

TABLE A												
SD & T DNG ISSUES ARE IN AGREEMENT AS FOLLOWS:												
SD-3F010-01	1	1	2A	3D	4B	4B	4B	4B	5B	6B	7B	
T*3F010-11	1	2	3	4	5	6	7	8	9	10	11	
SHEET INDEX												
SECTION A			SECTION B			SECTION C			SECTION D			
AUTOGRS	SHEET	ISS	SHEET	ISS	SHEET	ISS	SHEET	ISS	SHEET	ISS	SHEET	ISS
	A1	11	B1	3	B61		C1	3	C61		D1	11
	A2	10	B2	3	B62		C2	3	C62		D2	4
	A3	10	B3	3	B63		C3	3	C63		D3	7
	A4		B4	3	B64		C4	3	C64		D4	9
	A5		B5	3	B65		C5	3	C65		D5	9
	A6		B6	3	B66		C6	3	C66		D6	9
	A7		B7		B67		C7	3	C67		D7	6
	A8		B8		B68		C8	3	C68		D8	11
	A9		B9		B69		C9	3	C69		D9	10
	A10		B10		B70		C10	3	C70		D10	
	A11		B11		B71		C11		C71		D11	
	A12		B12		B72		C12		C72		D12	
	A13		B13		B73		C13		C73		D13	
	A14		B14		B74		C14		C74		D14	
	A15		B15		B75		C15		C75		D15	
	A16		B16		B76		C16		C76		D16	
	A17		B17		B77		C17		C77		D17	
	A18		B18		B78		C18		C78		D18	
	A19		B19		B79		C19		C79		D19	
	A20		B20		B80		C20		C80		D20	
	A21		B21		B81		C21		C81		D21	
	A22		B22		B82		C22		C82		D22	
	A23		B23		B83		C23		C83		D23	
	A24		B24		B84		C24		C84		D24	
	A25		B25		B85		C25		C85		D25	
	A26		B26		B86		C26		C86		D26	
	A27		B27		B87		C27		C87		D27	
	A28		B28		B88		C28		C88		D28	
	A29		B29		B89		C29		C89		D29	
	A30		B30		B90		C30		C90		D30	
	A31		B31		B91		C31		C91		D31	
	A32		B32		B92		C32		C92		D32	
	A33		B33		B93		C33		C93		D33	
	A34		B34		B94		C34		C94		D34	
	A35		B35		B95		C35		C95		D35	
	A36		B36		B96		C36		C96		D36	
	A37		B37		B97		C37		C97		D37	
	A38		B38		B98		C38		C98		D38	
	A39		B39		B99		C39		C99		D39	
	A40		B40		B100		C40		C100		D40	
	A41		B41		B101		C41		C101		D41	
	A42		B42		B102		C42		C102		D42	
	A43		B43		B103		C43		C103		D43	
	A44		B44		B104		C44		C104		D44	
	A45		B45		B105		C45		C105		D45	
	A46		B46		B106		C46		C106		D46	
	A47		B47		B107		C47		C107		D47	
	A48		B48		B108		C48		C108		D48	
	A49		B49		B109		C49		C109		D49	
	A50		B50		B110		C50		C110		D50	
	A51		B51		B111		C51		C111		D51	
	A52		B52		B112		C52		C112		D52	
	A53		B53		B113		C53		C113		D53	
	A54		B54		B114		C54		C114		D54	
	A55		B55		B115		C55		C115		D55	
	A56		B56		B116		C56		C116		D56	
	A57		B57		B117		C57		C117		D57	
	A58		B58		B118		C58		C118		D58	
	A59		B59		B119		C59		C119		D59	
	A60		B60		B120		C60		C120		D60	

TABLE E - FEATURE TABLE - SEE NITS 52 & 53									
ITEM	SD ISS	DESCRIPTION	SPECIFY				AUTO OPT	REMARKS	
			FIG.	MFG	APP	QTY			
EA	EB	EC	ED	EE	EF	EG	EH		
1	1D	PROVIDES FOR A LINK NODE "B" CIRCUIT ON RING NODE (FR OR CAB.)	H1+			1			
A	1D	PROVIDES CABLING AND TERMINATIONS FOR JUMPER CABLE WHEN NODE (1) IS NOT PROVIDED.	H2				(SEE NOTE 57)		
B	1D	PROVIDES CABLING TO A LINK NODE "A" CIRCUIT OR "3B1" CKT. (SAME FR OR CAB.)	H4						
C	1D	PROVIDES CABLING TO LINK DISTRIBUTION FRAME FOR ANALOG OR DIGITAL FACILITIES. (NO. 2 STP ONLY)	H7	E					
D	4B	PROVIDES FOR THE SECOND PARTIALLY EQUIPPED LINK NODE.	2		R	1	Q		
E	4B	PROVIDES FOR THE THIRD PARTIALLY EQUIPPED LINK NODE.	3		R	1	Q		
F	4B	PROVIDES THE ARRANGEMENT OF THE LINK NODE FOR	4		Z	1			
		NON-ENCRYPTED 2.4/4.8 K BPS			X	1			
		NON-ENCRYPTED 56K			W	1			
		ENCRYPTED 4800BPS			V	1			
		ENCRYPTED 56K							
G	4B	PROVIDES THE INTERFRAME BUFFER	5		T	1			
		516 BYTE/5 MHZ	5		U	1			
		512 BYTE/5 MHZ	5						
		4K BYTE/6 MHZ	13		A	1			
		VERISON (PIFB)							
		16 BYTE/8 MHZ	13		ZA	1			
		4K BYTE/8 MHZ	13		ZB	1			
J	4B	PROVIDES HDL CIRCUIT PACK (1PSS-R4)	6			2			
K	4B	PROVIDES TWO RS232 PORTS AND TWO V.35 PORTS.	7			1			
L	4B	PROVIDES FOUR RS232 PORTS	8			1			
M	4B	PROVIDES FOUR RS449 PORTS	9			1			
N	4B	PROVIDES FOUR V.35 PORTS	10			1			
P	4B	PROVIDES FOUR PORT INTERFACE CIRCUIT PACK (ACI).	11			1			
Z	4B	PROVIDES A NEW CODED "NP" CP MC-3F012A1	(1) (2) (3)		P P P	1 1 1	R R R		
3	4B	PROVIDES A NEW CODED "RI" CP	(1) (2) (3)		N,D N,D N,D	1 1 1	N N N		
D*		PROVIDES CABLING TO DATA FACILITIES CAB. FOR AUTOFLX.	H13			1	RS232 RS449 (SEE NOTE 60)		
R*		PROVIDES V.35 PROTOCOL.	H14			1			
S	6B	PROVIDES INTEGRATED RING NODE (IRN).	12	HA	ZD	1	ZC		
U		PROVIDES DIRECT V.35 POINT AT THE RING.	14				E		
V		PROVIDES FOR LONG MESSAGE FEATURE.	(1) (2) (3) (12)	G G G G		1 1 1 1			
N		PROVIDES TOKEN TRACING FEATURE.	(1) (2) (3)		D D D	1 1 1			
X		PROVIDES PROGRAMMING RESISTOR CONNECTOR	(1) (3)		ZE ZF	1 1			

**ENGINEERING NOTES**

51. SEE TABLE A FOR DRAWING FROM WHICH THIS DRAWING IS MADE.

52. ITEMS DESIGNATED WITH NUMBERS ARE COMMON FEATURES. ITEMS DESIGNATED BY LETTERS ARE OPTIONAL FEATURES.

53. ITEMS DESIGNATED WITH AN ASTERISK IN TABLE E CONTAIN FIGURES OR OPTIONS REQUIRED BUT NOT COVERED ON ASSOCIATED STANDARD EQUIPMENT MANUFACTURING DRAWING.

54. EQUIPMENT ARRANGEMENT:  
J3F011AC-1

55. CONNECTING DRAWING:  
T\*3F008-11 3B INTERFACE CKT  
T\*3F009-11 LINK NODE A CKT  
T\*3F014-11 LINK DISTRIBUTION FR  
T\*3F005-11 ANALOG FACILITIES ACCESS  
T\*3F006-11 DIGITAL FACILITIES ACCESS  
T\*3F021-11 DIGITAL FACILITIES ACCESS  
T\*3F023-11 DIGITAL FACILITIES ACCESS  
T\*3F029-11 DIGITAL FACILITIES ACCESS UNIT  
T\*94874-11 CCIS DATA SET FRAME  
SD-ZR236-01 DATA FACILITIES CAB. (APX)

56. THESE CABLES SHALL BE ORDERED WHEN THIS CIRCUIT (T\*3F010-11) IS THE LAST EQUIPPED CIRCUIT ON A RING NODE FRAME. IF T\*3F010-11 IS NOT THE LAST EQUIPPED CIRCUIT ON RING NODE FRAME, SEE T\*3F009-11 FOR ORDERING OF CABLE (ONLY ONE SET OF FOUR HE7( )-HE10( ) OR PD8-PD11 CABLES PER RM FR).

57. THE INFORMATION SHOWN IN THESE FIGURES IS FOR RECORD ONLY. THE WIRING DESCRIBED IS ORDERED ON ASSOCIATED J DRAWING.

58. ADDITIONAL FIGURES ARE SHOWN ON J3F011AC-TABLE A. THESE FIGURES SHOWN ON J3F011AC CORRESPOND TO APP FIG. SHOWN ON SD-3F010-01.

59. "PW" (PRINTED WIRING) AND GARDNER-DENVER APPLIED "D4" WIRING IS PER ED-3F014-30 AND D4J3F011AC-1.

60. FOR CABLE ASSIGNMENT SEE APPLICATION SCHEMATIC SD-ZR236-01.

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AW99

SIGNALING AND PACKET SWITCHING SYSTEM  
LINK NODE UNIT B CIRCUIT

DWG SIZE: C2  
ISSUE: 11

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TABLE G1 - CABLING (1PSS E-1 CAB. OR F-1 FR)													
ITEM	FIG.	OPT	LEADS PER FIG.	CABLES PER FIG.	CODE	FROM	CA DESIG	EQPT LOC	TO	CA DESIG	EQPT LOC	CABLE SHIELD	REMARKS
GA	GB	GC	GD	GE	GF	GG	GH	GJ	GK	GL	GM	GN	GN
1	H1		16	1	3129-0253	RNC/RNF LN B	PD8	LINK NODE A RO OUT BAL 300	RNC/RNF 3B1, LN A		3B1 OR LINK NODE A RO IN BAL 100	1	FORMED PER ED-3F064-37 GR14A. MAX LENGTH 50 FEET (SEE NOTE 56)
2	H1		16	1	3129-0253	RNC/RNF LN B	PD9	LINK NODE A RO OUT BAL 313	RNC/RNF 3B1, LN A		3B1 OR LINK NODE A RO IN BAL 113	1	FORMED PER ED-3F064-37 GR14B. MAX LENGTH 50 FEET (SEE NOTE 56)
3	H1		16	1	3129-0253	RNC/RNF LN B	PD10	LINK NODE A R1 IN BAL 100	RNC/RNF 3B1, LN A		3B1 OR LINK NODE A R1 OUT BAL 300	1	FORMED PER ED-3F064-37 GR14C. MAX LENGTH 50 FEET (SEE NOTE 56)
4	H1		16	1	3129-0253	RNC/RNF LN B	PD11	LINK NODE A R1 IN BAL 113	RNC/RNF 3B1, LN A		3B1 OR LINK NODE A R1 OUT BAL 313	1	FORMED PER ED-3F064-37 GR14D. MAX LENGTH 50 FEET (SEE NOTE 56)

TABLE G3 - CABLING (4ESS/ACI E-1 CAB)													
ITEM	FIG.	OPT	LEADS PER FIG.	CABLES PER FIG.	CODE	FROM	CA DESIG	EQPT LOC	TO	CA DESIG	EQPT LOC	CABLE SHIELD	REMARKS
GA	GB	GC	GD	GE	GF	GG	GH	GJ	GK	GL	GM	GN	GN
1	H1		16	1	3129-0253	RNC LN B	PD8	RO OUT BAL 300	RNC 3B1		RO IN BAL 100	1	FORMED PER ED-3F064-37 GR14A. MAX LENGTH 50 FEET (SEE NOTE 56)
2	H1		16	1	3129-0253	RNC LN B	PD9	RO OUT BAL 313	RNC 3B1		RO IN BAL 113	1	FORMED PER ED-3F064-37 GR14B. MAX LENGTH 50 FEET (SEE NOTE 56)
3	H1		16	1	3129-0253	RNC LN B	PD10	R1 IN BAL 100	RNC 3B1		R1 OUT BAL 300	1	FORMED PER ED-3F064-37 GR14C. MAX LENGTH 50 FEET (SEE NOTE 56)
4	H1		16	1	3129-0253	RNC LN B	PD11	R1 IN BAL 113	RNC 3B1		R1 OUT BAL 313	1	FORMED PER ED-3F064-37 GR14D. MAX LENGTH 50 FEET (SEE NOTE 56)

TABLE G2 - CABLING (NO. 2A STP E-1 CAB)													
ITEM	FIG.	OPT	LEADS PER FIG.	CABLES PER FIG.	CODE	FROM	CA DESIG	EQPT LOC	TO	CA DESIG	EQPT LOC	CABLE SHIELD	REMARKS
GA	GB	GC	GD	GE	GF	GG	GH	GJ	GK	GL	GM	GN	GN
1	H1		16	1	3129-0253	RNC LN B	PD8	RO OUT BAL 300	RNC 3B1, LN A		RO IN BAL 100	1	FORMED PER ED-3F064-37 GR14A. MAX LENGTH 50 FEET (SEE NOTE 56)
2	H1		16	1	3129-0253	RNC LN B	PD9	RO OUT BAL 313	RNC 3B1, LN A		RO IN BAL 113	1	FORMED PER ED-3F064-37 GR14B. MAX LENGTH 50 FEET (SEE NOTE 56)
3	H1		16	1	3129-0253	RNC LN B	PD10	R1 IN BAL 100	RNC 3B1, LN A		R1 OUT BAL 300	1	FORMED PER ED-3F064-37 GR14C. MAX LENGTH 50 FEET (SEE NOTE 56)
4	H1		16	1	3129-0253	RNC LN B	PD11	R1 IN BAL 113	RNC 3B1, LN A		R1 OUT BAL 313	1	FORMED PER ED-3F064-37 GR14D. MAX LENGTH 50 FEET (SEE NOTE 56)

TABLE G4 - CABLING (AUTOPEX)													
ITEM	FIG.	OPT	LEADS PER FIG.	CABLES PER FIG.	CODE	FROM	CA DESIG	EQPT LOC	TO	CA DESIG	EQPT LOC	CABLE SHIELD	REMARKS
GA	GB	GC	GD	GE	GF	GG	GH	GJ	GK	GL	GM	GN	GN
1	H13		11	1		RNC LN B	PD25		DATA FACILITIES (RS232)		(SEE NOTE 60)	3	FORMED PER ED-3F064-37, G16
3	H15		24	1		RNC LN B	PD27		DATA FACILITIES (RS449)		(SEE NOTE 60)	3	FORMED PER ED-3F064-37, G18
4	H1		16	1		RNC LN B	PD8	RO OUT BAL 300	RNC 3B1		RO IN BAL 100	1	FORMED PER ED-3F064-37 GR14A. MAX LENGTH 50 FEET (SEE NOTE 56)
5	H1		16	1		RNC LN B	PD9	RO OUT BAL 313	RNC 3B1		RO IN BAL 113	1	FORMED PER ED-3F064-37 GR14B. MAX LENGTH 50 FEET (SEE NOTE 56)
6	H1		16	1		RNC LN B	PD10	R1 IN BAL 100	RNC 3B1		R1 OUT BAL 300	1	FORMED PER ED-3F064-37 GR14C. MAX LENGTH 50 FEET (SEE NOTE 56)
7	H1		16	1		RNC LN B	PD11	R1 IN BAL 113	RNC 3B1		R1 OUT BAL 313	1	FORMED PER ED-3F064-37 GR14D. MAX LENGTH 50 FEET (SEE NOTE 56)

