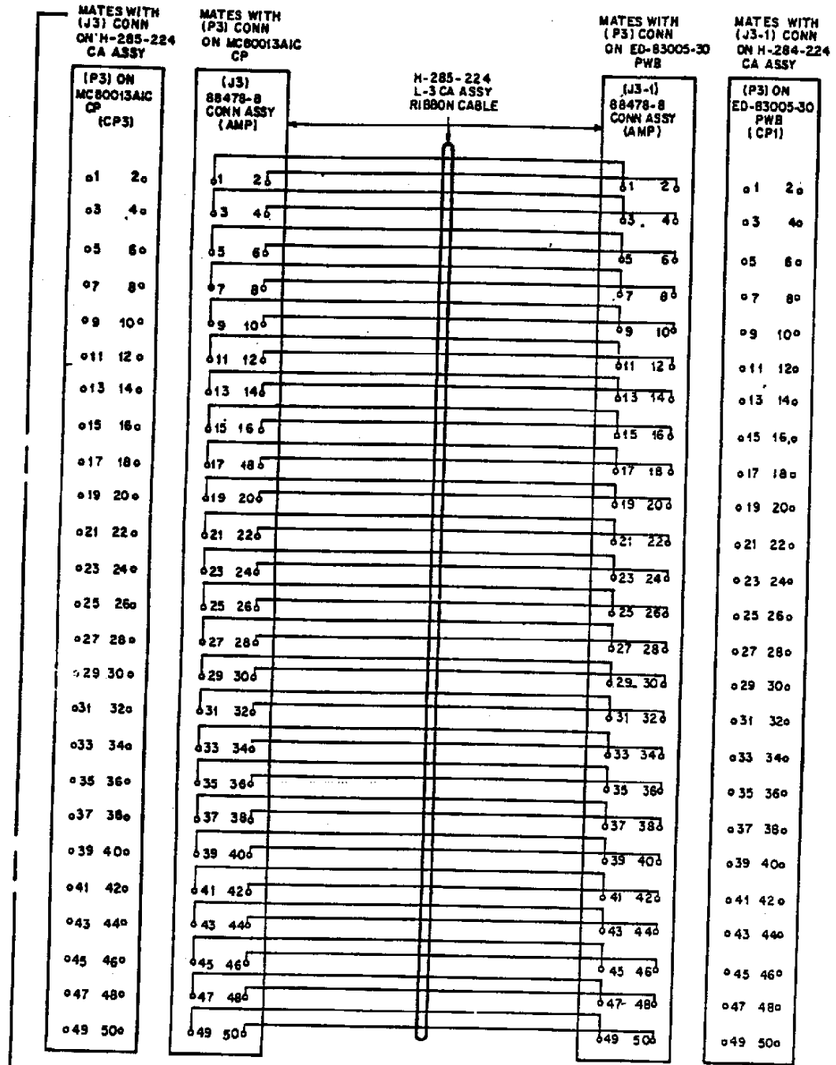
T-82588-30
SHEET 86

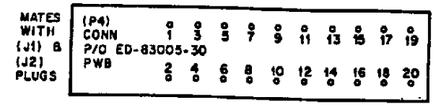
CONTROLLER CIRCUIT

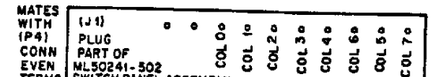
DWG SIZE	ISSUE
65	23

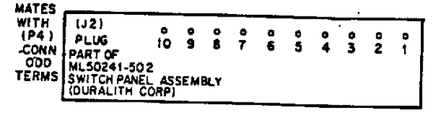
AT&T | T-82588-30 | SHEET 86

FIG A (CONT'D)









