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APP OR WRG	RATED ON ISSUE	REF NOTES	LOCATION

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1	1	4-13-82	AS	RLI
2A	2A	6-13-83	JAL	RFV
3D	3D	6-13-83	MAN	RFV
4AC	4AC	4-23-84	BSG	RLI
5A	5A	4-23-84	DFH	RFV

USED ON		
FRAME SD	PROJECT	CONT
SD-5D106-01	MESSAGE SWITCH FRAME	IH
SD-5D116-01	MESSAGE SWITCH CABINET	IH

SUPPORTING INFORMATION		SHEET INDEX NOTES	
CATEGORY	NO.		
EQUIPMENT DRAWING	J5D006AB-1	1. WHEN CHANGES ARE MADE IN THIS DRAWING ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.	
		2. THIS SHEET INDEX WILL BE REISSUED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THE DRAWING IS REISSUED, OR A NEW SHEET IS ADDED.	
		3. THE ISSUE NUMBER ASSIGNED TO A CHANGEU OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.	
		4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.	
		5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.	
CPS-X		* SCHEMATICS OF ALL FE-CODE CIRCUIT PACKS USED IN THIS CIRCUIT ARE SHOWN ON DRAWINGS NUMBERED WITH A CPS PREFIX FOLLOWED BY THE CODE OF THE PACK AS CPS-TN245.	

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7T13		AT&T CO PROVISIONAL
BESS* SWITCHING EQUIPMENT MESSAGE SWITCH CONTROL UNIT CIRCUIT		DWG SIZE 65
* TRADEMARK OF AT&T TECHNOLOGIES		ISSUE 5A
AT&T BELL LABORATORIES	SD-5D026-01	A1 41 SHEETS

SHEET INDEX OPERATION AND MAINTENANCE

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FS 2 MEMORY	B#2AA	3
	B#2CA	3
	B#2CB	3
	B#3AA	2, 3
FS 3 INPUT/OUTPUT MICROPROCESSOR INTERFACE	B#3CA	2, 3
	B#3CB	2, 3
	B#3CC	2, 3
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FIGURES, NOTES, AND OTHER INFORMATION REFERENCED IN THIS DRAWING, BUT NOT LISTED IN THE "OPERATION AND MAINTENANCE" SHEET INDEX ARE REQUIRED FOR ENGINEERING AND MANUFACTURING PURPOSES ONLY, AND ARE NOT PROVIDED.

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MESS* SWITCHING EQUIPMENT	AT&T CO PROVISIONAL
MESSAGE SWITCH CONTROL UNIT CIRCUIT	DWG SIZE 65
OPERATION AND MAINTENANCE	ISSUE 5A
* TRADEMARK OF AT&T TECHNOLOGIES	A#1 28 SHEETS
AT&T BELL LABORATORIES	SD-5D026-01

SUPPORTING INFORMATION		SHEET INDEX NOTES	
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DESIGNATION MNEMONICS INDEX

A
B
C
D
E
F
G
H

A
B
C
D
E
F
G
H

MNEMONIC	ES/SYM	DEFINITION	MNEMONIC	ES/SYM	DEFINITION	MNEMONIC	ES/SYM	DEFINITION	MNEMONIC	ES/SYM	DEFINITION
+CNTNSA	1/1	POWER CONVERTER CURRENT SENSE POSITIVE	CSA4(0-3)0	3/2	CONTROL SIGNAL ACKNOWLEDGE COMMUNITY FOUR PROCESSORS (0-3)	DMA1(00-15)1	3/1	DIRECT MEMORY ACCESS ADDRESS (00-15) COMMUNITY 1	INT0	1/2	INTERRUPT REQUEST TO THE DUPLEX DUAL BUS SELECTOR
+CNTNSB	CAD-013	TEST POWER CONVERTER CURRENT SENSE POSITIVE	CSA5(0-3)0	3/2	CONTROL SIGNAL ACKNOWLEDGE COMMUNITY FIVE PROCESSORS (0-3)	DMA2(00-15)1	3/1	DIRECT MEMORY ACCESS ADDRESS (00-15) COMMUNITY 2	INT0(0-3)0	3/1	INTERRUPT FROM COMMUNITY 0 PROCESSOR (0-3)
+SPWR	1/1	FIVE VOLTS POWER	CSA6(0-3)0	3/2	CONTROL SIGNAL ACKNOWLEDGE COMMUNITY SIX PROCESSORS (0-3)	DMA3(00-15)1	3/1	DIRECT MEMORY ACCESS ADDRESS (00-15) COMMUNITY 3	INT1(0-3)0	3/1	INTERRUPT FROM COMMUNITY 1 PROCESSOR (0-3)
+5V	CAD-013	FIVE VOLT TEST POWER	CSA7(0-3)0	3/2	CONTROL SIGNAL ACKNOWLEDGE COMMUNITY SEVEN PROCESSORS (0-3)	DMA4(00-15)1	3/2	DIRECT MEMORY ACCESS ADDRESS (00-15) COMMUNITY 4	INT2(0-3)0	3/1	INTERRUPT FROM COMMUNITY 2 PROCESSOR (0-3)
-CNTNSA	2/1	POWER CONVERTER CURRENT SENSE NEGATIVE	CYCEND1	2/1	MICROCONTROL STORE CYCLE END CLOCK SIGNAL	DMA5(00-15)1	3/2	DIRECT MEMORY ACCESS ADDRESS (00-15) COMMUNITY 5	INT3(0-3)0	3/1	INTERRUPT FROM COMMUNITY 3 PROCESSOR (0-3)
-CNTNSB	CAD-013	TEST POWER CONVERTER CURRENT SENSE NEGATIVE	DAH0B(P,N)	1/1	SERIAL CHANNEL ZERO DATA HIGH (POS, NEG)	DMA6(00-15)1	3/2	DIRECT MEMORY ACCESS ADDRESS (00-15) COMMUNITY 6	INT4(0-3)0	3/2	INTERRUPT FROM COMMUNITY 4 PROCESSOR (0-3)
ADTAPER1	3/1	INPUT/OUTPUT MICROPROCESSOR INTERFACE-A PARITY ERROR	DAH1B(P,N)	1/1	SERIAL CHANNEL ONE DATA HIGH (POS, NEG)	DMA7(00-15)1	3/2	DIRECT MEMORY ACCESS ADDRESS (00-15) COMMUNITY 7	INT5(0-3)0	3/2	INTERRUPT FROM COMMUNITY 5 PROCESSOR (0-3)
AINTSUM0	3/1	INPUT/OUTPUT MICROPROCESSOR INTERFACE-A INTERRUPT	DAL03(P,N)	1/1	SERIAL CHANNEL ZERO DATA LOW (POS, NEG)	DPO	1/1	DATA PRESENT ON INFORMATION BUS	INT6(0-3)0	3/2	INTERRUPT FROM COMMUNITY 6 PROCESSOR (0-3)
ALRM(A,B)	4/1	POWER CONVERTER ALARMING (A,B)	DAL1B(P,N)	1/1	SERIAL CHANNEL ONE DATA LOW (POS, NEG)	DRO	1/1	DATA REQUEST FOR DATA ON INFORMATION BUS	INT7(0-3)0	3/2	INTERRUPT FROM COMMUNITY 7 PROCESSOR (0-3)
BDA(0-3)	CAD-013	TEST BOARD CHIP SELECT (0-3)	DAL1B(P,N)	1/1	SERIAL CHANNEL ONE DATA LOW (POS, NEG)	DST(0-4)1	1/2	DESIGNATION FIELD (0-4)	OOLO(0-7)0	3/1,2	OUT OF LEVEL FROM COMMUNITY (0-7)
BOTAPER1	3/2	INPUT/OUTPUT MICROPROCESSOR INTERFACE-B PARITY ERROR	DBP(H,L)1	1/2	DATA BUS PARITY ERROR (HIGH, LOW)	EOT0	1/1	END OF TRANSFER INDICATION TO BUS INTERFACE CONTROLLER	OOS3B	4/1	SCAN AND DISTRIBUTE OUT OF SERVICE
BD1SELO	2/1	MICROCONTROL STORE BOARD ONE SELECT	DB(00-15)1	1/2	DATA BUS (0-15)	ER0(0-3)0	3/1	ERROR SIGNAL FROM COMMUNITY 0 PROCESSOR (0-3)	OOSR	4/1	SCAN AND DISTRIBUTE OUT OF SERVICE RETURN
BD2SELO	2/1	MICROCONTROL STORE BOARD TWO SELECT	DPLG0	1/2	DATA FLAG	ER1(0-3)0	3/1	ERROR SIGNAL FROM COMMUNITY 1 PROCESSOR (0-3)	CUTSRVC(1,2)	4/1,2	CONVERTER OUT OF SERVICE SIGNAL (1,2)
BICERO	1/2	BUS INTERFACE ERROR	DMAD0(0-8)1	3/1	DIRECT MEMORY ACCESS BI-DIRECTIONAL DATA (0-8) COMMUNITY 0	ER2(0-3)0	3/1	ERROR SIGNAL FROM COMMUNITY 2 PROCESSOR (0-3)	PARITYE0	2/1	MICROCONTROL STORE DATA PARITY ERROR
BINTSUM0	3/2	INPUT/OUTPUT MICROPROCESSOR INTERFACE-B INTERRUPT	DMAD1(0-8)1	3/1	DIRECT MEMORY ACCESS BI-DIRECTIONAL DATA (0-8) COMMUNITY 1	ER3(0-3)0	3/1	ERROR SIGNAL FROM COMMUNITY 3 PROCESSOR (0-3)	PCSL0(0-3)0	3/1	PERIPHERAL PROCESSOR (0-3) COMMUNITY 0 SELECT
CDS(1-3)	4/1	CONTROL AND DISPLAY SCAN POINT (1-3)	DMAD2(0-8)1	3/1	DIRECT MEMORY ACCESS BI-DIRECTIONAL DATA (0-8) COMMUNITY 2	ER4(0-3)0	3/2	ERROR SIGNAL FROM COMMUNITY 4 PROCESSOR (0-3)	PCSL1(0-3)0	3/1	PERIPHERAL PROCESSOR (0-3) COMMUNITY 1 SELECT
CFLG0	1/2	CLEAR BUS INTERFACE CONTROLLER'S DATA FLAG	DMAD3(0-8)1	3/1	DIRECT MEMORY ACCESS BI-DIRECTIONAL DATA (0-8) COMMUNITY 3	ER5(0-3)0	3/2	ERROR SIGNAL FROM COMMUNITY 5 PROCESSOR (0-3)	PCSL2(0-3)0	3/1	PERIPHERAL PROCESSOR (0-3) COMMUNITY 2 SELECT
CINT(0-7)0	3/1,2	COMMAND INTERRUPT TO COMMUNITY (0-7)	DMAD4(0-8)1	3/2	DIRECT MEMORY ACCESS BI-DIRECTIONAL DATA (0-8) COMMUNITY 4	ER6(0-3)0	3/2	ERROR SIGNAL FROM COMMUNITY 6 PROCESSOR (0-3)	PCSL3(0-3)0	3/1	PERIPHERAL PROCESSOR (0-3) COMMUNITY 3 SELECT
CLEAR00	1/2	CLEAR SIGNAL FOR THE BUS INTERFACE CONTROLLER	DMAD5(0-8)1	3/2	DIRECT MEMORY ACCESS BI-DIRECTIONAL DATA (0-8) COMMUNITY 5	ER7(0-3)0	3/2	ERROR SIGNAL FROM COMMUNITY 7 PROCESSOR (0-3)	PCSL4(0-3)0	3/2	PERIPHERAL PROCESSOR (0-3) COMMUNITY 4 SELECT
CLEAR10	1/3	CLEAR SIGNAL FOR THE PERIPHERAL INTERFACE CONTROLLER	DMAD6(0-8)1	3/2	DIRECT MEMORY ACCESS BI-DIRECTIONAL DATA (0-8) COMMUNITY 6	GRD036	4/2	GROUND	PCSL5(0-3)0	3/2	PERIPHERAL PROCESSOR (0-3) COMMUNITY 5 SELECT
CLK0D1A	2/1	MICROCONTROL STORE CLOCK 0, D	DMAD7(0-8)1	3/2	DIRECT MEMORY ACCESS BI-DIRECTIONAL DATA (0-8) COMMUNITY 7	GRD072	3/1	GROUND	PCSL6(0-3)0	3/2	PERIPHERAL PROCESSOR (0-3) COMMUNITY 6 SELECT
CLK0D(P,N)	1/1	SERIAL CHANNEL ZERO CLOCK OUT (POS, NEG)	DMA0C(0-7)0	3/1,2	DIRECT MEMORY ACCESS OPERATION COMPLETE COMMUNITY (0-7)	GRD086	3/2	GROUND	PCSL7(0-3)0	3/2	PERIPHERAL PROCESSOR (0-3) COMMUNITY 7 SELECT
CLK10(P,N)	1/1	SERIAL CHANNEL ONE CLOCK OUT (POS, NEG)	DMAR0(0-7)0	3/1,2	DIRECT MEMORY ACCESS READ MEMORY COMMUNITY (0-7)	GRD104	1/3	GROUND	RAMBOCK	CAD-013	TEST RAM BOARD DATA CLOCK
CLOCK1	2/1	COMMON UNIT CLOCK	DMAR0(0-7)0	3/1,2	DIRECT MEMORY ACCESS REQUEST COMMUNITY (0-7)	GRD120	2/1	GROUND			
CLRPE(0-7)0	3/1,2	CLEAR PROCESSORS IN COMMUNITY (0-7)	DMAHR(0-7)0	3/1,2	DIRECT MEMORY ACCESS WRITE MEMORY COMMUNITY (0-7)	GRD136	2/2	GROUND			
CP0	1/1	COMMAND PRESENT ON INFORMATION BUS	DMA0(00-15)1	3/1	DIRECT MEMORY ACCESS ADDRESS (00-15) COMMUNITY 0	GRD160	1/2	GROUND			
CSA0(0-3)0	3/1	CONTROL SIGNAL ACKNOWLEDGE COMMUNITY ZERO PROCESSORS (0-3)				GRD176	1/1	GROUND			
CSA1(0-3)0	3/1	CONTROL SIGNAL ACKNOWLEDGE COMMUNITY ONE PROCESSORS (0-3)				INCTMR1	1/2	INCREMENT TIMER			
CSA2(0-3)0	3/1	CONTROL SIGNAL ACKNOWLEDGE COMMUNITY TWO PROCESSORS (0-3)				INFP(0-3)0	1/1	INFORMATION BUS PARITY (0-3)			
CSA3(0-3)0	3/1	CONTROL SIGNAL ACKNOWLEDGE COMMUNITY THREE PROCESSORS (0-3)				INF(00-31)0	1/1	INFORMATION BUS BIT (00-31)			
						INHCK00	1/2	INHIBIT CLOCK BY THE TRACE AND CONTROL UNIT			
						INHCK10	1/2	INHIBIT CLOCK BY THE PERIPHERAL INTERFACE CONTROLLER			

MESSAGE SWITCH CONTROL UNIT		DWG SIZE C2	ISSUE 2A
BELL LABORATORIES		SD-50026-01	
		A#2	

DESIGNATION MNEMONICS INDEX

MNEMONIC	ES/SYM	DEFINITION	MNEMONIC	ES/SYM	DEFINITION
REQ0B(P,N)	1/1	SERIAL CHANNEL ZERO REQUEST (POS, NEG)	XCLK01(P,N)	1/1	SERIAL CHANNEL ZERO CLOCK IN (POS, NEG)
REQ1B(P,N)	1/1	SERIAL CHANNEL ONE REQUEST (POS, NEG)	XCLK11(P,N)	1/1	SERIAL CHANNEL ONE CLOCK IN (POS, NEG)
RISL8(0-7)0	3/1,2	RESET [ISOLATE FLIP-FLOP COMMUNITY (0-7)	XFER0	1/2	TRANSFER REQUEST TO 3B PROCESSOR
RSTRM0	CAD-013	RESET TEST RAM BOARD	Z0MHZ1	1/1	20 MHZ CLOCK
ROIP3B	4/1	SCAN AND DISTRIBUTE REQUEST IN PROGRESS	48FEDA	4/1	-48 VOLT FEED
ROIP3BR	4/1	SCAN AND DISTRIBUTE REQUEST IN PROGRESS RETURN	48FEDB	CAD-012	-48 VOLT TEST FEED
SCXR	4/1	SCAN AND DISTRIBUTE SCAN POINT X RETURN	48GRDA	4/1	-48 VOLT RETURN
SCX3B	4/1	SCAN AND DISTRIBUTE SCAN POINT X	48GRDB	CAD-012	-48 VOLT TEST RETURN
SCYR	4/1	SCAN AND DISTRIBUTE SCAN POINT Y RETURN			
SCY3B	4/1	SCAN AND DISTRIBUTE SCAN POINT Y			
SETUP0	1/2	SET UP A REQUEST TO 3B			
SHRTA	4/2	CONVERTER CONTROL SIGNAL			
SHRTB	CAD-014	TEST CONVERTER SENSE LEAD			
SISL8(0-7)0	3/1,2	SET ISOLATE FLIP-FLOP IN COMMUNITY (0-7)			
SNTYER1	1/2	SANITY TIMER INTERRUPT TO PERIPHERAL INTERFACE CONTROLLER			
SRCSP00	1/3	SOURCE FOR THE OVERLAY FIELD			
SRC(0-4)1	1/2	SOURCE FIELD (0-4)			
SR0(0-3)0	3/1	SERVICE REQUEST COMMUNITY 0 PROCESSOR (0-3)			
SR1(0-3)0	3/1	SERVICE REQUEST COMMUNITY 1 PROCESSOR (0-3)			
SR2(0-3)0	3/1	SERVICE REQUEST COMMUNITY 2 PROCESSOR (0-3)			
SR3(0-3)0	3/1	SERVICE REQUEST COMMUNITY 3 PROCESSOR (0-3)			
SR4(0-3)0	3/2	SERVICE REQUEST COMMUNITY 4 PROCESSOR (0-3)			
SR5(0-3)0	3/2	SERVICE REQUEST COMMUNITY 5 PROCESSOR (0-3)			
SR6(0-3)0	3/2	SERVICE REQUEST COMMUNITY 6 PROCESSOR (0-3)			
SR7(0-3)0	3/2	SERVICE REQUEST COMMUNITY 7 PROCESSOR (0-3)			
SST0	1/1	STATUS DATA ON INFORMATION BUS			
SYNCO	1/2	SYNC SIGNAL INDICATING A REQUEST HAS BEEN PERFORMED			
TMRINT0	1/2	TIMER INTERRUPT TO PERIPHERAL INTERFACE CONTROLLER			
TSTA	4/1	FUSE ALARM LEAD			
UAB(00-15)1	1/3	MICROWORD ADDRESS (00-15)			
UDB(00-39)1	2/1	MICROWORD DATA (00-39)			

MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		C2	ZA
BELL LABORATORIES	SD-SD026-01	A#3	

APPARATUS INDEX

LEAD INDEX

EQUIP LDC APP FIGURE NO. SH NO.

DESIG FS/SYM APPFIG EDPT

DESIG FS/SYM LOCATION CAD

CIRCUIT PACKS

04-008 2 C#2
04-072 2 C#2
04-086 3 C#2
04-104 2 C#2

04-120 2 C#2
04-136 2 C#2
04-160 2 C#2
04-176 2 C#2

DESIG
BIC 2 C#2
C&D 2 C#2
DDSBS 2 C#2
IOMI-A 2 C#2

IOMI-B 3 C#2
MCS-A 2 C#2
MCS-B 2 C#2
PIC 2 C#2

BTR

BTR1 5/1 2 04-160A
BTR2 5/2 2 04-160B

CIRCUIT PACK-CP

BIC 1/2 2 04-160
C&D 4/1 2 04-008
DDSBS 1/1 2 04-176
IOMI-A 3/1 2 04-072
IOMI-B 3/2 3 04-086
MCS-A 2/1 2 04-120
MCS-B 2/2 2 04-136
PIC 1/3 2 04-104

CONVERTER

PWRCONV 4/2 2 04-036

3B DMA UNIT

CLK00H 1/1 006
CLK00P 1/1 006
CLK10N 1/1 007
CLK10P 1/1 007

DAH0BN 1/1 006
DAH0BP 1/1 006
DAH1BN 1/1 007
DAH1BP 1/1 007

DAL0BN 1/1 006
DAL0BP 1/1 006
DAL1BN 1/1 007
DAL1BP 1/1 007

GRD176 1/1 007
GRD176 1/1 007
GRD176 1/1 006
GRD176 1/1 006

REG0BN 1/1 006
REG0BP 1/1 006
REQ1BN 1/1 007
REQ1BP 1/1 007

XCLK0IN 1/1 006
XCLK0IP 1/1 006
XCLK1IN 1/1 007
XCLK1IP 1/1 007

3B ICP UNIT

OQS3B 4/1 009
OQSR 4/1 009
RDIP3B 4/1 009
RDIP3BR 4/1 009

SCX3B 4/1 009
SCXR 4/1 009
SCY3B 4/1 009
SCYR 4/1 009

FUSE PANEL

48FEDA 4/2 012
48GRDA 4/2 012
ALRMA 4/1 008
TSTA 4/1 011

MESSAGE SWITCH PERIPHERAL UNIT

CINT00 3/1 003
CINT10 3/1 003
CINT20 3/1 003
CINT30 3/1 003

CINT40 3/2 003
CINT50 3/2 003
CINT60 3/2 003
CINT70 3/2 003

CLRPC00 3/1 003
CLRPC10 3/1 003
CLRPC20 3/1 003
CLRPC30 3/1 003

CLRPC40 3/2 003
CLRPC50 3/2 003
CLRPC60 3/2 003
CLRPC70 3/2 003

CSA000 3/1 003
CSA010 3/1 003
CSA020 3/1 003
CSA030 3/1 003

MESSAGE SWITCH PERIPHERAL UNIT (CONT)

CSA100 3/1 003
CSA110 3/1 003
CSA120 3/1 003
CSA130 3/1 003

CSA200 3/1 003
CSA210 3/1 003
CSA220 3/1 003
CSA230 3/1 003

CSA300 3/1 003
CSA310 3/1 003
CSA320 3/1 003
CSA330 3/1 003

CSA400 3/2 003
CSA410 3/2 003
CSA420 3/2 003
CSA430 3/2 003

CSA500 3/2 003
CSA510 3/2 003
CSA520 3/2 003
CSA530 3/2 003

CSA600 3/2 003
CSA610 3/2 003
CSA620 3/2 003
CSA630 3/2 003

CSA700 3/2 003
CSA710 3/2 003
CSA720 3/2 003
CSA730 3/2 003

DMA0001 3/1 004
DMA0011 3/1 004
DMA0021 3/1 004
DMA0031 3/1 004

DMA0041 3/1 004
DMA0051 3/1 004
DMA0061 3/1 004
DMA0071 3/1 004

DMA0081 3/1 004
DMA0091 3/1 004
DMA0101 3/1 004
DMA0111 3/1 004

DMA0121 3/1 004
DMA0131 3/1 004
DMA0141 3/1 004
DMA0151 3/1 004

DMA1001 3/1 004
DMA1011 3/1 004
DMA1021 3/1 004
DMA1031 3/1 004

DMA1041 3/1 004
DMA1051 3/1 004
DMA1061 3/1 004
DMA1071 3/1 004

DMA1081 3/1 004
DMA1091 3/1 004
DMA1101 3/1 004
DMA1111 3/1 004

DMA1121 3/1 004
DMA1131 3/1 004
DMA1141 3/1 004
DMA1151 3/1 004

DMA2001 3/1 004
DMA2011 3/1 004
DMA2021 3/1 004
DMA2031 3/1 004

MESSAGE SWITCH PERIPHERAL UNIT (CONT)

DMA2041 3/1 004
DMA2051 3/1 004
DMA2061 3/1 004
DMA2071 3/1 004

DMA2081 3/1 004
DMA2091 3/1 004
DMA2101 3/1 004
DMA2111 3/1 004

DMA2121 3/1 004
DMA2131 3/1 004
DMA2141 3/1 004
DMA2151 3/1 004

DMA3001 3/1 004
DMA3011 3/1 004
DMA3021 3/1 004
DMA3031 3/1 004

DMA3041 3/1 004
DMA3051 3/1 004
DMA3061 3/1 004
DMA3071 3/1 004

DMA3081 3/1 004
DMA3091 3/1 004
DMA3101 3/1 004
DMA3111 3/1 004

DMA3121 3/1 004
DMA3131 3/1 004
DMA3141 3/1 004
DMA3151 3/1 004

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DMA4011 3/2 004
DMA4021 3/2 004
DMA4031 3/2 004

DMA4041 3/2 004
DMA4051 3/2 004
DMA4061 3/2 004
DMA4071 3/2 004

DMA4081 3/2 004
DMA4091 3/2 004
DMA4101 3/2 004
DMA4111 3/2 004

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DMA4151 3/2 004

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DMA5111 3/2 004

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DMA5141 3/2 004
DMA5151 3/2 004

DMA6001 3/2 004
DMA6011 3/2 004
DMA6021 3/2 004
DMA6031 3/2 004

MESSAGE SWITCH PERIPHERAL UNIT (CONT)

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DMA6051 3/2 004
DMA6061 3/2 004
DMA6071 3/2 004

DMA6081 3/2 004
DMA6091 3/2 004
DMA6101 3/2 004
DMA6111 3/2 004

DMA6121 3/2 004
DMA6131 3/2 004
DMA6141 3/2 004
DMA6151 3/2 004

DMA7001 3/2 004
DMA7011 3/2 004
DMA7021 3/2 004
DMA7031 3/2 004

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DMA7051 3/2 004
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DMA7071 3/2 004

DMA7081 3/2 004
DMA7091 3/2 004
DMA7101 3/2 004
DMA7111 3/2 004

DMA7121 3/2 004
DMA7131 3/2 004
DMA7141 3/2 004
DMA7151 3/2 004

DMA8001 3/1 005
DMA8011 3/1 005
DMA8021 3/1 005
DMA8031 3/1 005

DMA8041 3/1 005
DMA8051 3/1 005
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DMA8101 3/1 005
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DMA8131 3/1 005
DMA8141 3/1 005
DMA8151 3/1 005