TABLE G5 - CABLING (V.35 PROTOCOL)													
ITEM	FIG.	OPT	LEADS PER FIG.	CABLES PER FIG.	CODE	FROM	CA DESIG	EQPT LOC	TO	CA DESIG	EQPT LOC	CABLE SHIELD	REMARKS
GA	GB	GC	GD	GE	GF	GG	GH	GJ	GK	GL	GM	GN	GN
1	H14		11	1		RNC LN B	PD26		DATA FACILITIES (V.35)			3	FORMED PER ED-3F064-37, G17
2	H16		13	1		RNC LN B	PD30		DFA CAB.			3	FORMED PER ED-3F064-37, G25

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LINK NODE B CIRCUIT		DWG SIZE	ISSUE
		C2	10
AT&T	CB	T*3F010-11	SHEET A3

FIGURE AND/OR OPTION	FUNCT ASOC TYPE	DESIG TYPE	CODE ASOC TYPE	NET OPT
04-018	E/W CP	TF	CDCP-461A 963C	
000	GRDC			
001	GRDC			
003	48RTNA			
004	48RTNA			
005	48RTNA			
006	-48A			
007	-48A			
008	-48A			
011	ORS			
017	OCPR1			
018	OSA			
019	OSA			
022	GRDC			
023	GRDC			
024	GRDC			
025	GRDC			
026	GRDC			
027	GRDC			
028	GRDC			
029	GRDC			
030	GRDC			
031	GRDC			
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033	GRDC			
034	GRDC			
035	GRDC			
036	GRDC			
037	GRDC			
038	GRDC			
039	GRDC			
040	GRDC			
041	GRDC			
042	GRDC			
043	GRDC			
045	SA			
046	SA			
047	SA			
048	SA			
049	SA			
050	SA			
051	SA			
052	SA			
053	SA			
054	SA			
055	SA			
056	SA			
100	GRDC			
101	GRDC			
102	48RTNA			
103	48RTNA			
104	48RTNA			
106	-48A			
107	-48A			
108	-48A			
110	ORS			
113	48RTNA			
117	OCPR2			
118	SA			
119	GRDC			
122	GRDC			
123	GRDC			
124	GRDC			
125	GRDC			
126	GRDC			
127	GRDC			
128	GRDC			
129	GRDC			
130	GRDC			
131	GRDC			
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155	SA			
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208	-48A			
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250	SA			
251	SA			
252	SA			
253	SA			
254	SA			
255	SA			
256	SA			
300	GRDC			
301	GRDC			
302	48RTNA			
303	48RTNA			
304	48RTNA			
306	-48A			
307	-48A			
308	-48A			
332	GRDC			
333	GRDC			

FIGURE AND/OR OPTION	FUNCT ASOC TYPE	DESIG TYPE	CODE ASOC TYPE	NET OPT
04-026	E/W CP	TF	CDCP-461A 963C	
000	GRDC			
001	GRDC			
002	GRDC			
003	GRDC			
004	GRDC			
005	GRDC			
006	GRDC			
007	GRDC			
008	GRDC			
009	GRDC			
010	GRDC			
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256	GRDC			
257	GRDC			
258	GRDC			
259	GRDC			
260	GRDC			
261				

FIGURE AND/OR OPTION	FUNCT ASOC TYPE	DESIG NET	TYPE ASOC CODE	CODE NET OPT
04-050 CONTINUED				
308	0A10		0A10	
309	0D7		0D7	
310	0D11		0D11	
311	0D15		0D15	
312	0RC15		0RC15	
313	0MATT		0MATT	
314	0RD		0RD	
315	0CCLK		0CCLK	
316	0RW		0RW	
317	0NPPF		0NPPF	
318	0DAKO		0DAKO	
319	0DAK1		0DAK1	
320	0DAK2		0DAK2	
321	0DAK3		0DAK3	
322	0RESET		0RESET	
323	0SANE		0SANE	
324	0CDA		0CDA	
325	0CDA		0CDA	
326	0CDA		0CDA	
327	0CDA		0CDA	
328	0CDA		0CDA	
329	0CDA		0CDA	
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FIGURE AND/OR OPTION	FUNCT ASOC TYPE	DESIG TYPE	TYPE ASOC CODE	CODE NET OPT
04-076	CONTINUED			
024	SA			
032	SA			
044	GRDB			
056	SA			
102	IA1			
103	IA5			
104	IA9			
105	IA13			
106	IA17			
107	IDPL			
108	ID1			
109	ID5			
110	ID9			
111	ID13			
112	GRDB			
113	IPEN			
114	IWR			
115	IDCLK			
116	IRBQ			
117	IRB2			
118	IRB4			
119	IXINT0			
124	SA			
132	SA			
137	GRDB			
141	GRDB			
142	GRDB			
144	GRDB			
150	GRDB			
154	GRDB			
156	SA			
200	GRDB			
201	OCPR2			
202	IA2			
203	IA6			
204	IA10			
205	IA14			
206	IA18			
207	IDPH			
208	ID2			
209	ID6			
210	ID10			
211	ID14			
212	INC2			
213	INC2			
214	INC1			
215	INC0			
216	INC0			
217	IEOP			
218	IDRQ0			
219	IDR01			
220	IDR02			
221	IDR03			
222	ISTW			
223	GRDB			
232	GRDB			
233	GRDB			
234	GRDBTIE			
235	GRDB			
238	GRDB			
240	GRDB			
244	GRDB			
248	GRDB			
251	GRDB			
253	GRDB			
255	GRDB			
256	GRDB			
300	IA0			
301	IA3			
302	IA7			
303	IA11			
304	IA15			
305	IA19			
306	IA23			
307	INC7			
308	ID3			
309	ID7			
310	ID11			
311	ID15			
312	ID19			
313	WAIT			
314	IRD			
315	ICCLK			
316	IWR			
317	INPPF			
318	IDAK0			
319	IDAK1			
320	IDAK2			
321	IDAK3			
322	IRESET			
323	ISANE			
324	GRDB			
332	GRDB			
333	IPEN			
334	ID0			
335	ID1			
336	ID2			
337	ID3			
338	ID4			
339	ID5			
340	ID6			
341	ID7			
342	ID8			
343	ID9			
344	GRDB			
346	ID1			
347	ID1			
356	GRDB			
04-084	TF	CDCP-461A		
000	E/W CP	963L		
001	SA			
002	OCPR1			
003	IA4			
004	IA8			
005	IA12			
006	IA16			
007	IBHE			
008	ID0			
009	ID4			
010	ID8			
011	ID12			
012	INC8			
013	INC6			
014	INC5			
015	INC4			
017	IRB3			
020	IQUARA			
021	IXRST0			
04-084	CONTINUED			

FIGURE AND/OR OPTION	FUNCT ASOC TYPE	DESIG TYPE	TYPE ASOC CODE	CODE NET OPT
04-084	CONTINUED			
004	IA8			
005	IA12			
006	IA16			
007	IBHE			
008	ID0			
009	ID4			
010	ID8			
011	ID12			
012	INC8			
013	INC6			
014	INC5			
015	INC4			
017	IRB3			
021	IXRST1			
024	SA			
032	SA			
044	GRD			
056	SA			
102	IA1			
103	IA5			
104	IA9			
105	IA13			
106	IA17			
107	IDPL			
108	ID1			
109	ID5			
110	ID9			
111	ID13			
112	GRDA			
113	IPEN			
114	IWR			
115	IDCLK			
117	IRB2			
119	IXINT0			
124	SA			
132	SA			
137	GRDB			
141	GRDB			
142	GRDB			
144	GRDB			
150	GRDB			
154	GRDB			
156	SA			
200	GRDB			
201	OCPR2			
202	IA2			
203	IA6			
204	IA10			
205	IA14			
206	IA18			
207	IDPH			
208	ID2			
209	ID6			
210	ID10			
211	ID14			
212	INC2			
213	INC2			
214	INC1			
215	INC0			
216	INC0			
217	IEOP			
218	IDRQ0			
219	IDR01			
220	IDR02			
221	IDR03			
222	ISTW			
223	GRDB			
232	GRDB			
233	GRDB			
234	GRDBTIE			
235	GRDB			
238	GRDB			
240	GRDB			
244	GRDB			
248	GRDB			
251	GRDB			
253	GRDB			
255	GRDB			
256	GRDB			
300	IA0			
301	IA3			
302	IA7			
303	IA11			
304	IA15			
305	IA19			
306	IA23			
307	INC7			
308	ID3			
309	ID7			
310	ID11			
311	ID15			
312	ID19			
313	WAIT			
314	IRD			
315	ICCLK			
316	IWR			
317	INPPF			
318	IDAK0			
319	IDAK1			
320	IDAK2			
321	IDAK3			
322	IRESET			
323	ISANE			
324	GRD			
332	GRD			
333	GRD			
334	GRD			
04-092	TF	CDCP-461A		
000	E/W CP	963L		
001	SA			
002	OCPR1			
003	IA4			
004	IA8			
005	IA12			
006	IA16			
007	IBHE			
008	ID0			
009	ID4			
010	ID8			
011	ID12			
012	INC8			
013	INC6			
014	INC5			
015	INC4			
017	IRB3			
020	IQUARA			
021	IXRST0			
04-092	CONTINUED			

FIGURE AND/OR OPTION	FUNCT ASOC TYPE	DESIG TYPE	TYPE ASOC CODE	CODE NET OPT
04-092	CONTINUED			
024	SA			
032	SA			
044	GRDA			
056	SA			
102	IA1			
103	IA5			
104	IA9			
105	IA13			
106	IA17			
107	IDPL			
108	ID1			
109	ID5			
110	ID9			
111	ID13			
112	GRDA			
113	IPEN			
114	IWR			
115	IDCLK			
117	IRB2			
119	IXINT0			
124	SA			
132	SA			
144	GRDA			
156	SA			
200	GRDA			
201	OCPR2			
202	IA2			
203	IA6			
204	IA10			
205	IA14			
206	IA18			
207	IDPH			
208	ID2			
209	ID6			
210	ID10			
211	ID14			
212	INC2			
213	INC2			
214	INC1			
215	INC0			
216	INC0			
217	IEOP			
218	IDRQ0			
219	IDR01			
220	IDR02			
221	IDR03			
222	ISTW			
223	GRDA			
232	GRDA			
233	GRDA			
234	GRDA			
235	GRDA			
238	GRDA			
240	GRDA			
244	GRDA			
248	GRDA			
251	GRDA			
253	GRDA			
255	GRDA			
256	GRDA			
300	IA0			
301	IA3			
302	IA7			
303	IA11			
304	IA15			
305	IA19			
306	IA23			
307	INC7			
308	ID3			
309	ID7			
310	ID11			
311	ID15			
312	ID19			
313	WAIT			
314	IRD			
315	ICCLK			
316	IWR			
317	INPPF			
318	IDAK0			
319	IDAK1			
320	IDAK2			
321	IDAK3			
322	IRESET			
323	ISANE			
324	GRDA			
332	GRDA			
333	GRDA			
334	GRDA			
04-100	TF	CDCP-661A		
000	E/W CP	963L		
001	SA			
002	OCPR1			
003	IA4			
004	IA8			
005	IA12			
006	IA16			
007	IBHE			
008	ID0			
009	ID4			
010	ID8			
011	ID12			
012	INC8			
013	INC6			
014	INC5			
015	INC4			
016	IRB1			
018	IQUARA			
019	ID0			
020	ID2			
021	ID4			
022	ID6			
023	ID8			
024	IBHE			
025	ID0			
026	ID4			
027				

FIGURE AND/OR OPTION	FUNCT ASOC TYPE	DESIG NET	TYPE ASOC CODE	CODE NET OPT
04-100			CONTINUED	
524	GRDD			
532	GRDD			
533	LDTR1			
534	LDADR0			
535	WRABEND			
536	WRGCHND			
537	WRNGSHD			
538	WRWQ			
539	WRSMERR			
540	ICERR0			
541	LDPHBYT			
542	ITDOSHRT			
543	IBLKO			
544	IPYERR0			
545	ICLRQUAR			
546	IDILP			
547	IDIL7			
548	IDIL6			
549	IDIL5			
550	GRDD			
551	ID041			
552	ID091			
553	ID021			
554	ID011			
555	ID001			
556	GRDD			
04-110			CONTINUED	
000	5B			
001	5B			
003	IA4			
004	IA8			
005	IA12			
006	IA16			
007	IB8E			
008	ID0			
009	ID4			
010	ID8			
011	ID12			
012	ING8			
013	ING4			
014	ING2			
015	ING1			
016	IRQ1			
018	IRQUAR			
019	IRDO			
020	IRD2			
021	IRD4			
022	IRD8			
023	IRD8			
024	5B			
025	5B			
026	GRDD			
027	2DR01			
028	2RG00			
029	5B			
030	IA1			
031	IA5			
032	IA9			
033	IA13			
034	IA17			
035	IDPL			
036	ID1			
037	ID5			
038	ID9			
039	ID13			
040	GRDD			
041	IPEN			
042	IPR			
043	IDCLK			
044	IRRQ0			
045	ID1			
046	ID3			
047	ID5			
048	ID7			
049	5B			
050	5B			
051	GRDD			
052	2RG01			
053	2DAR1			
054	5B			
055	IA2			
056	IA6			
057	IA10			
058	IA14			
059	IA18			
060	IDPH			
061	ID2			
062	ID6			
063	ID10			
064	ID14			
065	ING3			
066	ING2			
067	ING1			
068	ING0			
069	INT0			
070	IEOP			
071	IRQ0			
072	IRQ1			
073	IRQ2			
074	IRQ3			
075	IRFN			
076	ISTW			
077	5B			
078	5B			
079	GRDD			
080	IRG06			
081	IDTR1			
082	IRG05			
083	IDSR1			
084	IDSR1			
085	IDSR1			
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092	IDSR1			
093	IDSR1			
094	IDSR1			
095	IDSR1			
096	IDSR1			
097	IDSR1			
098	IDSR1			
099	IDSR1			
100	IDSR1			
04-110			CONTINUED	

FIGURE AND/OR OPTION	FUNCT ASOC TYPE	DESIG NET	TYPE ASOC CODE	CODE NET OPT
04-110			CONTINUED	
000	5B			
001	5B			
002	ICPR1			
003	IA4			
004	IA8			
005	IA12			
006	IA16			
007	IB8E			
008	ID0			
009	ID4			
010	ID8			
011	ID12			
012	ING8			
013	ING4			
014	ING2			
015	ING1			
016	IRQ1			
018	IRQUAR			
019	IRDO			
020	IRD2			
021	IRD4			
022	IRD8			
023	IRD8			
024	5B			
025	5B			
026	GRDD			
027	2DR01			
028	2RG00			
029	5B			
030	IA1			
031	IA5			
032	IA9			
033	IA13			
034	IA17			
035	IDPL			
036	ID1			
037	ID5			
038	ID9			
039	ID13			
040	GRDD			
041	IPEN			
042	IPR			
043	IDCLK			
044	IRRQ0			
045	ID1			
046	ID3			
047	ID5			
048	ID7			
049	5B			
050	5B			
051	GRDD			
052	2RG01			
053	2DAR1			
054	5B			
055	IA2			
056	IA6			
057	IA10			
058	IA14			
059	IA18			
060	IDPH			
061	ID2			
062	ID6			
063	ID10			
064	ID14			
065	ING3			
066	ING2			
067	ING1			
068	ING0			
069	INT0			
070	IEOP			
071	IRQ0			
072	IRQ1			
073	IRQ2			
074	IRQ3			
075	IRFN			
076	ISTW			
077	5B			
078	5B			
079	GRDD			
080	IRG06			
081	IDTR1			
082	IRG05			
083	IDSR1			
084	IDSR1			
085	IDSR1			
086	IDSR1			
087	IDSR1			
088	IDSR1			
089	IDSR1			
090	IDSR1			
091	IDSR1			
092	IDSR1			
093	IDSR1			
094	IDSR1			
095	IDSR1			
096	IDSR1			
097	IDSR1			
098	IDSR1			
099	IDSR1			
100	IDSR1			
04-110			CONTINUED	