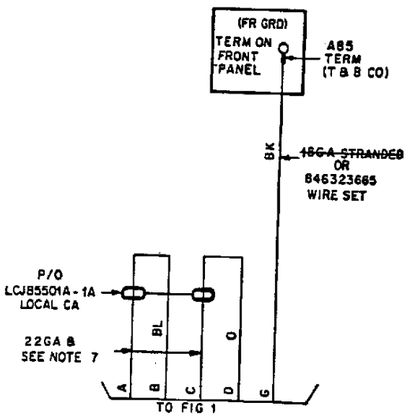
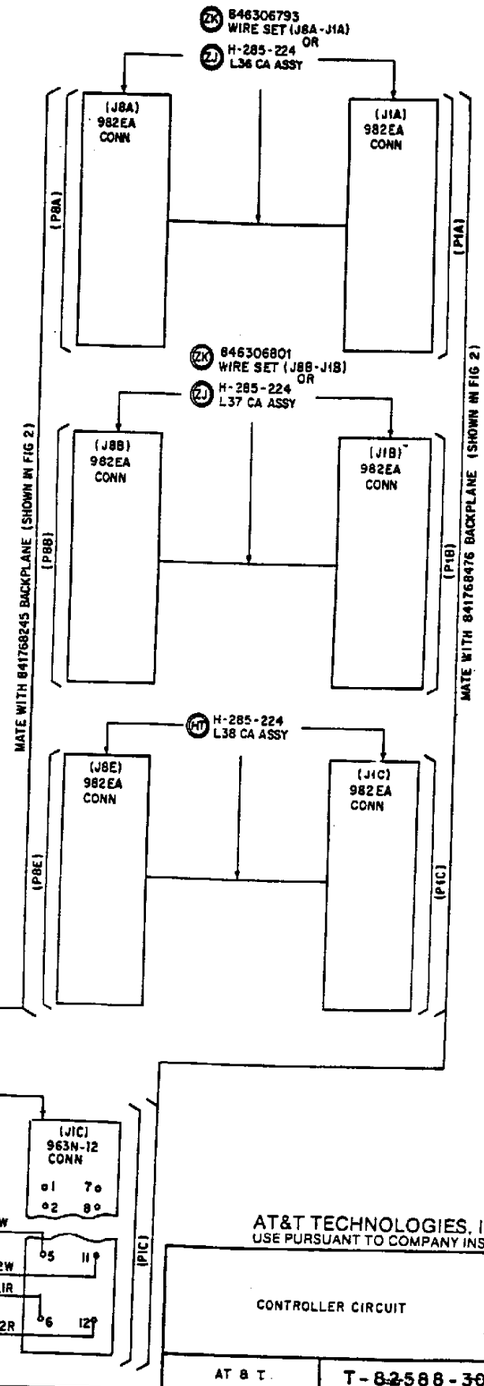


FIG F



T-82588-30

SHEET 87

CONTROLLER CIRCUIT

DWG SIZE 65

ISSUE 28

AT & T

T-82588-30

SHEET 87

K & E DG 12111098765432 1

GN-97-2135 (10-75)
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FIG B

P/O 841768245
BACKPLANE

P/O (P5)
E/W
(CP11)
ED-83017-30
PWB

RECT 2					RECT 1
o456	o356	o256	o156	o056	
o455	o355	o255	o155	o055	
o454	o354	o254	o154	o054	
o453	o353	o253	o153	o053	
o452	o352	o252	o152	o052	
o451	o351	o251	o151	o051	
o450	o350	o250	o150	o050	
o449	o349	o249	o149	o049	
o448	o348	o248	o148	o048	
o447	o347	o247	o147	o047	
o446	o346	o246	o146	o046	
o445	o345	o245	o145	o045	

P/O (P6)
E/W
(CP11)
(HG) ED-83017-30
PWB

RECT 10					RECT 9
o456	o356	o256	o156	o056	
o455	o355	o255	o155	o055	
o454	o354	o254	o154	o054	
o453	o353	o253	o153	o053	
o452	o352	o252	o152	o052	
o451	o351	o251	o151	o051	
o450	o350	o250	o150	o050	
o449	o349	o249	o149	o049	
o448	o348	o248	o148	o048	
o447	o347	o247	o147	o047	
o446	o346	o246	o146	o046	
o445	o345	o245	o145	o045	