DMA8161 3/1 005
DMA8171 3/1 005
DMA8181 3/1 005
DMA8191 3/1 005

DMA8201 3/1 005
DMA8211 3/1 005
DMA8221 3/1 005
DMA8231 3/1 005

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DMA8251 3/1 005
DMA8261 3/1 005
DMA8271 3/1 005

DMA8281 3/1 005
DMA8291 3/1 005
DMA8301 3/1 005
DMA8311 3/1 005

MESSAGE SWITCH PERIPHERAL UNIT (CONT)

DMA8301 3/1 005
DMA8311 3/1 005
DMA8321 3/1 005
DMA8331 3/1 005

DMA8341 3/1 005
DMA8351 3/1 005
DMA8361 3/1 005
DMA8371 3/1 005

DMA8381 3/1 005
DMA8391 3/1 005
DMA8401 3/1 005
DMA8411 3/1 005

DMA8421 3/1 005
DMA8431 3/1 005
DMA8441 3/1 005
DMA8451 3/1 005

DMA8461 3/1 005
DMA8471 3/1 005
DMA8481 3/1 005
DMA8491 3/1 005

DMA8501 3/1 005
DMA8511 3/1 005
DMA8521 3/1 005
DMA8531 3/1 005

DMA8541 3/1 005
DMA8551 3/1 005
DMA8561 3/1 005
DMA8571 3/1 005

DMA8581 3/1 005
DMA8591 3/1 005
DMA8601 3/1 005
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DMA8621 3/1 005
DMA8631 3/1 005
DMA8641 3/1 005
DMA8651 3/1 005

DMA8661 3/1 005
DMA8671 3/1 005
DMA8681 3/1 005
DMA8691 3/1 005

DMA8701 3/1 005
DMA8711 3/1 005
DMA8721 3/1 005
DMA8731 3/1 005

DMA8741 3/1 005
DMA8751 3/1 005
DMA8761 3/1 005
DMA8771 3/1 005

DMA8781 3/1 005
DMA8791 3/1 005
DMA8801 3/1 005
DMA8811 3/1 005

DMA8821 3/1 005
DMA8831 3/1 005
DMA8841 3/1 005
DMA8851 3/1 005

DMA8861 3/1 005
DMA8871 3/1 005
DMA8881 3/1 005
DMA8891 3/1 005

DMA8901 3/1 005
DMA8911 3/1 005
DMA8921 3/1 005
DMA8931 3/1 005

MESSAGE SWITCH CONTROL UNIT

SD-5D026-01-A#4

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE CZ

ISSUE 3D

LEAD INDEX (CONT)

A	LOCATION			LOCATION			LOCATION			LOCATION		
	DESIG	FS/SYM	CAD	DESIG	FS/SYM	CAD	DESIG	FS/SYM	CAD	DESIG	FS/SYM	CAD
	MESSAGE SWITCH PERIPHERAL UNIT (CONT)			MESSAGE SWITCH PERIPHERAL UNIT (CONT)			MESSAGE SWITCH PERIPHERAL UNIT (CONT)			MESSAGE SWITCH PERIPHERAL UNIT (CONT)		
B	DMARD20	3/1	003	GRD072	3/1	003	INT220	3/1	005	RISL820	3/1	003
	DMARD30	3/1	003	GRD072	3/1	004	INT230	3/1	005	RISL830	3/1	003
	DMARD40	3/2	003	GRD072	3/1	005	INT300	3/1	005	RISL840	3/2	003
	DMARD50	3/2	003	GRD072	3/1	002	INT310	3/1	005	RISL850	3/2	003
B	DMARD60	3/2	003	GRD072	3/1	002	INT320	3/1	005	RISL860	3/2	003
	DMARD70	3/2	003	GRD072	3/1	005	INT330	3/1	005	RISL870	3/2	003
	DMARD000	3/1	003	GRD072	3/1	003	INT400	3/2	005	SISL800	3/1	003
	DMARD010	3/1	003	GRD072	3/1	004	INT410	3/2	005	SISL810	3/1	003
	DMARD20	3/1	003	GRD072	3/1	004	INT420	3/2	005	SISL820	3/1	003
	DMARD30	3/1	003	GRD072	3/1	004	INT430	3/2	005	SISL830	3/1	003
	DMARD40	3/2	003	GRD072	3/1	004	INT500	3/2	005	SISL840	3/2	003
	DMARD50	3/2	003	GRD072	3/1	004	INT510	3/2	005	SISL850	3/2	003
	DMARD60	3/2	003	GRD072	3/1	005	INT520	3/2	005	SISL860	3/2	003
	DMARD70	3/2	003	GRD072	3/1	002	INT530	3/2	005	SISL870	3/2	003
	DMAWR00	3/1	003	GRD072	3/1	005	INT600	3/2	005	SR000	3/1	003
	DMAWR10	3/1	003	GRD072	3/1	004	INT610	3/2	005	SR010	3/1	003
C	DMAWR20	3/1	003	GRD072	3/1	004	INT620	3/2	005	SR020	3/1	003
	DMAWR30	3/1	003	GRD072	3/1	005	INT630	3/2	005	SR030	3/1	003
	DMAWR40	3/2	003	GRD072	3/1	005	INT700	3/2	005	SR100	3/1	003
	DMAWR50	3/2	003	GRD072	3/1	003	INT710	3/2	005	SR110	3/1	003
	DMAWR60	3/2	003	GRD072	3/1	005	INT720	3/2	005	SR120	3/1	003
	DMAWR70	3/2	003	GRD072	3/1	005	INT730	3/2	005	SR130	3/1	003
	ER000	3/1	002	GRD086	3/2	002	QOL00	3/1	002	SR200	3/1	003
	ER010	3/1	002	GRD086	3/2	002	QOL10	3/1	002	SR210	3/1	003
D	ER020	3/1	002	GRD086	3/2	002	QOL20	3/1	002	SR220	3/1	003
	ER030	3/1	002	GRD086	3/2	003	QOL30	3/1	002	SR230	3/1	003
	ER100	3/1	002	GRD086	3/2	003	QOL40	3/2	002	SR300	3/1	003
	ER110	3/1	002	GRD086	3/2	003	QOL50	3/2	002	SR310	3/1	003
	ER120	3/1	002	GRD086	3/2	003	QOL60	3/2	002	SR320	3/1	003
	ER130	3/1	002	GRD086	3/2	002	QOL70	3/2	002	SR330	3/1	003
	ER200	3/1	002	GRD086	3/2	002	PCSL000	3/1	002	SR400	3/2	003
	ER210	3/1	002	GRD086	3/2	003	PCSL010	3/1	002	SR410	3/2	003
E	ER220	3/1	002	GRD086	3/2	003	PCSL020	3/1	002	SR420	3/2	003
	ER230	3/1	002	GRD086	3/2	004	PCSL030	3/1	002	SR430	3/2	003
	ER300	3/1	002	GRD086	3/2	005	PCSL100	3/1	002	SR500	3/2	003
	ER310	3/1	002	GRD086	3/2	002	PCSL110	3/1	002	SR510	3/2	003
	ER320	3/1	002	GRD086	3/2	002	PCSL120	3/1	002	SR520	3/2	003
	ER330	3/1	002	GRD086	3/2	003	PCSL130	3/1	002	SR530	3/2	003
	ER400	3/2	002	GRD086	3/2	003	PCSL200	3/1	002	SR600	3/2	003
	ER410	3/2	002	GRD086	3/2	004	PCSL210	3/1	002	SR610	3/2	003
F	ER420	3/2	002	GRD086	3/2	004	PCSL220	3/1	002	SR620	3/2	003
	ER430	3/2	002	GRD086	3/2	004	PCSL230	3/1	002	SR630	3/2	003
	ER500	3/2	002	GRD086	3/2	004	PCSL300	3/1	002	SR700	3/2	003
	ER510	3/2	002	GRD086	3/2	004	PCSL310	3/1	002	SR710	3/2	003
	ER520	3/2	002	GRD086	3/2	005	PCSL320	3/1	002	SR720	3/2	003
	ER530	3/2	002	GRD086	3/2	002	PCSL330	3/1	002	SR730	3/2	003
	ER600	3/2	002	GRD086	3/2	005	PCSL400	3/2	002			
	ER610	3/2	002	GRD086	3/2	004	PCSL410	3/2	002			
	ER620	3/2	002	GRD086	3/2	004	PCSL420	3/2	002			
	ER630	3/2	002	GRD086	3/2	005	PCSL430	3/2	002			
	ER700	3/2	002	GRD086	3/2	005	PCSL500	3/2	002			
	ER710	3/2	002	GRD086	3/2	003	PCSL510	3/2	002			
G	ER720	3/2	002	GRD086	3/2	005	PCSL520	3/2	002			
	ER730	3/2	002	GRD086	3/2	005	PCSL530	3/2	002			
	GRD072	3/1	002	INT000	3/1	005	PCSL600	3/2	002			
	GRD072	3/1	002	INT010	3/1	005	PCSL610	3/2	002			
	GRD072	3/1	002	INT020	3/1	005	PCSL620	3/2	002			
	GRD072	3/1	003	INT030	3/1	005	PCSL630	3/2	002			
	GRD072	3/1	003	INT100	3/1	005	PCSL700	3/2	002			
	GRD072	3/1	003	INT110	3/1	005	PCSL710	3/2	002			
H	GRD072	3/1	003	INT120	3/1	005	PCSL720	3/2	002			
	GRD072	3/1	002	INT130	3/1	005	PCSL730	3/2	002			
	GRD072	3/1	002	INT200	3/1	005	RISL800	3/1	003			
	GRD072	3/1	003	INT210	3/1	005	RISL810	3/1	003			

ISSUE 3D

MESSAGE SWITCH CONTROL UNIT	
BELL TELEPHONE LABORATORIES INCORPORATED	SD-5D026-01-A#5

PART OF FS 1
PROCESSOR

SYMBOL NO. 1 DUPLEX DUAL SERIAL BUS SELECTOR							SYMBOL NO. 1 (CONT) DUPLEX DUAL SERIAL BUS SELECTOR							SYMBOL NO. 1 (CONT) DUPLEX DUAL SERIAL BUS SELECTOR							SYMBOL NO. 2 (CONT) BUS INTERFACE CONTROLLER						
DESIG	EOPT	CODE	ELEM	OPT			DESIG	EOPT	CODE	ELEM	OPT			DESIG	EOPT	CODE	ELEM	OPT			DESIG	EOPT	CODE	ELEM	OPT		
DOSBS	04-176	TN698	A				DOSBS	04-176	TN698	A				DOSBS	04-176	TN698	A				BIC	04-160	TN708	A			
LEAD	FUNC	TERM.	TERM.	TERM.	DESTINATION	NOTE	LEAD	FUNC	TERM.	TERM.	TERM.	DESTINATION	NOTE	LEAD	FUNC	TERM.	TERM.	TERM.	DESTINATION	NOTE	LEAD	FUNC	TERM.	TERM.	TERM.	DESTINATION	NOTE
DESIG	MOD	MOD	OPT	OPT			DESIG	MOD	MOD	OPT	OPT			DESIG	MOD	MOD	OPT	OPT			DESIG	MOD	MOD	OPT	OPT		
NC	0	10MHZ0	016				GRD	GRD	214					REQ08P	IO	REQ08P	110		TO 3B DMA UNIT	P/REQ08N	DB021	IO	DB02B1	201		1/3, 3/1	
	I	PHRSENSE	044				GRD	GRD	216			P/20MHZ1		REQ18N	IO	REQ18N	211		TO 3B DMA UNIT	P/REQ18P						3/2	
	I	20MHZ	314				GRD	GRD	218					REQ18P	IO	REQ18P	310		TO 3B DMA UNIT	P/REQ18N						5/1	
+CNTNSA	IO	LIMIT0	024		1/2, 1/3		GRD	GRD	220					SETUP0	I	SETUP10	022		1/2		DB031	IO	DB03B1	301		1/3, 3/1	
					2/1, 2/2		GRD	GRD	222					SST0	0	SST00	318		1/2							3/2	
					3/1, 3/2		GRD	GRD	224					SYNCO	I	SYNCO	221		1/2							5/1	
					4/2									XCLK0IN	IO	XCLK0IN	008		TO 3B DMA UNIT	P/XCLK0IP	DB041	IO	DB04B1	002		1/3, 3/1	
+SPWR	PHR	VCC	000		1/1		GRD	GRD	232					XCLK0IP	IO	XCLK0IP	107		TO 3B DMA UNIT	P/XCLK0IN						3/2	
	PHR	VCC	001		1/1		GRD	GRD	234					XCLK1IN	IO	XCLK1IN	208		TO 3B DMA UNIT	P/XCLK1IP						5/2	
							GRD	GRD	236												DB051	IO	DB05B1	102		1/3, 3/1	
	PHR	VCC	032		1/1									XCLK1IP	IO	XCLK1IP	307		TO 3B DMA UNIT	P/XCLK1IN						3/2	
	PHR	VCC	115		1/1		GRD	GRD	238					XFER0	I	XFER10	021		1/2		DB061	IO	DB06B1	302		1/3, 3/1	
	PHR	VCC	124		1/1		GRD	GRD	240					SPEEDI	I	SPEEDI	116		1/1							3/2	
							GRD	GRD	242					20MHZ1	I	20MHZ0	316		1/2, 2/1	P/GRD176	DB071	IO	DB07B1	003		1/3, 3/1	
	PHR	VCC	132		1/1																					3/2	
	PHR	VCC	156		1/1		GRD	GRD	244												DB081	IO	DB08B1	203		1/3, 3/1	
	PHR	INIT0	344		1/2, 1/3		GRD	GRD	246																	3/2	
					2/1, 2/2		GRD	GRD	248																	5/2	
					3/1, 3/2																					3/2	
					4/2		GRD	GRD	250																	5/1	
-CNTNSA	IO	LIMIT1	023		2/1		GRD	GRD	252																	3/2	
BICERO	I	ERIO	020		1/2		GRD	GRD	254																	5/1	
CLK00N	0	CLK00N	007		TO 3B DMA UNIT	P/CLK00P																				3/2	
																										5/1	
CLK00P	0	CLK00P	196		TO 3B DMA UNIT	P/CLK00N																				3/2	
CLK10N	0	CLK10N	207		TO 3B DMA UNIT	P/CLK10P																				5/2	
CLK10P	0	CLK10P	306		TO 3B DMA UNIT	P/CLK10N																				3/2	
																										5/1	
CPO	0	CPO0	319		1/2		INFP00	0	INFP080	354		1/2														3/2	
DAH08N	IO	DAH08N	010		TO 3B DMA UNIT	P/DAH08P	INFP10	0	INFP180	154		1/2														5/1	
DAH08P	IO	DAH08P	109		TO 3B DMA UNIT	P/DAH08N																				3/2	
							INFP20	0	INFP280	342		1/2														5/2	
DAH18N	IO	DAH18N	210		TO 3B DMA UNIT	P/DAH18P	INFP30	0	INFP380	142		1/2														3/2	
DAH18P	IO	DAH18P	309		TO 3B DMA UNIT	P/DAH18N	INF000	0	INF0080	134		1/2														5/1	
DAL08N	IO	DAL08N	009		TO 3B DMA UNIT	P/DAL08P								INF010	0	INF0180	035		1/2							3/2	
							INF020	0	INF0280	138		1/2														5/2	
DAL08P	IO	DAL08P	108		TO 3B DMA UNIT	P/DAL08N	INF030	0	INF0380	037		1/2														3/2	
DAL18N	IO	DAL18N	209		TO 3B DMA UNIT	P/DAL18P								INF040	0	INF0480	138		1/2							5/1	
DAL18P	IO	DAL18P	308		TO 3B DMA UNIT	P/DAL18N	INF050	0	INF0580	039		1/2		INF050	0	INF0580	039		1/2							3/2	
							INF060	0	INF0680	140		1/2		INF060	0	INF0680	140		1/2							5/1	
DPO	0	DPO0	219		1/2																					3/2	
DRD	0	DRD0	019		1/2		INF070	0	INF0780	041		1/2														5/1	
EOTO	0	EOTO0	118		1/2		INF080	0	INF0880	334		1/2														3/2	
							INF090	0	INF0980	235		1/2														5/1	
GRD176	GRD	GRD	006		TO 3B DMA UNIT																					3/2	
	GRD	GRD	101																							5/1	
	GRD	GRD	103																							3/2	
																										5/1	
	GRD	GRD	111		TO 3B DMA UNIT		INF100	0	INF1080	336		1/2														3/2	
	GRD	GRD	113				INF110	0	INF1180	237		1/2														5/1	
	GRD	GRD	117				INF120	0	INF1280	338		1/2														3/2	
																										5/1	
	GRD	GRD	119				INF130	0	INF1380	239		1/2														3/2	
	GRD	GRD	121				INF140	0	INF1480	340		1/2														5/1	
	GRD	GRD	135				INF150	0	INF1580	241		1/2														3/2	
																										5/1	
	GRD	GRD	137				INF160	0	INF1680	146		1/2														3/2	
	GRD	GRD	139				INF170	0	INF1780	047		1/2														5/1	
	GRD	GRD	141				INF180	0	INF1880	148		1/2														3/2	
																										5/1	
	GRD	GRD	143				INF190	0	INF1980	049		1/2														3/2	
	GRD	GRD	145				INF200	0	INF2080	150		1/2														5/1	
	GRD	GRD	147				INF210	0	INF2180	051		1/2														3/2	
																										5/1	
	GRD	GRD	149				INF220	0	INF2280	152		1/2														3/2	
	GRD	GRD	151				INF230	0	INF2380	053		1/2														5/1	
	GRD	GRD	153				INF240	0	INF2480	346		1/2														3/2	
																										5/1	
	GRD	GRD	155				INF250	0	INF2580	247		1/2														3/2	
	GRD	GRD	200				INF260	0	INF2680	348		1/2														5/1	
	GRD	GRD	202				INF270	0	INF2780	249		1/2														3/2	
																										5/1	
	GRD	GRD	204		TO 3B DMA UNIT		INF280	0	INF2880	350																	

PART OF FS 1
PROCESSOR

SYMBOL NO. 2 (CONT)
BUS INTERFACE CONTROLLER

SYMBOL NO. 2 (CONT)
BUS INTERFACE CONTROLLER

SYMBOL NO. 3
PERIPHERAL INTERFACE CONTROLLER

SYMBOL NO. 3 (CONT)
PERIPHERAL INTERFACE CONTROLLER

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
BIC	04-160	TN70B	A	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
	GRD	GRD	016			
	GRD	GRD	018			
	GRD	GRD	101			
	GRD	GRD	103			
	GRD	GRD	105			
	GRD	GRD	109			
	GRD	GRD	111			
	GRD	GRD	113			
	GRD	GRD	116			
	GRD	GRD	117			
	GRD	GRD	119			
	GRD	GRD	121			
	GRD	GRD	123			
	GRD	GRD	133			
	GRD	GRD	135			
	GRD	GRD	137			
	GRD	GRD	141			
	GRD	GRD	143			
	GRD	GRD	145			
	GRD	GRD	149			
	GRD	GRD	151			
	GRD	GRD	153			
	GRD	GRD	155			
	GRD	GRD	200			
	GRD	GRD	202			
	GRD	GRD	204			
	GRD	GRD	206			
	GRD	GRD	208			
	GRD	GRD	210			
	GRD	GRD	212			
	GRD	GRD	214			
	GRD	GRD	215			
	GRD	GRD	216			
	GRD	GRD	217			
	GRD	GRD	218			
	GRD	GRD	220			
	GRD	GRD	222			
	GRD	GRD	224			
	GRD	GRD	232			
	GRD	GRD	234			
	GRD	GRD	236			
	GRD	GRD	238			
	GRD	GRD	240			
	GRD	GRD	242			
	GRD	GRD	244			
	GRD	GRD	246			
	GRD	GRD	248			
	GRD	GRD	250			
	GRD	GRD	252			
	GRD	GRD	254			
	GRD	GRD	315			P/20MHZ1
	GRD	GRD	317			
	GRD	GRD	324			
	GRD	GRD	332			
	GRD	GRD	349			
	GRD	GRD	351			
	GRD	GRD	356			
INCTMR1	0	0.5MHZ00	313			
	1	INCTMR10	213			
INFP00	10	INFP080	354			1/1

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
BIC	04-160	TN70B	A	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
INFP10	10	INFP180	154		1/1	
INFP20	10	INFP280	342		1/1	
INFP30	10	INFP380	142		1/1	
INF000	10	INF0080	134		1/1	
INF010	10	INF0180	035		1/1	
INF020	10	INF0280	136		1/1	
INF030	10	INF0380	037		1/1	
INF040	10	INF0480	138		1/1	
INF050	10	INF0580	039		1/1	
INF060	10	INF0680	140		1/1	
INF070	10	INF0780	041		1/1	
INF080	10	INF0880	334		1/1	
INF090	10	INF0980	235		1/1	
INF100	10	INF1080	336		1/1	
INF110	10	INF1180	237		1/1	
INF120	10	INF1280	338		1/1	
INF130	10	INF1380	239		1/1	
INF140	10	INF1480	340		1/1	
INF150	10	INF1580	241		1/1	
INF160	10	INF1680	146		1/1	
INF170	10	INF1780	047		1/1	
INF180	10	INF1880	148		1/1	
INF190	10	INF1980	049		1/1	
INF200	10	INF2080	150		1/1	
INF210	10	INF2180	051		1/1	
INF220	10	INF2280	152		1/1	
INF230	10	INF2380	053		1/1	
INF240	10	INF2480	346		1/1	
INF250	10	INF2580	247		1/1	
INF260	10	INF2680	347		1/1	
INF270	10	INF2780	348		1/1	
INF280	10	INF2880	249		1/1	
INF290	10	INF2980	352		1/1	
INF300	10	INF3080	253		1/1	
INF310	10	INF3180	353		1/1	
INHCK00	I	INHCK010	055		1/3	
INHCK10	I	INHCK110	255		1/3	
INT0	0	INT00	321		1/1	
SETUP0	0	SETUP00	022		1/1	
SNTYER1	0	SNTYER01	311		1/3, 3/1	
SRC01	I	SRC011	106		3/2	
SRC11	I	SRC111	306		1/3, 3/1	
SRC21	I	SRC211	007		3/2	
SRC31	I	SRC311	207		1/3, 3/1	
SRC41	I	SRC411	307		3/2	
SST0	I	SST10	318		1/1	
SYNCD	0	SYNCD0	221		1/1	
THRINT0	0	THRINT00	310		1/3	
XFER0	0	XFER00	021		1/1	
ZOMHZ1	I	ZOMHZ11	316		1/1	P/GRD160

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PIC	04-104	TN61B	A	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
NC	PWR	P55	044			
	I	ENSEQ1	010			
	I	COUT1	011			
	I	ZER01	012			
	I	UDR201	013			
	I	UDR231	014			
	I	UDR261	015			
	I	UDR291	016			
	I	DIRECT11	053			
	I	INT20	055			
	I	ENALU1	110			
	I	TCRST0	112			
	I	UDR241	114			
	I	UDR301	116			
	I	SINT20	144			
	I	INT40	154			
	I	OVFL01	211			
	I	UDR211	213			
	I	UDR271	215			
	I	INT10	255			
	I	ENASEL1	310			
	I	NEG1	311			
	I	UDR221	313			
	I	UDR231	314			
	I	UDR281	315			
	I	UDR311	316			
	I	INT00	355			
+CNTSNSA	10	PPRA	042		1/1	
+5PWR	PWR	+5	000		1/1	
	PWR	+5	032		1/1	
	PWR	+5	107		1/1	
	PWR	+5	115		1/1	
	PWR	+5	124		1/1	
	PWR	+5	139		1/1	
	PWR	+5	147		1/1	
	PWR	+5	156		1/1	
-CNTSNSA	10	PPRB	040		2/1	
ADTAPER1	I	TEST21	351		3/1	
AINTSUM0	I	INT50	054		3/1	
BDTAPER1	I	TEST31	352		3/2	
BICERO	I	TEST11	251		1/2	
BINTSUM0	I	INT60	353		3/2	
CFLG0	I	INT30	354		1/2	
CLEAR00	I	CLEAR00	056		1/2	
CLEAR10	I	CLEAR10	256		1/2	
CLOCK1	I	CLOCK1	350		2/1	
DBPH1	10	SPPAR	100		1/2	
DBPL1	10	DBPAR	006		1/2	
DB001	10	DB001	300		1/2	
DB011	10	DB011	001		1/2	
DB021	10	DB021	201		1/2	
DB031	10	DB031	301		1/2	
DB041	10	DB041	002		1/2	
DB051	10	DB051	102		1/2	
DB061	10	DB061	302		1/2	
DB071	10	DB071	003		1/2	
DB081	10	DB081	203		1/2	
DB091	10	DB091	303		1/2	
DB101	10	DB101	004		1/2	
DB111	10	DB111	104		1/2	

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PIC	04-104	TN61B	A	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
DB121	10	DB121	304		1/2	
DB131	10	DB131	005		1/2	
DB141	10	DB141	205		1/2	
DB151	10	DB151	305		1/2	
DFLG0	I	TEST01	051		1/2	
DST01	10	DST01	008		1/2	
DST11	10	DST11	108		1/2	
DST21	10	DST21	308		1/2	
DST31	10	DST31	009		1/2	
DST41	10	DST41	209		1/2	
GRD104	GRD	GRD	101			
	GRD	GRD	103			
	GRD	GRD	105			
	GRD	GRD	109			
	GRD	GRD	111			
	GRD	GRD	113			
	GRD	GRD	117			
	GRD	GRD	119			
	GRD	GRD	121			
	GRD	GRD	123			
	GRD	GRD	133			
	GRD	GRD	135			
	GRD	GRD	137			
	GRD	GRD	141			
	GRD	GRD	143			
	GRD	GRD	145			
	GRD	GRD	149			
	GRD	GRD	151			
	GRD	GRD	153			
	GRD	GRD	155			
	GRD	GRD	200			
	GRD	GRD	202			
	GRD	GRD	204			
	GRD	GRD	206			
	GRD	GRD	208			
	GRD	GRD	210			
	GRD	GRD	212			
	GRD	GRD	214			
	GRD	GRD	216			
	GRD	GRD	218			
	GRD	GRD	220			
	GRD	GRD	222			
	GRD	GRD	224			
	GRD	GRD	226			
	GRD	GRD	228			
	GRD	GRD	230			
	GRD	GRD	232			
	GRD	GRD	234			
	GRD	GRD	236			
	GRD	GRD	238			
	GRD	GRD	240			
	GRD	GRD	242			
	GRD	GRD	244			