FIGURE AND/OR OPTION	FUNCT ASOC TYPE	DESIG NET	TYPE ASOC CODE	CODE NET OPT
04-110			CONTINUED	
000	5B			
001	5B			
002	ICPR1			
003	IA4			
004	IA8			
005	IA12			
006	IA16			
007	IB8E			
008	ID0			
009	ID4			
010	ID8			
011	ID12			
012	ING8			
013	ING4			
014	ING2			
015	ING1			
016	IRQ1			
018	IRQUAR			
019	IRDO			
020	IRD2			
021	IRD4			
022	IRD8			
023	IRD8			
024	5B			
025	5B			
026	GRDD			
027	2DR01			
028	2RG00			
029	5B			
030	IA1			
031	IA5			
032	IA9			
033	IA13			
034	IA17			
035	IDPL			
036	ID1			
037	ID5			
038	ID9			
039	ID13			
040	GRDD			
041	IPEN			
042	IPR			
043	IDCLK			
044	IRRQ0			
045	ID1			
046	ID3			
047	ID5			
048	ID7			
049	5B			
050	5B			
051	GRDD			
052	2RG01			
053	2DAR1			
054	5B			
055	IA2			
056	IA6			
057	IA10			
058	IA14			
059	IA18			
060	IDPH			
061	ID2			
062	ID6			
063	ID10			
064	ID14			
065	ING3			
066	ING2			
067	ING1			
068	ING0			
069	INT0			
070	IEOP			
071	IRQ0			
072	IRQ1			
073	IRQ2			
074	IRQ3			
075	IRFN			
076	ISTW			
077	5B			
078	5B			
079	GRDD			
080	IRG06			
081	IDTR1			
082	IRG05			
083	IDSR1			
084	IDSR1			
085	IDSR1			
086	IDSR1			
087	IDSR1			
088	IDSR1			
089	IDSR1			
090	IDSR1			
091	IDSR1			
092	IDSR1			
093	IDSR1			
094	IDSR1			
095	IDSR1			
096	IDSR1			
097	IDSR1			
098	IDSR1			
099	IDSR1			
100	IDSR1			
04-110			CONTINUED	

FIGURE AND/OR OPTION	FUNCT ASOC TYPE	DESIG NET	TYPE ASOC CODE	CODE NET OPT
04-118			CONTINUED	
000	5B			
001	5B			
002	ICPR1			
003	IA4			
004	IA8			
005	IA12			
006	IA16			
007	IB8E			
008	ID0			
009	ID4			
010	ID8			
011	ID12			
012	ING8			
013	ING4			
014	ING2			
015	ING1			
016	IRQ1			
018	IRQUAR			
019	IRDO			
020	IRD2			
021	IRD4			
022	IRD8			
023	IRD8			
024	5B			
025	5B			
026	GRDD			
027	2DR01			
028	2RG00			
029	5B			
030	IA1			
031	IA5			
032	IA9			
033	IA13			
034	IA17			
035	IDPL			
036	ID1			
037	ID5			

FIGURE AND/OR OPTION	FUNCT ASOC TYPE ASOC CODE	DESIG TYPE ASOC CODE	TYPE ASOC CODE	CODE NET OPT
04-134	CONTINUED			
307	2NG7			
308	2D3			
309	2D7			
310	2D11			
311	2D15			
312	2RD1S			
313	2WAIT			
314	2RD			
315	2CCLK			
316	2RW			
317	2NPPF			
318	2DAK0			
319	2DAK1			
320	2DAK2			
321	2DAK3			
322	2RESE			
323	25ANE			
324	GRDA			
325	GRDA			
326	GRDA			
327	GRDA			
328	GRDA			
329	GRDA			
330	GRDA			
331	GRDA			
332	GRDA			
333	GRDA			
334	GRDA			
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336	GRDA			
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338	GRDA			
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340	GRDA			
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345	GRDA			
346	GRDA			
347	GRDA			
348	GRDA			
349	GRDA			
350	GRDA			
351	GRDA			
352	GRDA			
353	GRDA			
354	GRDA			
355	GRDA			
356	GRDA			
04-142	TF CDCP-661A			
000	E/W CP 963L			
001	5B			
002	5B			
003	2A4			
004	2A8			
005	2A12			
006	2A16			
007	2BHE			
008	2D0			
009	2D4			
010	2D8			
011	2D12			
012	2NG8			
013	2NG6			
014	2NG5			
015	2NG4			
016	2IRQ1			
018	2QUARA			
019	2D0			
020	2ID2			
021	2ID4			
022	2ID6			
023	2ID8			
024	5B			
025	5B			
026	2RG13			
027	2D7R0			
028	2RG12			
029	2D5R0			
030	2D7R0			
031	2RG10			
032	2D1R0			
033	2RG09			
034	2DTR0			
035	2RG07			
036	GRDA			
037	2RG06			
038	2D7R1			
039	2D7R1			
040	2D7R1			
041	2D7R1			
042	2D7R1			
043	2D7R1			
044	2D7R1			
045	2D7R1			
046	2D7R1			
047	2D7R1			
048	2D7R1			
049	2D7R1			
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239	2D7R1			
240	2D7R1			
241	2D7R1			
242	2D7R1			
243	2D7R1			
244	2D7R1			
245	2D7R1			

FIGURE AND/OR OPTION	FUNCT ASOC TERMINAL	DESIG TYPE NET	TYPE ASOC CODE	CODE NET OPT
04-162		CONTINUED		
115		GRDA		
124		5B		
132		5B		
134		30CRO		
135		306RO		
136		304RO		
137		30G11		
138		302RO		
139		30PRO		
140		300RO		
141		3RG08		
142		3DARO		
143		1P15B0		
144		GRDA		
145		1IMRO		
156		5B		
200		GRDA		
201		1CPR2		
212		GRDA		
224		GRDA		
232		GRDA		
243		1IPRES		
244		GRDA		
246		3RG06		
247		307R1		
248		3RG07		
249		305R1		
250		303R1		
251		3RG03		
252		301R1		
253		3RG02		
254		3DTR1		
255		3RG00		
256		GRDA		
300		GRDA		
301		GRDA		
302		GRDA		
312		GRDA		
314		GRDA		
315		GRDA		
324		GRDA		
332		GRDA		
344		GRDA		
347		30CR1		
348		306R1		
349		304R1		
350		3RG04		
351		302R1		
352		30PR1		
353		30DR1		
354		3RG01		
355		3DAR1		
356		GRDA		
04-178	TF	CCCP-461A		
	E/M CP	963C		
000		GRDC		
001		GRDC		
003		48RTNB		
004		48RTNB		
004		48RTNB		
005		48RTNB		
006		-48B		
007		-48B		
008		-48B		
011		1RS		
017		1CPR1		
018		1SA		
019		1SA		
032		GRDC		
033		GRDC		
034		GRDC		
035		GRDC		
036		GRDC		
037		GRDC		
038		GRDC		
039		GRDC		
040		GRDC		
041		GRDC		
042		GRDC		
043		GRDC		
045		5B		
046		5B		
047		5B		
048		5B		
049		5B		
050		5B		
051		5B		
052		5B		
053		5B		
054		5B		
055		5B		
056		5B		
100		GRDC		
101		GRDC		
102		48RTNB		
103		48RTNB		
104		48RTNB		
106		-48B		
107		-48B		
108		-48B		
110		1RS		
113		48RTNB		
117		1CPR2		
118		5B		
118		5B		
119		GRDC		
132		GRDC		
133		GRDC		
134		GRDC		
135		GRDC		
136		GRDC		
137		GRDC		
138		GRDC		
139		GRDC		
140		GRDC		
04-178		CONTINUED		

FIGURE AND/OR OPTION	FUNCT ASOC TERMINAL	DESIG TYPE NET	TYPE ASOC CODE	CODE NET OPT
04-178		CONTINUED		
141		GRDC		
142		GRDC		
143		GRDC		
145		5B		
145		5B		
146		5B		
147		5B		
148		5B		
149		5B		
150		5B		
151		5B		
152		5B		
153		5B		
154		5B		
155		5B		
156		5B		
200		GRDC		
201		GRDC		
203		48RTNB		
204		48RTNB		
205		48RTNB		
206		-48B		
207		-48B		
208		-48B		
232		GRDC		
233		GRDC		
234		GRDC		
235		GRDC		
236		GRDC		
237		GRDC		
238		GRDC		
239		GRDC		
240		GRDC		
241		GRDC		
242		GRDC		
243		GRDC		
245		5B		
246		5B		
247		5B		
248		5B		
249		5B		
250		5B		
251		5B		
252		5B		
253		5B		
254		5B		
255		5B		
256		5B		
300		GRDC		
301		GRDC		
302		48RTNB		
303		48RTNB		
304		48RTNB		
306		-48B		
307		-48B		
308		-48B		
332		GRDC		
333		GRDC		
334		GRDC		
335		GRDC		
336		GRDC		
337		GRDC		
338		GRDC		
339		GRDC		
340		GRDC		
341		GRDC		
342		GRDC		
343		GRDC		
345		5B		
346		5B		
347		5B		
348		5B		
349		5B		
350		5B		
351		5B		
352		5B		
353		5B		
354		5B		
355		5B		
356		5B		

NET ID NET OPT COMMON NET										NET ID NET OPT COMMON NET										NET ID NET OPT COMMON NET										NET ID NET OPT COMMON NET																	
TYPE FUNCT DESIG		TERMINAL PAIR		METH COLOR		GA INSLUL		AP OPTION		PT FN TN		TYPE FUNCT DESIG		TERMINAL PAIR		METH COLOR		GA INSLUL		AP OPTION		PT FN TN		TYPE FUNCT DESIG		TERMINAL PAIR		METH COLOR		GA INSLUL		AP OPTION		PT FN TN		TYPE FUNCT DESIG		TERMINAL PAIR		METH COLOR		GA INSLUL		AP OPTION		PT FN TN	
CONNECTING DRAWING AND NET										CONNECTING DRAWING AND NET										CONNECTING DRAWING AND NET										CONNECTING DRAWING AND NET																	
-48A (SIGNAL)										GRDA CONTINUED										GRDB CONTINUED										GRDC CONTINUED																	
TF	04-018	006									TF	04-134	144										TF	04-076	200									TF	04-018	242											
TF	04-018	007									TF	04-134	044										TF	04-076	300									TF	04-018	142											
TF	04-018	008									TF	04-134	256										TF	04-076	300									TF	04-018	141											
TF	04-018	106									TF	04-092	356										TF	04-076	200									TF	04-018	140											
TF	04-018	107									TF	04-092	256										TF	04-076	112									TF	04-018	139											
TF	04-018	108									TF	04-092	044										TF	04-076	324									TF	04-018	138											
TF	04-018	206									TF	04-092	144										TF	04-076	324									TF	04-018	137											
TF	04-018	207									TF	04-092	244										TF	04-076	240									TF	04-018	136											
TF	04-018	208									TF	04-092	344										TF	04-076	232									TF	04-018	135											
TF	04-018	306									TF	04-092	232										TF	04-076	232									TF	04-018	134											
TF	04-018	307									TF	04-092	332										TF	04-076	137									TF	04-018	133											
TF	04-018	308									TF	04-092	232										TF	04-076	232									TF	04-018	132											
-48B (SIGNAL)										GRDA CONTINUED										GRDB CONTINUED										GRDC CONTINUED																	
TF	04-178	006									TF	04-092	324										TF	04-076	232									TF	04-018	032											
TF	04-178	007									TF	04-092	112										TF	04-076	232									TF	04-018	033											
TF	04-178	008									TF	04-092	200										TF	04-076	141									TF	04-018	034											
TF	04-178	106									TF	04-092	300										TF	04-076	142									TF	04-018	035											
TF	04-178	107									TF	04-050	300										TF	04-076	044									TF	04-018	036											
TF	04-178	108									TF	04-050	200										TF	04-076	144									TF	04-018	037											
TF	04-178	206									TF	04-050	112										TF	04-076	244									TF	04-018	038											
TF	04-178	207									TF	04-050	324										TF	04-076	244									TF	04-018	039											
TF	04-178	208									TF	04-050	224										TF	04-076	150									TF	04-018	040											
TF	04-178	306									TF	04-050	232										TF	04-076	251									TF	04-018	041											
TF	04-178	307									TF	04-050	332										TF	04-076	253									TF	04-018	042											
TF	04-178	308									TF	04-050	244										TF	04-076	154									TF	04-018	043											
GRD (GROUND)										GRDB (GROUND)										GRDC (GROUND)										GRDC (GROUND)																	
TF	04-152	501									TF	04-050	256										TF	04-178	343									TF	04-110	332											
TF	04-152	500									TF	04-050	356										TF	04-178	243									TF	04-110	432											
TF	04-152	400									TF	04-026	256										TF	04-178	143									TF	04-110	532											
TF	04-152	112									TF	04-026	044										TF	04-178	043									TF	04-110	624											
TF	04-152	414									TF	04-026	244										TF	04-178	042									TF	04-110	724											
TF	04-152	419									TF	04-026	344										TF	04-178	041									TF	04-110	824											
TF	04-152	324									TF	04-026	232										TF	04-178	040									TF	04-110	919											
TF	04-152	424									TF	04-026	224										TF	04-178	039									TF	04-110	1014											
TF	04-152	524									TF	04-026	324										TF	04-178	038									TF	04-110	1112											
TF	04-152	532									TF	04-026	224										TF	04-178	037									TF	04-110	1212											
TF	04-152	432									TF	04-026	324										TF	04-178	036									TF	04-110	1314											
TF	04-152	332									TF	04-026	212										TF	04-178	035									TF	04-110	1414											
TF	04-152	044									TF	04-026	312										TF	04-178	034									TF	04-110	1514											
TF	04-152	144									TF	04-026	200										TF	04-178	033									TF	04-110	1614											
TF	04-152	244									TF	04-026	112										TF	04-178	032									TF	04-110	1714											
TF	04-152	344									TF	04-026	300										TF	04-178	031									TF	04-110	1814											
TF	04-152	447									TF	04-026	200										TF	04-178	030									TF	04-110	1914											
TF	04-152	550									TF	04-026	101										TF	04-178	029									TF	04-110	2014											
TF	04-152	556									TF	04-026	102										TF	04-178	028									TF	04-110	2114											
TF	04-152	456									TF	04-026	114										TF	04-178	027									TF	04-110	2214											
TF	04-152	356									TF	04-026	115										TF	04-178	026									TF	04-110	2314											
TF	04-126	356									TF	04-026	301										TF	04-178	025									TF	04-110	2414											
TF	04-126	256									TF	04-026	202										TF	04-178	024									TF	04-110	2514											
TF	04-126	044									TF	04-026	302										TF	04-178	023									TF	04-110	2614											
TF																																															



