

SHEET INDEX		
CONTENTS	SHEET NO.	SHEET ISSUE
SHEET INDEX - ENGINEERING AND MANUFACTURING SUPPORTING INFORMATION	A1	1
SHEET INDEX - OPERATIONS AND MAINTENANCE	A#1	1
DESIGNATION MNEMONICS INDEX	A#2	1
APPARATUS INDEX	A#3	1
LEAD INDEX	A#4	1
FS 1 PERIODIC PULSE METERING	B#1AA	1
	B#1CA	1
	B#1CB	1
	B#1CC	1
	B#1CD	1
	B#1CE	1
	B#1CF	1
	B#1CG	1
	B#1CH	1
	B#2AA	1
B#2CA	1	
APP FIG. 1-3	C#1	1
EQUIPMENT NOTES	D1	1
INFORMATION NOTES	D#1	1
CAD 02,03	G#2	1
CAD 03,04	G#3	1

OPTION INDEX			
APP OR WRG	RATED ON ISSUE	REF NOTES	LOCATION
(Y),(Z)	1	306,307	B#1AA B#1CA-B#1GA D#1

DWG ISSUE	CD ISSUE	DATE ISSUED	DRWN	APPD
1	1	12-22-73	AS	JCM
			PGS	RTG

SUPPORTING INFORMATION

CATEGORY	NO.
DESCRIPTION	BSP-234-112-010
THEORY	BSP-234-112-011
TOPS	BSP-234-15-059
EQUIPMENT DESIGN REQUIREMENTS	J-68960A (BSP-804-050-153)
CIRCUIT PACK	SD-50210-01
EQUIPMENT DRAWING	J-68960A-()

SHEET INDEX NOTES

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 CHANGED 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.

NOTICE - NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL SYSTEM EXCEPT UNDER WRITTEN AGREEMENT

XT13
BESS™ EXPORT
PERIODIC PULSE METERING
CIRCUIT

VECO
STANDARD

DWG SIZE
65

ISSUE
1

BELL LABORATORIES

SD-5X202-01

SHEET A1
OF 21

0 1 2 3 4 5 6 7 8 9

SHEET INDEX

CONTENTS	SHEET NO.	SHEET ISSUE
SHEET INDEX - OPERATIONS AND MAINTENANCE	A#1	1
DESIGNATION MNEMONICS INDEX	A#2	1
APPARATUS INDEX	A#3	1
LEAD INDEX	A#4	1
FS 1 PERIODIC PULSE METERING	B#1AA	1
	B#1CA	1
	B#1CB	1
	B#1CC	1
	B#1CD	1
	B#1CE	1
	B#1CF	1
	B#1CG	1
	B#1CH	1
	FS 2 POWER & MISC CIRCUIT	B#2AA
B#2CA		1
APP FIG. 1-3	C#1	1
INFORMATION NOTES	D#1	1

FIGURES, NOTES AND OTHER INFORMATION REFERENCED IN THIS DRAWING BUT NOT LISTED IN THIS "OPERATION AND MAINTENANCE" SHEET INDEX ARE REQUIRED FOR ENGINEERING AND MANUFACTURING PURPOSES ONLY AND ARE NOT PROVIDED.

NOTICE- NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL SYSTEM EXCEPT UNDER WRITTEN AGREEMENT.

SESS™ EXPORT PERIODIC PULSE METERING CIRCUIT OPERATIONS AND MAINTENANCE	VECO STANDARD	
	DWG SIZE 6S	ISSUE 1
BELL LABORATORIES	SD-5X202-OI	7 SHEETS A#1