PART OF FS 1
SYMBOL(S) 2 3

MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		C2	3D
BELL LABORATORIES	SD-5D026-01	B#1CB	

PART OF FS 1
PROCESSOR

SYMBOL NO. 3 (CONT)
PERIPHERAL INTERFACE CONTROLLER

SYMBOL NO. 3 (CONT)
PERIPHERAL INTERFACE CONTROLLER

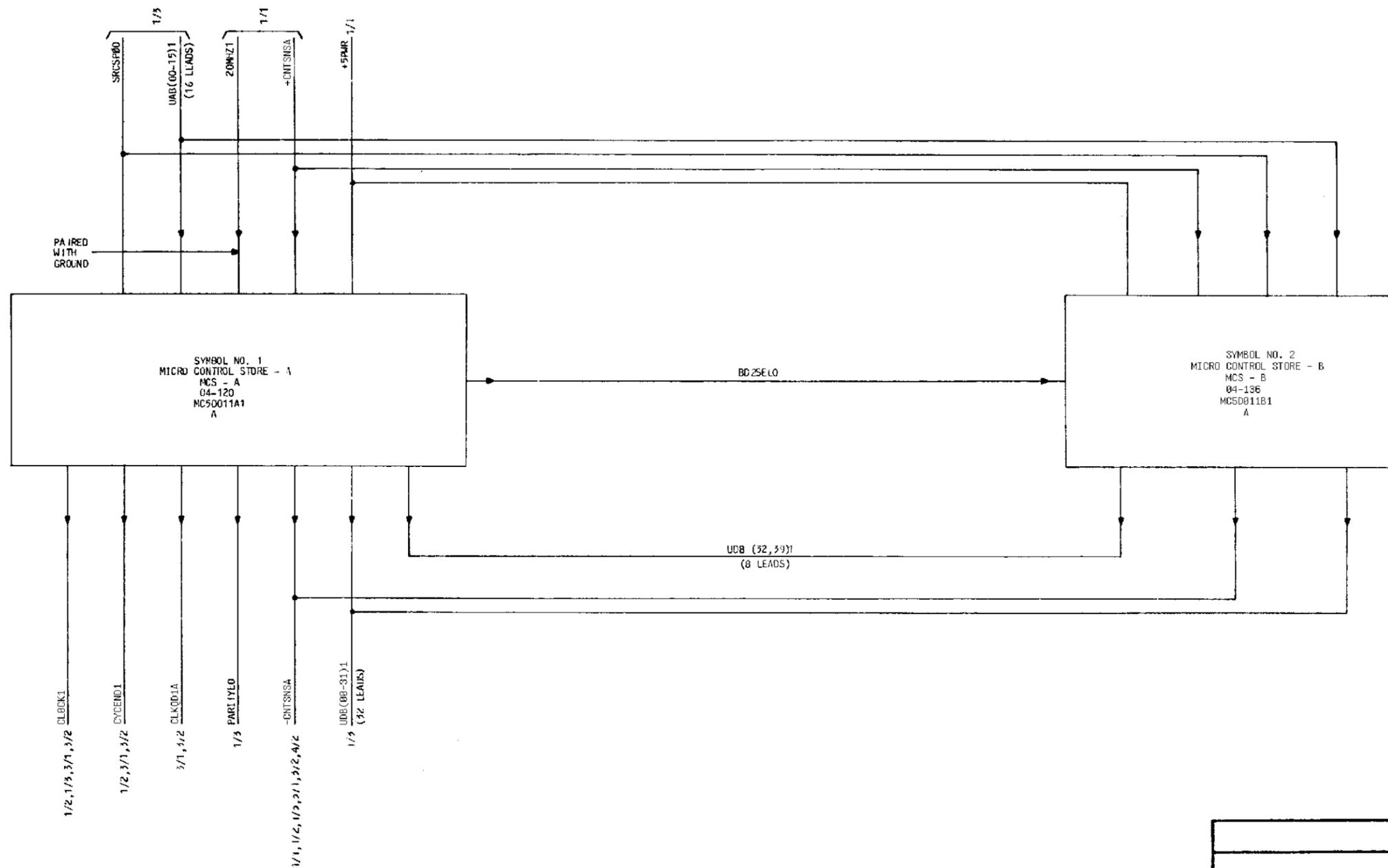
DESIG	EQPT LOC	CODE	ELEM IDENT	OPT	
PIC	04-104	TN61B	A		
LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
	GRD	GRD	246		
	GRD	GRD	248		
	GRD	GRD	250		
	GRD	GRD	252		
	GRD	GRD	254		
	GRD	GRD	324		
	GRD	GRD	332		
	GRD	GRD	356		
INHCK00	I	INHCK00	050	1/2	
INHCK10	I	INHCK10	150	1/2	
PARITYE0	I	PARITYE0	152	2/1	
SRCSP00	IO	DESTSP00	309	2/1, 2/2	
SRC01	IO	SOURCE01	106	1/2	
SRC11	IO	SOURCE11	306	1/2	
SRC21	IO	SOURCE21	007	1/2	
SRC31	IO	SOURCE31	207	1/2	
SRC41	IO	SOURCE41	307	1/2	
TMRINT0	I	INT70	253	1/2	
UAB001	O	UAB001	344	2/1, 2/2	
UAB011	O	UAB011	045	2/1, 2/2	
UAB021	O	UAB021	245	2/1, 2/2	
UAB031	O	UAB031	345	2/1, 2/2	
UAB041	O	UAB041	046	2/1, 2/2	
UAB051	O	UAB051	146	2/1, 2/2	
UAB061	O	UAB061	346	2/1, 2/2	
UAB071	O	UAB071	047	2/1, 2/2	
UAB081	O	UAB081	247	2/1, 2/2	
UAB091	O	UAB091	347	2/1, 2/2	
UAB101	O	UAB101	048	2/1, 2/2	
UAB111	O	UAB111	148	2/1, 2/2	
UAB121	IO	UAB121	348	2/1, 2/2	
UAB131	IO	UAB131	049	2/1, 2/2	
UAB141	IO	UAB141	249	2/1, 2/2	
UAB151	IO	UAB151	349	2/1, 2/2	
UDB001	I	UDB001	017	2/1	
UDB011	I	UDB011	217	2/1	
UDB021	I	UDB021	317	2/1	
UDB031	I	UDB031	018	2/1	
UDB041	I	UDB041	118	2/1	
UDB051	I	UDB051	318	2/1	
UDB061	I	UDB061	019	2/1	
UDB071	I	UDB071	219	2/1	
UDB081	I	UDB081	319	2/1	
UDB091	I	UDB091	020	2/1	
UDB101	I	UDB101	120	2/1	
UDB111	I	UDB111	320	2/1	
UDB121	I	UDB121	021	2/1	
UDB131	I	UDB131	221	2/1	
UDB141	I	UDB141	321	2/1	
UDB151	I	UDB151	022	2/1	
UDB161	IO	UDB161	122	2/1	
UDB171	IO	UDB171	322	2/1	
UDB181	IO	UDB181	023	2/1	
UDB191	IO	UDB191	223	2/1	
UDB201	IO	UDB201	323	2/1	
UDB211	IO	UDB211	024	2/1	
UDB221	IO	UDB221	124	2/1	
UDB231	IO	UDB231	033	2/1	

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT	
PIC	04-104	TN61B	A		
LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
UDB241	IO	UDB241	233	2/1	
UDB251	IO	UDB251	333	2/1	
UDB261	IO	UDB261	034	2/1	
UDB271	IO	UDB271	134	2/1	
UDB281	IO	UDB281	334	2/1	
UDB291	IO	UDB291	035	2/1	
UDB301	IO	UDB301	235	2/1	
UDB311	IO	UDB311	335	2/1	

PART OF FS 1
SYMBOL(S) 3

MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		C2	3D
BELL LABORATORIES	SD-5D026-01	B#1CC	

PART OF FS 2
MEMORY
(P/B INTERCONNECTION & FLOW DIAGRAM)



MESSAGE SWITCH CONTROL UNIT		DWG SIZE 65	ISSUE 30
BELL LABORATORIES	SD-5D026-01	B#2AA	

PART OF FS 2
MEMORY

SYMBOL NO. 1
MICRO-CONTROL STORE - A

SYMBOL NO. 1 (CONT)
MICRO-CONTROL STORE - A

SYMBOL NO. 1 (CONT)
MICRO-CONTROL STORE - A

SYMBOL NO. 2 (CONT)
MICRO-CONTROL STORE - B

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT	DESIG	EOPT LOC	CODE	ELEM IDENT	OPT	DESIG	EOPT LOC	CODE	ELEM IDENT	OPT	DESIG	EOPT LOC	CODE	ELEM IDENT	OPT						
MCS-A	04-120	MC5D011A1	A		MCS-A	04-120	MC5D011A1	A		MCS-A	04-120	MC5D011A1	A		MCS-B	04-136	MC5D011B1	A							
LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE	LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE	LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE	LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE		
NC	0	P55	044			GRD	GRD	232				UDB171	OT	UDB171	322	2/2									
	0	CLKQA1	051			GRD	GRD	236				UDB181	OT	UDB181	023	2/2									
	0	CLKQC1	052			GRD	GRD	238				UDB191	OT	UDB191	223	2/2									
	0	BD3SELO	054			GRD	GRD	240				UDB201	OT	UDB201	323	2/2									
	0	BD4SELO	154			GRD	GRD	242				UDB211	OT	UDB211	024	2/2									
	0	CLKQB1	351			GRD	GRD	244				UDB221	OT	UDB221	132	2/2									
	I	STPCLK0	150			GRD	GRD	246				UDB231	OT	UDB231	033	2/2									
	I	BDCS1	256			GRD	GRD	248				UDB241	OT	UDB241	233	2/2									
	I	+CURPR	042	1/1		GRD	GRD	250				UDB251	OT	UDB251	333	2/2									
+CNTSNSA												UDB261	OT	UDB261	034	2/2									
+5PWR	PWR	VCC	000	1/1								UDB271	OT	UDB271	134	2/2									
	PWR	VCC	032	1/1								UDB281	OT	UDB281	334	2/2									
	PWR	VCC	107	1/1								UDB291	OT	UDB291	035	2/2									
	PWR	VCC	115	1/1								UDB301	OT	UDB301	235	2/2									
	PWR	VCC	124	1/1								UDB311	OT	UDB311	335	2/2									
	PWR	VCC	139	1/1								UDB321	OT	UDB321	036	2/2									
	PWR	VCC	147	1/1								UDB331	OT	UDB331	136	2/2									
	PWR	VCC	156	1/1								UDB341	OT	UDB341	336	2/2									
	OT	-CURPR	040	2/2								UDB351	OT	UDB351	037	2/2									
	I			1/1, 1/2								UDB361	OT	UDB361	237	2/2									
				1/3, 3/1								UDB371	OT	UDB371	337	2/2									
				3/2, 4/2								UDB381	OT	UDB381	038	2/2									
BD1SELO	0	BD1SELO	253									UDB391	OT	UDB391	138	2/2									
	I	ENCSD	053									20MHZ1	I	20MHZ1	144	1/1									
BD2SELO	0	BD2SELO	353	2/2																					
CLKQD1A	0	CLKQD1	352	3/1, 3/2																					
CLOCK1	0	CLOCK1	350	1/2, 1/3																					
CYCEND1	0	CYCEND1	251	3/1, 3/2																					
				1/2, 3/1																					
				3/2																					
GRD120	GRD	GRD	101																						
	GRD	GRD	103																						
	GRD	GRD	105																						
	GRD	GRD	109																						
	GRD	GRD	111																						
	GRD	GRD	113																						
	GRD	GRD	117																						
	GRD	GRD	119																						
	GRD	GRD	121																						
	GRD	GRD	123																						
	GRD	GRD	133																						
	GRD	GRD	135																						
	GRD	GRD	137																						
	GRD	GRD	141																						
	GRD	GRD	143																						
	GRD	GRD	145																						
	GRD	GRD	149																						
	GRD	GRD	151																						
	GRD	GRD	153																						
	GRD	GRD	155																						
	GRD	GRD	200																						
	GRD	GRD	202																						
	GRD	GRD	204																						
	GRD	GRD	206																						
	GRD	GRD	208																						
	GRD	GRD	210																						
	GRD	GRD	212																						
	GRD	GRD	214																						
	GRD	GRD	216																						
	GRD	GRD	218																						
	GRD	GRD	220																						
	GRD	GRD	222																						
	GRD	GRD	224																						

SYMBOL NO. 2
MICRO-CONTROL STORE - B

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT	
MCS-B	04-136	MC5D011B1	A		
LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
NC	0	P55	044		
	0	CLKQA1	051		
	0	CLKQC1	052		
	0	BD3SELO	054		
	0	PARITYE0	152		
	0	BD4SELO	154		
	0	CYCEND1	251		
	0	BD1SELO	253		
	0	CLOCK1	350		
	0	CLKQB1	351		
	0	CLKQD1	352		
	0	BD2SELO	353		

PART OF FS 2
SYMBOL(S) 1 2

MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		C2	3D
BELL LABORATORIES	SD-5D026-01	B#2CA	

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PART OF FS 2
MEMORY

SYMBOL NO. 2 (CONT)
MICRO-CONTROL STORE - B

SYMBOL NO. 2 (CONT)
MICRO-CONTROL STORE - B

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
MCS-B	04-136	MC5001181	A	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
	GRD	GRD	240			
	GRD	GRD	242			
	GRD	GRD	244			
	GRD	GRD	246			
	GRD	GRD	248			
	GRD	GRD	250			
	GRD	GRD	252			
	GRD	GRD	256			
	GRD	GRD	324			
	GRD	GRD	332			
	GRD	GRD	356			
SRCSP00	I	SRCSP00	309		1/3	
UAB001	I	UAB001	344		1/3	
UAB011	I	UAB011	045		1/3	
UAB021	I	UAB021	245		1/3	
UAB031	I	UAB031	345		1/3	
UAB041	I	UAB041	046		1/3	
UAB051	I	UAB051	146		1/3	
UAB061	I	UAB061	346		1/3	
UAB071	I	UAB071	047		1/3	
UAB081	I	UAB081	247		1/3	
UAB091	I	UAB091	347		1/3	
UAB101	I	UAB101	048		1/3	
UAB111	I	UAB111	148		1/3	
UAB121	I	UAB121	348		1/3	
UAB131	I	UAB131	049		1/3	
UAB141	I	UAB141	249		1/3	
UAB151	I	BDCS0	056		1/3	
UDB001	OT	UDB001	017		2/1	
UDB011	OT	UDB011	217		2/1	
UDB021	OT	UDB021	317		2/1	
UDB031	OT	UDB031	018		2/1	
UDB041	OT	UDB041	118		2/1	
UDB051	OT	UDB051	318		2/1	
UDB061	OT	UDB061	019		2/1	
UDB071	OT	UDB071	219		2/1	
UDB081	OT	UDB081	319		2/1	
UDB091	OT	UDB091	020		2/1	
UDB101	OT	UDB101	120		2/1	
UDB111	OT	UDB111	320		2/1	
UDB121	OT	UDB121	021		2/1	
UDB131	OT	UDB131	221		2/1	
UDB141	OT	UDB141	321		2/1	
UDB151	OT	UDB151	022		2/1	
UDB161	OT	UDB161	122		2/1	
UDB171	OT	UDB171	322		2/1	
UDB181	OT	UDB181	023		2/1	
UDB191	OT	UDB191	223		2/1	
UDB201	OT	UDB201	323		2/1	
UDB211	OT	UDB211	024		2/1	
UDB221	OT	UDB221	124		2/1	
UDB231	OT	UDB231	033		2/1	
UDB241	OT	UDB241	233		2/1	
UDB251	OT	UDB251	333		2/1	
UDB261	OT	UDB261	034		2/1	
UDB271	OT	UDB271	134		2/1	
UDB281	OT	UDB281	334		2/1	
UDB291	OT	UDB291	035		2/1	

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
MCS-B	04-136	MC5001181	A	

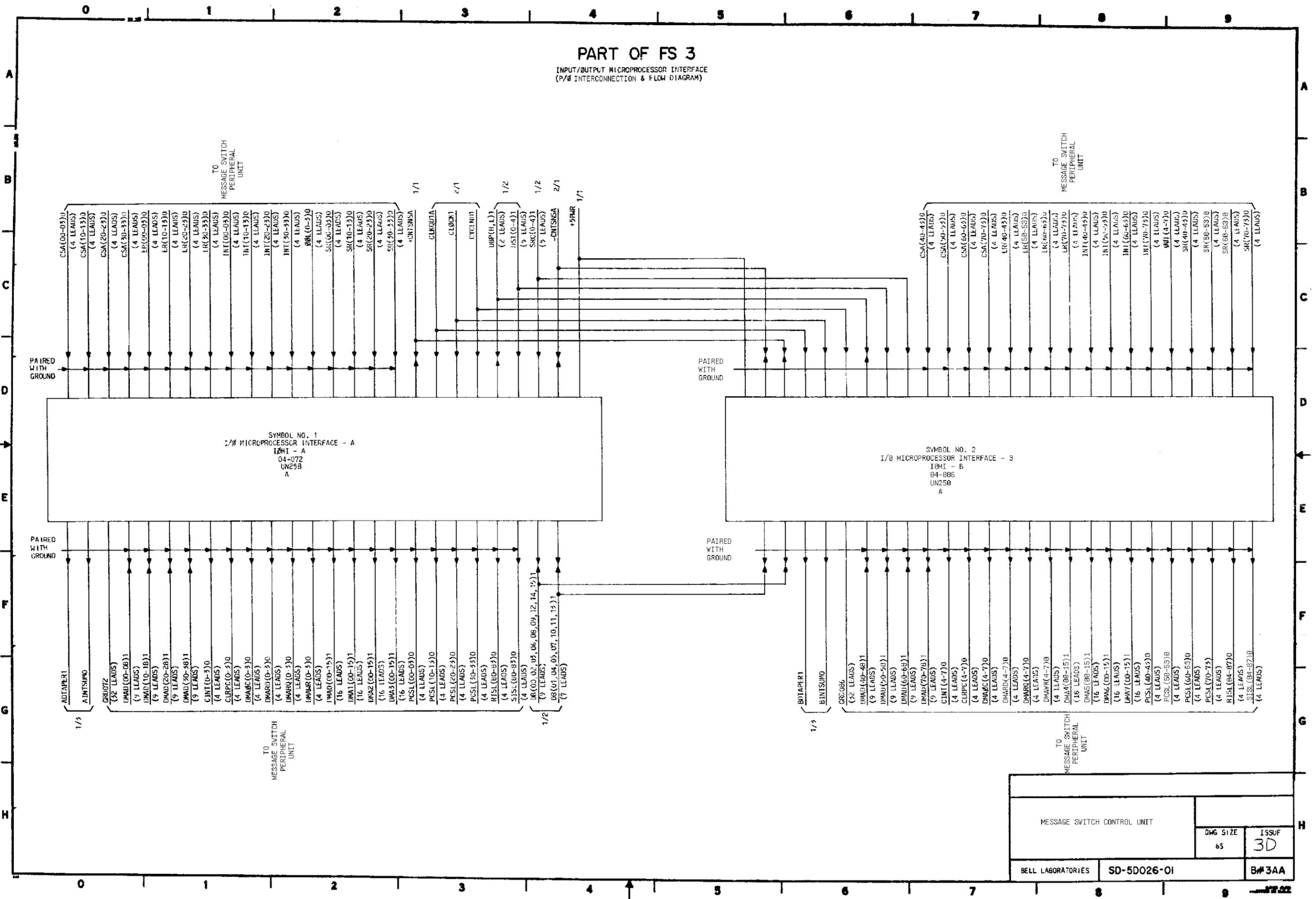
LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
UDB301	OT	UDB301	235		2/1	
UDB311	OT	UDB311	335		2/1	
UDB321	OT	UDB321	036		2/1	
UDB331	OT	UDB331	136		2/1	
UDB341	OT	UDB341	336		2/1	
UDB351	OT	UDB351	037		2/1	
UDB361	OT	UDB361	237		2/1	
UDB371	OT	UDB371	337		2/1	
UDB381	OT	UDB381	038		2/1	
UDB391	OT	UDB391	138		2/1	

PART OF FS 2
SYMBOL(S) 2

MESSAGE SWITCH CONTROL UNIT		DWG SIZE C2	ISSUE 3D
BELL LABORATORIES	SD-50026-01	B#2CB	

PART OF FS 3

INPUT/OUTPUT MICROPROCESSOR INTERFACE
(P/D INTERCONNECTION & FLOW DIAGRAM)



MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		85	3D
BELL LABORATORIES	SD-5D026-01	B# 3AA	

PART OF FS 3
INPUT/OUTPUT MICROPROCESSOR INTERFACE

SYMBOL NO. 1 (CONT)
I/O MICROPROCESSOR INTERFACE - A

SYMBOL NO. 1 (CONT)
I/O MICROPROCESSOR INTERFACE - A

SYMBOL NO. 1 (CONT)
I/O MICROPROCESSOR INTERFACE - A

SYMBOL NO. 1 (CONT)
I/O MICROPROCESSOR INTERFACE - A

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT	LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
10M1-A	04-072	UN258	A		DMA0021	0	DMA00201	234		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA0031	0	DMA00301	035		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA0041	0	DMA00401	535		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA0051	0	DMA00501	436		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA0061	0	DMA00601	237		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA0071	0	DMA00701	038		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA0081	0	DMA00801	438		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA0091	0	DMA00901	040		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA0101	0	DMA01001	440		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA0111	0	DMA01101	241		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA0121	0	DMA01201	042		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA0131	0	DMA01301	442		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA0141	0	DMA01401	343		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA0151	0	DMA01501	144		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA1001	0	DMA10001	133		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA1011	0	DMA10101	533		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA1021	0	DMA10201	334		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA1031	0	DMA10301	135		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA1041	0	DMA10401	036		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA1051	0	DMA10501	536		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA1061	0	DMA10601	337		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA1071	0	DMA10701	138		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA1081	0	DMA10801	538		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA1091	0	DMA10901	140		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA1101	0	DMA11001	540		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA1111	0	DMA11101	341		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA1121	0	DMA11201	142		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA1131	0	DMA11301	542		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA1141	0	DMA11401	443		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA1151	0	DMA11501	244		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA2001	0	DMA20001	233		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA2011	0	DMA20101	034		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA2021	0	DMA20201	434		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA2031	0	DMA20301	235		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA2041	0	DMA20401	136		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA2051	0	DMA20501	037		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA2061	0	DMA20601	437		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA2071	0	DMA20701	238		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA2081	0	DMA20801	039		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA2091	0	DMA20901	240		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA2101	0	DMA21001	041		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA2111	0	DMA21101	441		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA2121	0	DMA21201	242		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA2131	0	DMA21301	043		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA2141	0	DMA21401	543		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA2151	0	DMA21501	444		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA3001	0	DMA30001	333		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA3011	0	DMA30101	134		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA3021	0	DMA30201	534		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA3031	0	DMA30301	435		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA3041	0	DMA30401	336		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA3051	0	DMA30501	137		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA3061	0	DMA30601	537		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA3071	0	DMA30701	338		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA3081	0	DMA30801	539		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA3091	0	DMA30901	340		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA3101	0	DMA31001	141		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA3111	0	DMA31101	541		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA3121	0	DMA31201	342		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA3131	0	DMA31301	143		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA3141	0	DMA31401	044		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DMA3151	0	DMA31501	544		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DST01	1	DST011	508		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DST11	1	DST111	009		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DST21	1	DST211	309		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DST31	1	DST311	509		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					DST41	1	DST411	010		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					ER000	1	ER0010	504		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					ER010	1	ER0110	005		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					ER020	1	ER0210	105		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					ER030	1	ER0310	305		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					ER100	1	ER1010	405		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					ER110	1	ER1110	505		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					ER120	1	ER1210	006		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					ER130	1	ER1310	106		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					ER200	1	ER2010	206		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					ER210	1	ER2110	306		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					ER220	1	ER2210	406		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					ER230	1	ER2310	506		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					ER300	1	ER3010	007		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					ER310	1	ER3110	107		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					ER320	1	ER3210	207		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					ER330	1	ER3310	407		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
					GRD072	1	GRD072	356		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD072
							GRD	GRD	013		TO MESSAGE SWITCH PERIPHERAL UNIT
							GRD	GRD	109		TO MESSAGE SWITCH PERIPHERAL UNIT
							GRD	GRD	119		TO MESSAGE SWITCH PERIPHERAL UNIT
							GRD	GRD	139		TO MESSAGE SWITCH PERIPHERAL UNIT
							GRD	GRD	153		TO MESSAGE SWITCH PERIPHERAL UNIT
							GRD	GRD	200		TO MESSAGE SWITCH PERIPHERAL UNIT
							GRD	GRD	205		TO MESSAGE SWITCH PERIPHERAL UNIT
							GRD	GRD	209		TO MESSAGE SWITCH PERIPHERAL UNIT
							GRD	GRD	214		TO MESSAGE SWITCH PERIPHERAL UNIT
							GRD	GRD	218		TO MESSAGE SWITCH PERIPHERAL UNIT
							GRD	GRD	221		TO MESSAGE SWITCH PERIPHERAL UNIT
							GRD	GRD	236		TO MESSAGE SWITCH PERIPHERAL UNIT
							GRD	GRD	243		TO MESSAGE SWITCH PERIPHERAL UNIT
							GRD	GRD	247		TO MESSAGE SWITCH PERIPHERAL UNIT