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TYPE	FNCT	DESIG	TERMINAL PAIR	METH	COLOR	GA	INSUL	AP	OPTION	PT	FN	TN	CONNECTIONS	DRAWING	AND	NET	TYPE	FNCT	DESIG	TERMINAL PAIR	METH	COLOR	GA	INSUL	AP	OPTION	PT	FN	TN	CONNECTIONS	DRAWING	AND	NET	TYPE	FNCT	DESIG	TERMINAL PAIR	METH	COLOR	GA	INSUL	AP	OPTION	PT	FN	TN	CONNECTIONS	DRAWING	AND	NET	TYPE	FNCT	DESIG	TERMINAL PAIR	METH	COLOR	GA	INSUL	AP	OPTION	PT	FN	TN	CONNECTIONS	DRAWING	AND	NET				
DDRQ1				(SIGNAL)													OD14				CONTINUED														OD8				(SIGNAL)														DIRQ2				(SIGNAL)														
TF 04-068			219	PW													TF 04-034			211															TF 04-068			010	PW														TF 04-050			117	PW														
TF 04-058			219	PW													TF 04-058			311	PW														TF 04-058			010	PW														TF 04-034			117	PW														
TF 04-050			219	PW													TF 04-050			311	PW														TF 04-042			010	PW														TF 04-034			017	(SIGNAL)														
TF 04-042			219	PW													TF 04-042			311	PW														TF 04-034			010	PW														TF 04-034			017	PW														
TF 04-034			219	PW													TF 04-034			311	PW														TF 04-034			010	PW														TF 04-034			017	(SIGNAL)														
DDRQ2				(SIGNAL)													OD2				(SIGNAL)														OD9				(SIGNAL)														DIRQ4				(SIGNAL)														
TF 04-068			220	PW													TF 04-068			208	PW														TF 04-068			110	PW														TF 04-042			117	(SIGNAL)														
TF 04-058			220	PW													TF 04-058			208	PW														TF 04-058			110	PW														TF 04-034			118	PW														
TF 04-050			220	PW													TF 04-050			208	PW														TF 04-042			110	PW														TF 04-034			018	(SIGNAL)														
TF 04-042			220	PW													TF 04-042			208	PW														TF 04-034			110	PW														TF 04-034			018	PW														
TF 04-034			220	PW													TF 04-034			208	PW														TF 04-034			110	PW														TF 04-034			018	PW														
DDRQ3				(SIGNAL)													OD2R0				(SIGNAL)														OEOP				(SIGNAL)														DIRQ5				(SIGNAL)														
TF 04-068			221	PW													TF 04-068			198	PW														TF 04-068			217	PW														TF 04-042			017	(SIGNAL)														
TF 04-058			221	PW													TF 04-058			198	PW														TF 04-058			217	PW														TF 04-034			018	PW														
TF 04-050			221	PW													TF 04-050			198	PW														TF 04-042			217	PW														TF 04-034			018	PW														
TF 04-042			221	PW													TF 04-042			198	PW														TF 04-034			217	PW														TF 04-034			018	PW														
TF 04-034			221	PW													TF 04-034			198	PW														TF 04-034			217	PW														TF 04-034			018	PW														
ODTID1				(SIGNAL)													OD2R1				(SIGNAL)														OFPROPPD				(SIGNAL)														DIRQ6				(SIGNAL)														
TF 04-068			593	D4	G												TF 04-068			351	D4	G													TF 04-068			417	D4	G													TF 04-042			117	(SIGNAL)														
TF 04-058			593	D4	G												TF 04-058			351	D4	G													TF 04-058			417	D4	G													TF 04-034			118	(SIGNAL)														
DDTZR0				(SIGNAL)													TF 04-068			151	D4	G													TF 04-068			410	D4	G													TF 04-034			018	(SIGNAL)														
TF 04-068			494	D4	G												TF 04-058			151	D4	G												TF 04-058			410	D4	G													TF 04-034			018	(SIGNAL)															
TF 04-058			494	D4	G												TF 04-058			151	D4	G											TF 04-058			410	D4	G													TF 04-034			018	(SIGNAL)																
ODTIR1				(SIGNAL)													OD3				(SIGNAL)															OID0				(SIGNAL)														DIRQ7				(SIGNAL)													
TF 04-068			440	D4	G												TF 04-068			308	PW														TF 04-068			394	PW														TF 04-042			017	(SIGNAL)														
TF 04-058			440	D4	G												TF 04-058			308	PW													TF 04-058			394	PW														TF 04-034			018	(SIGNAL)															
DDTOD1				(SIGNAL)													TF 04-050			308	PW												TF 04-050			394	PW														TF 04-034			018	(SIGNAL)																
TF 04-068			412	D4	G												TF 04-042			308	PW											TF 04-042			394	PW														TF 04-034			018	(SIGNAL)																	
TF 04-058			412	D4	G												TF 04-034			308	PW										TF 04-034			394	PW														TF 04-034			018	(SIGNAL)																		
DDTR0				(SIGNAL)													OD3R0				(SIGNAL)															OID1				(SIGNAL)														DIRQ8				(SIGNAL)													
TF 04-058			041	PW													TF 04-058			037	PW														TF 04-058			395	D4	G													TF 04-042			018	(SIGNAL)														
TF 04-026			241	D4	G												TF 04-026			237	D4	G													TF 04-026			119	D4	G													TF 04-034			018	(SIGNAL)														
TF 04-026			294	D4	G												TF 04-026			237	D4	G													TF 04-026			119	D4	G													TF 04-034			018	(SIGNAL)														





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TYPE		FUNCT		DESIG		TERMINAL PAIR		METH COLOR		GA INSUL AP OPTION PT FN TN		CONNECTING DRAWING AND NET		TYPE		FUNCT		DESIG		TERMINAL PAIR		METH COLOR		GA INSUL AP OPTION PT FN TN		CONNECTING DRAWING AND NET		TYPE		FUNCT		DESIG		TERMINAL PAIR		METH COLOR		GA INSUL AP OPTION PT FN TN		CONNECTING DRAWING AND NET		TYPE		FUNCT		DESIG		TERMINAL PAIR		METH COLOR		GA INSUL AP OPTION PT FN TN		CONNECTING DRAWING AND NET	
CONTINUED																																																							
TF	04-076		109											TF	04-076		349											TF	04-110		014											TF	04-110		507										
TF	04-100		036	(SIGNAL)								NOTE 49	TF	04-100		123										NOTE 49	TF	04-100		014										NOTE 49	TF	04-100		507										NOTE 49	
TF	04-058		296										TF	04-110		129										NOTE 11 4A	TF	04-092		014										NOTE 49	TF	04-100		507										NOTE 49	
TF	04-058		049	(SIGNAL)								NOTE 49	TF	04-100		510										NOTE 11 4A	TF	04-084		014										NOTE 49	TF	04-076		312										NOTE 49	
TF	04-100		249										TF	04-100		510										NOTE 11 4A	TF	04-100		312										NOTE 49	TF	04-092		312										NOTE 49	
TF	04-110		249									NOTE 11 4A	TF	04-142		049	(SIGNAL)									NOTE 49	TF	04-076		312										NOTE 49	TF	04-076		312										NOTE 49	
TF	04-110		209	(SIGNAL)								NOTE 49	TF	04-142		049										NOTE 49	TF	04-110		513										NOTE 11 4A	TF	04-100		513										NOTE 11 4A	
TF	04-100		209									NOTE 49	TF	04-142		145	(SIGNAL)									NOTE 49	TF	04-100		513										NOTE 11 4A	TF	04-100		439	(SIGNAL)									NOTE 11 4A	
TF	04-092		209									NOTE 49	TF	04-142		139										NOTE 49	TF	04-100		439										NOTE 11 4A	TF	04-100		439										NOTE 11 4A	
TF	04-084		209									NOTE 49	TF	04-100		405	(SIGNAL)									NOTE 11 4A	TF	04-100		307	(GROUND)									NOTE 49	TF	04-100		307										NOTE 49	
TF	04-076		209									NOTE 49	TF	04-110		405										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-100		195	(SIGNAL)								NOTE 49	TF	04-110		405										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-058		995										TF	04-110		505	(SIGNAL)									NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-058		148	(SIGNAL)								NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-100		948									NOTE 11 4A	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-110		948									NOTE 11 4A	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-110		309	(SIGNAL)								NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-100		309									NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-092		309									NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-084		309									NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-076		309									NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-100		094	(SIGNAL)								NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-058		294										TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-100		047	(SIGNAL)								NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-100		247									NOTE 11 4A	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-110		247									NOTE 11 4A	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-110		010	(SIGNAL)								NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-100		010									NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-092		010									NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-084		010									NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-076		010									NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-110		110	(SIGNAL)								NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-100		110									NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-092		110									NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-084		110									NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-076		110									NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-110		217	(SIGNAL)								NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-100		217									NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307										NOTE 49	TF	04-100		307										NOTE 49	
TF	04-092		217									NOTE 49	TF	04-110		505										NOTE 11 4A	TF	04-100		307																									