0 1 2 3 4 5 6 7 8 9

DESIGNATION MNEMONICS INDEX

MNEMONIC	ES/SYM	DEFINITION	MNEMONIC	ES/SYM	DEFINITION
+12V	2/1	+12 VOLT POWER SUPPLY	RI.2<00-15>	1/1-16	RING IN CIRCUIT 2
+5V	2/1	+5 VOLT POWER SUPPLY	RI.3<00-15>	1/1-16	RING IN CIRCUIT 3
-48V00	2/1	-48 VOLT POWER FROM FEEDER 0	RO.0<00-15>	1/1-16	RING OUT CIRCUIT 0
-48V01	1/1	-48 VOLT POWER FROM FEEDER 1	RO.1<00-15>	1/1-16	RING OUT CIRCUIT 1
-48V02	1/9	-48 VOLT POWER FROM FEEDER 2	RO.2<00-15>	1/1-16	RING OUT CIRCUIT 2
ACL	1/18	ATTENUATION-CONTINUATION-LEVEL	RO.3<00-15>	1/1-16	RING OUT CIRCUIT 3
AMPGT	1/17	AMPLITUDE GREATER THAN	RPLY<0,1>N	1/17	NEGATIVE WIRE OF THE <0,1> REPLY TWIST PAIR CABLE
AMPLT	1/17	AMPLITUDE LESS THAN	RPLY<0,1>P	1/17	POSITIVE WIRE OF THE <0,1> REPLY TWIST PAIR CABLE
CLKEN	1/18	CLOCK ENABLE	RST	1/17	RESET
CLK<0,1>N	1/17	NEGATIVE WIRE OF THE CLOCK <0,1> CABLES	SLCT<0,1>N	1/17	NEGATIVE WIRE OF THE SELECT TWIST PAIR CABLE <0,1>
CLK<0,1>P	1/17	POSITIVE WIRE OF THE CLOCK <0,1> CABLES	SLCT<0,1>P	1/17	POSITIVE WIRE OF THE SELECT TWIST PAIR CABLE <0,1>
CRCLR<00-15>	1/17	CONTINUITY RELAY CLEAR FANOUTS 00 - 15	SC<00-07>	1/17	FANOUTS 0-7 FOR THE STATE BIT 0
CR<00-15>	1/17	CONTINUITY RELAY FANOUTS 00 - 15	SC<10-17>	1/17	FANOUTS 0-7 FOR THE STATE BIT 1
CT	1/18	CONTINUITY TEST FOR TONE CIRCUIT	TBR	1/1	TEST BUS RING
C<00-07>	1/17	CIRCUIT SELECT BIT 0 FANOUTS 0 - 7	TBT	1/1	TEST BUS TIP
C<10-17>	1/17	CIRCUIT SELECT BIT 1 FANOUTS 0 - 7	TCLK<0-7>	1/17	TONE PULSE WIDTH REFERENCE CLOCK FANOUTS 0-7
EN12	1/17	12 KHZ TONE ENABLE	TCT	1/1	TEST CIRCUIT TIP
EN16	1/17	16 KHZ TONE ENABLE	TCR	1/1	TEST CIRCUIT RING
EQ(A,B)	1/18	EQUIPMENT LOCATION BIT A & B	TI.0<00-15>	1/1-16	TIP IN CIRCUIT 0
F40	1/17	40 KHZ CLOCK TEST BIT	TI.1<00-15>	1/1-16	TIP IN CIRCUIT 1
INT2	1/18	TONE INTERRUPT SIGNAL	TI.2<00-15>	1/1-16	TIP IN CIRCUIT 2
LEA<00-15>	1/17	LINE APPLIQUE ENABLE FANOUTS 0 - 15	TI.3<00-15>	1/1-16	TIP IN CIRCUIT 3
MSG<0,1>N	1/17	NEGATIVE WIRE OF THE <0,1> MESSAGE TWIST PAIR	TNCLK	1/18	TONE CLOCK
MSG<0,1>P	1/17	POSITIVE WIRE OF THE <0,1> MESSAGE TWIST PAIR	TNSG	1/17	TONE SIGNAL
NCURPR	1/1	CURRENT PROGRAM RESISTOR NEGATIVE TERMINAL	TN12	1/18	12 KHZ TONE
NINT<0,1>N	1/17	NEGATIVE WIRE OF THE <0,1> INTERRUPT TWIST PAIR	TN16	1/18	16 KHZ TONE
NINT<0,1>P	1/17	POSITIVE WIRE OF THE <0,1> INTERRUPT TWIST PAIR	TO.0<00-15>	1/1-16	TIP OUT CIRCUIT 0
OSC	1/17	OSCILLATOR CLOCK	TO.1<00-15>	1/1-16	TIP OUT CIRCUIT 1
PEOOS	1/17	OUT-OF-SERVICE LIGHT POWER CONTROL	TO.2<00-15>	1/1-16	TIP OUT CIRCUIT 2
PCURPR	1/1	CURRENT PROGRAM RESISTOR POSITIVE TERMINAL	TO.3<00-15>	1/1-16	TIP OUT CIRCUIT 3
PTS1	2/1	PUSH TO START	TRB<0-7>	1/1-16	TONE REFERENCE BUSES 0-7
RBTB<0,1>	1/1	REVERSE BATTERY TEST BUS <0,1>	VAMP	1/18	VARIABLE TONE AMPLITUDE
REFCLK	1/17	REFERENCE CLOCK	V<2,3,5,9>F	1/17	2, 3, 5, 9 VOLT FEEDBACK
RI.0<00-15>	1/1-16	RING IN CIRCUIT 0	V<2,3,5,9>H	1/17	2, 3, 5, 9 TONE VOLTAGES, ACTIVE HIGH
RI.1<00-15>	1/1-16	RING IN CIRCUIT 1			

PERIODIC PULSE METERING UNIT		<table border="1"> <tr> <td>IMG SIZE</td> <td>ISSUE</td> </tr> <tr> <td>12</td> <td>1</td> </tr> </table>	IMG SIZE	ISSUE	12	1
IMG SIZE	ISSUE					
12	1					
BELL LABORATORIES	SD-5X202-01	A#2				