PART OF FS 3
SYMBOL(S) 1

MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		C2	3D
BELL LABORATORIES	SD-5D026-01	B#3CB	

PART OF FS 3
INPUT/OUTPUT MICROPROCESSOR INTERFACE

SYMBOL NO. 2

I/O MICROPROCESSOR INTERFACE - B

SYMBOL NO. 2 (CONT)

I/O MICROPROCESSOR INTERFACE - B

SYMBOL NO. 2 (CONT)

I/O MICROPROCESSOR INTERFACE - B

SYMBOL NO. 2 (CONT)

I/O MICROPROCESSOR INTERFACE - B

SYMBOL NO. 2							SYMBOL NO. 2 (CONT)							SYMBOL NO. 2 (CONT)							SYMBOL NO. 2 (CONT)																
I/O MICROPROCESSOR INTERFACE - B							I/O MICROPROCESSOR INTERFACE - B							I/O MICROPROCESSOR INTERFACE - B							I/O MICROPROCESSOR INTERFACE - B																
DESIG	EOPT	LOC	CODE	ELEM	IDENT	OPT	DESIG	EOPT	LOC	CODE	ELEM	IDENT	OPT	DESIG	EOPT	LOC	CODE	ELEM	IDENT	OPT	DESIG	EOPT	LOC	CODE	ELEM	IDENT	OPT										
IOMI-B 04-086 UN25B A							IOMI-B 04-086 UN25B A							IOMI-B 04-086 UN25B A							IOMI-B 04-086 UN25B A																
LEAD	DESIG	FUNC	TERM.	MOD	TERM.	OPT	DESTINATION	NOTE	LEAD	DESIG	FUNC	TERM.	MOD	TERM.	OPT	DESTINATION	NOTE	LEAD	DESIG	FUNC	TERM.	MOD	TERM.	OPT	DESTINATION	NOTE	LEAD	DESIG	FUNC	TERM.	MOD	TERM.	OPT	DESTINATION	NOTE		
NC	0	0	P5S01	045					CSA620	I		CSA2210	015			TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMAD511	10		DMAD1181	046			TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMAD771	10		DMAD3781	550		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			
	0	0	00S001	052																																	
	0	0	FPHRF00	056																																	
	0	0	00S101	152					CSA630	I		CSA2310	115			TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMAD521	10		DMAD1281	446			TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMAD781	10		DMAD3881	051		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			
	0	0	00S201	352																																	
	0	0	00S301	452																																	
+CNTNSA	10		+CLURPR	339			1/1		CSA700	I		CSA3010	215			TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMAD531	10		DMAD1381	447			TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMAD0C40	0		DMAD0C000	420		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			
+5PHR	PHR	VCC	VCC	000			1/1																														
	PHR	VCC	VCC	032			1/1																														
	PHR	VCC	VCC	100			1/1		CSA710	I		CSA3110	315			TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMAD541	10		DMAD1481	248			TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMAD0C50	0		DMAD0C100	520		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			
	PHR	VCC	VCC	132			1/1																														
	PHR	VCC	VCC	224			1/1																														
	PHR	VCC	VCC	256			1/1		CSA720	I		CSA3210	415			TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMAD551	10		DMAD1581	049			TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMAD0C60	0		DMAD0C200	021		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			
-CNTNSA	10		-CLURPR	239			2/1																														
BDTAPER1	0		DTAPER01	400			1/3																														
	0		INTSUMD0	552			1/3		CSA730	I		CSA3310	515			TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMAD561	10		DMAD1681	449			TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMAD0C70	0		DMAD0C300	121		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			
	0		CINT000	118																																	
	0		CINT100	318																																	
	0		CINT200	418																																	
	0		CINT300	518																																	
	1		CLKDTA10	156			2/1																														
	1		CLKR01	350																																	
	0		CLR00W	016																																	
	0		CLR100	116																																	
	0		CLR200	216																																	
	0		CLR300	316																																	
	1		CSA0010	113																																	
	1		CSA0110	213																																	
	1		CSA0210	313																																	
	1		CSA0310	413																																	
	1		CSA1010	513																																	
	1		CSA1110	014																																	
	1		CSA1210	114																																	
	1		CSA1310	314																																	
	1		CSA2010	414																																	
	1		CSA2110	514																																	

PART OF FS 3
SYMBOL(S) 2

MESSAGE SWITCH CONTROL UNIT	DWG SIZE	ISSUE
	C2	3D
BELL LABORATORIES	SD-5D026-01	B#3CD

PART OF FS 3
INPUT/OUTPUT MICROPROCESSOR INTERFACE

SYMBOL NO. 2 (CONT)
I/O MICROPROCESSOR INTERFACE - B

SYMBOL NO. 2 (CONT)
I/O MICROPROCESSOR INTERFACE - B

SYMBOL NO. 2 (CONT)
I/O MICROPROCESSOR INTERFACE - B

SYMBOL NO. 2 (CONT)
I/O MICROPROCESSOR INTERFACE - B

SYMBOL NO. 2 (CONT)							SYMBOL NO. 2 (CONT)							SYMBOL NO. 2 (CONT)							SYMBOL NO. 2 (CONT)						
DESIG	EOPT	CODE	ELEM	OPT			DESIG	EOPT	CODE	ELEM	OPT			DESIG	EOPT	CODE	ELEM	OPT			DESIG	EOPT	CODE	ELEM	OPT		
10M1-B	04-086	UN258	A				10M1-B	04-086	UN258	A				10M1-B	04-086	UN258	A				10M1-B	04-086	UN258	A			
LEAD	FUNC	TERM.	TERM.	TERM.	DESTINATION	NOTE	LEAD	FUNC	TERM.	TERM.	TERM.	DESTINATION	NOTE	LEAD	FUNC	TERM.	TERM.	TERM.	DESTINATION	NOTE	LEAD	FUNC	TERM.	TERM.	TERM.	DESTINATION	NOTE
DMA4021	0	DMA00201	234		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA5111	0	DMA11101	341		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA7031	0	DMA30301	435		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	ER610	1	ER2110	306		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086
DMA4031	0	DMA00301	035		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA5121	0	DMA11201	142		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA7041	0	DMA30401	336		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	ER620	1	ER2210	406		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086
DMA4041	0	DMA00401	535		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA5131	0	DMA11301	542		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA7051	0	DMA30501	137		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	ER630	1	ER2310	506		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086
DMA4051	0	DMA00501	436		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA5141	0	DMA11401	443		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA7061	0	DMA30601	537		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	ER700	1	ER3010	007		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086
DMA4061	0	DMA00601	237		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA5151	0	DMA11501	244		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA7071	0	DMA30701	338		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	ER710	1	ER3110	107		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086
DMA4071	0	DMA00701	038		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA6001	0	DMA20001	233		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA7081	0	DMA30801	539		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	ER720	1	ER3210	207		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086
DMA4081	0	DMA00801	438		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA6011	0	DMA20101	034		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA7091	0	DMA30901	340		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	ER730	1	ER3310	407		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086
DMA4091	0	DMA00901	040		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA6021	0	DMA20201	434		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA7101	0	DMA31001	141		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	GRD086	1	GRD GRD	356 013		TO MESSAGE SWITCH PERIPHERAL UNIT	
DMA4101	0	DMA01001	440		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA6031	0	DMA20301	235		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA7111	0	DMA31101	541		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	109		TO MESSAGE SWITCH PERIPHERAL UNIT	
DMA4111	0	DMA01101	241		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA6041	0	DMA20401	136		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA7121	0	DMA31201	342		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	119		TO MESSAGE SWITCH PERIPHERAL UNIT	
DMA4121	0	DMA01201	042		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA6051	0	DMA20501	037		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA7131	0	DMA31301	143		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	139		TO MESSAGE SWITCH PERIPHERAL UNIT	
DMA4131	0	DMA01301	442		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA6061	0	DMA20601	437		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA7141	0	DMA31401	044		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	153		TO MESSAGE SWITCH PERIPHERAL UNIT	
DMA4141	0	DMA01401	343		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA6071	0	DMA20701	238		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA7151	0	DMA31501	544		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	200		TO MESSAGE SWITCH PERIPHERAL UNIT	
DMA4151	0	DMA01501	144		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA6081	0	DMA20801	039		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DST01	1	DST011	508		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	205		TO MESSAGE SWITCH PERIPHERAL UNIT	
DMA5001	0	DMA10001	133		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA6091	0	DMA20901	240		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DST11	1	DST111	009		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	209		TO MESSAGE SWITCH PERIPHERAL UNIT	
DMA5011	0	DMA10101	533		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA6101	0	DMA21001	041		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DST21	1	DST211	309		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	214		TO MESSAGE SWITCH PERIPHERAL UNIT	
DMA5021	0	DMA10201	334		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA6111	0	DMA21101	441		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DST31	1	DST311	509		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	218		TO MESSAGE SWITCH PERIPHERAL UNIT	
DMA5031	0	DMA10301	135		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA6121	0	DMA21201	242		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DST41	1	DST411	010		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	221		TO MESSAGE SWITCH PERIPHERAL UNIT	
DMA5041	0	DMA10401	036		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA6131	0	DMA21301	043		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	ER400	1	ER0010	504		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	236		TO MESSAGE SWITCH PERIPHERAL UNIT	
DMA5051	0	DMA10501	536		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA6141	0	DMA21401	543		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	ER410	1	ER0110	005		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	243		TO MESSAGE SWITCH PERIPHERAL UNIT	
DMA5061	0	DMA10601	337		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA6151	0	DMA21501	444		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	ER420	1	ER0210	105		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	247		TO MESSAGE SWITCH PERIPHERAL UNIT	
DMA5071	0	DMA10701	138		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA7001	0	DMA30001	333		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	ER430	1	ER0310	305		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	253		TO MESSAGE SWITCH PERIPHERAL UNIT	
DMA5081	0	DMA10801	538		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA7011	0	DMA30101	134		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	ER500	1	ER1010	405		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	257		TO MESSAGE SWITCH PERIPHERAL UNIT	
DMA5091	0	DMA10901	140		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	DMA7021	0	DMA30201	534		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086	ER510	1	ER1110	505		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	267		TO MESSAGE SWITCH PERIPHERAL UNIT	
DMA5101	0	DMA11001	540		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086								ER520	1	ER1210	006		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	277		TO MESSAGE SWITCH PERIPHERAL UNIT	
														ER530	1	ER1310	106		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	287		TO MESSAGE SWITCH PERIPHERAL UNIT	
														ER600	1	ER2010	206		TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086			GRD GRD	297		TO MESSAGE SWITCH PERIPHERAL UNIT	

PART OF FS 3
SYMBOL(S) 2

MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		C2	3D
BELL LABORATORIES	SD-50026-01	B#3CE	

PRINTED IN U. S. A. 06/01/83

PART OF FS 3
INPUT/OUTPUT MICROPROCESSOR INTERFACE

SYMBOL NO. 2 (CONT)
I/O MICROPROCESSOR INTERFACE - B

SYMBOL NO. 2 (CONT)
I/O MICROPROCESSOR INTERFACE - B

SYMBOL NO. 2 (CONT)
I/O MICROPROCESSOR INTERFACE - B

SYMBOL NO. 2 (CONT)
I/O MICROPROCESSOR INTERFACE - B

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
10M1-B	04-086	UN25B	A	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
	GRD	GRD	252	PERIPHERAL UNIT TO MESSAGE SWITCH PERIPHERAL UNIT	
	GRD	GRD	300		
	GRD	GRD	304	TO MESSAGE SWITCH PERIPHERAL UNIT TO MESSAGE SWITCH PERIPHERAL UNIT	
	GRD	GRD	307		
	GRD	GRD	312	TO MESSAGE SWITCH PERIPHERAL UNIT TO MESSAGE SWITCH PERIPHERAL UNIT	
	GRD	GRD	317		
	GRD	GRD	322	TO MESSAGE SWITCH PERIPHERAL UNIT TO MESSAGE SWITCH PERIPHERAL UNIT	
	GRD	GRD	332		
	GRD	GRD	335	TO MESSAGE SWITCH PERIPHERAL UNIT TO MESSAGE SWITCH PERIPHERAL UNIT	
	GRD	GRD	344		
	GRD	GRD	347	TO MESSAGE SWITCH PERIPHERAL UNIT TO MESSAGE SWITCH PERIPHERAL UNIT	
	GRD	GRD	351		
	GRD	GRD	409	TO MESSAGE SWITCH PERIPHERAL UNIT TO MESSAGE SWITCH PERIPHERAL UNIT	
	GRD	GRD	419		
	GRD	GRD	424	TO MESSAGE SWITCH PERIPHERAL UNIT TO MESSAGE SWITCH PERIPHERAL UNIT	
	GRD	GRD	439		
	GRD	GRD	453	TO MESSAGE SWITCH PERIPHERAL UNIT TO MESSAGE SWITCH PERIPHERAL UNIT	
	GRD	GRD	456		
	GRD		507	TO MESSAGE SWITCH PERIPHERAL UNIT TO MESSAGE SWITCH PERIPHERAL UNIT	
	GRD	GRD	524		
	GRD	GRD	556	TO MESSAGE SWITCH PERIPHERAL UNIT TO MESSAGE SWITCH PERIPHERAL UNIT	
INT400	I	INT0010	053	TO MESSAGE SWITCH PERIPHERAL UNIT TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086
INT410	I	INT0110	253		P/GRD086
INT420	I	INT0210	353		P/GRD086
INT430	I	INT0310	553		P/GRD086

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
10M1-B	04-086	UN25B	A	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
INT500	I	INT1010	054	TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086
INT510	I	INT1110	154		P/GRD086
INT520	I	INT1210	254		P/GRD086
INT530	I	INT1310	354		P/GRD086
INT600	I	INT2010	454		P/GRD086
INT610	I	INT2110	554		P/GRD086
INT620	I	INT2210	055		P/GRD086
INT630	I	INT2310	155		P/GRD086
INT700	I	INT3010	255		P/GRD086
INT710	I	INT3110	355		P/GRD086
INT720	I	INT3210	455		P/GRD086
INT730	I	INT3310	555		P/GRD086
00L40	I	00L010	004		P/GRD086
00L50	I	00L110	104		P/GRD086
00L60	I	00L210	204		P/GRD086
00L70	I	00L310	404		P/GRD086
PCSL400	0	SEL0000	110		P/GRD086
PCSL410	0	SEL0100	210		P/GRD086
PCSL420	0	SEL0200	310		P/GRD086
PCSL430	0	SEL0300	410		P/GRD086
PCSL500	0	SEL1000	510		P/GRD086
PCSL510	0	SEL1100	011		P/GRD086
PCSL520	0	SEL1200	111		P/GRD086
PCSL530	0	SEL1300	211		P/GRD086
PCSL600	0	SEL2000	311		P/GRD086

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
10M1-B	04-086	UN25B	A	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
PCSL610	0	SEL2100	411		P/GRD086
PCSL620	0	SEL2200	511		P/GRD086
PCSL630	0	SEL2300	012		P/GRD086
PCSL700	0	SEL3000	112		P/GRD086
PCSL710	0	SEL3100	212		P/GRD086
PCSL720	0	SEL3200	412		P/GRD086
PCSL730	0	SEL3300	512		P/GRD086
R1SL840	0	R1SL8000	416		P/GRD086
R1SL850	0	R1SL8100	516		P/GRD086
R1SL860	0	R1SL8200	017		P/GRD086
R1SL870	0	R1SL8300	117		P/GRD086
S1SL840	0	S1SL8000	217		P/GRD086
S1SL850	0	S1SL8100	417		P/GRD086
S1SL860	0	S1SL8200	517		P/GRD086
S1SL870	0	S1SL8300	018		P/GRD086
SRC01	I	SRC011	008	1/2	
SRC11	I	SRC111	108	1/2	
SRC21	I	SRC211	208	1/2	
SRC31	I	SRC311	308	1/2	
SRC41	I	SRC411	408	1/2	
SR400	I	SR0010	122	TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086
SR410	I	SR0110	222		P/GRD086
SR420	I	SR0210	422		P/GRD086
SR430	I	SR0310	522		P/GRD086
SR500	I	SR1010	023		P/GRD086
SR510	I	SR1110	123		P/GRD086
SR520	I	SR1210	223		P/GRD086

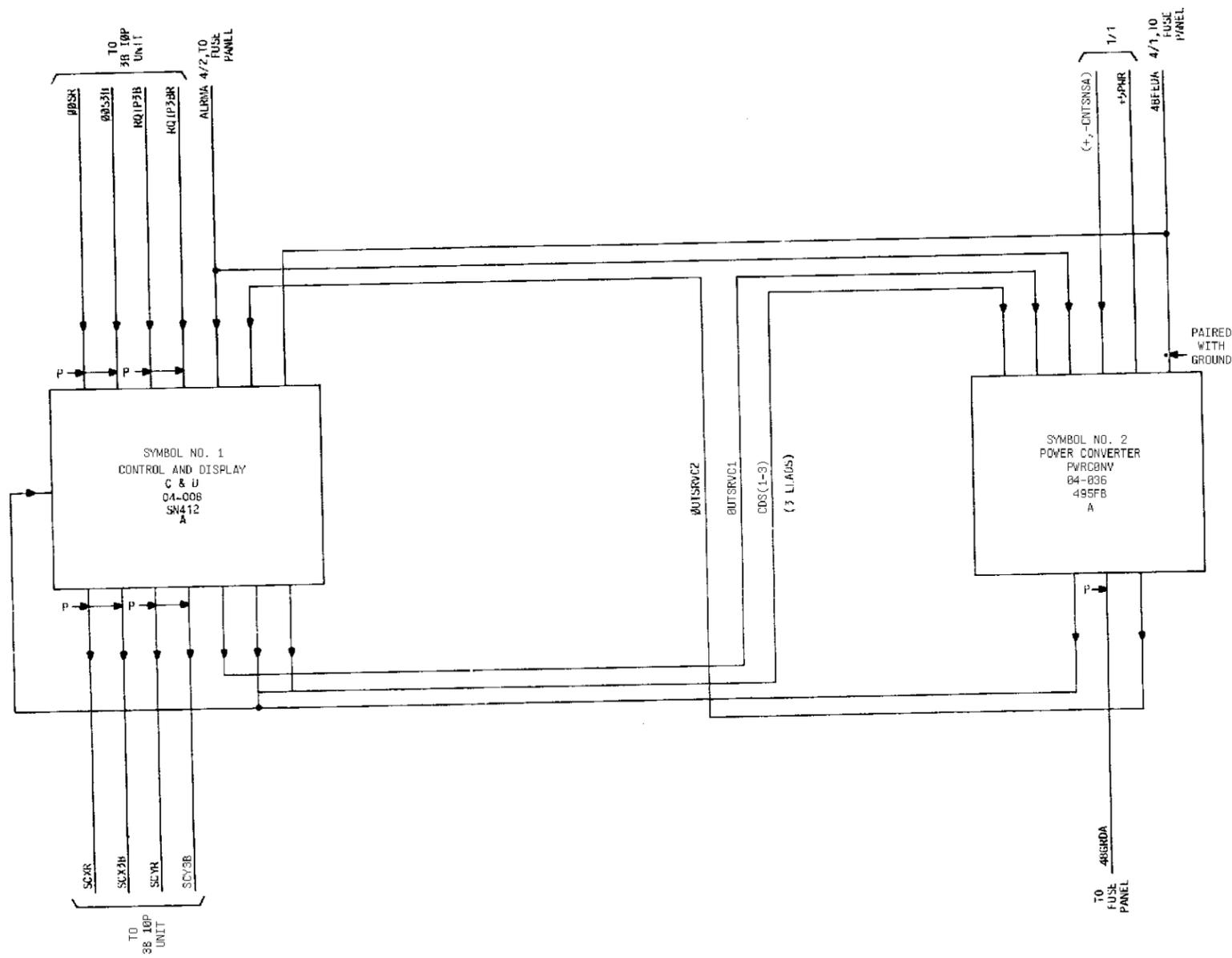
DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
10M1-B	04-086	UN25B	A	

LEAD DESIG	FUNC	TERM. MOD	TERM. OPT	DESTINATION	NOTE
SR530	I	SR1310	323	TO MESSAGE SWITCH PERIPHERAL UNIT	P/GRD086
SR600	I	SR2010	423		P/GRD086
SR610	I	SR2110	523		P/GRD086
SR620	I	SR2210	024		P/GRD086
SR630	I	SR2310	124		P/GRD086
SR700	I	SR3010	324		P/GRD086
SR710	I	SR3110	232		P/GRD086
SR720	I	SR3210	432		P/GRD086
SR730	I	SR3310	532		P/GRD086

PART OF FS 3
SYMBOL(S) 2

MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		C2	3D
BELL LABORATORIES	SD-50026-01	B#3CF	

PART OF FS 4
POWER
(P/O INTERCONNECTION & FLOW DIAGRAM)



SEE PROPRIETARY NOTICE ON COVER SHEET

MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		6S	5A
AT&T BELL LABORATORIES	SD-5D026-01	B#4AA	

PART OF FS 4
POWER

SYMBOL NO. 1
CONTROL AND DISPLAY

SYMBOL NO. 2
POWER CONVERTER

SYMBOL NO. 2 (CONT)
POWER CONVERTER

SYMBOL NO. 2 (CONT)
POWER CONVERTER

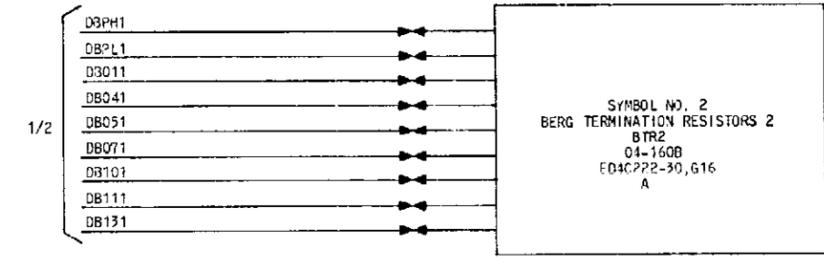
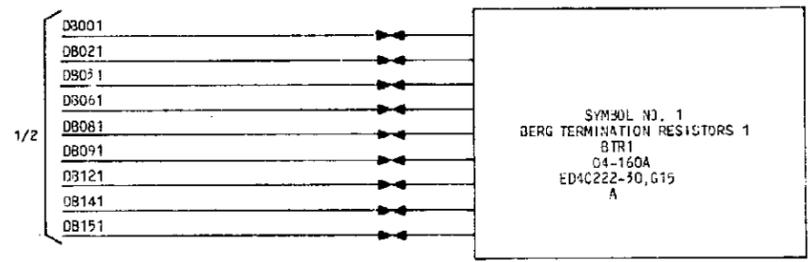
SYMBOL NO. 1 CONTROL AND DISPLAY							SYMBOL NO. 2 POWER CONVERTER							SYMBOL NO. 2 (CONT) POWER CONVERTER							SYMBOL NO. 2 (CONT) POWER CONVERTER							
DESIG	EQPT LOC	CODE	ELEM IDENT	OPT			DESIG	EQPT LOC	CODE	ELEM IDENT	OPT			DESIG	EQPT LOC	CODE	ELEM IDENT	OPT			DESIG	EQPT LOC	CODE	ELEM IDENT	OPT			
C&D	04-008	SN412	A				PWRCONV	04-036	495FB	A				PWRCONV	04-036	495FB	A				PWRCONV	04-036	495FB	A				
LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE	LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE	LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE	LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE	
NC	0	SC21	014				NC	PWR	VIN(-)	206					GRD	VOUT1(-)	337					GRD	VOUT1(-)	136				
	0	SC20	015					PWR	VIN(-)	207					GRD	VOUT1(-)	338					GRD	VOUT1(-)	137				
	0	SC2R	016					PWR	VIN(-)	208					GRD	VOUT1(-)	339					GRD	VOUT1(-)	138				
	0	SCX1	017					PWR	VOUT1(+)	245					GRD	VOUT1(-)	340					GRD	VOUT1(-)	139				
	0	SCX0	018					PWR	VOUT1(+)	246					GRD	VOUT1(-)	341					GRD	VOUT1(-)	140				
	0	SCXR	019					PWR	VOUT1(+)	247					GRD	VOUT1(-)	342					GRD	VOUT1(-)	141				
	0	TSTB	046					PWR	VOUT1(+)	248					GRD	VOUT1(-)	343					GRD	VOUT1(-)	142				
	0	TSTIN	049					PWR	VOUT1(+)	249					I	CP(+)	017		1/1			GRD	VOUT1(-)	143				
	0	SCZR	055					PWR	VOUT1(+)	250					PWR	VOUT1(+)	045		1/1			OUTSRVC1	I	DOS(-)	115		4/1	
	0	SCY1	118					PWR	VOUT1(+)	251					PWR	VOUT1(+)	046		1/1			OUTSRVC2	O	DOS(+)	015		4/1	
	0	SCY0	119					PWR	VOUT1(+)	252					PWR	VOUT1(+)	047		1/1			SHRTA	O	SC(+)	019			
	0	SCYR	120					PWR	VOUT1(+)	253					PWR	VOUT1(+)	048		1/1			I	SA(+)	018				
	0	TSTA	146					PWR	VOUT1(+)	254					PWR	VOUT1(+)	049		1/1			48FEDA	PWR	VIN(-)	006		4/1	
	0	SC23B	155					PWR	VOUT1(+)	255					PWR	VOUT1(+)	050		1/1				PWR	VIN(-)	007		4/1	
	I	OOS0	010					PWR	VOUT1(+)	256					PWR	VOUT1(+)	051		1/1				PWR	VIN(-)	008		4/1	
	I	OOS1	011					PWR	VIN(-)	306					PWR	VOUT1(+)	052		1/1				PWR	VIN(-)	106		4/1	
	I	ROIP0	021					PWR	VIN(-)	307					PWR	VOUT1(+)	053		1/1				PWR	VIN(-)	107		4/1	
	I	ROIP0	022					PWR	VIN(-)	308					PWR	VOUT1(+)	054		1/1				PWR	VIN(-)	108		4/1	
	I	FAS	045					PWR	VOUT1(+)	345					PWR	VOUT1(+)	055		1/1				GRD	VIN(+)	003		TO FUSE PANEL	
	I	OOSR	112					PWR	VOUT1(+)	346					PWR	VOUT1(+)	056		1/1				GRD	VIN(+)	004		TO FUSE PANEL	
	I	INH	114					PWR	VOUT1(+)	347					PWR	SB(+)	118		1/1				GRD	VIN(+)	005		TO FUSE PANEL	
	I	FAS	121		4/2			PWR	VOUT1(+)	348					PWR	VOUT1(+)	145		1/1				GRD	VIN(+)	102			
ALRMA	I	AD	117		TO FUSE PANEL			PWR	VOUT1(+)	349					PWR	VOUT1(+)	146		1/1				GRD	VIN(+)	103			
	I	AD	117		4/2			PWR	VOUT1(+)	350					PWR	VOUT1(+)	147		1/1				GRD	VIN(+)	104			
ALRMB	OT	CARD	123		4/2			PWR	VOUT1(+)	351					PWR	VOUT1(+)	148		1/1									
	I	PINT	048		4/1			PWR	VOUT1(+)	352					PWR	VOUT1(+)	149		1/1									
CDS1	0	S1	124		4/2			PWR	VOUT1(+)	353					PWR	VOUT1(+)	150		1/1									
CDS2	0	S2	122		4/2			PWR	VOUT1(+)	354					PWR	VOUT1(+)	151		1/1									
CDS3	0	S3	009		4/2			PWR	VOUT1(+)	355					PWR	VOUT1(+)	152		1/1									
OOSR	I	OOSR	051		TO 3B IOP UNIT	P/OOSR		PWR	VOUT1(+)	356					PWR	VOUT1(+)	153		1/1									
OOS3B	I	OOS3B	151		TO 3B IOP UNIT	P/OOSR		I	RS4	010					PWR	VOUT1(+)	154		1/1									
	I	OOS3B	151		TO 3B IOP UNIT	P/OOSR		I	INT	012					PWR	VOUT1(+)	155		1/1									
	I	OOS3B	151		TO 3B IOP UNIT	P/OOSR		I	INT	112					PWR	VOUT1(+)	156		1/1									
OUTSRVC1	0	OOS48P	109		4/2			GRD	FRGRD	200					I	CP(-)	117		1/1									
OUTSRVC2	I	OOSCONV	111		4/2			GRD	FRGRD	201					I	ALM2	014		4/1									
ROIP3B	I	ROIP3B	152		TO 3B IOP UNIT	P/ROIP3B		GRD	VIN(+)	203					OT	ALM1	113		4/1									
	I	ROIP3B	152		TO 3B IOP UNIT	P/ROIP3B		GRD	VIN(+)	204																		
SCXR	0	SCXR	054		TO 3B IOP UNIT	P/SCXR		GRD	VIN(+)	205																		
SCX3B	0	SCX3B	154		TO 3B IOP UNIT	P/SCXR		GRD	VOUT1(-)	232																		
	0	SCYR	053		TO 3B IOP UNIT	P/SCY3B		GRD	VOUT1(-)	233																		
SCY3B	0	SCY3B	153		TO 3B IOP UNIT	P/SCYR		GRD	VOUT1(-)	234																		
48FFDA	PWR	-48	006		4/2			GRD	VOUT1(-)	235																		
	PWR	-48	007		4/1			GRD	VOUT1(-)	236																		
	PWR	-48	008		4/1			GRD	VOUT1(-)	237																		
	PWR	-48	106		4/1			GRD	VOUT1(-)	238																		
	PWR	-48	107		4/1			GRD	VOUT1(-)	239																		
48GRDA	PWR	-48	108		4/1			GRD	VOUT1(-)	240																		
	I	ZRTN	149					GRD	VOUT1(-)	241																		
	GRD	-48RTN	003					GRD	VOUT1(-)	242																		
	GRD	-48RTN	004					GRD	VOUT1(-)	243																		
	GRD	-48RTN	102					GRD	FRGRD	300																		
	GRD	-48RTN	103					GRD	VOUT1(-)	301																		
	GRD	-48RTN	104					GRD	VIN(+)	302																		
	GRD	-48RTN	104					GRD	VIN(+)	303																		
	GRD	-48RTN	104					GRD	VIN(+)	304																		
	GRD	-48RTN	104					GRD	VOUT1(-)	332																		
	GRD	-48RTN	104					GRD	VOUT1(-)	333																		
	GRD	-48RTN	104					GRD	VOUT1(-)	334																		
	GRD	-48RTN	104					GRD	VOUT1(-)	335																		
	GRD	-48RTN	104					GRD	VOUT1(-)	336																		