NET ID NET OPT COMMON NET						NET ID NET OPT COMMON NET						NET ID NET OPT COMMON NET						NET ID NET OPT COMMON NET					
TYPE	FUNCT	DESIG	TERMINAL PAIR	METH COLOR	GA INSUL AP OPTION PT FN TN	TYPE	FUNCT	DESIG	TERMINAL PAIR	METH COLOR	GA INSUL AP OPTION PT FN TN	TYPE	FUNCT	DESIG	TERMINAL PAIR	METH COLOR	GA INSUL AP OPTION PT FN TN	TYPE	FUNCT	DESIG	TERMINAL PAIR	METH COLOR	GA INSUL AP OPTION PT FN TN
CONNECTING DRAWING AND NET						CONNECTING DRAWING AND NET						CONNECTING DRAWING AND NET						CONNECTING DRAWING AND NET					
IRW	04-110	316	(SIGNAL)			IXINT1	04-084	119	(SIGNAL)			2A5	04-152	109	(SIGNAL)			2DAK1	04-118	319	CONTINUED		
TF	04-100	316	PW		NOTE 49	TF	04-076	019	PW		NOTE 49	TF	04-142	109	PW		NOTE 49	TF	04-152	320	(SIGNAL)		NOTE 49
TF	04-092	316	PW		NOTE 49	TF	04-092	021	PW		NOTE 49	TF	04-134	109	PW		NOTE 49	TF	04-142	320	PW		NOTE 49
TF	04-084	316	PW		NOTE 49	IXRST0	04-076	021	(SIGNAL)			TF	04-126	109	PW		NOTE 49	TF	04-134	320	PW		NOTE 49
TF	04-076	316	PW		NOTE 49	TF	04-092	021	PW		NOTE 49	TF	04-118	109	PW		NOTE 49	TF	04-126	320	PW		NOTE 49
ISA	04-178	018	(SIGNAL)	D4 G	30NOTE 11 1B	(XRST1	04-076	022	(SIGNAL)			2A6	04-152	209	(SIGNAL)			TF	04-118	320	PW		NOTE 49
TF	04-178	019	D4			TF	04-084	021	PW		NOTE 49	TF	04-142	209	PW		NOTE 49	TF	04-142	321	(SIGNAL)		NOTE 49
ISAME	04-110	323	(SIGNAL)			2A0	04-152	301	(SIGNAL)			TF	04-134	209	PW		NOTE 49	TF	04-134	321	PW		NOTE 49
TF	04-100	323	PW		NOTE 49	TF	04-142	301	PW		NOTE 49	TF	04-126	209	PW		NOTE 49	TF	04-126	321	PW		NOTE 49
TF	04-092	323	PW		NOTE 49	TF	04-134	301	PW		NOTE 49	TF	04-118	209	PW		NOTE 49	TF	04-118	321	PW		NOTE 49
TF	04-084	323	PW		NOTE 49	TF	04-126	301	PW		NOTE 49	2A7	04-152	303	(SIGNAL)			2DAK3	04-152	321	(SIGNAL)		NOTE 49
TF	04-076	323	PW		NOTE 49	TF	04-118	301	PW		NOTE 49	TF	04-142	303	PW		NOTE 49	TF	04-142	321	PW		NOTE 49
ISBEASTB	04-110	521	(SIGNAL)	D4 G	30NOTE 11 4A	2A1	04-152	102	(SIGNAL)			TF	04-134	303	PW		NOTE 49	TF	04-134	321	PW		NOTE 49
TF	04-100	521	D4			TF	04-142	102	PW		NOTE 49	TF	04-126	303	PW		NOTE 49	TF	04-118	321	PW		NOTE 49
ISISOLO	04-110	442	(SIGNAL)	D4 G	30NOTE 11 4A	TF	04-134	102	PW		NOTE 49	2A8	04-152	004	(SIGNAL)			TF	04-152	512	(SIGNAL)	D4 G	30NOTE 11 4A
TF	04-100	442	D4			TF	04-126	102	PW		NOTE 49	TF	04-142	004	PW		NOTE 49	TF	04-142	512	D4		
ISHTB	04-110	421	(SIGNAL)	D4 G	30NOTE 11 4A	TF	04-118	102	PW		NOTE 49	TF	04-134	004	PW		NOTE 49	2DA0R0	04-152	534	(SIGNAL)	D4 G	30NOTE 11 4A
TF	04-100	421	D4			2A10	04-152	204	(SIGNAL)			TF	04-126	004	PW		NOTE 49	TF	04-142	534	D4		
ISP1	04-100	401	(SIGNAL)	D4 G	30NOTE 11 4A	TF	04-118	204	PW		NOTE 49	TF	04-118	004	PW		NOTE 49	2DA0R1	04-152	511	(SIGNAL)	D4 G	30NOTE 11 4A
TF	04-110	401	D4			TF	04-142	204	PW		NOTE 49	TF	04-118	004	PW		NOTE 49	TF	04-142	511	D4		
ISP2	04-110	406	(SIGNAL)	D4 G	30NOTE 11 4A	TF	04-134	204	PW		NOTE 49	2A9	04-152	104	(SIGNAL)			2DAR0	04-142	142	(SIGNAL)	PW	NOTE 49
TF	04-100	406	D4			TF	04-126	204	PW		NOTE 49	TF	04-142	104	PW		NOTE 49	TF	04-100	342	D4		
ISP3	04-110	435	(SIGNAL)	D4 G	30NOTE 11 4A	TF	04-118	204	PW		NOTE 49	TF	04-134	104	PW		NOTE 49	2DAR1	04-110	155	(SIGNAL)	D4 G	30NOTE 11 4A
TF	04-100	435	D4			2A11	04-152	304	(SIGNAL)			TF	04-126	104	PW		NOTE 49	TF	04-110	155	D4		
ISP4	04-110	413	(SIGNAL)	D4 G	30NOTE 11 4A	TF	04-142	304	PW		NOTE 49	TF	04-118	104	PW		NOTE 49	TF	04-100	356	D4		
TF	04-100	413	D4			TF	04-134	304	PW		NOTE 49	2BHE	04-152	007	(SIGNAL)			TF	04-100	356	D4		
ISQUARE	04-110	444	(SIGNAL)	D4 G	30NOTE 11 4A	TF	04-126	304	PW		NOTE 49	TF	04-142	007	PW		NOTE 49	TF	04-152	355	D4		
TF	04-100	444	D4			TF	04-118	304	PW		NOTE 49	TF	04-126	007	PW		NOTE 49	2CLK	04-152	115	(SIGNAL)		
ISTW	04-110	223	(SIGNAL)			2A12	04-152	005	(SIGNAL)			TF	04-142	007	PW		NOTE 49	TF	04-142	115	PW		NOTE 49
TF	04-100	223	PW		NOTE 49	TF	04-142	005	PW		NOTE 49	TF	04-134	007	PW		NOTE 49	TF	04-134	115	PW		NOTE 49
TF	04-092	223	PW		NOTE 49	TF	04-126	005	PW		NOTE 49	TF	04-118	007	PW		NOTE 49	TF	04-126	115	PW		NOTE 49
TF	04-084	223	PW		NOTE 49	TF	04-118	005	PW		NOTE 49	2BLK051	04-152	415	(SIGNAL)	D4 G	30NOTE 11 4A	TF	04-118	115	PW		NOTE 49
TF	04-076	223	PW		NOTE 49	2A19	04-152	105	(SIGNAL)			TF	04-142	415	D4			2DCK0	04-142	134	(SIGNAL)	PW	NOTE 49
ITOKDAG	04-110	506	(SIGNAL)	D4 G	30NOTE 11 4A	TF	04-142	105	PW		NOTE 49	TF	04-134	415	D4			TF	04-100	334	D4		
TF	04-100	506	D4			TF	04-126	105	PW		NOTE 49	2BLK100	04-152	418	(SIGNAL)	D4 G	30NOTE 11 4A	2DCR1	04-100	147	(SIGNAL)	PW	NOTE 49
ITOSHRT	04-110	542	(SIGNAL)	D4 G	30NOTE 11 4A	TF	04-118	105	PW		NOTE 49	TF	04-142	418	D4			TF	04-142	347	D4		
TF	04-100	542	D4			2A14	04-152	205	(SIGNAL)			2BLK0	04-152	543	(SIGNAL)	D4 G	30NOTE 11 4A	TF	04-152	347	D4		
ITP1	04-100	509	(SIGNAL)	D4 G	30NOTE 11 4A	TF	04-142	205	PW		NOTE 49	TF	04-142	543	D4			2DIL0	04-152	450	(SIGNAL)	D4 G	30NOTE 11 4A
TF	04-110	509	D4			TF	04-134	205	PW		NOTE 49	TF	04-118	543	D4			TF	04-142	450	D4		
ITWR00	04-110	438	(SIGNAL)	D4 G	30NOTE 11 4A	TF	04-126	205	PW		NOTE 49	2CBLK0	04-142	403	(SIGNAL)	D4 G	30NOTE 11 4A	2DIL1	04-152	449	(SIGNAL)	D4 G	30NOTE 11 4A
TF	04-100	438	D4			TF	04-118	205	PW		NOTE 49	TF	04-152	403	D4			TF	04-142	449	D4		
ITWR10	04-100	504	(SIGNAL)	D4 G	30NOTE 11 4A	2A15	04-152	305	(SIGNAL)			2CCLK	04-152	315	(SIGNAL)			2DIL2	04-152	448	(SIGNAL)	D4 G	30NOTE 11 4A
TF	04-110	504	D4			TF	04-142	305	PW		NOTE 49	TF	04-142	315	PW		NOTE 49	TF	04-142	448	D4		
ITOI	04-076	346	(SIGNAL)	D4 G	30NOTE 11 1B	TF	04-134	305	PW		NOTE 49	TF	04-134	315	PW		NOTE 49	2DIL3	04-152	446	(SIGNAL)	D4 G	30NOTE 11 4A
TF	04-076	347	D4			TF	04-126	305	PW		NOTE 49	TF	04-118	315	PW		NOTE 49	TF	04-142	446	D4		
IUNCK0	04-110	437	(SIGNAL)	D4 G	30NOTE 11 4A	TF	04-118	305	PW		NOTE 49	2CI	04-152	343	(SIGNAL)	D4 G	30NOTE 11 4A	2DIL4	04-152	445	(SIGNAL)	D4 G	30NOTE 11 4A
TF	04-100	437	D4			2A16	04-152	006	(SIGNAL)			TF	04-142	343	D4			TF	04-142	445	D4		
IWAET	04-110	313	(SIGNAL)			TF	04-142	006	PW		NOTE 49	2CIERR0	04-152	540	(SIGNAL)	D4 G	30NOTE 11 4A	2DIL5	04-152	549	(SIGNAL)	D4 G	30NOTE 11 4A
TF	04-100	313	PW		NOTE 49	TF	04-134	006	PW		NOTE 49	TF	04-142	540	D4			TF	04-142	549	D4		
TF	04-092	313	PW		NOTE 49	TF	04-126	006	PW		NOTE 49	2CISOLO	04-152	443	(SIGNAL)	D4 G	30NOTE 11 4A	2DIL6	04-152	549	(SIGNAL)	D4 G	30NOTE 11 4A
TF	04-084	313	PW		NOTE 49	TF	04-118	006	PW		NOTE 49	TF	04-118	443	D4			TF	04-142	549	D4		
TF	04-076	313	PW		NOTE 49	2A17	04-152	106	(SIGNAL)			2CLRERR0	04-142	402	(SIGNAL)	D4 G	30NOTE 11 4A	2DIL7	04-152	547	(SIGNAL)	D4 G	30NOTE 11 4A
IWR	04-110	114	(SIGNAL)			TF	04-142	106	PW		NOTE 49	TF	04-152	402	D4			TF	04-142	547	D4		
TF	04-100	114	PW		NOTE 49	TF	04-134	106	PW		NOTE 49	2C0	04-152	345	(SIGNAL)	D4 G	30NOTE 11 4A	2DMAR0T0	04-152	517	(SIGNAL)	D4 G	30NOTE 11 4A
TF	04-092	114	PW		NOTE 49	TF	04-126	106	PW		NOTE 49	TF	04-142	345	D4			TF	04-142	517	D4		
TF	04-084	114	PW		NOTE 49	TF	04-118	106	PW		NOTE 49	2CR0Y0	04-152	523	(SIGNAL)	D4 G	30NOTE 11 4A	2D0C1	04-152	451	(SIGNAL)	D4 G	30NOTE 11 4A
TF	04-076	114	PW		NOTE 49	2A2	04-152	202	(SIGNAL)			TF	04-142	523	D4			TF	04-142	451	D4		
IWRABEND	04-110	535	(SIGNAL)	D4 G	30NOTE 11 4A	TF	04-142	202	PW		NOTE 49	2CR0Y1	04-152	520	(SIGNAL)	D4 G	30NOTE 11 4A	2D0P1	04-152	452	(SIGNAL)	D4 G	30NOTE 11 4A
TF	04-100	535	D4			TF	04-134	202	PW		NOTE 49	TF	04-142	520	D4			TF	04-142	452	D4		
IWRNPTY	04-110	433	(SIGNAL)	D4 G	30NOTE 11 4A	TF	04-126	202	PW		NOTE 49	2DAZB	04-152	522	(SIGNAL)	D4 G	30NOTE 11 4A	2D001	04-152	555	(SIGNAL)	D4 G	30NOTE 11 4A
TF	04-100	433	D4			TF	04-118	202	PW		NOTE 49	TF	04-142	522	D4			TF	04-142	555	D4		
IWRSMERR	04-110	539	(SIGNAL)	D4 G	30NOTE 11 4A	2A3	04-152	302	(SIGNAL)			2DAK0	04-152	318	(SIGNAL)			TF	04-152	318	PW		NOTE 49
TF	04-100	539	D4			TF	04-142	302	PW		NOTE 49	TF	04-142	318	PW		NOTE 49	TF	04-142	318	P		

NET ID NET OPT COMMON NET										NET ID NET OPT COMMON NET										NET ID NET OPT COMMON NET										NET ID NET OPT COMMON NET																									
TYPE	FNCT	DESIG	TERMINAL PAIR	METH PATH	COLOR	GA	INSUL	AP	OPTION	PT	FN	TN	CONNECTING DRAWING AND NET	TYPE	FNCT	DESIG	TERMINAL PAIR	METH PATH	COLOR	GA	INSUL	AP	OPTION	PT	FN	TN	CONNECTING DRAWING AND NET	TYPE	FNCT	DESIG	TERMINAL PAIR	METH PATH	COLOR	GA	INSUL	AP	OPTION	PT	FN	TN	CONNECTING DRAWING AND NET	TYPE	FNCT	DESIG	TERMINAL PAIR	METH PATH	COLOR	GA	INSUL	AP	OPTION	PT	FN	TN	CONNECTING DRAWING AND NET
2D011				(SIGNAL)									NOTE 49	2D0R0				(SIGNAL)									NOTE 49	2D5				(SIGNAL)									NOTE 49	21D8				(SIGNAL)									NOTE 49
TF 04-152		554	D4	G									NOTE 49	TF 04-142		140											NOTE 49	TF 04-152		109											NOTE 49	TF 04-118		342											NOTE 49
TF 04-142		554												TF 04-100		340												TF 04-142		109											NOTE 49	TF 04-142		023	D4	G									NOTE 11 4A
2D021				(SIGNAL)									NOTE 49	2D0R1				(SIGNAL)									NOTE 49	2D5R0				(SIGNAL)									NOTE 49	21D9				(SIGNAL)									NOTE 49
TF 04-152		553	D4	G									NOTE 49	TF 04-100		153											NOTE 49	TF 04-142		036											NOTE 49	TF 04-118		343											NOTE 49
TF 04-142		553												TF 04-142		353	D4	G									NOTE 11 4A	TF 04-100		236											NOTE 49	TF 04-142		123	D4	G									NOTE 11 4A
2D031				(SIGNAL)									NOTE 49	2D1				(SIGNAL)									NOTE 49	2D5R1				(SIGNAL)									NOTE 49	21D10				(SIGNAL)									NOTE 49
TF 04-152		552	D4	G									NOTE 49	TF 04-152		108											NOTE 49	TF 04-100		036											NOTE 49	TF 04-152		510											NOTE 49
TF 04-142		552												TF 04-142		108											NOTE 49	TF 04-142		249	D4	G									NOTE 11 4A	TF 04-152		123											NOTE 11 4A
2D041				(SIGNAL)									NOTE 49	2D1R0				(SIGNAL)									NOTE 49	2D5R1				(SIGNAL)									NOTE 49	21D11				(SIGNAL)									NOTE 49
TF 04-152		551	D4	G									NOTE 49	TF 04-174		108											NOTE 49	TF 04-100		049											NOTE 49	TF 04-152		510											NOTE 49
TF 04-142		551												TF 04-174		108											NOTE 49	TF 04-142		249	D4	G									NOTE 11 4A	TF 04-152		510											NOTE 11 4A
2D051				(SIGNAL)									NOTE 49	2D1R1				(SIGNAL)									NOTE 49	2D5R1				(SIGNAL)									NOTE 49	21D12				(SIGNAL)									NOTE 49
TF 04-152		455	D4	G									NOTE 49	TF 04-142		079											NOTE 49	TF 04-100		052											NOTE 49	TF 04-152		405											NOTE 49
TF 04-142		455												TF 04-100		239											NOTE 49	TF 04-142		252	D4	G									NOTE 11 4A	TF 04-152		405											NOTE 11 4A
2D061				(SIGNAL)									NOTE 49	2D1R1				(SIGNAL)									NOTE 49	2D5R1				(SIGNAL)									NOTE 49	21D13				(SIGNAL)									NOTE 49
TF 04-152		454	D4	G									NOTE 49	TF 04-100		052											NOTE 49	TF 04-142		249	D4	G									NOTE 11 4A	TF 04-152		505											NOTE 49
TF 04-142		454												TF 04-142		252	D4	G									NOTE 11 4A	TF 04-152		505											NOTE 49	TF 04-152		505											NOTE 11 4A
2D071				(SIGNAL)									NOTE 49	2D1R1				(SIGNAL)									NOTE 49	2D5R1				(SIGNAL)									NOTE 49	21D14				(SIGNAL)									NOTE 49
TF 04-152		453	D4	G									NOTE 49	TF 04-152		210											NOTE 49	TF 04-100		148											NOTE 49	TF 04-152		116											NOTE 49
TF 04-142		453												TF 04-142		210											NOTE 49	TF 04-142		348	D4	G									NOTE 11 4A	TF 04-152		116											NOTE 11 4A
2DPH				(SIGNAL)									NOTE 49	2D1R1				(SIGNAL)									NOTE 49	2D5R1				(SIGNAL)									NOTE 49	21D15				(SIGNAL)									NOTE 49
TF 04-152		207	PW										NOTE 49	TF 04-152		210											NOTE 49	TF 04-100		148											NOTE 49	TF 04-152		116											NOTE 49
TF 04-142		207	PW										NOTE 49	TF 04-142		210											NOTE 49	TF 04-142		348	D4	G									NOTE 11 4A	TF 04-152		116											NOTE 11 4A
TF 04-134		207	PW										NOTE 49	TF 04-134		210											NOTE 49	TF 04-152		348	D4	G									NOTE 11 4A	TF 04-152		116											NOTE 11 4A
TF 04-126		207	PW										NOTE 49	TF 04-118		210											NOTE 49	TF 04-152		348	D4	G									NOTE 11 4A	TF 04-152		116											NOTE 11 4A
TF 04-118		207																																																					
2DPL				(SIGNAL)									NOTE 49	2D1R1				(SIGNAL)									NOTE 49	2D5R1				(SIGNAL)									NOTE 49	21D16				(SIGNAL)									NOTE 49
TF 04-152		107	PW										NOTE 49	TF 04-152		310											NOTE 49	TF 04-100		148											NOTE 49	TF 04-152		117											NOTE 49
TF 04-142		107	PW										NOTE 49	TF 04-142		310											NOTE 49	TF 04-142		309											NOTE 49	TF 04-152		117											NOTE 49
TF 04-134		107	PW										NOTE 49	TF 04-134		310											NOTE 49	TF 04-152		309											NOTE 49	TF 04-152		117											NOTE 49
TF 04-118		107	PW										NOTE 49	TF 04-126		310											NOTE 49	TF 04-152		309											NOTE 49	TF 04-152		117											NOTE 49
2DPR0				(SIGNAL)									NOTE 49	2D1R1				(SIGNAL)									NOTE 49	2D5R1				(SIGNAL)									NOTE 49	21D17				(SIGNAL)									NOTE 49</