RECT 8					RECT 7
o411	o311	o211	o111	o011	
o410	o310	o210	o110	o010	
o409	o309	o209	o109	o009	
o408	o308	o208	o108	o008	
o407	o307	o207	o107	o007	
o406	o306	o206	o106	o006	
o405	o305	o205	o105	o005	
o404	o304	o204	o104	o004	
o403	o303	o203	o103	o003	
o402	o302	o202	o102	o002	
o401	o301	o201	o101	o001	
o400	o300	o200	o100	o000	

RECT 16					RECT 15
o411	o311	o211	o111	o011	
o410	o310	o210	o110	o010	
o409	o309	o209	o109	o009	
o408	o308	o208	o108	o008	
o407	o307	o207	o107	o007	
o406	o306	o206	o106	o006	
o405	o305	o205	o105	o005	
o404	o304	o204	o104	o004	
o403	o303	o203	o103	o00	
o402	o302	o202	o102	o002	
o401	o301	o201	o101	o001	
o400	o300	o200	o100	o000	

P/O (P8)

J8D		J8E
o111	o011	
o110	o010	
o109	o009	
o108	o008	
o107	o007	
o106	o006	
o105	o005	
o104	o004	
o103	o003	
o102	o002	
o101	o001	
o100	o000	

30 TO FIG 1
H-285-224, L-27 CA ASSY
A B C D E F
BL O 48 48
12GA SOLID

MATES WITH (P8) (J8D) ON BACKPLANE
34 (J8D) 963N-12 CONN
H-285-224, L-28 CA ASSY
BL1W 57
BL2W 40
O2W 44
G2W 44
BR1W 40
BR2W 50
S1W 54
S2W 48
BL2R 50
BL1R 52

40(E4) 840227110 TERM
BR1W
BL2W
(R4)
41 (DS1) FUSE ALM MAJOR) 534A DIODE
2G 43,53
2O 43,53

TERM ON MTG SCR.
48
E8
2,32951-1 TERM (AMP)
(M2) (PLANT LOAD CURRENT)
(HB) KS-19516,L-11
(HC) KS-19516,L-12
(HD) KS-19516,L-6
(HE) KS-19516,L-13
(HF) KS-19516,L-2
(HH) KS-19516, L15
(HJ) KS-19516, L16
(HK) KS-19516,L17
(HL) KS-19516,L18
(HP) KS-19516,L19
(HQ) KS-19516,L14
AMMETER
H-285-224, L-29 CA ASSY
12GA SOLID
30F O
30E BL

43(DS5) (FUSE ALM MINOR) 534C DIODE
2O 41,46
(R7)
44(E7) 840227110 TERM
G2W 34
O2W 34
H-285-224 L-28 CA ASSY

45(TP2+) (VMCAL+) KS-14623, L-2 CONN KS-20667 L-2 JACK (RED)
(R6)
46(E6) 840227110 TERM
BL 50
O 43
846232657 WIRE SET

(W) S2W
(Z) BL2R
BR2W 34
50
(M1) (PLANT VOLTAGE)
(Z) KS-19654,L-2 OR
(W) KS-19654,L-3 VOLTMETER
2,309964 TERM (AMP)
BL O
46 59

52(E1) 840227110 TERM
34 BL1R
(R1)
53 (DS1) (HIGH VOLTS) 534A DIODE
41,55 2G
41,55 2O
54 (E2) 840227110 TERM
34 S1W
(R2)
55 (DS2) BAT DISCH) 534A DIODE
53,56 2G
53,56 2O
56 (DS3) (RECT FAIL) 534C DIODE
55,59 2G
55 O
(R3)
57 (E3) 840227110 TERM
34 BL1W