APPARATUS INDEX

LEAD INDEX

APPARATUS INDEX				LEAD INDEX											
EQUIP LOC	APP FIGURE NO. SH NO.	DESIG	APP FIG. NO. SH NO.	DESIG	LOCATION FS/SYM APPFIG EOPT	DESIG	LOCATION FS/SYM CAD	DESIG	LOCATION FS/SYM CAD	DESIG	LOCATION FS/SYM CAD	DESIG	LOCATION FS/SYM CAD		
CIRCUIT PACKS				CIRCUIT PACKS (CONT)				CIRCUIT PACK-CP				LINE UNIT			
04-008	1 C#1		PPMBD13 3 C#1	PPMBD00	1/1 3 04-052	RI.000	1/1 03	TI.001	1/2 03	CLKON	1/17 04	RO.200	1/1 03		
04-028	1 C#1		PPMBD13 3 C#1	PPMBD00	1/1 3 04-052	RI.001	1/2 03	TI.002	1/3 03	CLKOP	1/17 04	RO.201	1/2 03		
04-040	2 C#1		PPMBD14 3 C#1	PPMBD01	1/2 3 04-060	RI.002	1/3 03	TI.003	1/4 03	CLK1N	1/17 04	RO.202	1/3 03		
04-052	3 C#1		PPMBD14 3 C#1	PPMBD01	1/2 3 04-060	RI.003	1/4 03	TI.004	1/5 03	CLK1P	1/17 04	RO.203	1/4 03		
04-052	3 C#1		PPMBD15 3 C#1	PPMBD02	1/3 3 04-068	RI.004	1/5 03	TI.005	1/6 03	MSGON	1/17 04	RO.204	1/5 03		
04-060	3 C#1		PPMBD15 3 C#1	PPMBD02	1/3 3 04-068	RI.005	1/6 03	TI.006	1/7 03	MSGOP	1/17 04	RO.205	1/6 03		
04-060	3 C#1		PPMCON 1 C#1	PPMBD03	1/4 3 04-076	RI.006	1/7 03	TI.007	1/8 03	MSG1N	1/17 04	RO.206	1/7 03		
04-068	3 C#1		PPMTTT 2 C#1	PPMBD03	1/4 3 04-076	RI.007	1/8 03	TI.008	1/9 03	MSG1P	1/17 04	RO.207	1/8 03		
04-068	3 C#1		PPMCONV 1 C#1	PPMBD04	1/5 3 04-084	RI.008	1/9 03	TI.009	1/10 03	WINTON	1/17 04	RO.208	1/9 03		
04-076	3 C#1			PPMBD04	1/5 3 04-084	RI.009	1/10 03	TI.010	1/11 03	WINTOP	1/17 04	RO.209	1/10 03		
04-076	3 C#1			PPMBD05	1/6 3 04-092	RI.010	1/11 03	TI.011	1/12 03	WINT1N	1/17 04	RO.210	1/11 03		
04-084	3 C#1			PPMBD05	1/6 3 04-092	RI.011	1/12 03	TI.012	1/13 03	WINT1P	1/17 04	RO.211	1/12 03		
04-084	3 C#1			PPMBD06	1/7 3 04-100	RI.012	1/13 03	TI.013	1/14 03	RPLYON	1/17 04	RO.212	1/13 03		
04-092	3 C#1			PPMBD06	1/7 3 04-100	RI.013	1/14 03	TI.014	1/15 03	RPLYOP	1/17 04	RO.213	1/14 03		
04-092	3 C#1			PPMBD07	1/8 3 04-108	RI.014	1/15 03	TI.015	1/16 03	RPLY1N	1/17 04	RO.214	1/15 03		
04-100	3 C#1			PPMBD07	1/8 3 04-108	RI.015	1/16 03	TI.100	1/1 03	RPLY1P	1/17 04	RO.215	1/16 03		
04-100	3 C#1			PPMBD08	1/9 3 04-116	RI.100	1/1 03	TI.101	1/2 03	SLCTON	1/17 04	RO.300	1/1 03		
04-108	3 C#1			PPMBD08	1/9 3 04-116	RI.101	1/2 03	TI.102	1/3 03	SLCTOP	1/17 04	RO.301	1/2 03		
04-108	3 C#1			PPMBD09	1/10 3 04-124	RI.102	1/3 03	TI.103	1/4 03	SLCT1N	1/17 04	RO.302	1/3 03		
04-116	3 C#1			PPMBD09	1/10 3 04-124	RI.103	1/4 03	TI.104	1/5 03	SLCT1P	1/17 04	RO.303	1/4 03		
04-116	3 C#1			PPMBD10	1/11 3 04-132	RI.104	1/5 03	TI.105	1/6 03	SUBSCRIBER UNIT					
04-124	3 C#1			PPMBD10	1/11 3 04-132	RI.105	1/6 03	TI.106	1/7 03					RO.304	1/5 03
04-124	3 C#1			PPMBD11	1/12 3 04-140	RI.106	1/7 03	TI.107	1/8 03	RO.305	1/6 03				