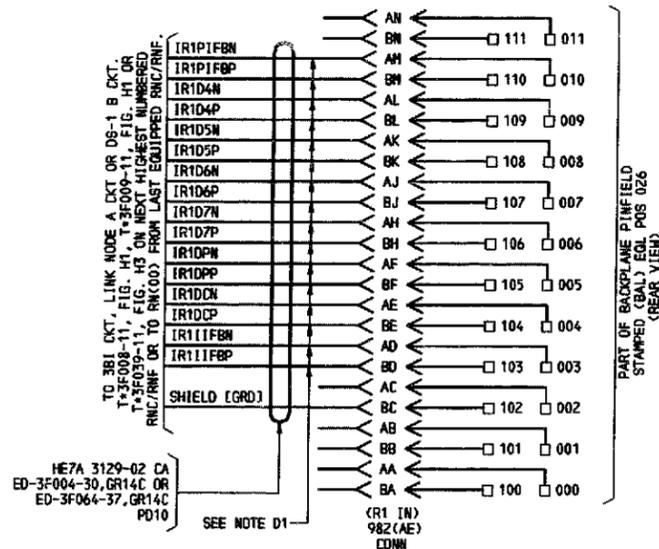
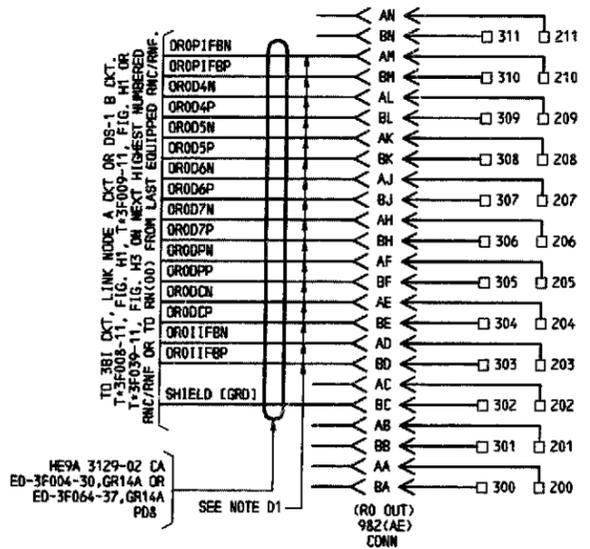
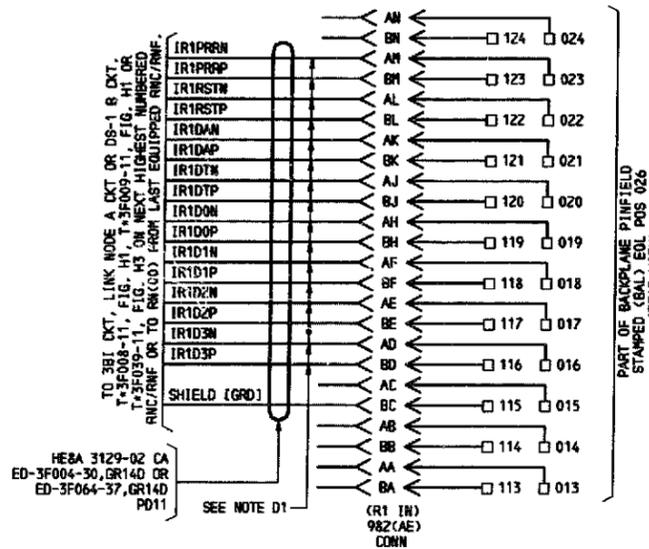
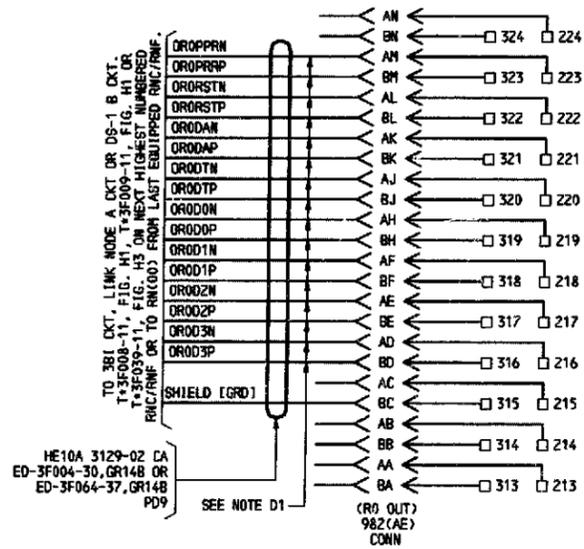


NET ID	NET OPT	COMMON NET	GA	INSUL	AP	OPTION	PT	FN	TN
TYPE	DESIG	TERMINAL PAIR	METH	COLOR	CONNECTING	DRAWING	AND	NET	
3RG07		(GROUND)							
TF	04-162	042	PW						NOTE 49
TF	04-142	242	PW						
3RG08		(GROUND)							
TF	04-162	141	PW						NOTE 49
TF	04-142	341	PW						
3RG09		(GROUND)							
TF	04-162	040	PW						NOTE 49
TF	04-142	240	PW						
3RG10		(GROUND)							
TF	04-162	038	PW						NOTE 49
TF	04-142	238	PW						
3RG11		(GROUND)							
TF	04-162	137	PW						NOTE 49
TF	04-142	337	PW						
3RG12		(GROUND)							
TF	04-162	035	PW						NOTE 49
TF	04-142	235	PW						
3RG13		(GROUND)							
TF	04-162	033	PW						NOTE 49
TF	04-142	233	PW						
4BRTNA		(SIGNAL)							
TF	04-018	003	PW						NOTE 49
TF	04-018	004	PW						NOTE 49
TF	04-018	005	PW						NOTE 49
TF	04-018	102	PW						NOTE 49
TF	04-018	103	PW						NOTE 49
TF	04-018	203	PW						NOTE 49
TF	04-018	204	PW						NOTE 49
TF	04-018	205	PW						NOTE 49
TF	04-018	302	PW						NOTE 49
TF	04-018	303	PW						NOTE 49
TF	04-018	304	PW						NOTE 49
TF	04-018	104	D4	G					30NOTE 11 48
TF	04-018	113	D4	G					
4BRTNB		(SIGNAL)							
TF	04-178	003	PW						NOTE 49
TF	04-178	004	PW						NOTE 49
TF	04-178	005	PW						NOTE 49
TF	04-178	102	PW						NOTE 49
TF	04-178	103	PW						NOTE 49
TF	04-178	104	PW						NOTE 49
TF	04-178	204	PW						NOTE 49
TF	04-178	205	PW						NOTE 49
TF	04-178	302	PW						NOTE 49
TF	04-178	303	PW						NOTE 49
TF	04-178	304	PW						NOTE 49
TF	04-178	113	D4	G					30NOTE 11 48
TF	04-178	004	D4	G					
5A		(BATTERY)							
TF	04-018	355	PW						NOTE 49
TF	04-018	354	PW						NOTE 49
TF	04-018	353	PW						NOTE 49
TF	04-018	352	PW						NOTE 49
TF	04-018	351	PW						NOTE 49
TF	04-018	350	PW						NOTE 49
TF	04-018	349	PW						NOTE 49
TF	04-018	348	PW						NOTE 49
TF	04-018	347	PW						NOTE 49
TF	04-018	346	PW						NOTE 49
TF	04-018	246	PW						NOTE 49
TF	04-018	247	PW						NOTE 49
TF	04-018	248	PW						NOTE 49
TF	04-018	249	PW						NOTE 49
TF	04-018	250	PW						NOTE 49
TF	04-018	251	PW						NOTE 49
TF	04-018	252	PW						NOTE 49
TF	04-018	253	PW						NOTE 49
TF	04-018	254	PW						NOTE 49
TF	04-018	255	PW						NOTE 49
TF	04-018	155	PW						NOTE 49
TF	04-018	154	PW						NOTE 49
TF	04-018	153	PW						NOTE 49
TF	04-018	152	PW						NOTE 49
TF	04-018	151	PW						NOTE 49
TF	04-018	150	PW						NOTE 49
TF	04-018	149	PW						NOTE 49
TF	04-018	148	PW						NOTE 49
TF	04-018	147	PW						NOTE 49
TF	04-018	146	PW						NOTE 49
TF	04-018	045	PW						NOTE 49
TF	04-018	046	PW						NOTE 49
TF	04-018	047	PW						NOTE 49
TF	04-018	048	PW						NOTE 49
TF	04-018	049	PW						NOTE 49
TF	04-018	050	PW						NOTE 49
TF	04-018	051	PW						NOTE 49
TF	04-018	052	PW						NOTE 49
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TF	04-018	055	PW						NOTE 49
TF	04-018	056	PW						NOTE 49
TF	04-018	156	PW						NOTE 49
TF	04-018	256	PW						NOTE 49
TF	04-018	356	PW						NOTE 49
TF	04-026	056	PW						NOTE 49
TF	04-026	156	PW						NOTE 49
TF	04-034	056	PW						NOTE 49
TF	04-034	156	PW						NOTE 49
TF	04-042	056	PW						NOTE 49
TF	04-042	156	PW						NOTE 49
TF	04-050	056	PW						NOTE 49
TF	04-050	156	PW						NOTE 49
TF	04-058	056	PW						NOTE 49
TF	04-058	156	PW						NOTE 49

NET ID	NET OPT	COMMON NET	GA	INSUL	AP	OPTION	PT	FN	TN
TYPE	DESIG	TERMINAL PAIR	METH	COLOR	CONNECTING	DRAWING	AND	NET	
5A		(GROUND)							
TF	04-058	256	PW						NOTE 49
TF	04-068	056	PW						NOTE 49
TF	04-068	156	PW						NOTE 49
TF	04-076	056	PW						NOTE 49
TF	04-076	156	PW						NOTE 49
TF	04-084	056	PW						NOTE 49
TF	04-084	156	PW						NOTE 49
TF	04-092	056	PW						NOTE 49
TF	04-092	156	PW						NOTE 49
TF	04-092	132	PW						NOTE 49
TF	04-084	132	PW						NOTE 49
TF	04-084	032	PW						NOTE 49
TF	04-076	032	PW						NOTE 49
TF	04-076	132	PW						NOTE 49
TF	04-068	232	PW						NOTE 49
TF	04-068	132	PW						NOTE 49
TF	04-068	032	PW						NOTE 49
TF	04-058	232	PW						NOTE 49
TF	04-058	132	PW						NOTE 49
TF	04-058	032	PW						NOTE 49
TF	04-050	132	PW						NOTE 49
TF	04-050	032	PW						NOTE 49
TF	04-042	132	PW						NOTE 49
TF	04-042	032	PW						NOTE 49
TF	04-034	132	PW						NOTE 49
TF	04-034	032	PW						NOTE 49
TF	04-026	132	PW						NOTE 49
TF	04-026	024	PW						NOTE 49
TF	04-026	124	PW						NOTE 49
TF	04-034	024	PW						NOTE 49
TF	04-034	124	PW						NOTE 49
TF	04-042	124	PW						NOTE 49
TF	04-042	024	PW						NOTE 49
TF	04-050	024	PW						NOTE 49
TF	04-050	124	PW						NOTE 49
TF	04-058	124	PW						NOTE 49
TF	04-058	024	PW						NOTE 49
TF	04-068	224	PW						NOTE 49
TF	04-068	124	PW						NOTE 49
TF	04-068	024	PW						NOTE 49
TF	04-076	124	PW						NOTE 49
TF	04-076	024	PW						NOTE 49
TF	04-084	124	PW						NOTE 49
TF	04-084	024	PW						NOTE 49
TF	04-092	024	PW						NOTE 49
TF	04-092	124	PW						NOTE 49
TF	04-092	001	PW						NOTE 49
TF	04-092	000	PW						NOTE 49
TF	04-084	001	PW						NOTE 49
TF	04-084	000	PW						NOTE 49
TF	04-076	001	PW						NOTE 49
TF	04-076	000	PW						

# FIG. H1

BALANCED RING BUS CABLING



STOP	INST
X	X

MANUFACTURING NOTES

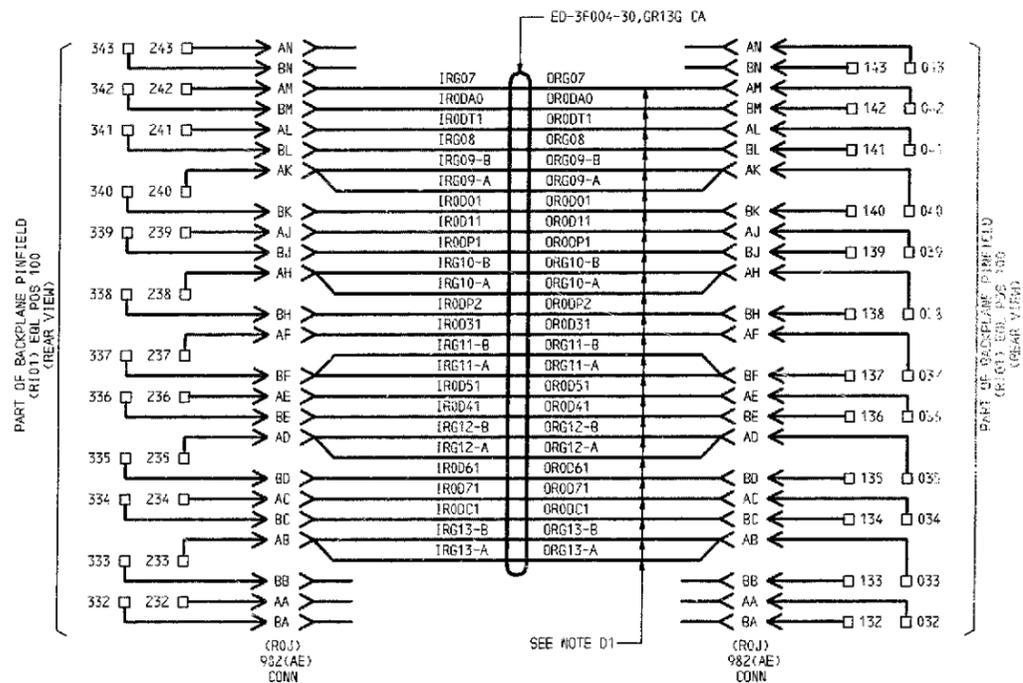
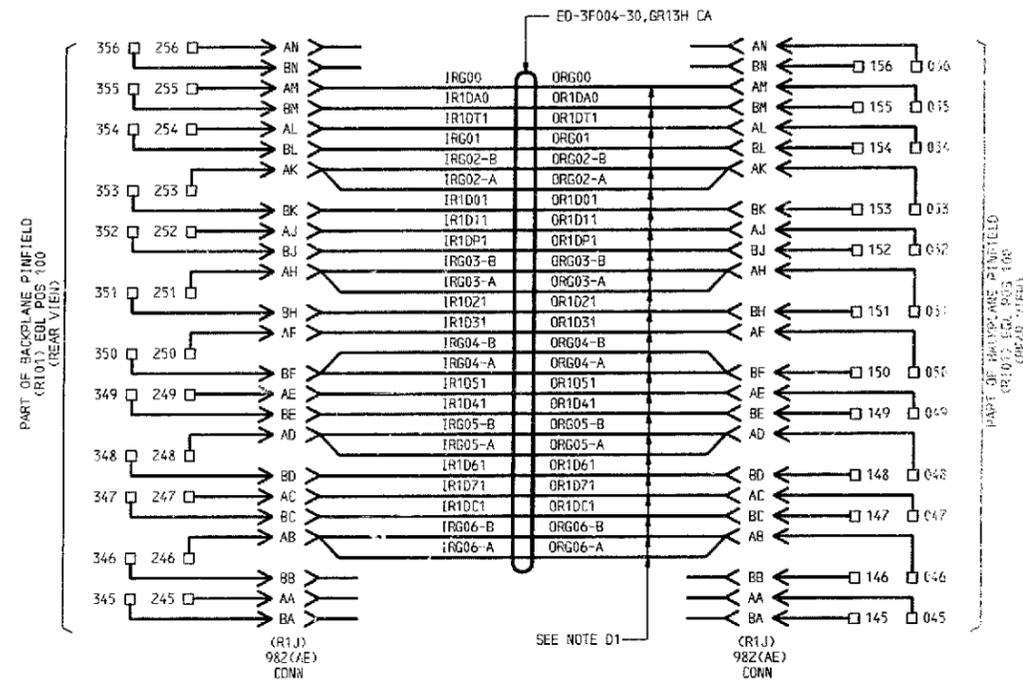
D1. THE FIRST LETTER IN EACH LEAD DESIGNATION IS EITHER A "O" FOR OUTPUT OR "I" FOR INPUT. OUTPUT LEADS FROM THIS CIRCUIT WILL CONNECT AS INPUT LEADS OF CONNECTING CIRCUIT. LIKEWISE, INPUT LEADS OF THIS CIRCUIT WILL CONNECT AS OUTPUT LEADS OF CONNECTING CIRCUIT.