PART OF FS 4
SYMBOL(S) 1 2

SEE PROPRIETARY NOTICE ON COVER SHEET

MESSAGE SWITCH CONTROL UNIT		ONE SIZE	ISSUE
		Q	5A
AT&T BELL LABORATORIES			

FS 5
 BUS TERMINATION RESISTORS
 (INTERCONNECTION & FLOW DIAGRAM)



MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		65	3D
BELL LABORATORIES	SD-5D026-01	B#5AA	

0 1 2 3 4 5 6 7 8 9

A
B
C
D
E
F
G
H

APP FIG. 1
WIRING AS PER FS 1 - 4.

A
B
C
D
E
F
G
H

MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		65	1
BELL LABORATORIES	SD-5D026-01	C#1	

0 1 2 3 4 5 6 7 8 9

APP FIG. 2

CIRCUIT PACK

EOPT LOC	DESIG	CODE	OPTION	ELEM IDENT	CKT	EOPT LOC	DESIG	CODE	OPTION	ELEM IDENT	CKT	EOPT LOC	DESIG	CODE	OPTION	ELEM IDENT	CKT																														
04-008	C&D	SN412			A	04-072	IQM1-A	UN25B			3/1	04-104	PTC	TN61B			1/3	04-120	MCS-A	MC5D011A1			2/1	04-136	MCS-B	MC5D011B1			2/2	04-160	BLC	TN70B			1/2	04-176	DDSB	TN69B			1/1	EOPT LOC	DESIG	CODE	OPTION	ELEM IDENT	CKT

BTR

OPTION	DESIG	FS/SYM	CODE
BTR1		5/1	ED4C222-30,G15
BTR2		5/2	ED4C222-30,G16

CONVERTER

OPTION	DESIG	FS/SYM	CODE
PWRCONV		4/2	495FB

APP FIG. 3

CIRCUIT PACK

EOPT LOC	DESIG	CODE	OPTION	ELEM IDENT	CKT	EOPT LOC	DESIG	CODE	OPTION	ELEM IDENT	CKT
04-086	IQM1-B	UN25B			A						3/2

SEE PROPRIETARY NOTICE ON COVER SHEET

		ISSUE 5A
MESSAGE SWITCH CONTROL UNIT		SD-5D026-01-C#2
AT&T BELL LABORATORIES	DWG SIZE CZ	

CIRCUIT NOTES:

DESIG	FUSE AMP	POTENTIAL	ONE PER
495FB	5	-48	UNIT
BATTERY SYMBOL		VOLTAGE RANGE	
-48V		-47.75 TO -52.5	

102. (REFER TO NOTE 201).

103. EQUIPMENT LOCATIONS 04-048 AND 04-152 ARE WIRED FOR TEST CIRCUIT PACKS WHICH ARE USED IN BTL LAB APPLICATIONS ONLY.

EQUIPMENT NOTES:

- 201. UNLESS OTHERWISE SPECIFIED, ALL BACKPLANE WIRING WILL BE AUTOMATIC MACHINE WIRED (A-04) 30 GAUGE, WHICH HAS BEEN PROCESSED BY THE WESHWRAP PROGRAMS.
- 202. ALL PRINTED WIRE CONNECTIONS ARE SPECIFIED BY ED-90015.
- 203. MSCU CABLING INFORMATION FOR CONNECTION TO THE MESSAGE SWITCH PERIPHERAL UNIT IS SHOWN IN SD-90116-01 OR SD-90146-01.
- 204. THE MSCU EQUIPMENT LAYOUT IS SHOWN BELOW.

MESSAGE SWITCH CONTROL UNIT

SN412	495FB	UN25B	UN25B	TN61B	TN84	TN84	TN70B	TN69B
MSCU CD	MSCU COM	IOMI-A	IOMI-B	PIC	HCS-A	HCS-B	BIC	DOS8S
5.6W 10.7W		5.85W 6.95W	5.85W 6.95W	12.3W 15.78W	22W 24.64W	22W 24.64W	9.9W 10.64W	17.9W 19.6W
008	036	072	086	104	120	136	160	176

NOTE: UPPER PWR FIGURE= TYPICAL
LOWER PWR FIGURE= BUSY HOUR

SEE PROPRIETARY NOTICE ON COVER SHEET

MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		65	5A
AT&T BELL LABORATORIES	SD-5D026-01	DI	

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS,
CAPACITANCE VALUES ARE IN MICROFARADS,
VALUES PRECEDED BY THE SYMBOL + (PLUS)
OR - (MINUS) ARE IN VOLTS.

302.

FEATURE OR OPTION	PROVIDE	
	APP FIG.	AP- OR WRG
BASIC UNIT UP TO 4 MSPU COMMUNITIES	1,2	
FOR UP TO 6 MSPU COMMUNITIES	2,3	

303.

RECORD OF APP FIGURES, WIRING AND APPARATUS CHANGES						
CHANGES ON ISSUE	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS PURG.	SEE NOTE	USE IN CIRCUIT		
				STD	A&M	MD

INFORMATION NOTES: (CONT)

304.

CIRCUIT PACK CODE OR MICROCODE	COMMON LANGUAGE EQUIPMENT IDENTIFICATION CODE (CLEI)
MC50011A1 (TN84)	E5M0011AXX
MC50011B1 (TN84)	E5M011BAXX
SN412	E5P006CAXX
TH61B	SP3005CAXX
TN69B	SP3005ZAXX
TN70B	SP3006JAXX
UN25B	SP3007AXX
495FB	PWP054EAXX

305. THE MSCU/OSCH CABLES (CADS 006, 007) ARE LESS THAN 50 FEET LONG ALLOWING THE MSCU TO COMMUNICATE TO THE 3B AT A 10 MHZ SERIAL DATA RATE. THIS IS SPECIFIED IN BOTH THE MSCU AND OSCH BY BACKPLANE OPTIONS. THE MSCU IS WIRED AT THE 10 MHZ DATA RATE PER APP FIGURE 1 BY STRAPPING (20MHZ0) TO (SPEED1).

306. THE MSCU IS INTERFACED TO THE 3B VIA THE DDSBS AND OSCH. THE 3B'S OSCH CAN DRIVE 16 PERIPHERAL DEVICES. WHEN READING PERIPHERAL STATUS, EACH DEVICE IDENTIFIES ITS CHANNEL NUMBER BY GATING A 4-BIT ID CODE ONTO DATA BITS 3-0. THE UNIT ID CODE IS SPECIFIED VIA BACKPLANE WIRING OF THE NETS MYADD(1-0)1. BECAUSE ALL 4 SIGNALS ARE PULLED UP ON THE BIC CIRCUIT PACK, SET ID CODE BITS ARE SPECIFIED BY LEAVING THE ASSOCIATED MYADD BIT UNCONNECTED. TO SPECIFY A ZERO ID CODE BIT, THE ASSOCIATED MYADD BIT IS WIRED TO GROUND. STRAIGHT BINARY CODING IS USED TO MAP ID CODES. TABLE 1 SPECIFIES THE WIRING REQUIRED FOR DIFFERENT ID CODES. THE MSCU IS WIRED AS CHANNEL 11 PER APP FIGURE 1.

TABLE 1

CHANNELS	MYADD															
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MYADD31	G	G	G	G	G	G	G	G	NC	NC	NC	NC	NC	NC	NC	NC
MYADD21	G	G	G	G	NC	NC	NC	NC	G	G	G	G	NC	NC	NC	NC
MYADD11	G	G	NC	NC	G	G	NC	NC	G	G	NC	NC	G	G	NC	NC
MYADD01	G	NC	G	NC	G	NC	G	NC	G	NC	G	NC	G	NC	G	NC

↑↑↑↑↑
MSCU

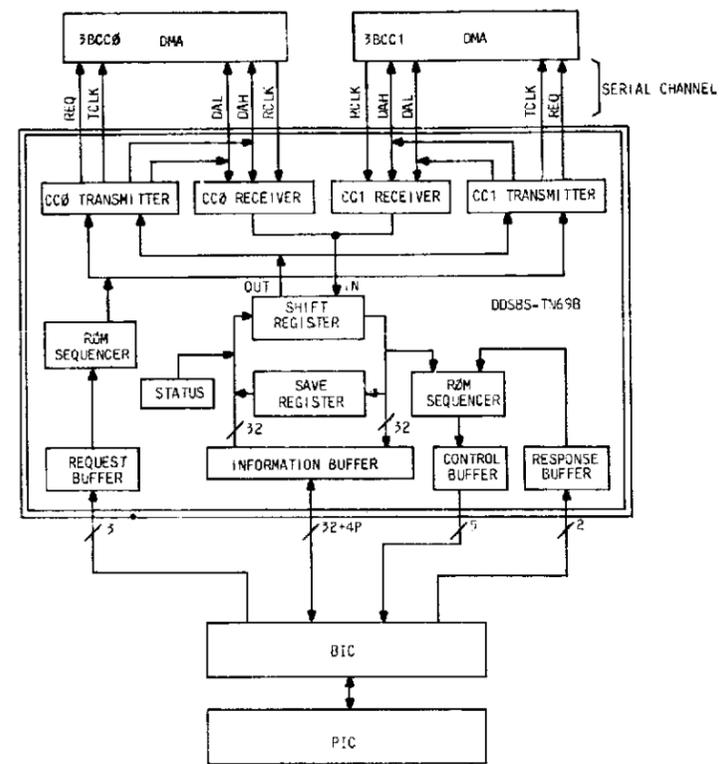
307. COMMON GROUNDS ARE:

- GRD1E04
- GRD036
- GRD048
- GRD(068-072)
- GRD(078-086)
- GRD(092-095)
- GRD104
- GRD120
- GRD136
- GRD152
- GRD150
- GRD(174-176)

308. THIS GROUND TERMINAL WILL BE PAIRED WITH 2 OR MORE SIGNAL LEADS. THE CABLE GROUND PAIRS WILL BE TERMINATED AT THE BERG AND CONNECTED TO THE TERMINAL VIA PRINTED WIRING ON THE BERG.

INFORMATION NOTES: (CONT)

310. UNIT COMPOSITE DIAGRAM 1.



NOTES:

1. THE DUPLEX DUAL SERIAL B.S. SELECTOR (DDSBS) SERVES TO INTERFACE THE MSCU WITH THE 3BCC. TWO PORTS ARE INCLUDED IN THE DDSBS TO PROVIDE DUPLEX ACCESS TO THE DMA UNIT.

SIGNALING BETWEEN THE 3BCC AND MSCU IS COMPATIBLE WITH EIA STANDARD RS422. EACH DDSBS INTERFACES WITH THE DMA UNIT VIA TWO BIDIRECTIONAL DATA LEADS, A TRANSMIT CLOCK, A RECEIVE CLOCK, AND REQUEST LEAD. THE MSCU BACKPLANE IS WIRED FOR A 10MHZ DATA RATE FOR CHANNEL 11 OF THE DMA.

THE DDSBS RECEIVES AND DECODES THE INCOMING SERIAL MESSAGE AND CONVERTS IT INTO A PARALLEL FORMAT. IT SETS THE APPROPRIATE CONTROL LEADS TO THE BIC AND WAITS FOR A RESPONSE. THE DDSBS TRANSFERS THE DATA TO THE BIC. THE BIC CAN INITIATE A TRANSFER, SETUP OR INTERRUPT VIA THREE REQUEST LEADS.

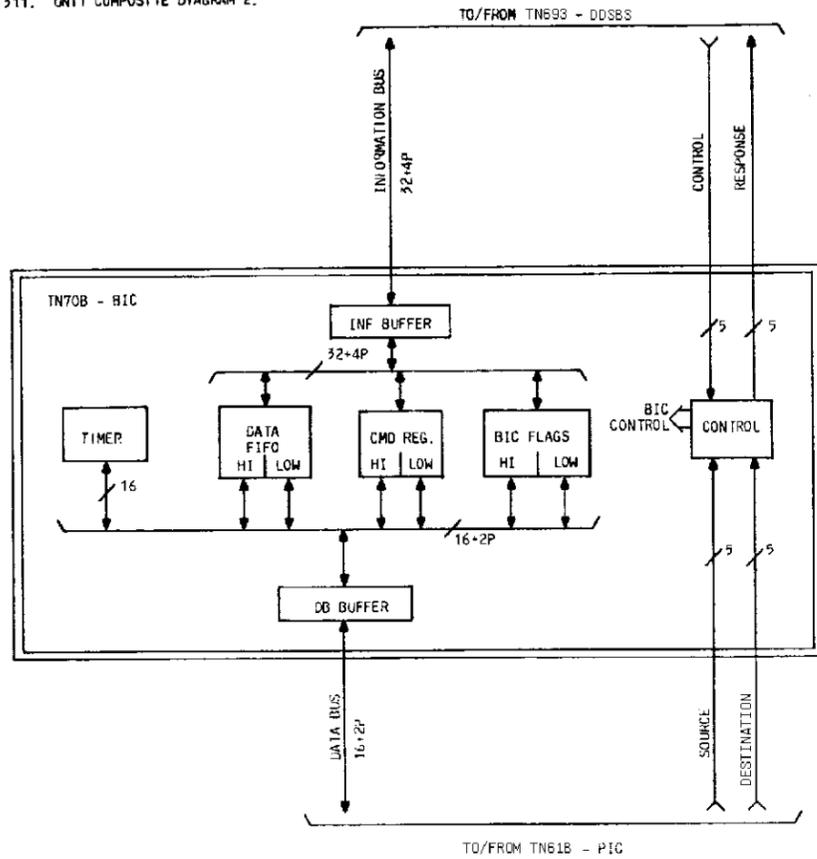
THE DDSBS STATUS AND SAVE REGISTER ARE USED FOR DIAGNOSTICS DURING THE MAINTENANCE MODE.

SEE PROPRIETARY NOTICE ON COVER SHEET

MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		65	5A
AT&T BELL LABORATORIES		SD-5D026-01	D#1

INFORMATION NOTES: (CONT)

311. UNIT COMPOSITE DIAGRAM 2.



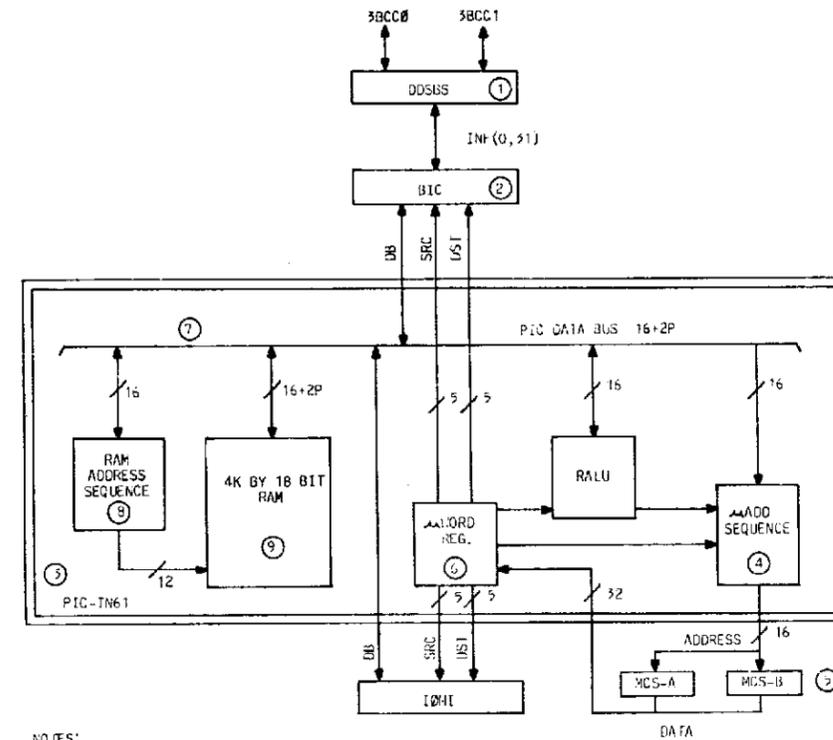
NOTES:

1. THE BIC CONSISTS OF A 16 BIT SANITY AND INTERVAL TIMER THAT MONITORS SANITY ERRORS AND JOB COMPLETION REPORTS. THE 16 WORD BY 32+4P BIT DATA FIFO HOLDS ONE BLOCK OF INFORMATION DESTINED FOR THE PIC OR 3B. THE DATA FIFO CAN BE ACCESSED BY EITHER THE PIC OR DDSBS. THE 32 BIT COMMAND REGISTER RECORDS COMMANDS FROM THE 3B DESTINED FOR THE PIC. THE 32 BIT STATUS AND ERROR FLAG REGISTER REQUESTS INTERRUPTS AND DMA SERVICE FROM THE 3B; ALERTS THE PIC TO THE PRESENCE OF A 3B COMMAND PENDING OR DATA TRANSFER REQUESTS; AND RECORDS ERROR CONDITIONS.

INFORMATION IS TRANSFERRED BETWEEN THE DDSBS AND THE BIC OVER A 32+4P INF BUS. THE CONTROL LEADS FROM THE DDSBS TELL THE BIC WHAT TYPE OF INFORMATION IS ON THE INF BUS. THE REGISTERS ON THE BIC ARE READ OR WRITTEN BY THE DDSBS. 32 BITS AT A TIME. THE BIC REGISTERS ARE READ OR WRITTEN BY THE PIC 16 BITS AT A TIME. FOR THE HI AND LOW BITS OF THE DATA FIFO, COMMAND REGISTER AND BIC FLAGS.

INFORMATION NOTES: (CONT)

312. UNIT COMPOSITE DIAGRAM 3.



NOTES:

THIS IS A DIAGRAM OF THE PERIPHERAL INTERFACE CONTROLLER (PIC) WITH ITS ASSOCIATED UNIT HARDWARE. THE MICRO CONTROL STORE (MCS) CONSISTS OF TWO TN84 CIRCUIT PACKS CONTAINING AN 8K BY 48-BIT PROGRAM STORE AND PIC CLOCK CIRCUITRY. CIRCLED NUMBERS IN THE DIAGRAM RELATE TO THE FOLLOWING SERIES OF OPERATIONS:

1. A COMMAND DESTINED FOR THE PIC COMES FROM THE 3B PROCESSOR IN SERIAL FORMAT TO THE DDSBS.
2. THE DDSBS CONVERTS THIS COMMAND TO PARALLEL FORMAT AND STORES IT IN THE BIC COMMAND REGISTER.
3. THE PIC IS INTERRUPTED BY THE BIC SO THAT THE COMMAND CAN BE PROCESSED.
4. THE MICROADDRESS SEQUENCER VECTORS FROM BASE LEVEL LOOP TO A CERTAIN MCS ADDRESS.
5. THE MICROADDRESS TO THE MCS IS 16 BITS. EACH MICROINSTRUCTION BETWEEN THE MCS AND PIC IS 32 BITS WIDE.
6. THE MICROWORD REGISTER CONTAINS ALL OF THE CONTROL INFORMATION REQUIRED TO EXECUTE A SINGLE MICROINSTRUCTION.
7. COMMUNICATION BETWEEN THE PIC, BIC AND ICMI'S TAKE PLACE ON PIC DATA BUS. THE FLOW OF INFORMATION ON THE DATA BUS IS CONTROLLED THROUGH THE PIC SOURCE AND DESTINATION ADDRESSES CONTAINED IN THE MICROWORD REGISTER.
8. FOR EXAMPLE IF PIC RAM IS THE DESTINATION OF THE INFORMATION A 16 BIT ADDRESS IS SENT TO THE RAM ADDRESS SEQUENCER.
9. THE RAM ADDRESS SEQUENCER INTERPRETS THE ADDRESS AND SENDS A 12 BIT ADDRESS TO THE RAM. IF THE RAM IS THE DESTINATION A 16-2P BIT WORD IS WRITTEN INTO THE RAM.

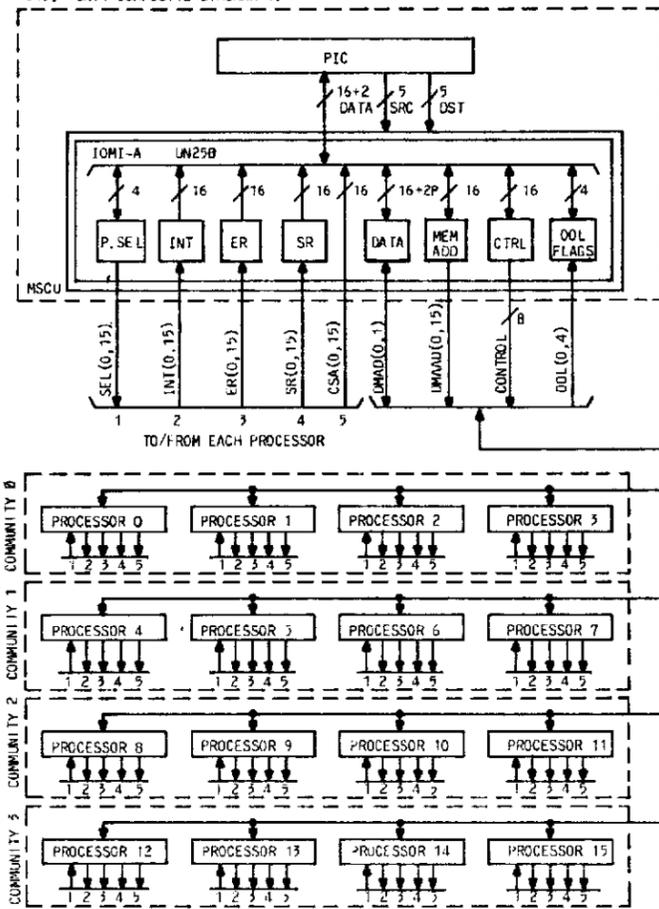
MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		65	2A
BELL LABORATORIES	SD-5D026-01	D#2	

A
B
C
D
E
F
G
H

A
B
C
D
E
F
G
H

INFORMATION NOTES: (CONT)

315. UNIT COMPOSITE DIAGRAM 4.



NOTES:

1. THE INPUT/OUTPUT MICROPROCESSOR INTERFACE (IOMI) CIRCUIT PACK SERVES AS THE INTERFACE BETWEEN THE PIC AND PERIPHERAL PROCESSORS. EACH IOMI WITHIN THE MSCU CAN INTERFACE UP TO FOUR COMMUNITIES OF FOUR PROCESSORS EACH.