04-132	3 C#1			PPMBD11	1/12 3 04-140	RI.107	1/8 03	TI.108	1/9 03	RO.306	1/7 03				
04-132	3 C#1			PPMBD12	1/13 3 04-148	RI.108	1/9 03	TI.109	1/10 03	RO.307	1/8 03				
04-140	3 C#1			PPMBD12	1/13 3 04-148	RI.109	1/10 03	TI.110	1/11 03	RO.000	1/1 03				
04-140	3 C#1			PPMBD13	1/14 3 04-156	RI.110	1/11 03	TI.111	1/12 03	RO.001	1/2 03				
04-148	3 C#1			PPMBD13	1/14 3 04-156	RI.111	1/12 03	TI.112	1/13 03	RO.002	1/3 03				
04-148	3 C#1			PPMBD14	1/15 3 04-164	RI.112	1/13 03	TI.113	1/14 03	RO.003	1/4 03				
04-156	3 C#1			PPMBD14	1/15 3 04-164	RI.113	1/14 03	TI.114	1/15 03	RO.004	1/5 03				
04-156	3 C#1			PPMBD15	1/16 3 04-172	RI.114	1/15 03	TI.115	1/16 03	RO.005	1/6 03				
04-164	3 C#1			PPMBD15	1/16 3 04-172	RI.115	1/16 03	TI.200	1/1 03	RO.006	1/7 03				
04-164	3 C#1			PPMCON	1/17 1 04-028	RI.200	1/1 03	TI.201	1/2 03	RO.007	1/8 03				
04-172	3 C#1			PPMTTT	1/18 2 04-040	RI.201	1/2 03	TI.202	1/3 03	RO.008	1/9 03				
04-172	3 C#1			PPMCONV	2/1 1 04-008	RI.202	1/3 03	TI.203	1/4 03	RO.009	1/10 03				
						RI.203	1/4 03	TI.204	1/5 03	RO.010	1/11 03				
						RI.204	1/5 03	TI.205	1/6 03	RO.011	1/12 03				
						RI.205	1/6 03	TI.206	1/7 03	RO.012	1/13 03				
						RI.206	1/7 03	TI.207	1/8 03	RO.013	1/14 03				
						RI.207	1/8 03	TI.208	1/9 03	RO.014	1/15 03				
						RI.208	1/9 03	TI.209	1/10 03	RO.015	1/16 03				
						RI.209	1/10 03	TI.210	1/11 03	RO.100	1/1 03				
						RI.210	1/11 03	TI.211	1/12 03	RO.101	1/2 03				
						RI.211	1/12 03	TI.212	1/13 03	RO.102	1/3 03				
						RI.212	1/13 03	TI.213	1/14 03	RO.103	1/4 03				
						RI.213	1/14 03	TI.214	1/15 03	RO.104	1/5 03				
						RI.214	1/15 03	TI.215	1/16 03	RO.105	1/6 03				
						RI.215	1/16 03	TI.300	1/1 03	RO.106	1/7 03				
						RI.300	1/1 03	TI.301	1/2 03	RO.107	1/8 03				
						RI.301	1/2 03	TI.302	1/3 03	RO.108	1/9 03				
						RI.302	1/3 03	TI.303	1/4 03	RO.109	1/10 03				
						RI.303	1/4 03	TI.304	1/5 03	RO.110	1/11 03				
						RI.304	1/5 03	TI.305	1/6 03	RO.111	1/12 03				
						RI.305	1/6 03	TI.306	1/7 03	RO.112	1/13 03				
						RI.306	1/7 03	TI.307	1/8 03	RO.113	1/14 03				
						RI.307	1/8 03	TI.308	1/9 03	RO.114	1/15 03				
						RI.308	1/9 03	TI.309	1/10 03	RO.115	1/16 03				
						RI.309	1/10 03	TI.310	1/11 03	TO.000	1/1 03				
						RI.310	1/11 03	TI.311	1/12 03	TO.001	1/2 03				
						RI.311	1/12 03	TI.312	1/13 03	TO.002	1/3 03				
						RI.312	1/13 03	TI.313	1/14 03	TO.003	1/4 03				
						RI.313	1/14 03	TI.314	1/15 03	TO.004	1/5 03				
						RI.314	1/15 03	TI.315	1/16 03	TO.005	1/6 03				
						RI.315	1/16 03	TI.000	1/1 03	TO.006	1/7 03				
						TI.000	1/1 03			TO.007	1/8 03				