SHEET	SH NO.	D1	D2	D3	D4	D5	D6	D7	D8	D9
INDEX	ISSUE	11	4	7	9	9	9	6	11	10

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LINK NODE B CIRCUIT		DWG SIZE	ISSUE
		C2	11
AT&T	T*3F010-11	SHEET 01	

FIG. H2 (MFR DISC)



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LINK NODE B CIRCUIT		DWG SIZE	ISSUE
		C2	4
AT&T TECHNOLOGIES, INC.		T*3F010-11	SHEET 02

FIG. H4

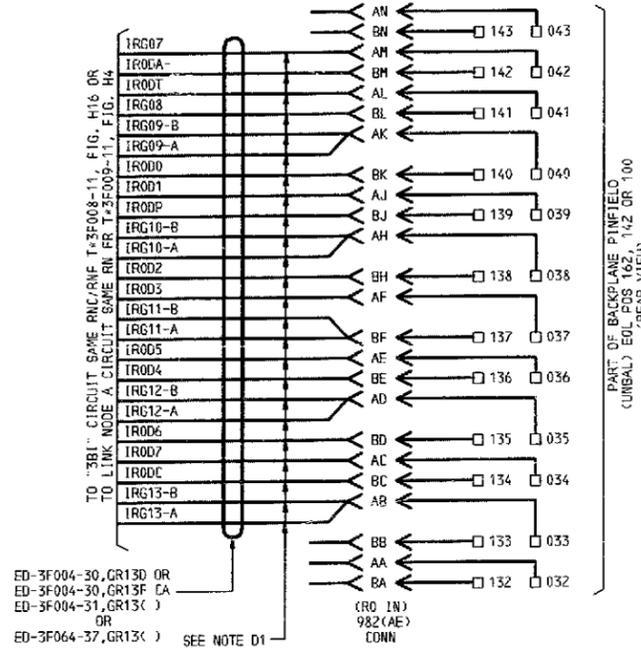
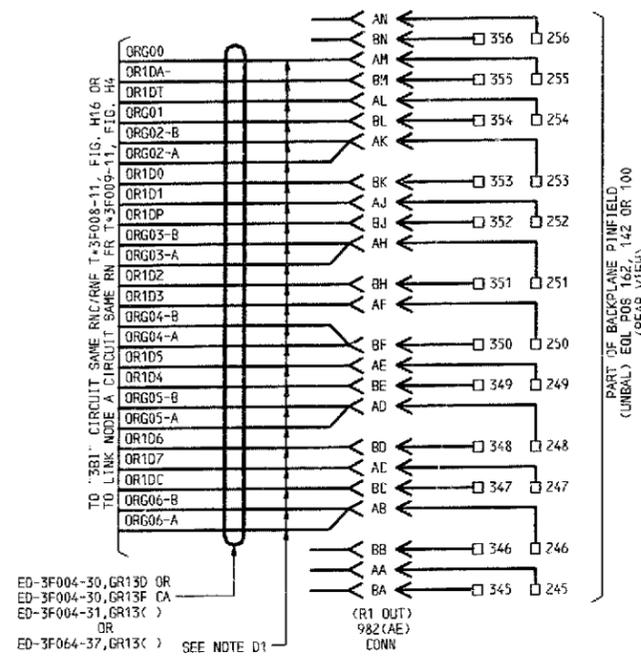
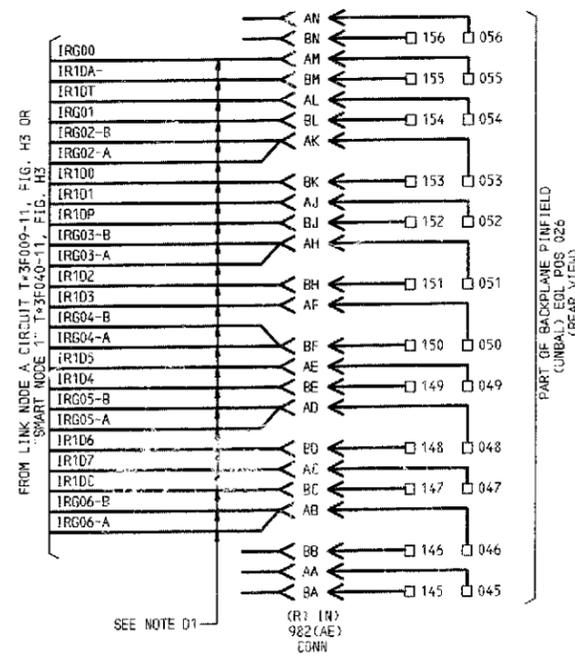
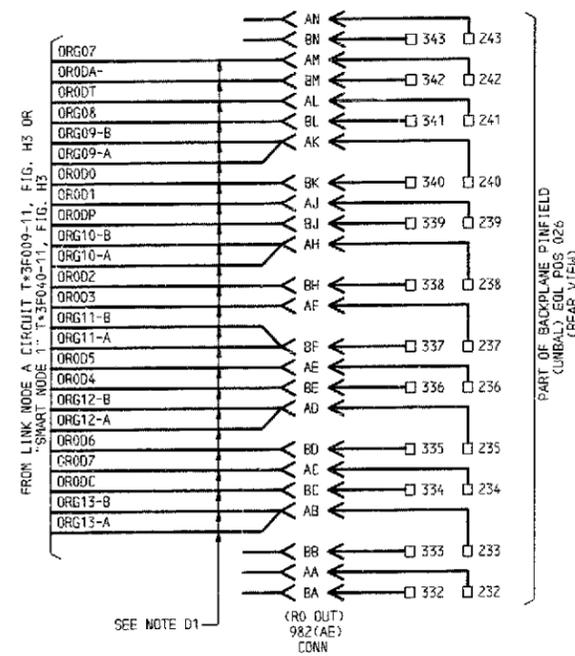


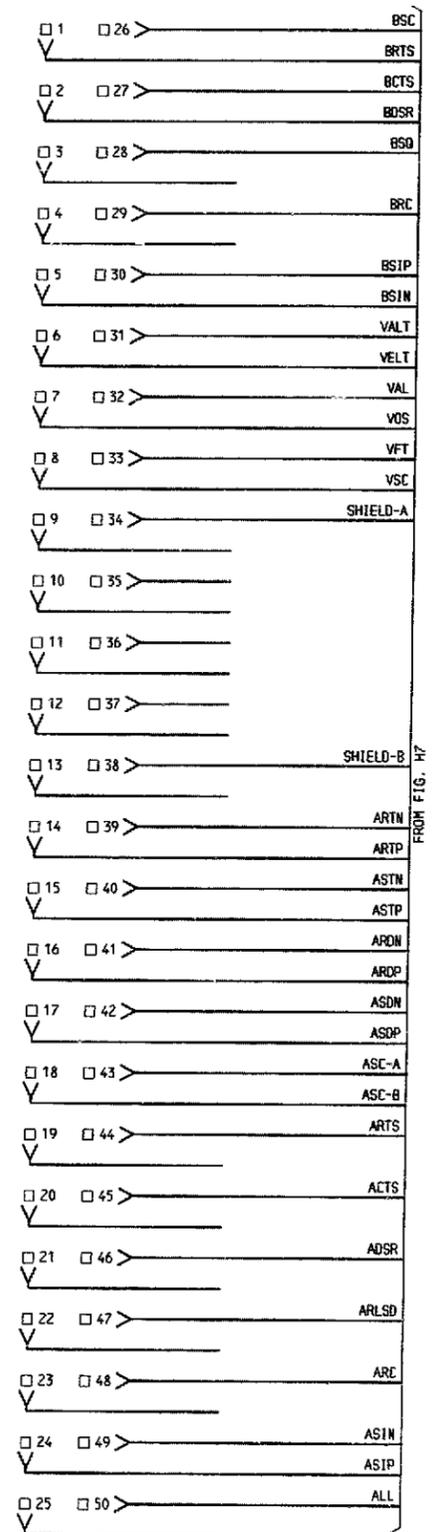
FIG. H5



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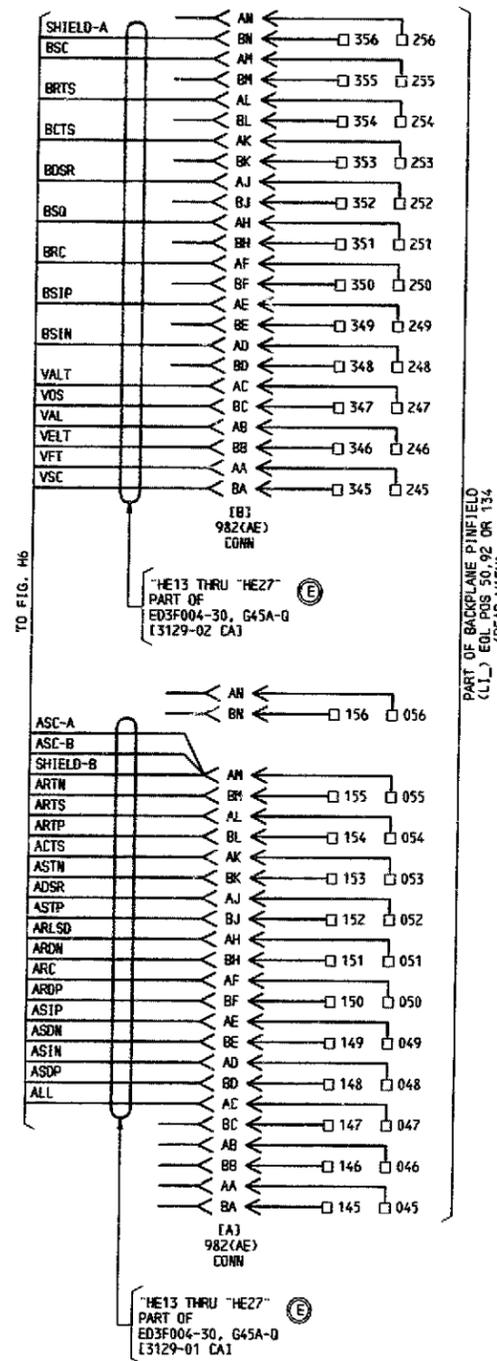
LINK NODE B CIRCUIT	DWG SIZE	ISSUE
	C2	7
AT&T TECHNOLOGIES, INC.	T*3F010-11	SHEET D3

FIG. H6



[C] KS-16786, L19 CONN ON LINK DISTRIBUTION FRAME

FIG. H7



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LINK NODE B CIRCUIT	DWG SIZE	ISSUE
	C2	9
AT&T TECHNOLOGIES, INC.	T*3F010-11	SHEET 04



FIG. H10

FOR RS232C PROTOCOL

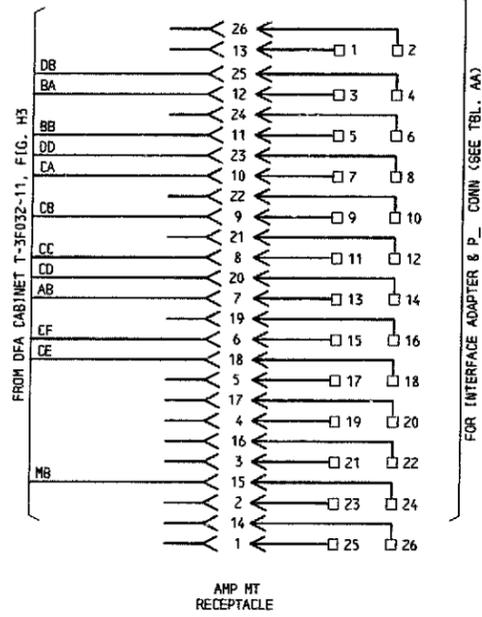


FIG. H11

FOR V.35 PROTOCOL

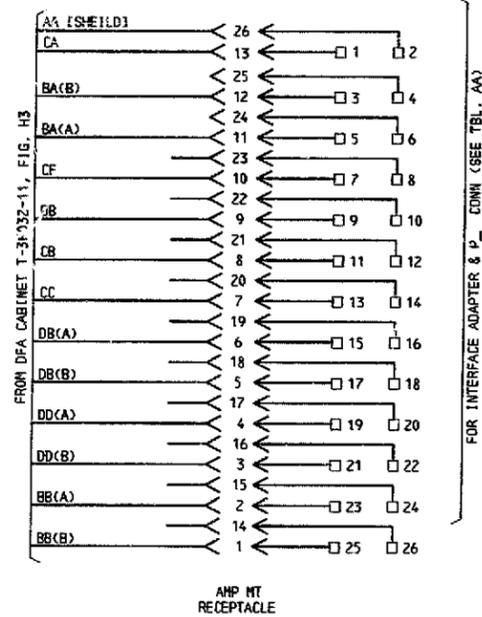


FIG. H12

FOR RS449 PROTOCOL

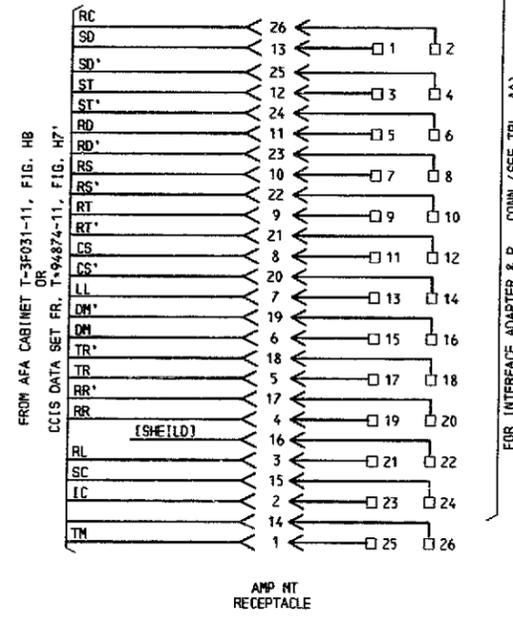


TABLE AA  
(INTERFACE ADAPTER & P. CONN)  
10A, 11A, 12A OR 13A

IA NAME	IA EQL	P. CONN EQL
01A0	04-126R	07-126
		05-126
		01-126
01A1	04-134R	07-134
		05-134
		03-134
		01-134
11A0	04-084R	07-084
		05-084
		03-084
		01-084
11A1	04-092R	07-092
		05-092
		03-092
		01-092
21A0	04-042R	07-042
		05-042
		03-042
		01-042
21A1	04-050R	07-050
		05-050
		03-050
		01-050