58(TP1-) (VMCAL) KS-14623, L-3 CONN KS-20667 L-3 JACK (BLACK)
(R5)
59 (E5) 840227110 TERM
50 O
56 G

CONTROLLER CIRCUIT

DWG SIZE	ISSUE
6S	30

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K 3 E DG 1311109876543210

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FIG H1

(W) 48V PLANTS (SEE NOTE 56)

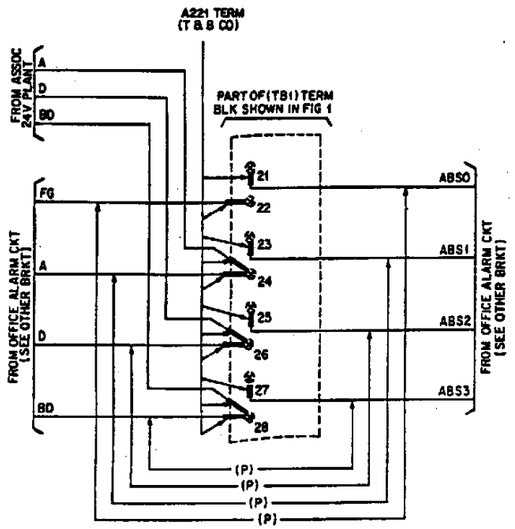

FIG H2

(Z) 24V PLANTS (SEE NOTE 56)