ISSUE 1

PERIODIC PULSE METERING UNIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-5X202-01-A#3

ONE SIZE C2

LEAD INDEX (CONT)

DESIG	LOCATION	
	FS/SYM	CAD
SUBSCRIBER UNIT (CONT)		

TO.108	1/9	03
TO.109	1/10	03
TO.110	1/11	03
TO.111	1/12	03

TO.112	1/13	03
TO.113	1/14	03
TO.114	1/15	03
TO.115	1/16	03

TO.200	1/1	03
TO.201	1/2	03
TO.202	1/3	03
TO.203	1/4	03

TO.204	1/5	03
TO.205	1/6	03
TO.206	1/7	03
TO.207	1/8	03

TO.208	1/9	03
TO.209	1/10	03
TO.210	1/11	03
TO.211	1/12	03

TO.212	1/13	03
TO.213	1/14	03
TO.214	1/15	03
TO.215	1/16	03

TO.300	1/1	03
TO.301	1/2	03
TO.302	1/3	03
TO.303	1/4	03

TO.304	1/5	03
TO.305	1/6	03
TO.306	1/7	03
TO.307	1/8	03

TO.308	1/9	03
TO.309	1/10	03
TO.310	1/11	03
TO.311	1/12	03

TO.312	1/13	03
TO.313	1/14	03
TO.314	1/15	03
TO.315	1/16	03

ISSUE
1

PERIODIC PULSE METERING UNIT

SD-5X202-01-A#4

BELL TELEPHONE LABORATORIES
INCORPORATED

DWG. SIZE
C2

PART OF FS I
PERIODIC PULSE METERING

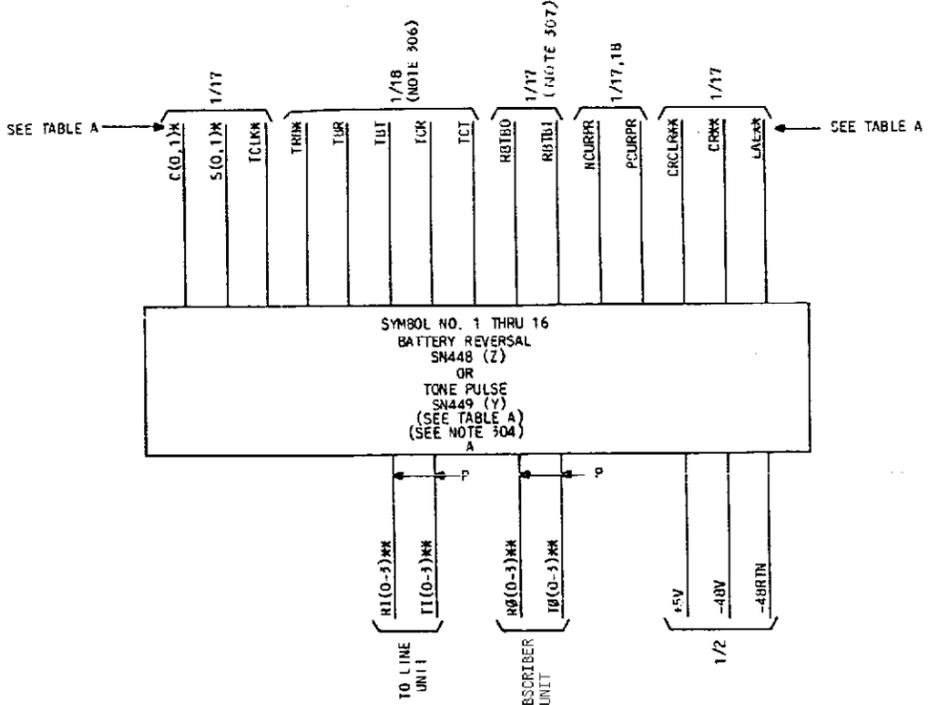
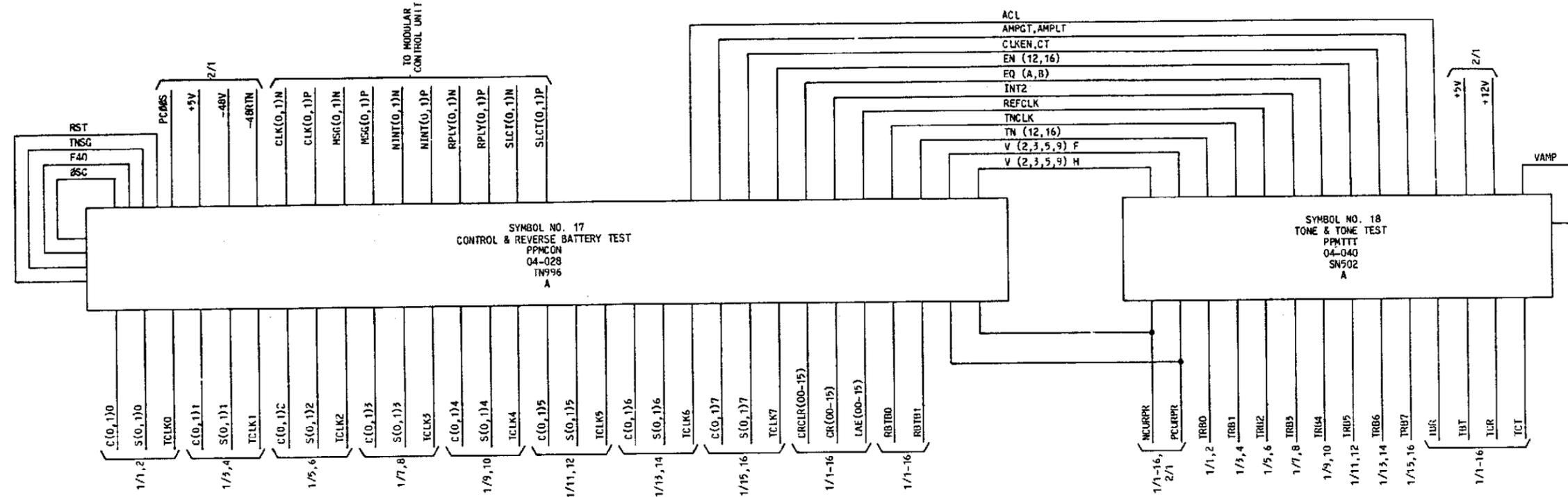


TABLE A

SYMBOL NO.	DESIG	EQPT LOC	*	**
1	PFMB000	04-092	0	00
2	01	04-050	0	01
3	02	04-068	1	02
4	03	04-076	1	03
5	04	04-094	2	04
6	05	04-092	2	05
7	06	04-100	3	06
8	07	04-108	3	07
9	08	04-116	4	08
10	09	04-124	4	09
11	10	04-132	5	10
12	11	04-140	5	11
13	12	04-148	6	12
14	13	04-156	6	13
15	14	04-164	7	14
16	15	04-172	7	15