ALL SIGNALS ARE AT TTL LEVELS PAIRED WITH GROUND. EACH COMMUNITY CONSISTS OF A 16 BIT DIRECT MEMORY ADDRESS, AN 8+1 PARITY BIT BIDIRECTIONAL DATA BUS, 8 CONTROL SIGNALS, AND 1 OUT OF LEVEL SIGNAL. EACH PROCESSOR HAS AN INDIVIDUAL SERVICE, INTERRUPT, ERROR, SERVICE REQUEST, AND CONTROL SIGNAL ACKNOWLEDGE LEAD.

TWO UN25 CIRCUIT PACKS CAN BE EQUIPPED IN THE MSCU TO PROVIDE A TOTAL OF 32 PROCESSOR INTERFACES. PIC SELECTION OF IOMI-A OR IOMI-B IS ACCOMPLISHED THROUGH THE DATA BUS BITS 0 AND 1.

THE IOMI IS UNDER PIC CONTROL.

SEE PROPRIETARY NOTICE ON COVER SHEET

MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		6S	4AC
AT&T BELL LABORATORIES	SD-50026-01	D#3	

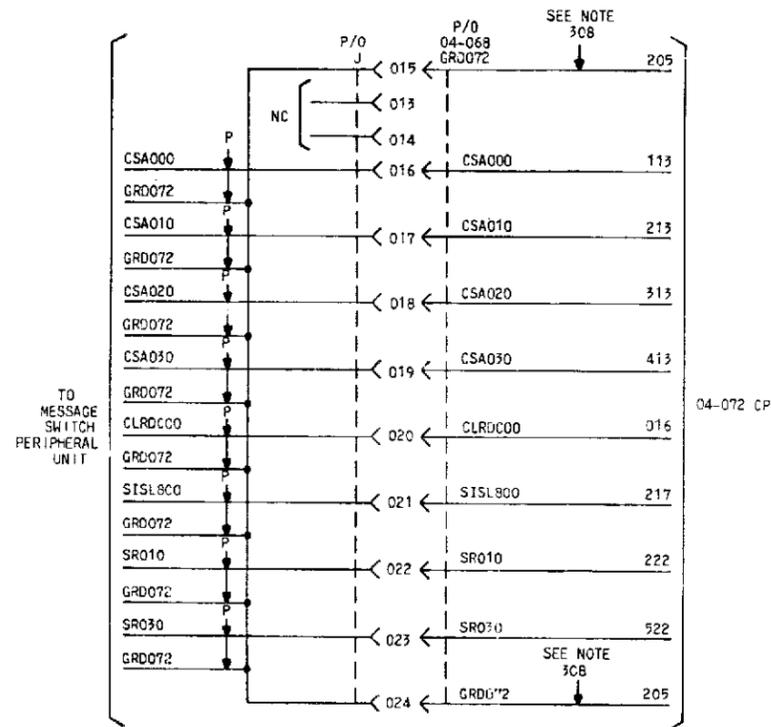
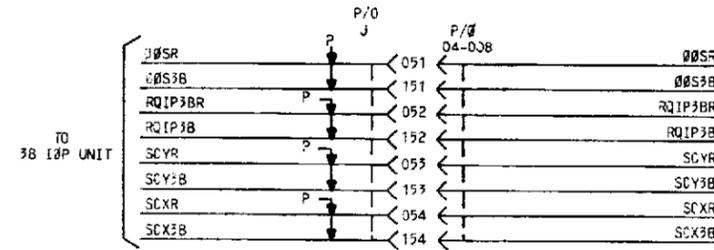
NOTES:

1. THE FOLLOWING SHOWS THE SYMBOLIC EQUIVALENT OF THE TABULAR PRESENTATION.

TO CONNECTION				FROM CONNECTION					
DESTINATION	LEAD DESIG	WIRE METHOD	SYM	TERMINAL	LEAD DESIG	TO TERMINATION	TERMINAL	OPT	NOTE
.....J				04-068	TF	.....		
TO MESSAGE SWITCH PERIPHERAL UNIT	NC			013					
	NC			014					
	GRD072	PA		015	GRD072	C4-072	CP	205	308
	CSA000	PA00		016	CSA000	C4-072	CP	113	
	CSA010	PA01		017	CSA010	C4-072	CP	213	
	CSA020	PA02		018	CSA020	C4-072	CP	313	
	CSA030	PA03		019	CSA030	C4-072	CP	413	
	CLR000	PA04		020	CLR000	C4-072	CP	016	
	SISL800	PA05		021	SISL800	C4-072	CP	217	
	SR010	PA06		022	SR010	C4-072	CP	222	
	SR030	PA07		023	SR030	C4-072	CP	522	
	GRD072	PA		024	GRD072	C4-072	CP	205	308

NOTES: (CONT)

2. (CONT)



2. THE FOLLOWING SHOWS THE SYMBOLIC EQUIVALENT OF THE TABULAR PRESENTATION.

TO CONNECTION				FROM CONNECTION					
DESTINATION	LEAD DESIG	WIRE METHOD	SYM	TERMINAL	LEAD DESIG	TO TERMINATION	TERMINAL	OPT	NOTE
.....J				04-008	JACK/CP	.....		
TO 3B IOP UNIT	00SR	P000		051	00SR				
	RQIP3BR	P001		052	RQIP3BR				
	SCYR	P002		053	SCYR				
	SCXR	P003		054	SCXR				
	00S3B	P000		151	00S3B				
	RQIP3B	P001		152	RQIP3B				
	SCY3B	P002		153	SCY3B				
	SCX3B	P003		154	SCX3B				

MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		65	30
BELL LABORATORIES	SD-50026-01	GBI	

CAD 1

UNIT SYMBOL

ELEMENT IDENTIFIER

A

PROCESSOR

TERM. MODIFIER	FUNC	ACCESS TERM.	FS TERM.	LOC FS/SYM	NOTE
CINT00	0	04-069-020	04-072-118	3/1	P/GRD072
CINT10	0	04-071-020	04-072-518	3/1	P/GRD072
CINT20	0	04-079-020	04-072-418	3/1	P/GRD072
CINT30	0	04-081-020	04-072-518	3/1	P/GRD072
CINT40	0	04-083-020	04-086-118	3/2	P/GRD086
CINT50	0	04-085-020	04-086-318	3/2	P/GRD086
CINT60	0	04-093-020	04-086-418	3/2	P/GRD086
CINT70	0	04-095-020	04-086-518	3/2	P/GRD086
CLRPC00	0	04-068-020	04-072-016	3/1	P/GRD072
CLRPC10	0	04-070-020	04-072-116	3/1	P/GRD072
CLRPC20	0	04-078-020	04-072-216	3/1	P/GRD072
CLRPC30	0	04-082-020	04-072-316	3/1	P/GRD072
CLRPC40	0	04-082-020	04-086-016	3/2	P/GRD086
CLRPC50	0	04-084-020	04-086-116	3/2	P/GRD086
CLRPC60	0	04-086-020	04-086-216	3/2	P/GRD086
CLRPC70	0	04-094-020	04-086-316	3/2	P/GRD086
CSA000	I	04-068-016	04-072-113	3/1	P/GRD072
CSA010	I	04-068-017	04-072-213	3/1	P/GRD072
CSA020	I	04-068-018	04-072-313	3/1	P/GRD072
CSA030	I	04-068-019	04-072-413	3/1	P/GRD072
CSA100	I	04-070-016	04-072-513	3/1	P/GRD072
CSA110	I	04-070-017	04-072-014	3/1	P/GRD072
CSA120	I	04-070-018	04-072-114	3/1	P/GRD072
CSA130	I	04-070-019	04-072-214	3/1	P/GRD072
CSA200	I	04-078-016	04-072-414	3/1	P/GRD072
CSA210	I	04-078-017	04-072-514	3/1	P/GRD072
CSA220	I	04-078-018	04-072-015	3/1	P/GRD072
CSA230	I	04-078-019	04-072-115	3/1	P/GRD072
CSA300	I	04-080-016	04-072-215	3/1	P/GRD072
CSA310	I	04-080-017	04-072-315	3/1	P/GRD072
CSA320	I	04-080-018	04-072-415	3/1	P/GRD072
CSA330	I	04-080-019	04-072-515	3/1	P/GRD072
CSA400	I	04-082-016	04-086-113	3/2	P/GRD086
CSA410	I	04-082-017	04-086-213	3/2	P/GRD086
CSA420	I	04-082-018	04-086-313	3/2	P/GRD086
CSA430	I	04-082-019	04-086-413	3/2	P/GRD086
CSA500	I	04-084-016	04-086-513	3/2	P/GRD086
CSA510	I	04-084-017	04-086-014	3/2	P/GRD086
CSA520	I	04-084-018	04-086-114	3/2	P/GRD086
CSA530	I	04-084-019	04-086-214	3/2	P/GRD086
CSA600	I	04-092-016	04-086-314	3/2	P/GRD086
CSA610	I	04-092-017	04-086-414	3/2	P/GRD086
CSA620	I	04-092-018	04-086-514	3/2	P/GRD086
CSA630	I	04-092-019	04-086-015	3/2	P/GRD086
CSA700	I	04-094-016	04-086-115	3/2	P/GRD086
CSA710	I	04-094-017	04-086-215	3/2	P/GRD086
CSA720	I	04-094-018	04-086-315	3/2	P/GRD086
CSA730	I	04-094-019	04-086-415	3/2	P/GRD086
DMAD001	D	04-069-048	04-072-145	3/1	P/GRD072
DMAD011	D	04-068-048	04-072-545	3/1	P/GRD072
DMAD021	D	04-069-049	04-072-346	3/1	P/GRD072
DMAD031	D	04-068-049	04-072-147	3/1	P/GRD072
DMAD041	D	04-069-050	04-072-148	3/1	P/GRD072
DMAD051	D	04-068-050	04-072-548	3/1	P/GRD072
DMAD061	D	04-069-051	04-072-349	3/1	P/GRD072
DMAD071	D	04-068-051	04-072-150	3/1	P/GRD072
DMAD081	D	04-069-052	04-072-551	3/1	P/GRD072
DMAD101	D	04-071-048	04-072-245	3/1	P/GRD072
DMAD111	D	04-070-048	04-072-046	3/1	P/GRD072
DMAD121	D	04-071-049	04-072-446	3/1	P/GRD072
DMAD131	D	04-070-049	04-072-447	3/1	P/GRD072
DMAD141	D	04-071-050	04-072-248	3/1	P/GRD072
DMAD151	D	04-070-050	04-072-049	3/1	P/GRD072
DMAD161	D	04-071-051	04-072-449	3/1	P/GRD072
DMAD171	D	04-070-051	04-072-250	3/1	P/GRD072
DMAD181	D	04-071-052	04-072-451	3/1	P/GRD072

ELEMENT IDENTIFIER (CONT)

A

PROCESSOR

TERM. MODIFIER	FUNC	ACCESS TERM.	FS TERM.	LOC FS/SYM	NOTE
DMAD201	D	04-079-048	04-072-345	3/1	P/GRD072
DMAD211	D	04-078-048	04-072-146	3/1	P/GRD072
DMAD221	D	04-079-049	04-072-546	3/1	P/GRD072
DMAD231	D	04-078-049	04-072-547	3/1	P/GRD072
DMAD241	D	04-079-050	04-072-348	3/1	P/GRD072
DMAD251	D	04-078-050	04-072-149	3/1	P/GRD072
DMAD261	D	04-079-051	04-072-549	3/1	P/GRD072
DMAD271	D	04-078-051	04-072-450	3/1	P/GRD072
DMAD281	D	04-079-052	04-072-151	3/1	P/GRD072
DMAD301	D	04-081-048	04-072-445	3/1	P/GRD072
DMAD311	D	04-080-048	04-072-246	3/1	P/GRD072
DMAD321	D	04-081-049	04-072-047	3/1	P/GRD072
DMAD331	D	04-080-049	04-072-048	3/1	P/GRD072
DMAD341	D	04-081-050	04-072-448	3/1	P/GRD072
DMAD351	D	04-080-050	04-072-249	3/1	P/GRD072
DMAD361	D	04-081-051	04-072-050	3/1	P/GRD072
DMAD371	D	04-080-051	04-072-550	3/1	P/GRD072
DMAD381	D	04-081-052	04-072-051	3/1	P/GRD072
DMAD401	D	04-085-048	04-086-145	3/2	P/GRD086
DMAD411	D	04-082-048	04-086-545	3/2	P/GRD086
DMAD421	D	04-083-049	04-086-346	3/2	P/GRD086
DMAD431	D	04-082-049	04-086-147	3/2	P/GRD086
DMAD441	D	04-083-050	04-086-548	3/2	P/GRD086
DMAD451	D	04-082-050	04-086-348	3/2	P/GRD086
DMAD461	D	04-083-051	04-086-149	3/2	P/GRD086
DMAD471	D	04-082-051	04-086-550	3/2	P/GRD086
DMAD481	D	04-083-052	04-086-351	3/2	P/GRD086
DMAD501	D	04-085-048	04-086-245	3/2	P/GRD086
DMAD511	D	04-084-048	04-086-046	3/2	P/GRD086
DMAD521	D	04-085-049	04-086-446	3/2	P/GRD086
DMAD531	D	04-084-049	04-086-247	3/2	P/GRD086
DMAD541	D	04-085-050	04-086-648	3/2	P/GRD086
DMAD551	D	04-084-050	04-086-049	3/2	P/GRD086
DMAD561	D	04-085-051	04-086-449	3/2	P/GRD086
DMAD571	D	04-084-051	04-086-250	3/2	P/GRD086
DMAD581	D	04-085-052	04-086-651	3/2	P/GRD086
DMAD601	D	04-093-048	04-086-345	3/2	P/GRD086
DMAD611	D	04-092-048	04-086-146	3/2	P/GRD086
DMAD621	D	04-093-049	04-086-546	3/2	P/GRD086
DMAD631	D	04-092-049	04-086-347	3/2	P/GRD086
DMAD641	D	04-093-050	04-086-148	3/2	P/GRD086
DMAD651	D	04-092-050	04-086-549	3/2	P/GRD086
DMAD661	D	04-093-051	04-086-349	3/2	P/GRD086
DMAD671	D	04-092-051	04-086-150	3/2	P/GRD086
DMAD681	D	04-093-052	04-086-551	3/2	P/GRD086
DMAD701	D	04-095-048	04-086-445	3/2	P/GRD086
DMAD711	D	04-094-048	04-086-246	3/2	P/GRD086
DMAD721	D	04-095-049	04-086-647	3/2	P/GRD086
DMAD731	D	04-094-049	04-086-048	3/2	P/GRD086
DMAD741	D	04-095-050	04-086-448	3/2	P/GRD086
DMAD751	D	04-094-050	04-086-249	3/2	P/GRD086
DMAD761	D	04-095-051	04-086-650	3/2	P/GRD086
DMAD771	D	04-094-051	04-086-450	3/2	P/GRD086
DMAD781	D	04-095-052	04-086-851	3/2	P/GRD086
DMAD800	D	04-069-018	04-072-420	3/1	P/GRD072
DMAD810	D	04-071-018	04-072-520	3/1	P/GRD072
DMAD820	D	04-079-018	04-072-021	3/1	P/GRD072
DMAD830	D	04-081-018	04-072-121	3/1	P/GRD072
DMAD840	D	04-083-018	04-086-420	3/2	P/GRD086
DMAD850	D	04-085-018	04-086-620	3/2	P/GRD086
DMAD860	D	04-093-018	04-086-021	3/2	P/GRD086
DMAD870	D	04-095-018	04-086-421	3/2	P/GRD086
DMAD880	D	04-069-017	04-072-020	3/1	P/GRD072
DMARD10	D	04-071-017	04-072-120	3/1	P/GRD072
DMARD20	D	04-079-017	04-072-220	3/1	P/GRD072
DMARD30	D	04-081-017	04-072-320	3/1	P/GRD072

ELEMENT IDENTIFIER (CONT)

A

PROCESSOR

TERM. MODIFIER	FUNC	ACCESS TERM.	FS TERM.	LOC FS/SYM	NOTE
DMARD40	D	04-083-017	04-086-020	3/2	P/GRD086
DMARD50	D	04-085-017	04-086-120	3/2	P/GRD086
DMARD60	D	04-093-017	04-086-220	3/2	P/GRD086
DMARD70	D	04-095-017	04-086-320	3/2	P/GRD086
DMARD80	D	04-069-019	04-072-321	3/1	P/GRD072
DMARD90	D	04-071-019	04-072-421	3/1	P/GRD072
DMARD100	D	04-079-019	04-072-521	3/1	P/GRD072
DMARD110	D	04-081-019	04-072-022	3/1	P/GRD072
DMARD120	D	04-083-019	04-086-321	3/2	P/GRD086
DMARD130	D	04-085-019	04-086-421	3/2	P/GRD086
DMARD140	D	04-093-019	04-086-521	3/2	P/GRD086
DMARD150	D	04-069-016	04-072-019	3/1	P/GRD072
DMARD160	D	04-071-016	04-072-219	3/1	P/GRD072
DMARD170	D	04-079-016	04-072-319	3/1	P/GRD072
DMARD180	D	04-081-016	04-072-519	3/1	P/GRD072
DMARD190	D	04-083-016	04-086-019	3/2	P/GRD086
DMARD200	D	04-085-016	04-086-219	3/2	P/GRD086
DMARD210	D	04-093-016	04-086-319	3/2	P/GRD086
DMARD220	D	04-095-016	04-086-419	3/2	P/GRD086
DMARD230	D	04-069-035	04-072-033	3/1	P/GRD072
DMARD240	D	04-068-035	04-072-433	3/1	P/GRD072
DMARD250	D	04-069-036	04-072-234	3/1	P/GRD072
DMARD260	D	04-068-036	04-072-035	3/1	P/GRD072
DMARD270	D	04-069-037	04-072-535	3/1	P/GRD072
DMARD280	D	04-068-037	04-072-336	3/1	P/GRD072
DMARD290	D	04-069-038	04-072-137	3/1	P/GRD072
DMARD300	D	04-068-038	04-072-038	3/1	P/GRD072
DMARD310	D	04-069-039	04-072-438	3/1	P/GRD072
DMARD320	D	04-068-039	04-072-239	3/1	P/GRD072
DMARD330	D	04-069-040	04-072-040	3/1	P/GRD072
DMARD340	D	04-068-040	04-072-440	3/1	P/GRD072
DMARD350	D	04-069-041	04-072-241	3/1	P/GRD072
DMARD360	D	04-068-041	04-072-042	3/1	P/GRD072
DMARD370	D	04-069-042	04-072-542	3/1	P/GRD072
DMARD380	D	04-068-042	04-072-343	3/1	P/GRD072
DMARD390	D	04-069-043	04-072-143	3/1	P/GRD072
DMARD400	D	04-071-035	04-07		