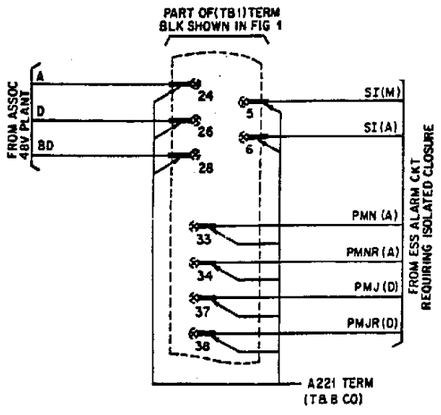

FIG E

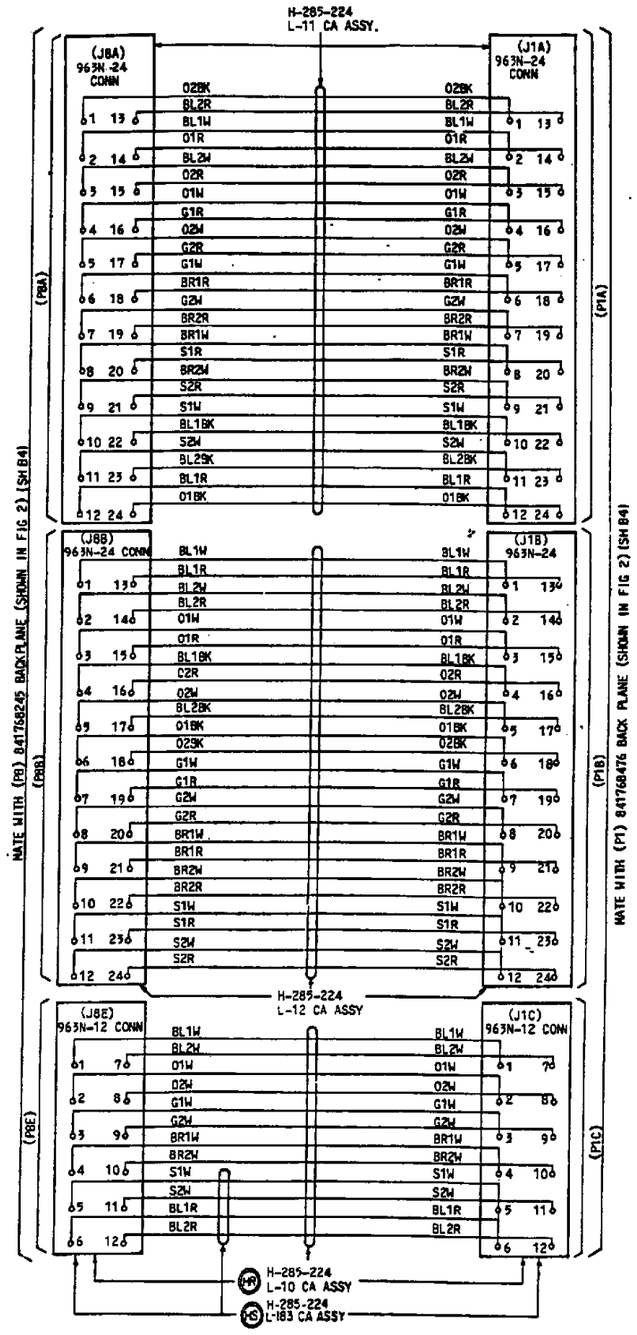

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FIG H5
MCS DATA SW
(SEE NOTE 59 & 60)

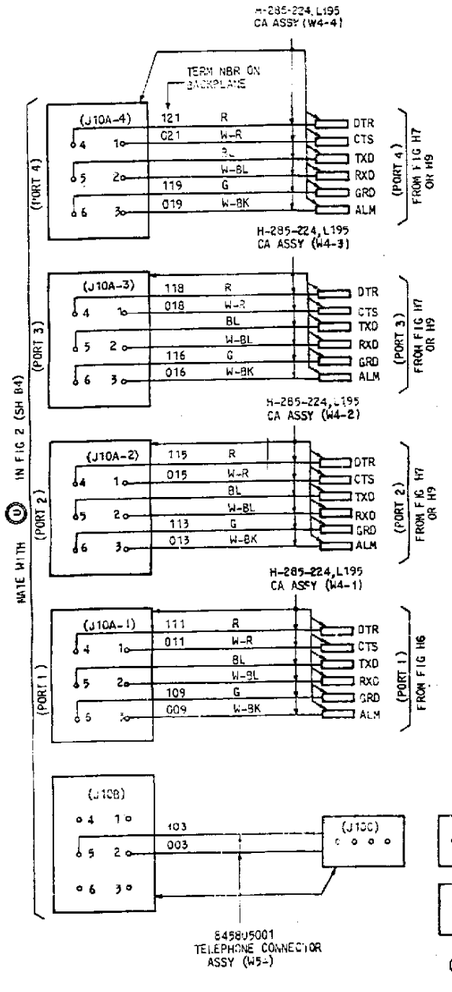

FIG H7
(SEE NOTE 60)

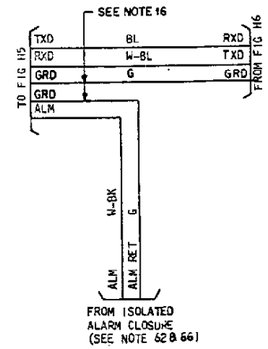

FIG H6
REMOTE INTERFACE
(SEE NOTE 12 & 60)