FIG. H13

FOR RS232C PROTOCOL

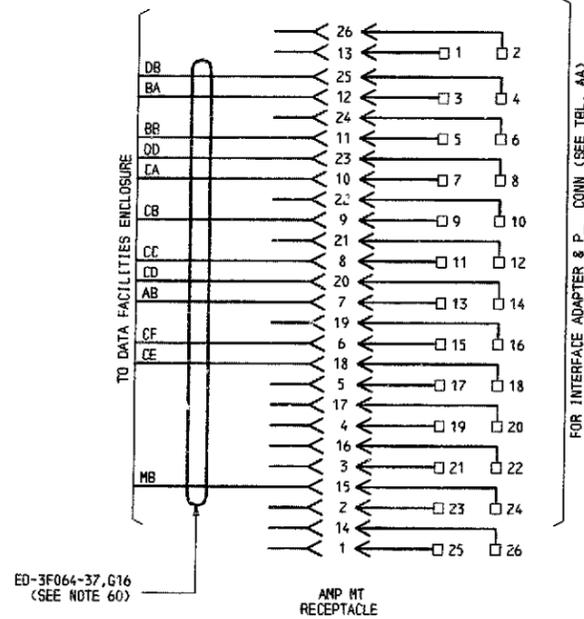


FIG. H14

FOR V.35 PROTOCOL

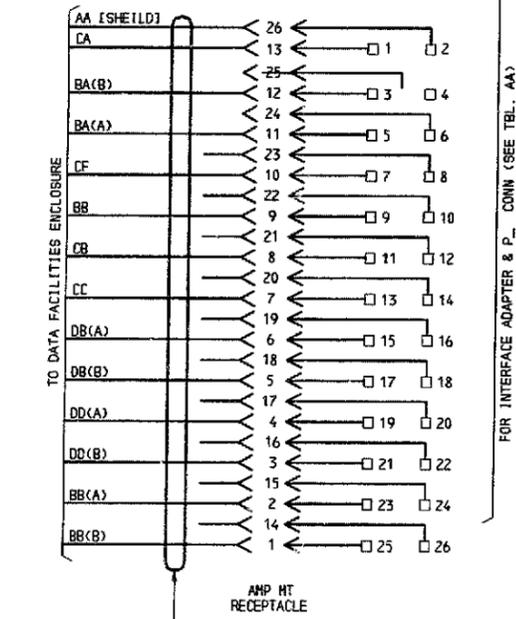
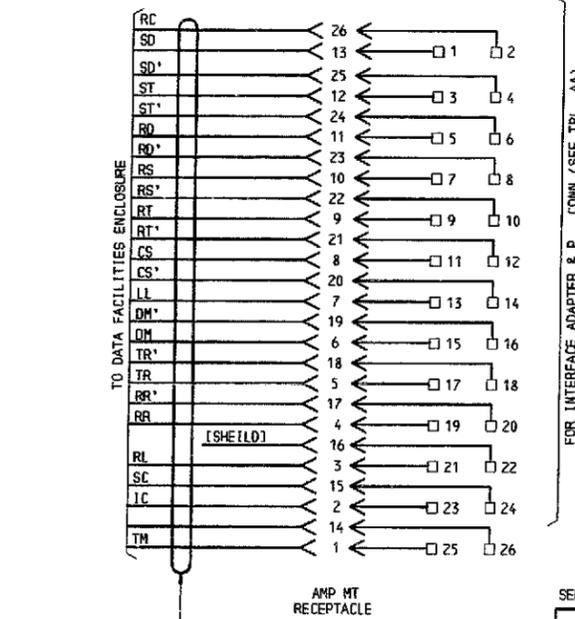


FIG. H15

FOR RS449 PROTOCOL

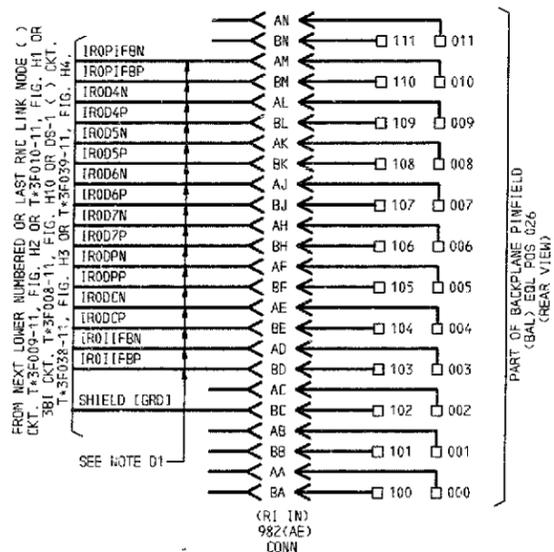
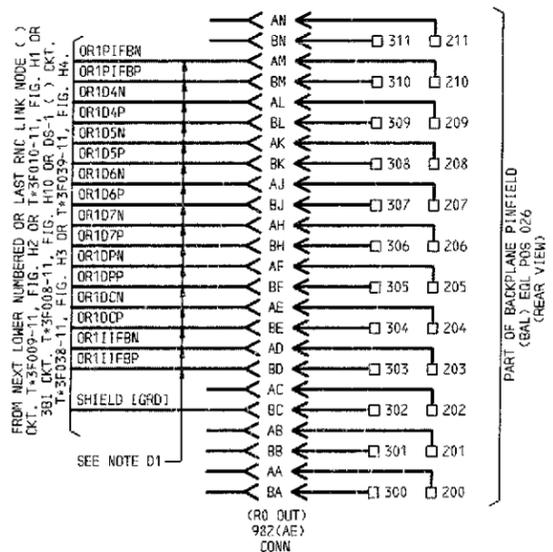
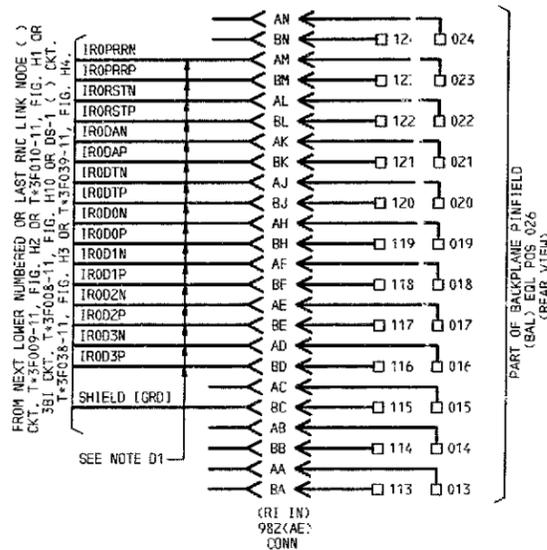
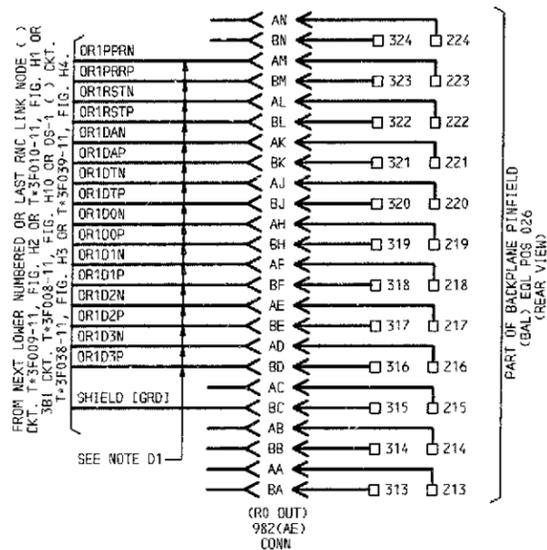


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LINK NODE B CIRCUIT	DWG SIZE	ISSUE
	C2	9
AT&T TECHNOLOGIES, INC.	T*3F010-11	SHEET D6

# FIG. H3

BALANCED RING BUS CABLING  
(GROWTH)



SHOP	
INST	
X	X

MANUFACTURING NOTES

D1. THE FIRST LETTER IN EACH LEAD DESIGNATION IS EITHER A "O" FOR OUTPUT OR "I" FOR INPUT. OUTPUT LEADS FROM THIS CIRCUIT WILL CONNECT AS INPUT LEADS OF CONNECTING CIRCUIT. LIKEWISE, INPUT LEADS FROM THIS CIRCUIT WILL CONNECT AS OUTPUT LEADS OF CONNECTING CIRCUIT.

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LINK NODE B CIRCUIT		DWG SIZE	ISSUE
		C2	6
AT&T TECHNOLOGIES, INC.	T*3F010-11	SHEET D7	

TABLE D (SYSTEM APPLICATION & ASSOCIATED FIG./APP)

APPLICATION	FIG.												FIG. & APP		FIG. & APP		FIG. & APP		FIG. & APP		FIG. & APP		FIG. & APP		FIG. & APP		FIG.		FIG.		
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12	1,P,R,M,N,D,ZE,ZF	2,P,R,M,N,D,ZE,ZF	3,P,R,M,N,D,ZE,ZF	4,V	4,W	4,X	4,Z	5,U	5,T	6	7	8	9	10	11	12	13	14	
NO. 2 STP (J3F011A-1)	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ONI (FOR NCP FR) J3F011B-1			X									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ONI (FOR SESS CAB.) J3F011C-1			X					X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ONI (FOR NCP CAB.) J3F011D-1			X									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1PSS-R4 E-1 OR F-1	X	X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ACT 4ESS E-1	X	X	X									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2A STP E-1	X	X	X									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
APX E-1	X	X	X									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1AESS B-1 FR	X											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

FIG. 1

CIRCUIT PACK

OPT	DESIG	CODE	EQL
Q	NP2	MC3F006A1	04-034
R		MC3F007A1	04-034
	PNBA	495F1 OR 495FA	04-018
N	R102	UN122	04-058
N	R112	UN123	04-068
M	R102	UN122B	04-058
D OR M	R112	UN123B	04-068
P	NP2	MC3F012A1	04-034
D	R102	UN122C	04-058

FROM		STRAPPING		TO		
OPT	DESIG	EQL	TERM	DESIG	EQL	TERM
G	R102	04-058	118	R102	04-058	112
G	R112	04-068	118	R112	04-068	112

CONNECTOR

OPT	DESIG	CODE	EQL
ZE	CA	ED-3F064-37	04-008
		G37	

FIG. 2

CIRCUIT PACK

OPT	DESIG	CODE	EQL
G	NP1	MC3F006A1	04-076
	PNRB	495F1 OR 495FA	04-178
N	R101	UN122	04-100
N	R111	UN123	04-110
R	NP1	MC3F007A1	04-076
P	NP1	MC3F012A1	04-076
D OR M	R101	UN122B	04-100
M	R111	UN123B	04-110
D	R101	UN122C	04-100

FROM		STRAPPING		TO		
OPT	DESIG	EQL	TERM	DESIG	EQL	TERM
G	R101	04-100	118	R101	04-100	112
G	R111	04-110	118	R111	04-110	112

FIG. 3

CIRCUIT PACK

OPT	DESIG	CODE	EQL
Q	NP0	MC3F006A1	04-118
R	NP0	MC3F007A1	04-118
N	R100	UN122	04-142
N	R110	UN123	04-152
M	R100	UN122B	04-142
D OR M	R110	UN123B	04-152
P	NP0	MC3F012A1	04-118
D	R100	UN122C	04-142

FROM		STRAPPING		TO		
OPT	DESIG	EQL	TERM	DESIG	EQL	TERM
G	R100	04-142	118	R100	04-142	112
G	R110	04-152	118	R110	04-152	112

CONNECTOR

OPT	DESIG	CODE	EQL
ZF	CA	ED-3F064-37	04-152
		G37	

FIG. 4

CIRCUIT PACK

OPT	DESIG	CODE	EQL
Z	L12	MC3F001-01	04-050
	OR L11	MC3F001-01	04-092
	OR L10	MC3F001-01	04-134
X	X12	MC3F002-01	04-058
X	X11	MC3F002-01	04-092
X	X10	MC3F002-01	04-134
X	L12	MC3F003-01	04-092
	OR L11	MC3F003-01	04-134
	OR L10	MC3F003-01	04-134
M	L12	MC3F004-01	04-050
	OR L11	MC3F004-01	04-092
	OR L10	MC3F004-01	04-134
V	L12	MC3F005-01	04-050
	OR L11	MC3F005-01	04-092
	OR L10	MC3F005-01	04-134

FIG. 5

CIRCUIT PACK

OPT	DESIG	CODE	EQL
U	IFBA	TW915	04-026
	OR IFBB	TW915	04-162
T	IFBA	TW918	04-026
	OR IFBB	TW918	04-162

FIG. 6

CIRCUIT PACK

OPT	DESIG	CODE	EQL
20MDL		TW1317	04-042
21MDL		TW1317	04-050
10MDL		TW1317	04-084
11MDL		TW1317	04-092
00MDL		TW1317	04-126
01MDL		TW1317	04-134

FIG. 7

CIRCUIT PACK

OPT	DESIG	CODE	EQL
21A0		10A	04-042
21A1		10A	04-050
11A0		10A	04-084
11A1		10A	04-092
01A0		10A	04-126
01A1		10A	04-134

FIG. 8

CIRCUIT PACK

OPT	DESIG	CODE	EQL
21A0		11A	04-042
21A1		11A	04-050
11A0		11A	04-084
11A1		11A	04-092
01A0		11A	04-126
01A1		11A	04-134

FIG. 9

CIRCUIT PACK

OPT	DESIG	CODE	EQL
21A0		12A	04-042
21A1		12A	04-050
11A0		12A	04-084
11A1		12A	04-092
01A0		12A	04-126
01A1		12A	04-134

FIG. 10

CIRCUIT PACK

OPT	DESIG	CODE	EQL
21A0		13A	04-042
21A1		13A	04-050
11A0		13A	04-084
11A1		13A	04-092
01A0		13A	04-126
01A1		13A	04-134

FIG. 11

CIRCUIT PACK

OPT	DESIG	CODE	EQL
20LI		TN1316	04-042
21LI		TN1316	04-050
10LI		TN1316	04-084
11LI		TN1316	04-092
00LI		TN1316	04-126
01LI		TN1316	04-134

(FIG. (S) CONTINUED ON SHEET D9)

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LINK NODE B CIRCUIT	DWG SIZE	ISSUE
	C2	11
AT&T	T*3F010-11	SHEET D8

FIG. 12

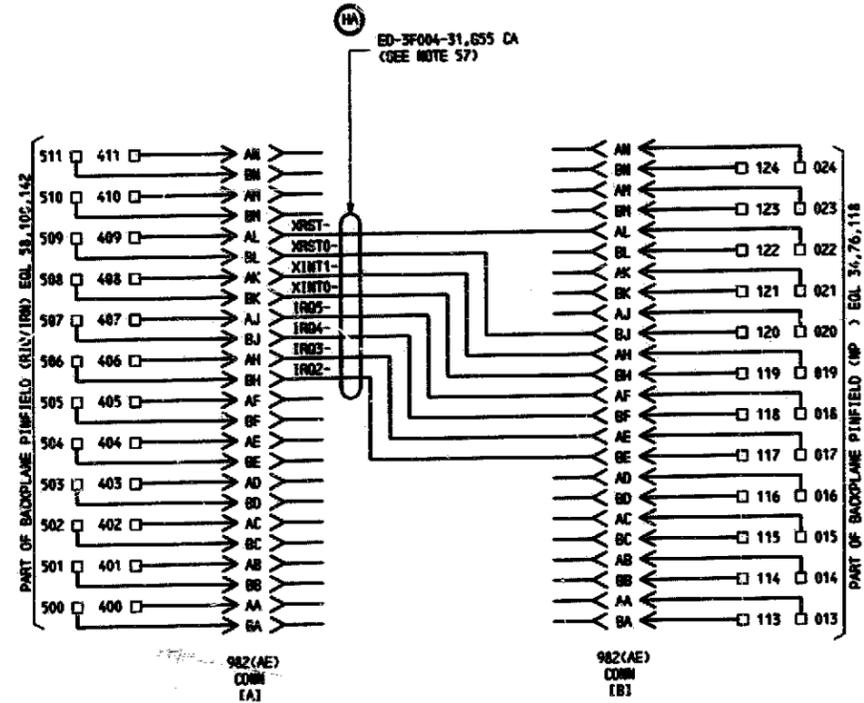
CIRCUIT PACK			
OPT	DESIG	CODE	EOL
ZD	IRW2	NC-3F014-01	04-058
ZD	IRW1	NC-3F014-01	04-100
ZD	IRW0	NC-3F014-01	04-142
ZC	IRW2	NC-3F018-01	04-058
ZC	IRW1	NC-3F018-01	04-100
ZC	IRW0	NC-3F018-01	04-142

FIG. 13

CIRCUIT PACK			
OPT	DESIG	CODE	EOL
A	IFBA	TN1506	04-026
A	IFBB	TN1506	04-126
ZA	IFBA	TN1508	04-026
ZA	IFBB	TN1508	04-126
ZB	IFBA	TN1509	04-026
ZB	IFBB	TN1509	04-126

FIG. 14

CIRCUIT PACK			
OPT	DESIG	CODE	EOL
2IA1	14A	14A	04-050
1IA1	14A	14A	04-092
0IA1	14A	14A	04-134



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LINK NODE 8 CIRCUIT		DWG SIZE	ISSUE
		c2	10
AT&T	CB	T*3F010-11	SHEET 09