CAD 1
UNIT SYMBOL

ELEMENT IDENTIFIER (CONT)					ELEMENT IDENTIFIER (CONT)					ELEMENT IDENTIFIER (CONT)					ELEMENT IDENTIFIER (CONT)								
A					A					A					A								
PROCESSOR					PROCESSOR					PROCESSOR					PROCESSOR								
TERM. MODIFIER	FUNC	ACCESS TERM.	FS TERM.	LOC FS/SYM	NOTE	TERM. MODIFIER	FUNC	ACCESS TERM.	FS TERM.	LOC FS/SYM	NOTE	TERM. MODIFIER	FUNC	ACCESS TERM.	FS TERM.	LOC FS/SYM	NOTE	TERM. MODIFIER	FUNC	ACCESS TERM.	FS TERM.	LOC FS/SYM	NOTE
DMA6071	0	04-092-038	04-086-238	3/2	P/GRD086	GRD072	G	04-069-011	04-072-307	3/1	P/NOTE 308	GRD086	G	04-094-047	04-086-351	3/2	P/NOTE 308	INT310	I	04-080-054	04-072-355	3/1	P/GRD072
DMA6081	0	04-093-039	04-086-039	3/2	P/GRD086	GRD072	G	04-079-056	04-072-307	3/1	P/NOTE 308	GRD086	G	04-093-056	04-086-351	3/2	P/NOTE 308	INT320	I	04-081-055	04-072-455	3/1	P/GRD072
DMA6091	0	04-092-039	04-086-240	3/2	P/GRD086	GRD072	G	04-081-056	04-072-307	3/1	P/NOTE 308	GRD086	G	04-093-047	04-086-351	3/2	P/NOTE 308	INT330	I	04-080-055	04-072-555	3/1	P/GRD072
DMA6101	0	04-093-040	04-086-041	3/2	P/GRD086	GRD072	G	04-068-002	04-072-307	3/1	P/NOTE 308	GRD086	G	04-092-056	04-086-351	3/2	P/NOTE 308	INT400	I	04-083-054	04-086-053	3/2	P/GRD086
DMA6111	0	04-092-040	04-086-441	3/2	P/GRD086	GRD072	G	04-071-043	04-072-307	3/1	P/NOTE 308	GRD086	G	04-092-047	04-086-351	3/2	P/NOTE 308	INT410	I	04-082-054	04-086-253	3/2	P/GRD086
DMA6121	0	04-093-041	04-086-242	3/2	P/GRD086	GRD072	G	04-078-034	04-072-307	3/1	P/NOTE 308	GRD086	G	04-085-056	04-086-351	3/2	P/NOTE 308	INT420	I	04-083-055	04-086-353	3/2	P/GRD086
DMA6131	0	04-092-041	04-086-043	3/2	P/GRD086	GRD072	G	04-080-047	04-072-307	3/1	P/NOTE 308	GRD086	G	04-093-011	04-086-351	3/2	P/NOTE 308	INT430	I	04-082-055	04-086-553	3/2	P/GRD086
DMA6141	0	04-093-042	04-086-543	3/2	P/GRD086	GRD072	G	04-069-002	04-072-307	3/1	P/NOTE 308	GRD086	G	04-084-015	04-086-351	3/2	P/NOTE 308	INT500	I	04-085-054	04-086-054	3/2	P/GRD086
DMA6151	0	04-092-042	04-086-444	3/2	P/GRD086	GRD072	G	04-068-011	04-072-307	3/1	P/NOTE 308	GRD086	G	04-083-015	04-086-351	3/2	P/NOTE 308	INT510	I	04-084-054	04-086-154	3/2	P/GRD086
DMA7001	0	04-095-035	04-086-333	3/2	P/GRD086	GRD072	G	04-078-024	04-072-307	3/1	P/NOTE 308	GRD086	G	04-082-024	04-086-351	3/2	P/NOTE 308	INT520	I	04-085-055	04-086-254	3/2	P/GRD086
DMA7011	0	04-094-035	04-086-134	3/2	P/GRD086	GRD072	G	04-079-015	04-072-307	3/1	P/NOTE 308	GRD086	G	04-094-011	04-086-351	3/2	P/NOTE 308	INT530	I	04-084-055	04-086-354	3/2	P/GRD086
DMA7021	0	04-095-036	04-086-534	3/2	P/GRD086	GRD072	G	04-071-011	04-072-307	3/1	P/NOTE 308	GRD086	G	04-095-002	04-086-351	3/2	P/NOTE 308	INT600	I	04-093-054	04-086-454	3/2	P/GRD086
DMA7031	0	04-094-036	04-086-435	3/2	P/GRD086	GRD072	G	04-080-011	04-072-307	3/1	P/NOTE 308	GRD086	G	04-094-015	04-086-351	3/2	P/NOTE 308	INT610	I	04-092-054	04-086-554	3/2	P/GRD086
DMA7041	0	04-095-037	04-086-336	3/2	P/GRD086	GRD072	G	04-081-002	04-072-307	3/1	P/NOTE 308	GRD086	G	04-093-024	04-086-351	3/2	P/NOTE 308	INT620	I	04-093-055	04-086-055	3/2	P/GRD086
DMA7051	0	04-094-037	04-086-137	3/2	P/GRD086	GRD072	G	04-080-056	04-072-307	3/1	P/NOTE 308	GRD086	G	04-094-024	04-086-351	3/2	P/NOTE 308	INT630	I	04-092-055	04-086-155	3/2	P/GRD086
DMA7061	0	04-095-038	04-086-537	3/2	P/GRD086	GRD072	G	04-081-011	04-072-307	3/1	P/NOTE 308	GRD086	G	04-095-043	04-086-351	3/2	P/NOTE 308	INT700	I	04-095-054	04-086-255	3/2	P/GRD086
DMA7071	0	04-094-038	04-086-338	3/2	P/GRD086	GRD072	G	04-071-015	04-072-307	3/1	P/NOTE 308	GRD086	G	04-093-015	04-086-351	3/2	P/NOTE 308	INT710	I	04-094-054	04-086-355	3/2	P/GRD086
DMA7081	0	04-095-039	04-086-539	3/2	P/GRD086	GRD072	G	04-070-024	04-072-307	3/1	P/NOTE 308	GRD086	G	04-095-011	04-086-351	3/2	P/NOTE 308	INT720	I	04-095-055	04-086-455	3/2	P/GRD086
DMA7091	0	04-094-039	04-086-340	3/2	P/GRD086	GRD072	G	04-069-043	04-072-307	3/1	P/NOTE 308	GRD086	G	04-092-024	04-086-351	3/2	P/NOTE 308	INT730	I	04-094-055	04-086-555	3/2	P/GRD086
DMA7101	0	04-095-040	04-086-141	3/2	P/GRD086	GRD072	G	04-070-034	04-072-307	3/1	P/NOTE 308	GRD086	G	04-092-015	04-086-351	3/2	P/NOTE 308	OOL00	I	04-086-006	04-072-004	3/1	P/GRD072
DMA7111	0	04-094-040	04-086-541	3/2	P/GRD086	GRD072	G	04-070-015	04-072-307	3/1	P/NOTE 308	GRD086	G	04-085-024	04-086-351	3/2	P/NOTE 308	OOL10	I	04-070-006	04-072-104	3/1	P/GRD072
DMA7121	0	04-095-041	04-086-342	3/2	P/GRD086	GRD072	G	04-069-024	04-072-307	3/1	P/NOTE 308	GRD086	G	04-094-002	04-086-351	3/2	P/NOTE 308	OOL20	I	04-078-006	04-072-204	3/1	P/GRD072
DMA7131	0	04-094-041	04-086-143	3/2	P/GRD086	GRD072	G	04-071-024	04-072-307	3/1	P/NOTE 308	GRD086	G	04-094-015	04-086-351	3/2	P/NOTE 308	OOL30	I	04-080-006	04-072-404	3/1	P/GRD072
DMA7141	0	04-095-042	04-086-044	3/2	P/GRD086	GRD072	G	04-068-047	04-072-307	3/1	P/NOTE 308	GRD086	G	04-084-024	04-086-351	3/2	P/NOTE 308	OOL40	I	04-082-006	04-086-004	3/2	P/GRD086
DMA7151	0	04-094-042	04-086-544	3/2	P/GRD086	GRD072	G	04-078-015	04-072-307	3/1	P/NOTE 308	GRD086	G	04-083-024	04-086-351	3/2	P/NOTE 308	OOL50	I	04-084-006	04-086-104	3/2	P/GRD086
ER000	I	04-068-007	04-072-504	3/1	P/GRD072	GRD072	G	04-078-011	04-072-307	3/1	P/NOTE 308	GRD086	G	04-082-015	04-086-351	3/2	P/NOTE 308	OOL60	I	04-092-006	04-086-204	3/2	P/GRD086
ER010	I	04-068-008	04-072-005	3/1	P/GRD072	GRD072	G	04-079-002	04-072-307	3/1	P/NOTE 308	GRD086	G	04-092-002	04-086-351	3/2	P/NOTE 308	OOL70	I	04-094-006	04-086-404	3/2	P/GRD086
ER020	I	04-068-009	04-072-105	3/1	P/GRD072	GRD072	G	04-070-011	04-072-307	3/1	P/NOTE 308	GRD086	G	04-085-011	04-086-351	3/2	P/NOTE 308	PESL000	O	04-069-003	04-072-110	3/1	P/GRD072
ER030	I	04-068-010	04-072-305	3/1	P/GRD072	GRD072	G	04-081-047	04-072-307	3/1	P/NOTE 308	GRD086	G	04-085-002	04-086-351	3/2	P/NOTE 308	PESL010	O	04-069-004	04-072-210	3/1	P/GRD072
ER100	I	04-070-007	04-072-405	3/1	P/GRD072	GRD072	G	04-070-043	04-072-307	3/1	P/NOTE 308	GRD086	G	04-094-034	04-086-351	3/2	P/NOTE 308	PESL020	O	04-069-005	04-072-310	3/1	P/GRD072
ER110	I	04-070-008	04-072-505	3/1	P/GRD072	GRD072	G	04-068-024	04-072-307	3/1	P/NOTE 308	GRD086	G	04-093-043	04-086-351	3/2	P/NOTE 308	PESL030	O	04-069-006	04-072-410	3/1	P/GRD072
ER120	I	04-070-009	04-072-006	3/1	P/GRD072	GRD072	G	04-069-047	04-072-307	3/1	P/NOTE 308	GRD086	G	04-082-043	04-086-351	3/2	P/NOTE 308	PESL100	O	04-071-003	04-072-510	3/1	P/GRD072
ER130	I	04-070-010	04-072-106	3/1	P/GRD072	GRD072	G	04-080-034	04-072-307	3/1	P/NOTE 308	GRD086	G	04-084-043	04-086-351	3/2	P/NOTE 308	PESL110	O	04-071-004	04-072-011	3/1	P/GRD072
ER200	I	04-078-007	04-072-206	3/1	P/GRD072	GRD072	G	04-068-056	04-072-307	3/1	P/NOTE 308	GRD086	G	04-085-034	04-086-351	3/2	P/NOTE 308	PESL120	O	04-071-005	04-072-111	3/1	P/GRD072
ER210	I	04-078-008	04-072-306	3/1	P/GRD072	GRD072	G	04-068-043	04-072-307	3/1	P/NOTE 308	GRD086	G	04-085-043	04-086-351	3/2	P/NOTE 308	PESL130	O	04-071-006	04-072-211	3/1	P/GRD072
ER220	I	04-078-009	04-072-406	3/1	P/GRD072	GRD072	G	04-081-015	04-072-307	3/1	P/NOTE 308	GRD086	G	04-093-034	04-086-351	3/2	P/NOTE 308	PESL200	O	04-079-003	04-072-311	3/1	P/GRD072
ER230	I	04-078-010	04-072-506	3/1	P/GRD072	GRD072	G	04-080-024	04-072-307	3/1	P/NOTE 308	GRD086	G	04-092-043	04-086-351	3/2	P/NOTE 308	PESL210	O	04-079-004	04-072-411	3/1	P/GRD072
ER300	I	04-080-007	04-072-007	3/1	P/GRD072	GRD072	G	04-078-002	04-072-307	3/1	P/NOTE 308	GRD086	G	04-092-034	04-086-351	3/2	P/NOTE 308	PESL220	O	04-079-005	04-072-511	3/1	P/GRD072
ER310	I	04-080-008	04-072-107	3/1	P/GRD072	GRD072	G	04-071-002	04-072-307	3/1	P/NOTE 308	GRD086	G	04-094-043	04-086-351	3/2	P/NOTE 308	PESL230	O	04-079-006	04-072-012	3/1	P/GRD072
ER320	I	04-080-009	04-072-207	3/1	P/GRD072	GRD072	G	04-079-034	04-072-307	3/1	P/NOTE 308	GRD086	G	04-095-024	04-086-351	3/2	P/NOTE 308	PESL300	O	04-081-003	04-072-112	3/1	P/GRD072
ER330	I	04-080-010	04-072-407	3/1	P/GRD072	GRD072	G	04-069-056	04-072-307	3/1	P/NOTE 308	GRD086	G	04-083-034	04-086-351	3/2	P/NOTE 308	PESL310	O	04-081-004	04-072-212	3/1	P/GRD072
ER400	I	04-082-007	04-086-504	3/2	P/GRD086	GRD072	G	04-078-043	04-072-307	3/1	P/NOTE 308	GRD086	G	04-083-043	04-086-351	3/2	P/NOTE 308	PESL320	O	04-081-005	04-072-412	3/1	P/GRD072
ER410	I	04-082-008	04-086-005	3/2	P/GRD086	GRD072	G	04-081-024	04-072-307	3/1	P/NOTE 308	GRD086	G	04-084-011	04-086-351	3/2	P/NOTE 308	PESL330	O	04-081-006	04-072-512	3/1	P/GRD072
ER420	I	04-082-009	04-086-105	3/2	P/GRD086	GRD072	G	04-070-047	04-072-307	3/1	P/NOTE 308	GRD086	G	04-084-002	04-086-351	3/2	P/NOTE 308	PESL400	O	04-083-003	04-086-110	3/2	P/GRD086
ER430	I	04-082-010	04-086-305	3/2	P/GRD086	GRD072	G	04-069-034	04-072-307	3/1	P/NOTE 308	GRD086	G	04-083-011	04-086-351	3/2	P/NOTE 308	PESL410					

CAD 1
UNIT SYMBOL

ELEMENT IDENTIFIER (CONT)

ELEMENT IDENTIFIER

A

B

PROCESSOR

I/O INTERFACE

TERM. MODIFIER	FUNC	ACCESS TERM.	FS TERM.	LOC FS/SYM	NOTE
PESL720	0	04-095-005	04-086-412	3/2	P/GRD086
PESL730	0	04-095-006	04-086-512	3/2	P/GRD086
RISL800	0	04-069-021	04-072-416	3/1	P/GRD072
RISL810	0	04-071-021	04-072-516	3/1	P/GRD072
RISL820	0	04-079-021	04-072-017	3/1	P/GRD072
RISL830	0	04-081-021	04-072-117	3/1	P/GRD072
RISL840	0	04-083-021	04-086-416	3/2	P/GRD086
RISL850	0	04-085-021	04-086-516	3/2	P/GRD086
RISL860	0	04-093-021	04-086-017	3/2	P/GRD086
RISL870	0	04-095-021	04-086-117	3/2	P/GRD086
SISL800	0	04-068-021	04-072-217	3/1	P/GRD072
SISL810	0	04-070-021	04-072-417	3/1	P/GRD072
SISL820	0	04-078-021	04-072-517	3/1	P/GRD072
SISL830	0	04-080-021	04-072-018	3/1	P/GRD072
SISL840	0	04-082-021	04-086-217	3/2	P/GRD086
SISL850	0	04-084-021	04-086-417	3/2	P/GRD086
SISL860	0	04-092-021	04-086-517	3/2	P/GRD086
SISL870	0	04-094-021	04-086-018	3/2	P/GRD086
SR000	I	04-069-022	04-072-122	3/1	P/GRD072
SR010	I	04-068-022	04-072-222	3/1	P/GRD072
SR020	I	04-069-023	04-072-422	3/1	P/GRD072
SR030	I	04-068-023	04-072-522	3/1	P/GRD072
SR100	I	04-071-022	04-072-023	3/1	P/GRD072
SR110	I	04-070-022	04-072-123	3/1	P/GRD072
SR120	I	04-071-023	04-072-223	3/1	P/GRD072
SR130	I	04-070-023	04-072-323	3/1	P/GRD072
SR200	I	04-079-022	04-072-423	3/1	P/GRD072
SR210	I	04-078-022	04-072-523	3/1	P/GRD072
SR220	I	04-079-023	04-072-024	3/1	P/GRD072
SR230	I	04-078-023	04-072-124	3/1	P/GRD072
SR300	I	04-081-022	04-072-324	3/1	P/GRD072
SR310	I	04-080-022	04-072-232	3/1	P/GRD072
SR320	I	04-081-023	04-072-432	3/1	P/GRD072
SR330	I	04-080-023	04-072-532	3/1	P/GRD072
SR400	I	04-083-022	04-086-122	3/2	P/GRD086
SR410	I	04-082-022	04-086-222	3/2	P/GRD086
SR420	I	04-083-023	04-086-422	3/2	P/GRD086
SR430	I	04-082-023	04-086-522	3/2	P/GRD086
SR500	I	04-085-022	04-086-023	3/2	P/GRD086
SR510	I	04-084-022	04-086-123	3/2	P/GRD086
SR520	I	04-083-023	04-086-223	3/2	P/GRD086
SR530	I	04-084-023	04-086-323	3/2	P/GRD086
SR600	I	04-093-022	04-086-423	3/2	P/GRD086
SR610	I	04-092-022	04-086-523	3/2	P/GRD086
SR620	I	04-093-023	04-086-024	3/2	P/GRD086
SR630	I	04-092-023	04-086-124	3/2	P/GRD086
SR700	I	04-095-022	04-086-324	3/2	P/GRD086
SR710	I	04-094-022	04-086-232	3/2	P/GRD086
SR720	I	04-095-023	04-086-432	3/2	P/GRD086
SR730	I	04-094-023	04-086-532	3/2	P/GRD086

TERM. MODIFIER	FUNC	ACCESS TERM.	FS TERM.	LOC FS/SYM	NOTE
CLK00N	0	04-176-007	04-176-007	1/1	P/CLK00P
CLK00P	0	04-176-106	04-176-106	1/1	P/CLK00N
CLK10N	0	04-176-207	04-176-207	1/1	P/CLK10P
CLK10P	0	04-176-306	04-176-306	1/1	P/CLK10N
DAH0BN	IO	04-176-010	04-176-010	1/1	P/DAH0BP
DAH0BP	IO	04-176-109	04-176-109	1/1	P/DAH0BN
DAH1BN	IO	04-176-210	04-176-210	1/1	P/DAH1BP
DAH1BP	IO	04-176-309	04-176-309	1/1	P/DAH1BN
DAL0BN	IO	04-176-009	04-176-009	1/1	P/DAL0BP
DAL0BP	IO	04-176-108	04-176-108	1/1	P/DAL0BN
DAL1BN	IO	04-176-209	04-176-209	1/1	P/DAL1BP
DAL1BP	IO	04-176-308	04-176-308	1/1	P/DAL1BN
GRD176	G	04-176-111	04-176-206	1/1	
GRD176	G	04-176-206	04-176-206	1/1	
GRD176	G	04-176-006	04-176-206	1/1	
GRD176	G	04-176-311	04-176-206	1/1	
REQ0BN	IO	04-176-011	04-176-011	1/1	P/REQ0BP
REQ0BP	IO	04-176-110	04-176-110	1/1	P/REQ0BN
REQ1BN	IO	04-176-211	04-176-211	1/1	P/REQ1BP
REQ1BP	IO	04-176-310	04-176-310	1/1	P/REQ1BN
XCLK01N	IO	04-176-008	04-176-008	1/1	P/XCLK01P
XCLK01P	IO	04-176-107	04-176-107	1/1	P/XCLK01N
XCLK11N	IO	04-176-208	04-176-208	1/1	P/XCLK11P
XCLK11P	IO	04-176-307	04-176-307	1/1	P/XCLK11N

ELEMENT IDENTIFIER

C

POWER

TERM. MODIFIER	FUNC	ACCESS TERM.	FS TERM.	LOC FS/SYM	NOTE
ALRMA	I	04-008-145	04-008-117	4/1	
QOSR	I	04-008-051	04-008-051	4/1	P/QOS3B
QOS3B	I	04-008-151	04-008-151	4/1	P/QOSR
RQIP3B	I	04-008-152	04-008-152	4/1	P/RQIP3BR
RQIP3BR	I	04-008-052	04-008-052	4/1	P/RQIP3B
SCXR	0	04-008-054	04-008-054	4/1	P/SCX3B
SCX3B	0	04-008-154	04-008-154	4/1	P/SCXR
SCYR	0	04-008-053	04-008-053	4/1	P/SCY3B
SCY3B	0	04-008-153	04-008-153	4/1	P/SCYR
TSTA	0	04-008-146	04-008-146	4/1	
48FEDA	P	01-019-080	04-036-006	4/2	P/48GRDA
48FEDB	P	01-013-080			P/48GRDB
48GRDA	G	01-022-080	04-036-003	4/2	P/48FEDA
48GRDB	G	01-016-080			P/48FEDB

MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		02	3D
BELL LABORATORIES	SD-50026-01	GB4	

CAD 002

SERVICE

CAD 002

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CAD 002

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A	TO CONNECTION										FROM CONNECTION										A	
	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE		
B	TO MESSAGE SWITCH PERIPHERAL UNIT	NC NC GRD072	PA	000 001 002	04-068	TF					TO MESSAGE SWITCH PERIPHERAL UNIT	NC NC GRD072	PE	000 001 011	04-078 (CONT'D)	TF						
C	TO MESSAGE SWITCH PERIPHERAL UNIT	NC NC DOL00 ER000 ER010 ER020 ER030 GRD072	PA00 PA01 PA02 PA03 PA04 PA	006 007 008 009 010 011	04-069	TF	DOL00 ER000 ER010 ER020 ER030 GRD072	04-072	CP	004 504 005 105 305 304	TO MESSAGE SWITCH PERIPHERAL UNIT	NC NC GRD072	PF	000 001 002 003 004 005 006 007 008 009 010 011	04-079	TF						
D	TO MESSAGE SWITCH PERIPHERAL UNIT	NC NC GRD072	PB	000 001 002	04-070	TF					TO MESSAGE SWITCH PERIPHERAL UNIT	NC NC GRD072	PG	000 001 002	04-080	TF						
E	TO MESSAGE SWITCH PERIPHERAL UNIT	NC NC DOL10 ER100 ER110 ER120 ER130 GRD072	PC00 PC01 PC02 PC03 PC04 PC	006 007 008 009 010 011	04-071	TF	DOL10 ER100 ER110 ER120 ER130 GRD072	04-072	CP	104 405 505 106 106 209	TO MESSAGE SWITCH PERIPHERAL UNIT	NC NC DOL30 ER300 ER310 ER320 ER330 GRD072	PG00 PG01 PG02 PG03 PG04 PG	006 007 008 009 010 011	04-081	TF						
F	TO MESSAGE SWITCH PERIPHERAL UNIT	NC NC GRD072 PCSL100 PCSL110 PCSL120 PCSL130	PD00 PD01 PD02 PD03	002 003 004 005 006	04-072	TF	GRD072 PCSL100 PCSL110 PCSL120 PCSL130	04-072	CP	221 510 011 111 211	TO MESSAGE SWITCH PERIPHERAL UNIT	NC NC GRD072	PH	000 001 002	04-082	TF						
G	TO MESSAGE SWITCH PERIPHERAL UNIT	NC NC GRD072	PD	000 001 011	04-078	TF					TO MESSAGE SWITCH PERIPHERAL UNIT	NC NC DOL40 ER400 ER410 ER420 ER430 GRD086	PJ00 PJ01 PJ02 PJ03 PJ04 PJ	006 007 008 009 010 011	04-083	TF						
H	TO MESSAGE SWITCH PERIPHERAL UNIT	NC NC DOL20 ER200 ER210 ER220 ER230	PE00 PE01 PE02 PE03 PE04	006 007 008 009 010	04-072	TF	DOL20 ER200 ER210 ER220 ER230	04-072	CP	204 206 306 406 506	TO MESSAGE SWITCH PERIPHERAL UNIT	NC NC GRD086 PCSL400 PCSL410 PCSL420 PCSL430	PK00 PK01 PK02 PK03	002 003 004 005 006	04-086	CP	307 110 210 310 410					

MESSAGE SWITCH CONTROL UNIT	
DWG SIZE CZ	ISSUE 3D
BELL LABORATORIES	SD-5D026-01
GB5	

CAD 002
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CAD 003
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CAD 003
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TO CONNECTION		FROM CONNECTION							TO CONNECTION		FROM CONNECTION							TO CONNECTION		FROM CONNECTION												
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE			
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TO MESSAGE SWITCH PERIPHERAL UNIT																																
04-093 TF																																
NC 000																																
NC 001																																
GRD086 04-086 CP 409																																
PCSL600 04-086 CP 311																																
PCSL610 04-086 CP 411																																
PCSL620 04-086 CP 511																																
PCSL630 04-086 CP 012																																
NC 007																																
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GRD086 04-086 CP 409																																
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DMAWR00 04-072 CP 019																																
DMARD00 04-072 CP 020																																
DMAOC00 04-072 CP 420																																
DMAQ000 04-072 CP 321																																
CINT00 04-072 CP 118																																
RISL800 04-072 CP 416																																
SR000 04-072 CP 122																																
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GRD072 04-072 CP 153																																
CSA100 04-072 CP 513																																
CSA110 04-072 CP 014																																
CSA120 04-072 CP 114																																
CSA130 04-072 CP 314																																
CLRPC10 04-072 CP 116																																
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DMAWR30 04-072 CP 519																																
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CINT30 04-072 CP 518																																
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SR300 04-072 CP 324																																
SR320 04-072 CP 432																																
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CSA400 04-086 CP 113																																
CSA410 04-086 CP 213																																
CSA420 04-086 CP 313																																
CSA430 04-086 CP 413																																
CLRPC40 04-086 CP 016																																
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SR410 04-086 CP 222																																
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CSA500 04-086 CP 513																																
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CSA520 04-086 CP 114																																
CSA530 04-086 CP 314																																
CLRPE50 04-086 CP 116																																
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CSA010 04-072 CP 213																																
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CSA030 04-072 CP 413																																
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GRD072 04-072 CP 236																																
CSA200 04-072 CP 414																																
CSA210 04-072 CP 514																																
CSA220 04-072 CP 015																																
CSA230 04-072 CP 115																																
CLRPC20 04-072 CP 216																																
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SR210 04-072 CP 523																																
SR230 04-072 CP 124																																
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GRD072 04-072 CP 243																																
DMAWR20 04-072 CP 319																																
DMARD20 04-072 CP 220																																
DMAOC20 04-072 CP 021																																
DMAQ20 04-072 CP 521																																
CINT20 04-072 CP 418																																
RISL820 04-072 CP 017																																
SR200 04-072 CP 423																																
SR220 04-072 CP 024																																
GRD072 04-072 CP 243																																
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04-080 TF																																
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GRD072 04-072 CP 507																																
CSA300 04-072 CP 215																																
CSA310 04-072 CP 315																																
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DMARD40 04-086 CP 320																																
DMAOC40 04-086 CP 420																																
DMAQ40 04-086 CP 321																																
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CSA530 04-086 CP 314																																
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CSA520 04-086 CP 114																																
CSA530 04-086 CP 314																																
CLRPE50 04-086 CP 116																																
SISL850 04-086 CP 417																																
SR510 04-086 CP 123																																
SR530 04-086 CP 323																																
GRD086 04-086 CP 153																																

CAD 003
CONTROL

MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		C2	3D
BELL LABORATORIES	SD-5D026-01	GB6	

CAD 003
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CAD 004
ADDRESS

CAD 004
(CONT'D)

TO CONNECTION		FROM CONNECTION						TO CONNECTION		FROM CONNECTION						TO CONNECTION		FROM CONNECTION														
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	DPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	DPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	DPT	NOTE			
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TO MESSAGE NC 013																																
SWITCH NC 014																																
PERIPHERAL UNIT DMAWR50 04-086 CP 200																																
DMAWR50 04-086 CP 219																																
DMAWR50 04-086 CP 120																																
DMAWR50 04-086 CP 520																																
DMAWR50 04-086 CP 421																																
CINT50 04-086 CP 318																																
RISL850 04-086 CP 516																																
SR500 04-086 CP 023																																
SR520 04-086 CP 223																																
GRD086 04-086 CP 200																																
PM 024																																
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TO MESSAGE NC 013																																
SWITCH NC 014																																
PERIPHERAL UNIT CSA600 04-086 CP 236																																
CSA610 04-086 CP 414																																
CSA610 04-086 CP 514																																
CSA620 04-086 CP 015																																
CSA630 04-086 CP 115																																
CLRPC60 04-086 CP 216																																
SISL860 04-086 CP 517																																
SR610 04-086 CP 523																																
SR630 04-086 CP 124																																
GRD086 04-086 CP 236																																
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TO MESSAGE NC 013																																
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PERIPHERAL UNIT GRD086 04-086 CP 243																																
DMAWR60 04-086 CP 319																																
DMAWR60 04-086 CP 220																																
DMAWR60 04-086 CP 021																																
DMAWR60 04-086 CP 521																																
CINT60 04-086 CP 418																																
RISL860 04-086 CP 017																																
SR600 04-086 CP 423																																
SR620 04-086 CP 024																																
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TO MESSAGE NC 013																																
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PERIPHERAL UNIT GRD086 04-086 CP 507																																
CSA700 04-086 CP 215																																
CSA710 04-086 CP 315																																
CSA720 04-086 CP 415																																
CSA730 04-086 CP 515																																
CLRPC70 04-086 CP 316																																
SISL870 04-086 CP 018																																
SR710 04-086 CP 232																																
SR730 04-086 CP 532																																
GRD086 04-086 CP 507																																
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TO MESSAGE NC 013																																
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PERIPHERAL UNIT GRD086 04-086 CP 317																																
DMAWR70 04-086 CP 519																																
DMAWR70 04-086 CP 320																																
DMAWR70 04-086 CP 121																																
DMAWR70 04-086 CP 022																																
CINT70 04-086 CP 518																																
RISL870 04-086 CP 117																																
SR700 04-086 CP 324																																
SR720 04-086 CP 432																																
GRD086 04-086 CP 317																																
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TO MESSAGE NC 032																																
SWITCH NC 033																																
PERIPHERAL UNIT GRD072 04-072 CP 335																																
DMA0011 04-072 CP 433																																
DMA0031 04-072 CP 035																																
DMA0051 04-072 CP 436																																
DMA0071 04-072 CP 038																																
DMA0091 04-072 CP 040																																
DMA0111 04-072 CP 241																																
DMA0131 04-072 CP 442																																
DMA0151 04-072 CP 144																																
GRD072 04-072 CP 335																																
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SWITCH NC 033																																
PERIPHERAL UNIT GRD072 04-072 CP 344																																
DMA0001 04-072 CP 033																																
DMA0021 04-072 CP 234																																
DMA0041 04-072 CP 535																																
DMA0061 04-072 CP 237																																
DMA0081 04-072 CP 438																																
DMA0101 04-072 CP 440																																
DMA0121 04-072 CP 042																																
DMA0141 04-072 CP 343																																
GRD072 04-072 CP 344																																
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TO MESSAGE NC 032																																
SWITCH NC 033																																
PERIPHERAL UNIT GRD072 04-072 CP 247																																
DMA1011 04-072 CP 533																																
DMA1031 04-072 CP 135																																
DMA1051 04-072 CP 536																																
DMA1071 04-072 CP 138																																
DMA1091 04-072 CP 140																																
DMA1111 04-072 CP 341																																
DMA1131 04-072 CP 542																																
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PERIPHERAL UNIT GRD072 04-072 CP 347																																
DMA1001 04-072 CP 133																																
DMA1021 04-072 CP 334																																
DMA1041 04-072 CP 036																																
DMA1061 04-072 CP 337																																
DMA1081 04-072 CP 538																																
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PERIPHERAL UNIT GRD072 04-072 CP 332																																
DMA2011 04-072 CP 034																																
DMA2031 04-072 CP 235																																
DMA2051 04-072 CP 037																																
DMA2071 04-072 CP 238																																
DMA2091 04-072 CP 240																																
DMA2111 04-072 CP 441																																
DMA2131 04-072 CP 043																																
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PERIPHERAL UNIT GRD072 04-072 CP 439																																
DMA2001 04-072 CP 233																																
DMA2021 04-072 CP 434																																
PF 034																																
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PERIPHERAL UNIT DMA2041 04-072 CP 136																																
DMA2061 04-072 CP 437																																
DMA2081 04-072 CP 039																																
DMA2101 04-072 CP 041																																
DMA2121 04-072 CP 242																																
DMA2141 04-072 CP 543																																
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PERIPHERAL UNIT GRD072 04-072 CP 322																																
DMA3011 04-072 CP 134																																
DMA3031 04-072 CP 435																																
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DMA3001 04-072 CP 333																																
DMA3021 04-072 CP 534																																
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PERIPHERAL UNIT GRD086 04-086 CP 335																																
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DMA4001 04-086 CP 033																																
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DMA4061 04-086 CP 237																																
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MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		C2	3D
BELL LABORATORIES		SD-5D026-01	GB7