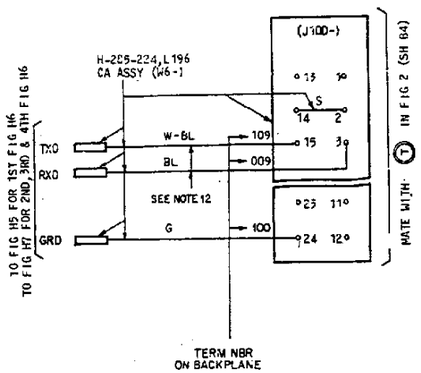

FIG H10
ROUND CELL RESERVE
PREDICTOR CONNECTOR

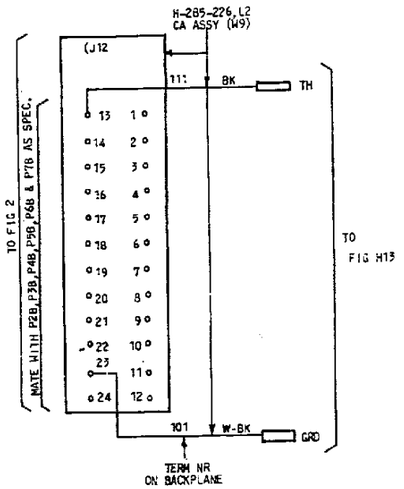

FIG H8
REMOTE ACCESS
(SEE NOTE 12 & 60)

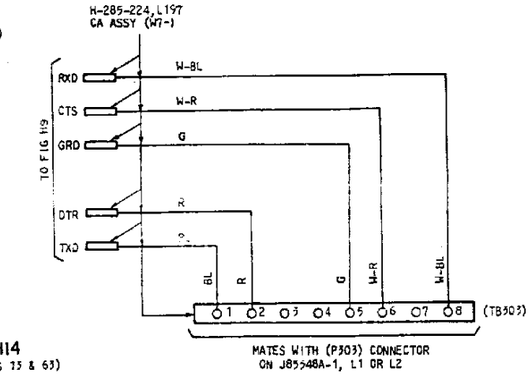

FIG H9
(SEE NOTE 60)

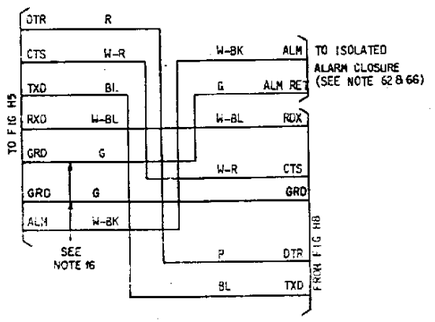

FIG H11
RECTIFIER SEQUENCE
CONTROLLER CONNECTOR

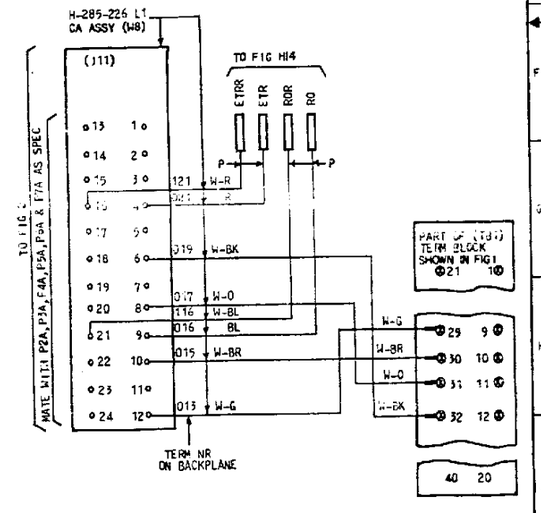

FIG H12
845957406 THERMISTOR
MOUNTING ASSY

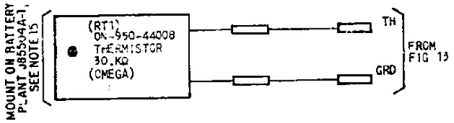

FIG H13
(SEE NOTES 15 & 64)

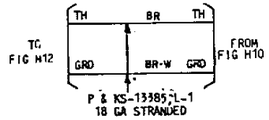

FIG H14
(SEE NOTES 15 & 63)