PERIODIC PULSE METERING UNIT

BELL LABORATORIES SD-5X202-01

DWG SIZE 15

ISSUE 1

SHEET B#1A

PART OF FS 1
PERIODIC PULSE METERING

SYMBOL NO. 1
BATTERY REVERSAL OR TONE PULSE

SYMBOL NO. 1 (CONT)
BATTERY REVERSAL OR TONE PULSE

SYMBOL NO. 2
BATTERY REVERSAL OR TONE PULSE

SYMBOL NO. 2 (CONT)
BATTERY REVERSAL OR TONE PULSE

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
PPMBD00	04-052	SN448	A	(Z)
PPMBD00	04-052	SN449	A	(Y)

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
PPMBD00	04-052	SN448	A	(Z)
PPMBD00	04-052	SN449	A	(Y)

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
PPMBD01	04-060	SN448	A	(Z)
PPMBD01	04-060	SN449	A	(Y)

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
PPMBD01	04-060	SN448	A	(Z)
PPMBD01	04-060	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
NC	(Z)0	BC.0	032		TEST PT	307
	(Z)0	BC.1	033		TEST PT	307
	(Z)0	BC.2	034		TEST PT	307
	(Z)0	BC.3	035		TEST PT	307
	(Z)0	SCN.0	132		TEST PT	307
	(Z)0	SCN.1	133		TEST PT	307
	(Z)0	SCN.2	134		TEST PT	307
	(Z)0	SCN.3	135		TEST PT	307
+5V	PWR	+5V	053		Z/1	307
	PWR	+5V	054		Z/1	
	PWR	+5V	153		Z/1	
	PWR	+5V	154		Z/1	
-48V01	PHR	-48V	023		1/1	
	PHR	-48V	123		1/1	
	PHR	-48V	124		1/1	
	PHR	-48V	024		1/2, 1/3	
					1/4, 1/5	
					1/6, 1/7	
CRCLR00	I	CRCLR	050		1/8	
CR00	I	CR	051		1/17	
					1/17	
C00	I	C0	047		1/17	
C10	I	C1	046		1/17	
GRD04052	(Z)GRD	GRD	000			307
	(Z)GRD	GRD	001			307
	GRD	GRD	043			
	GRD	GRD	045			
	GRD	GRD	055			
	GRD	GRD	056			
	(Z)GRD	GRD	100			307
	(Z)GRD	GRD	101			307
	GRD	GRD	144			
	GRD	GRD	146			
	GRD	GRD	148			
	GRD	GRD	155			
	GRD	GRD	156			
LAE00	I	LAE	044		1/17	
NCLRPR	I	NCLRPR	149		1/18	
PCURPR	I	PCURPR	150		1/18	
RBT80	(Z)OT	RBT80	139		1/2, 1/3	307
					1/4, 1/5	
					1/6, 1/7	
					1/8, 1/9	
					1/10, 1/11	
					1/12, 1/13	
					1/14, 1/15	
					1/16	
					1/17	
RBT81	(Z)OT	RBT81	039		1/2, 1/3	307
					1/4, 1/5	
					1/6, 1/7	
					1/8, 1/9	
					1/10, 1/11	
					1/12, 1/13	
					1/14, 1/15	
					1/16	
					1/17	
RI.000	I	RI.0	015		TO LINE UNIT	P/RI.000
RI.100	I	RI.1	016		TO LINE UNIT	P/RI.100
RI.200	I	RI.2	017		TO LINE UNIT	P/RI.200
RI.300	I	RI.3	018		TO LINE UNIT	P/RI.300
RO.000	0	RO.0	002		TO SUBSCRIBER UNIT	P/TO.000
RO.100	0	RO.1	003		TO SUBSCRIBER UNIT	P/TO.100
RO.200	0	RO.2	004		TO SUBSCRIBER UNIT	P/TO.200

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
RD.300	0	RO.3	005		TO SUBSCRIBER UNIT	P/TO.300
S00	I	S0	049		1/17	
S10	I	S1	048		1/17	
TBR	(Y)OT	TBR	038		1/2, 1/3	306
					1/4, 1/5	
					1/6, 1/7	
					1/8, 1/9	
					1/10, 1/11	
					1/12, 1/13	
					1/14, 1/15	
					1/16	
					1/18	
TBT	(Y)OT	TBT	138		1/2, 1/3	306
					1/4, 1/5	
					1/6, 1/7	
					1/8, 1/9	
					1/10, 1/11	
					1/12, 1/13	
					1/14, 1/15	
					1/16	
					1/18	
TCLK0	I	TCLK	042		1/17	
TCR	(Y)OT	TCR	040		1/2, 1/3	306
					1/4, 1/5	
					1/6, 1/7	
					1/8, 1/9	
					1/10, 1/11	
					1/12, 1/13	
					1/14, 1/15	
					1/16	
					1/18	
TCT	(Y)OT	TCT	140		1/2, 1/3	306
					1/4, 1/5	
					1/6, 1/7	
					1/8, 1/9	
					1/10, 1/11	
					1/12, 1/13	
					1/14, 1/15	
					1/16, 1/18	
TI.000	I	TI.0	115		TO LINE UNIT	P/RI.000
TI.100	I	TI.1	116		TO LINE UNIT	P/RI.100
TI.200	I	TI.2	117		TO LINE UNIT	P/RI.200
TI.300	I	TI.3	118		TO LINE UNIT	P/RI.300
TD.000	0	TD.0	102		TO SUBSCRIBER UNIT	P/RO.000
TD.100	0	TD.1	103		TO SUBSCRIBER UNIT	P/RO.100
TD.200	0	TD.2	104		TO SUBSCRIBER UNIT	P/RO.200
TD.300	0	TD.3	105		TO SUBSCRIBER UNIT	P/RO.300
TR80	(Y)I	TR8	137		1/18	306