CAD 004

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CAD 004

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CAD 005

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TO CONNECTION		FROM CONNECTION							TO CONNECTION		FROM CONNECTION							TO CONNECTION		FROM CONNECTION											
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE		
.....J		04-084 TF							.....J		04-085 TF							.....J		04-086 TF										
TO MESSAGE	NC			032						TO MESSAGE	NC			032						TO MESSAGE	NC			045							
SWITCH	NC			033						SWITCH	NC			046						SWITCH	NC			046							
PERIPHERAL UNIT	GRD086	PL	034	GRD086	04-086	CP	247			PERIPHERAL UNIT	GRD086	PM	034	GRD086	04-086	CP	347			PERIPHERAL UNIT	GRD072	PF	047	GRD072	04-072	CP	556				
	DMA5011	PL00	035	DMA5011	04-086	CP	533				DMA5001	PM00	035	DMA5001	04-086	CP	133				DMA201	PF00	048	DMA201	04-072	CP	345				
	DMA5031	PL01	036	DMA5031	04-086	CP	135				DMA5021	PM01	036	DMA5021	04-086	CP	334				DMA221	PF01	049	DMA221	04-072	CP	546				
	DMA5051	PL02	037	DMA5051	04-086	CP	536				DMA5041	PM02	037	DMA5041	04-086	CP	036				DMA241	PF02	050	DMA241	04-072	CP	348				
	DMA5071	PL03	038	DMA5071	04-086	CP	138				DMA5061	PM03	038	DMA5061	04-086	CP	337				DMA261	PF03	051	DMA261	04-072	CP	549				
	DMA5091	PL04	039	DMA5091	04-086	CP	140				DMA5081	PM04	039	DMA5081	04-086	CP	538				DMA281	PF04	052	DMA281	04-072	CP	151				
	DMA5111	PL05	040	DMA5111	04-086	CP	341				DMA5101	PM05	040	DMA5101	04-086	CP	540														
	DMA5131	PL06	041	DMA5131	04-086	CP	542				DMA5121	PM06	041	DMA5121	04-086	CP	142														
	DMA5151	PL07	042	DMA5151	04-086	CP	244				DMA5141	PM07	042	DMA5141	04-086	CP	443														
	GRD086	PL	043	GRD086	04-086	CP	247				GRD086	PM	043	GRD086	04-086	CP	347														
.....J		04-095 (CONT'D) TF							.....J		04-068 TF							.....J		04-069 TF										
	DMA7041	PT02	037	DMA7041	04-086	CP	336				NC			045							NC										
	DMA7061	PT03	038	DMA7061	04-086	CP	537				NC			046							NC										
	DMA7081	PT04	039	DMA7081	04-086	CP	539				GRD072	PA00	048	GRD072	04-072	CP	252				GRD072	PA00	048	GRD072	04-072	CP	545				
	DMA7101	PT05	040	DMA7101	04-086	CP	141				DMA011	PA01	049	DMA011	04-072	CP	147				DMA031	PA01	049	DMA031	04-072	CP	147				
	DMA7121	PT06	041	DMA7121	04-086	CP	342				DMA031	PA02	050	DMA031	04-072	CP	548				DMA051	PA02	050	DMA051	04-072	CP	548				
	DMA7141	PT07	042	DMA7141	04-086	CP	044				DMA051	PA03	051	DMA051	04-072	CP	150				DMA071	PA03	051	DMA071	04-072	CP	150				
	GRD086	PT	043	GRD086	04-086	CP	424				NC			052							NC										
											NC			053							NC										
											INT010	PA04	054	INT010	04-072	CP	253				INT030	PA05	055	INT030	04-072	CP	553				
											GRD072	PA	056	GRD072	04-072	CP	252				GRD072	PA	056	GRD072	04-072	CP	252				
.....J		04-078 TF							.....J		04-079 TF							.....J		04-080 TF										
TO MESSAGE	NC			045						TO MESSAGE	NC			045						TO MESSAGE	NC			045							
SWITCH	NC			046						SWITCH	NC			046						SWITCH	NC			046							
PERIPHERAL UNIT	GRD072	PE	047	GRD072	04-072	CP	524			PERIPHERAL UNIT	GRD072	PF	047	GRD072	04-072	CP	556			PERIPHERAL UNIT	GRD072	PG	047	GRD072	04-072	CP	419				
	DMA211	PE00	048	DMA211	04-072	CP	146				DMA201	PF00	048	DMA201	04-072	CP	345				DMA311	PG00	048	DMA311	04-072	CP	246				
	DMA231	PE01	049	DMA231	04-072	CP	547				DMA221	PF01	049	DMA221	04-072	CP	546				DMA331	PG01	049	DMA331	04-072	CP	048				
	DMA251	PE02	050	DMA251	04-072	CP	149				DMA241	PF02	050	DMA241	04-072	CP	348				DMA351	PG02	050	DMA351	04-072	CP	249				
	DMA271	PE03	051	DMA271	04-072	CP	450				DMA261	PF03	051	DMA261	04-072	CP	549				DMA371	PG03	051	DMA371	04-072	CP	550				
											NC			052							NC										
											NC			053							NC										
											INT210	PE04	054	INT210	04-072	CP	554				INT200	PF05	054	INT200	04-072	CP	454				
											INT230	PE05	055	INT230	04-072	CP	155				INT220	PF06	055	INT220	04-072	CP	055				
											GRD072	PE	056	GRD072	04-072	CP	524				GRD072	PF	056	GRD072	04-072	CP	556				
.....J		04-081 TF							.....J		04-082 TF							.....J		04-083 TF										
TO MESSAGE	NC			045						TO MESSAGE	NC			045						TO MESSAGE	NC			045							
SWITCH	NC			046						SWITCH	NC			046						SWITCH	NC			046							
PERIPHERAL UNIT	GRD072	PH	047	GRD072	04-072	CP	312			PERIPHERAL UNIT	GRD072	PH	047	GRD072	04-072	CP	312			PERIPHERAL UNIT	GRD072	PH	047	GRD072	04-072	CP	312				
	DMA301	PH00	048	DMA301	04-072	CP	445				DMA301	PH00	048	DMA301	04-072	CP	445				DMA301	PH00	048	DMA301	04-072	CP	445				
	DMA321	PH01	049	DMA321	04-072	CP	047				DMA321	PH01	049	DMA321	04-072	CP	047				DMA321	PH01	049	DMA321	04-072	CP	047				
	DMA341	PH02	050	DMA341	04-072	CP	448				DMA341	PH02	050	DMA341	04-072	CP	448				DMA341	PH02	050	DMA341	04-072	CP	448				
	DMA361	PH03	051	DMA361	04-072	CP	050				DMA361	PH03	051	DMA361	04-072	CP	050				DMA361	PH03	051	DMA361	04-072	CP	050				
	DMA381	PH04	052	DMA381	04-072	CP	051				DMA381	PH04	052	DMA381	04-072	CP	051				DMA381	PH04	052	DMA381	04-072	CP	051				
											NC			053							NC										
											NC			053							NC										
											INT310	PH05	054	INT310	04-072	CP	355				INT330	PH05	055	INT330	04-072	CP	555				
											INT330	PH06	055	INT330	04-072	CP	455				GRD072	PH	056	GRD072	04-072	CP	312				
											GRD072	PH	056	GRD072	04-072	CP	419														
.....J		04-071 TF							.....J		04-072 TF							.....J		04-073 TF										
TO MESSAGE	NC			045						TO MESSAGE	NC			045						TO MESSAGE	NC			045							
SWITCH	NC			046						SWITCH	NC			046						SWITCH	NC			046							
PERIPHERAL UNIT	GRD072	PD	047	GRD072	04-072	CP	456			PERIPHERAL UNIT	GRD072	PD	047	GRD072	04-072	CP	456														

CAD 010

BUS TERMINATION RESISTORS

TO CONNECTION				FROM CONNECTION				OPT	NOTE
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL		
.....BTR2				04-160	JACK/CP	.....		
(BTR2)	+5PHR			000	+5PHR				
	DB011			001	DB011				
	DB041			002	DB041				
	DB071			003	DB071				
	DB101			004	DB101				
	DB131			005	DB131				
	DBPL1			006	DBPL1				
	NC			007	SRC21				
	NC			008	DST01				
	NC			009	DST31				
	NC			010	DFLGO				
	NC			011					
(BTR2)	DBPH1			100	DBPH1				
	GRD160			101	GRD160				
	DB051			102	DB051				
	GRD160			103	GRD160				
	DB111			104	DB111				
	GRD160			105	GRD160				
	NC			106	SRC01				
(BTR2)	+5PHR			107	+5PHR				
(BTR2)	NC			108	DST11				
(BTR2)	GRD160			109	GRD160				
(BTR2)	NC			110	CFLGO				
(BTR2)	GRD160			111	GRD160				
.....BTR1				04-160	JACK/CP	.....		
(BTR1)	GRD160			200	GRD160				
	DB021			201	DB021				
	GRD160			202	GRD160				
	DB081			203	DB081				
	GRD160			204	GRD160				
	DB141			205	DB141				
	GRD160			206	GRD160				
	NC			207	SRC31				
(BTR1)	GRD160			208	GRD160				
(BTR1)	NC			209	DST41				
(BTR1)	GRD160			210	GRD160				
	NC			211					
(BTR1)	DB001			300	DB001				
	DB031			301	DB031				
	DB061			302	DB061				
	DB091			303	DB091				
	DB121			304	DB121				
	DB151			305	DB151				
	NC			306	SRC11				
	NC			307	SRC41				
	NC			308	DST21				
	NC			309					
	NC			310	THRINTO				
	NC			311	SNTYER1				

CAD 011

FUSE ALARM

TO CONNECTION				FROM CONNECTION				OPT	NOTE
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL		
.....J				04-008	JACK/CP	.....		
	NC			044					
	NC			045					
	NC			046					
	NC			144					
TO FUSE PANEL	ALRMA			145	ALRMA	04-008	CP	117	
	TSTA			146	TSTA				

CAD 012

POWER AND GROUND LUGS

TO CONNECTION				FROM CONNECTION				OPT	NOTE
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL		
.....J				01-013	LUG	(103)	.....	
TO FUSE PANEL	48FEDB			080	48FEDB	04-048	TF	006	
.....J				01-016	LUG	(103)	.....	
TO FUSE PANEL	48GRDB			080	48GRDB	04-048	TF	003	
.....J				01-019	LUG		.....	
TO FUSE PANEL	48FEDA			080	48FEDA	04-036	CP	006	
.....J				01-022	LUG		.....	
TO FUSE PANEL	48GRDA			080	48GRDA	04-036	CP	003	

CAD 013

TRACE AND CONTROL UNIT BACKPLANE WIRING

TO CONNECTION				FROM CONNECTION				OPT	NOTE
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL		
.....J				04-120	JACK/CP	(103)	.....	
	NC			006	RSTRMO				
	NC			007	RMTXD				
	NC			008	BDA2				
	NC			106	RAMBCK				
	NC			108	BDA3				
	NC			207	BDA0				
	NC			234	GRD120	04-120	CP	101	
	NC			254	GRD120	04-120	CP	101	
	NC			306	RMRXD				
	NC			307	BDA1				
.....J				04-136	JACK/CP	(103)	.....	
	NC			006	RSTRMO				
	NC			007	RMTXD				
	NC			008	BDA2				
	NC			106	RAMBCK				
	NC			108	BDA3				
	NC			207	BDA0				
	NC			234	GRD136	04-136	CP	101	
	NC			254	GRD136	04-136	CP	101	
	NC			306	RMRXD				
	NC			307	BDA1				
.....J				04-152	TF	(103)	.....	
	NC			000	+5V	04-152	TF	000	
	NC			001	DB011	04-160	CP	001	
	NC			002	DB041	04-160	CP	002	
	NC			003	DB071	04-160	CP	003	
	NC			004	DB101	04-160	CP	004	
	NC			005	DB131	04-160	CP	005	
	NC			006	RSTRMO	04-136	CP	006	
	NC			007	RMTXD	04-136	CP	007	
	NC			008	BDA2	04-136	CP	008	
	NC			009	DST11	04-160	CP	108	
	NC			010	DST41	04-160	CP	209	
	NC			011	SRC21	04-160	CP	007	
	NC			022	BICERO	04-176	CP	020	
	NC			023	AINTSUMO	04-104	CP	054	
	NC			032	+5V	04-152	TF	000	
	NC			034	GRD160	04-160	CP	015	
	NC			035	GRD160	04-160	CP	015	
	NC			040	-ENTSNSB	04-152	TF	040	
	NC			042	+ENTSNSB	04-152	TF	042	
	NC			045	UAB011	04-104	CP	045	
	NC			046	UAB041	04-104	CP	046	
	NC			047	UAB071	04-104	CP	047	
	NC			048	UAB101	04-104	CP	048	
	NC			049	UAB131	04-104	CP	049	

CAD 013

(CONT'D)

TO CONNECTION				FROM CONNECTION				OPT	NOTE
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL		
.....J				04-152	TF	(103)	.....	
	NC			050	INHCK00	04-160	CP	055	
	NC			101	GRD160	04-160	CP	015	
	NC			102	DB051	04-160	CP	102	
	NC			103	GRD160	04-160	CP	015	
	NC			104	DB111	04-160	CP	104	
	NC			105	GRD160	04-160	CP	015	
	NC			106	RAMBCK	04-136	CP	106	
	NC			107	+5V	04-152	TF	000	
	NC			108	BDA3	04-136	CP	108	
	NC			109	GRD160	04-160	CP	015	
	NC			110	SRC01	04-160	CP	106	
	NC			111	GRD160	04-160	CP	015	
	NC			113	GRD160	04-160	CP	015	
	NC			115	+5V	04-152	TF	000	
	NC			117	GRD160	04-160	CP	015	
	NC			119	GRD160	04-160	CP	015	
	NC			121	GRD160	04-160	CP	015	
	NC			122	SNTYER1	04-160	CP	311	
	NC			123	GRD160	04-160	CP	015	
	NC			124	+5V	04-152	TF	000	
	NC			133	GRD160	04-160	CP	015	
	NC			134	GRD160	04-160	CP	015	
	NC			135	GRD160	04-160	CP	015	
	NC			137	GRD160	04-160	CP	015	
	NC			139	+5V	04-152	TF	000	
	NC			141	GRD160	04-160	CP	015	
	NC			143	GRD160	04-160	CP	015	
	NC			145	GRD160	04-160	CP	015	
	NC			146	UAB051	04-104	CP	146	
	NC			147	+5V	04-152	TF	000	
	NC			148	UAB111	04-104	CP	148	
	NC			149	GRD160	04-160	CP	015	
	NC			151	GRD160	04-160	CP	015	
	NC			153	GRD160	04-160	CP	015	
	NC			155	GRD160	04-160	CP	015	
	NC			156	+5V	04-152	TF	000	
	NC								

CAD 013
(CONT'D)

CAD 014
(CONT'D)

TO CONNECTION				FROM CONNECTION					
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....J				04-152 (CONT'D) TF (103).....					
NC				251	CYCEND1	04-160	CP	251	
NC				252	GRD160	04-160	CP	015	
NC				254	GRD160	04-160	CP	015	
NC				256	CLEAR10	04-104	CP	256	
NC				300	DBD01	04-160	CP	300	
NC				301	DBD31	04-160	CP	301	
NC				302	DBD61	04-160	CP	302	
NC				303	DBD91	04-160	CP	303	
NC				304	DB121	04-160	CP	304	
NC				305	DB151	04-160	CP	305	
NC				306	RMRXD	04-136	CP	306	
NC				307	BDA1	04-136	CP	307	
NC				308	DST01	04-160	CP	008	
NC				309	DST31	04-160	CP	009	
NC				310	SRC11	04-160	CP	306	
NC				311	SRC41	04-160	CP	307	
NC				321	DFLG0	04-160	CP	010	
NC				322	ADTAPER1	04-104	CP	152	
NC				323	PARITYE0	04-104	CP	152	
NC				324	GRD160	04-160	CP	015	
NC				332	GRD160	04-160	CP	015	
NC				333	BITNSUM0	04-104	CP	353	
NC				334	GRD160	04-160	CP	015	
NC				335	GRD160	04-160	CP	015	
NC				344	UAB001	04-104	CP	344	
NC				345	UAB031	04-104	CP	345	
NC				346	UAB061	04-104	CP	346	
NC				347	UAB091	04-104	CP	347	
NC				348	UAB121	04-104	CP	348	
NC				349	UAB151	04-104	CP	349	
NC				350	C_DCK1	04-160	CP	350	
NC				356	GRD160	04-160	CP	015	

TO CONNECTION				FROM CONNECTION					
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....J				04-048 (CONT'D) TF (103).....					
NC				056	+5V	04-152	TF	000	
NC				100	GRD036	04-036	CP	032	
NC				101	GRD036	04-036	CP	032	
NC				102	48GRDB	04-048	TF	003	
NC				103	48GRDB	04-048	TF	003	
NC				104	48GRDB	04-048	TF	003	
NC				106	48FEDB	04-048	TF	006	
NC				107	48FEDB	04-048	TF	006	
NC				108	48FEDB	04-048	TF	006	
NC				109	CDS3	04-008	CP	009	
NC				110	CDS2	04-008	CP	122	
NC				117	-ENTNSNB	04-152	TF	040	
NC				118	+5V	04-152	TF	000	
NC				119	GRD036	04-036	CP	032	
NC				132	GRD036	04-036	CP	032	
NC				133	GRD036	04-036	CP	032	
NC				134	GRD036	04-036	CP	032	
NC				135	GRD036	04-036	CP	032	
NC				136	GRD036	04-036	CP	032	
NC				137	GRD036	04-036	CP	032	
NC				138	GRD036	04-036	CP	032	
NC				139	GRD036	04-036	CP	032	
NC				140	GRD036	04-036	CP	032	
NC				141	GRD036	04-036	CP	032	
NC				142	GRD036	04-036	CP	032	
NC				143	GRD036	04-036	CP	032	
NC				145	+5V	04-152	TF	000	
NC				146	+5V	04-152	TF	000	
NC				147	+5V	04-152	TF	000	
NC				148	+5V	04-152	TF	000	
NC				149	+5V	04-152	TF	000	
NC				150	+5V	04-152	TF	000	
NC				151	+5V	04-152	TF	000	
NC				152	+5V	04-152	TF	000	
NC				153	+5V	04-152	TF	000	
NC				154	+5V	04-152	TF	000	
NC				155	+5V	04-152	TF	000	
NC				156	+5V	04-152	TF	000	

CAD 014
TEST POWER CONVERTER WIRING

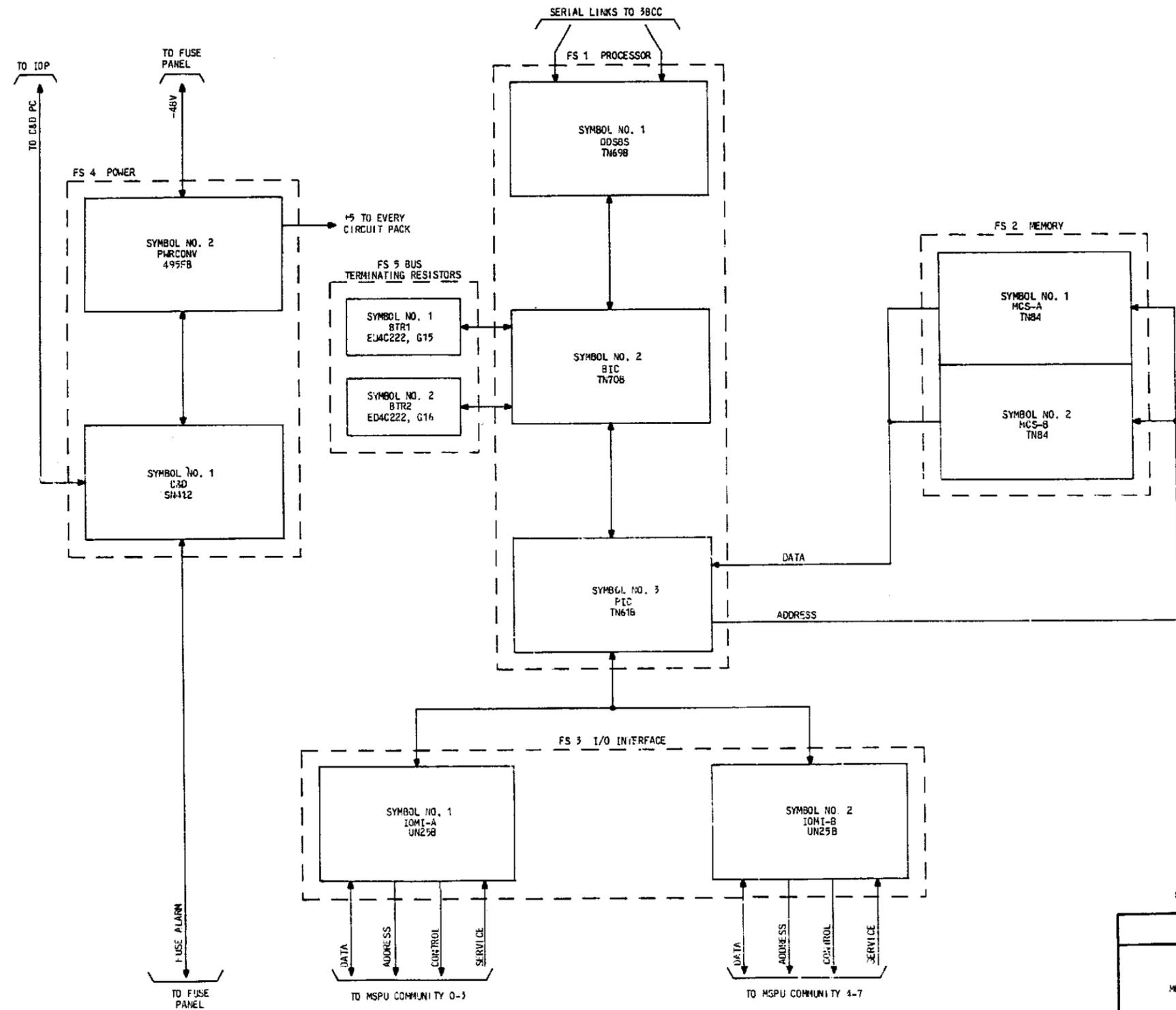
TO CONNECTION				FROM CONNECTION					
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....J				04-048 TF (103).....					
NC				000	GRD036	04-036	CP	032	
NC				001	GRD036	04-036	CP	032	
NC				003	48GRDB	04-048	TF	003	
NC				004	48GRDB	04-048	TF	003	
NC				005	48GRDB	04-048	TF	003	
NC				006	48FEDB	04-048	TF	006	
NC				007	48FEDB	04-048	TF	006	
NC				008	48FEDB	04-048	TF	006	
NC				011	CDS1	04-008	CP	124	
NC				017	+CNTNSNB	04-152	TF	042	
NC				018	SHRTB	04-048	TF	018	
NC				019	SHRTB	04-048	TF	018	
NC				032	GRD036	04-036	CP	032	
NC				033	GRD036	04-036	CP	032	
NC				034	GRD036	04-036	CP	032	
NC				035	GRD036	04-036	CP	032	
NC				036	GRD036	04-036	CP	032	
NC				037	GRD036	04-036	CP	032	
NC				038	GRD036	04-036	CP	032	
NC				039	GRD036	04-036	CP	032	
NC				040	GRD036	04-036	CP	032	
NC				041	GRD036	04-036	CP	032	
NC				042	GRD036	04-036	CP	032	
NC				043	GRD036	04-036	CP	032	
NC				045	+5V	04-152	TF	000	
NC				046	+5V	04-152	TF	000	
NC				047	+5V	04-152	TF	000	
NC				048	+5V	04-152	TF	000	
NC				049	+5V	04-152	TF	000	
NC				050	+5V	04-152	TF	000	
NC				051	+5V	04-152	TF	000	
NC				052	+5V	04-152	TF	000	
NC				053	+5V	04-152	TF	000	
NC				054	+5V	04-152	TF	000	
NC				055	+5V	04-152	TF	000	

CAD 015
NON-USED PW PINS

TO CONNECTION				FROM CONNECTION					
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....J				04-174 TF.....					
NC				013	GRD176	04-176	EP	206	
NC				015	GRD176	04-176	EP	206	
NC				016	GRD176	04-176	EP	206	
NC				017	GRD176	04-176	EP	206	
NC				019	GRD176	04-176	EP	206	
NC				020	GRD176	04-176	EP	206	
NC				021	GRD176	04-176	EP	206	
NC				022	GRD176	04-176	EP	206	
NC				024	GRD176	04-176	EP	206	
.....J				04-175 TF.....					
NC				013	GRD176	04-176	EP	206	
NC				024	GRD176	04-176	EP	206	

MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		C2	3D
BELL LABORATORIES	SD-5D026-01	GB11	

BD 1
FS BLOCK DIAGRAM



SEE PROPRIETARY NOTICE ON COVER SHEET

MESSAGE SWITCH CONTROL UNIT		DWG SIZE	ISSUE
		65	5A
AT&T BELL LABORATORIES	SD-50026-01	H#1	