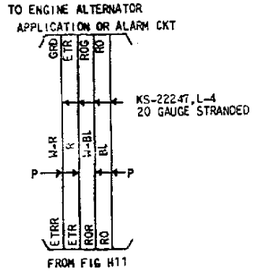

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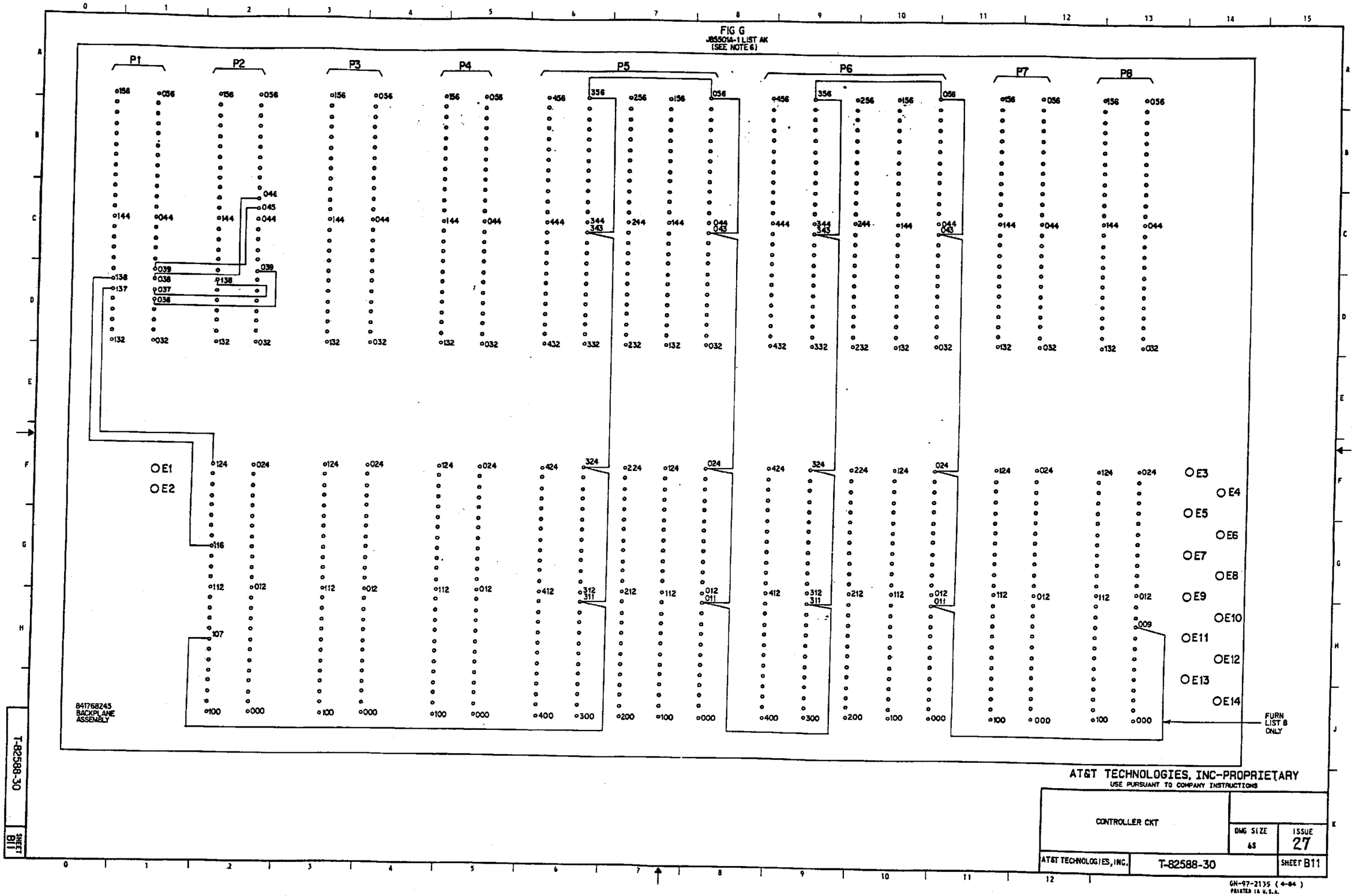
FIG G
J85501A-1 LIST AK
(SEE NOTE 6)



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