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
NC	(Z)0	BC.0	032		TEST PT	307
	(Z)0	BC.1	033		TEST PT	307
	(Z)0	BC.2	034		TEST PT	307
	(Z)0	BC.3	035		TEST PT	307
	(Z)0	SCN.0	132		TEST PT	307
	(Z)0	SCN.1	133		TEST PT	307
	(Z)0	SCN.2	134		TEST PT	307
	(Z)0	SCN.3	135		TEST PT	307
+5V	PWR	+5V	053		Z/1	
	PWR	+5V	054		Z/1	
	PWR	+5V	153		Z/1	
	PWR	+5V	154		Z/1	
-48V01	PHR	-48V	023		1/1	
	PHR	-48V	024		1/1	
	PHR	-48V	123		1/1	
	PHR	-48V	124		1/1	
CRCLR01	I	CRCLR	050		1/17	
CR01	I	CR	051		1/17	
C00	I	C0	047		1/17	
C10	I	C1	046		1/17	
GRD04060	(Z)GRD	GRD	000			307
	(Z)GRD	GRD	001			307
	GRD	GRD	043			
	GRD	GRD	045			
	GRD	GRD	055			
	GRD	GRD	056			
	(Z)GRD	GRD	100			307
	(Z)GRD	GRD	101			307
	GRD	GRD	144			
	GRD	GRD	146			
	GRD	GRD	148			
	GRD	GRD	155			
	GRD	GRD	156			
LAE01	I	LAE	044		1/17	
NCLRPR	I	NCLRPR	149		1/18	
PCURPR	I	PCURPR	150		1/18	
RBT80	(Z)OT	RBT80	139		1/1	307
RBT81	(Z)OT	RBT81	039		1/1	307
RI.001	I	RI.0	015		TO LINE UNIT	P/RI.001
RI.101	I	RI.1	016		TO LINE UNIT	P/RI.101
RI.201	I	RI.2	017		TO LINE UNIT	P/RI.201
RI.301	I	RI.3	018		TO LINE UNIT	P/RI.301
RO.001	0	RO.0	002		TO SUBSCRIBER UNIT	P/TO.001
RO.101	0	RO.1	003		TO SUBSCRIBER UNIT	P/TO.101
RO.201	0	RO.2	004		TO SUBSCRIBER UNIT	P/TO.201
RO.301	0	RO.3	005		TO SUBSCRIBER UNIT	P/TO.301
S00	I	S0	049		1/17	
S10	I	S1	048		1/17	
TBR	(Y)OT	TBR	038		1/1	306
TBT	(Y)OT	TBT	138		1/1	306
TCLK0	I	TCLK	042		1/17	
TCR	(Y)OT	TCR	040		1/1	306
TCT	(Y)OT	TCT	140		1/1	306
TI.001	I	TI.0	115		TO LINE UNIT	P/RI.001
TI.101	I	TI.1	116		TO LINE UNIT	P/RI.101
TI.201	I	TI.2	117		TO LINE UNIT	P/RI.201
TI.301	I	TI.3	118		TO LINE UNIT	P/RI.301

PART OF FS 1
SYMBOL(S) 1 2

PERIODIC PULSE METERING UNIT		DWG SIZE	ISSUE
		2	1
BELL LABORATORIES	SD-5X202-01	B#1CA	

PART OF FS 1
PERIODIC PULSE METERING

SYMBOL NO. 3
BATTERY REVERSAL OR TONE PULSE

SYMBOL NO. 3 (CONT)
BATTERY REVERSAL OR TONE PULSE

SYMBOL NO. 4 (CONT)
BATTERY REVERSAL OR TONE PULSE

SYMBOL NO. 5 (CONT)
BATTERY REVERSAL OR TONE PULSE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMB002	04-068	SN448	A	(Z)
PPMB002	04-068	SN449	A	(Y)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMB002	04-068	SN448	A	(Z)
PPMB002	04-068	SN449	A	(Y)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMB003	04-076	SN448	A	(Z)
PPMB003	04-076	SN449	A	(Y)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMB004	04-084	SN448	A	(Z)
PPMB004	04-084	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
NC	(Z)0	BC.0	032		TEST PT	307
	(Z)0	BC.1	033		TEST PT	307
	(Z)0	BC.2	034		TEST PT	307
	(Z)0	BC.3	035		TEST PT	307
	(Z)0	SCN.0	132		TEST PT	307
	(Z)0	SCN.1	133		TEST PT	307
+5V	(Z)0	SCN.2	134		TEST PT	307
	(Z)0	SCN.3	135		TEST PT	307
	PWR	+5V	053		2/1	
	PWR	+5V	054		2/1	
	PWR	+5V	153		2/1	
	PWR	+5V	154		2/1	
-48V01	PWR	-48V	023		1/1	
	PWR	-48V	024		1/1	
	PWR	-48V	123		1/1	
ERCLR02	PWR	-48V	124		1/1	
CR02	I	ERCLR	050		1/17	
	I	CR	051		1/17	
C01	I	C0	047		1/17	
C11	I	C1	046		1/17	
GRD04068	(Z)GRD	GRD	000			307
	(Z)GRD	GRD	001			307
	GRD	GRD	043			
	GRD	GRD	045			
	GRD	GRD	055			
	(Z)GRD	GRD	056			307
	(Z)GRD	GRD	100			
	(Z)GRD	GRD	101			307
	GRD	GRD	144			
	GRD	GRD	146			
	GRD	GRD	148			
	GRD	GRD	155			
	GRD	GRD	156			
LAE02	I	LAE	044		1/17	
NCURPR	I	NCURPR	149		1/18	
PCURPR	I	PCURPR	150		1/18	
RBTB0	(Z)OT	RBTB0	139		1/1	307
RBTB1	(Z)OT	RBTB1	039		1/1	307
RI.002	I	RI.0	015		TO LINE UNIT	P/TI.002
RI.102	I	RI.1	016		TO LINE UNIT	P/TI.102
RI.202	I	RI.2	017		TO LINE UNIT	P/TI.202
RI.302	I	RI.3	018		TO LINE UNIT	P/TI.302
RO.002	O	RO.0	002		TO SUBSCRIBER UNIT	P/TO.002
RO.102	O	RO.1	003		TO SUBSCRIBER UNIT	P/TO.102
RO.202	O	RO.2	004		TO SUBSCRIBER UNIT	P/TO.202
RO.302	O	RO.3	005		TO SUBSCRIBER UNIT	P/TO.302
S01	I	S0	049		1/17	
S11	I	S1	048		1/17	
TBR	(Y)OT	TBR	038		1/1	306
TBT	(Y)OT	TBT	138		1/1	306
TCLK1	I	TCLK	042		1/17	
TCR	(Y)OT	TCR	040		1/1	306
TCT	(Y)OT	TCT	140		1/1	306
TI.002	I	TI.0	115		TO LINE UNIT	P/RI.002
TI.102	I	TI.1	116		TO LINE UNIT	P/RI.102
TI.202	I	TI.2	117		TO LINE UNIT	P/RI.202
TI.302	I	TI.3	118		TO LINE UNIT	P/RI.302

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
TO.002	O	TO.0	102		TO SUBSCRIBER UNIT	P/RO.002
TO.102	O	TO.1	103		TO SUBSCRIBER UNIT	P/RO.102
TO.202	O	TO.2	104		TO SUBSCRIBER UNIT	P/RO.202
TO.302	O	TO.3	105		TO SUBSCRIBER UNIT	P/RO.302
TRB1	(Y)I	TRB	137		1/18	306

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMB003	04-076	SN448	A	(Z)
PPMB003	04-076	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
NC	(Z)0	BC.0	032		TEST PT	307
	(Z)0	BC.1	033		TEST PT	307
	(Z)0	BC.2	034		TEST PT	307
	(Z)0	BC.3	035		TEST PT	307
	(Z)0	SCN.0	132		TEST PT	307
	(Z)0	SCN.1	133		TEST PT	307
	(Z)0	SCN.2	134		TEST PT	307
	(Z)0	SCN.3	135		TEST PT	307
+5V	PWR	+5V	053		2/1	
	PWR	+5V	054		2/1	
	PWR	+5V	153		2/1	
	PWR	+5V	154		2/1	
-48V01	PWR	-48V	023		1/1	
	PWR	-48V	024		1/1	
	PWR	-48V	123		1/1	
ERCLR03	PWR	-48V	124		1/1	
CR03	I	ERCLR	050		1/17	
	I	CR	051		1/17	
C01	I	C0	047		1/17	
C11	I	C1	046		1/17	
GRD04076	(Z)GRD	GRD	000			307
	(Z)GRD	GRD	001			307
	GRD	GRD	043			
	GRD	GRD	045			
	GRD	GRD	055			
	(Z)GRD	GRD	056			307
	(Z)GRD	GRD	100			
	(Z)GRD	GRD	101			307
	GRD	GRD	144			
	GRD	GRD	146			
	GRD	GRD	148			
	GRD	GRD	155			
	GRD	GRD	156			
LAE03	I	LAE	044		1/17	
NCURPR	I	NCURPR	149		1/18	
PCURPR	I	PCURPR	150		1/18	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
RBTB0	(Z)OT	RBTB0	139		1/1	307
RBTB1	(Z)OT	RBTB1	039		1/1	307
RI.003	I	RI.0	015		TO LINE UNIT	P/TI.003
RI.103	I	RI.1	016		TO LINE UNIT	P/TI.103
RI.203	I	RI.2	017		TO LINE UNIT	P/TI.203
RI.303	I	RI.3	018		TO LINE UNIT	P/TI.303
RO.003	O	RO.0	002		TO SUBSCRIBER UNIT	P/TO.003
RO.103	O	RO.1	003		TO SUBSCRIBER UNIT	P/TO.103
RO.203	O	RO.2	004		TO SUBSCRIBER UNIT	P/TO.203
RO.303	O	RO.3	005		TO SUBSCRIBER UNIT	P/TO.303
S01	I	S0	049		1/17	
S11	I	S1	048		1/17	
TBR	(Y)OT	TBR	038		1/1	306
TBT	(Y)OT	TBT	138		1/1	306
TCLK1	I	TCLK	042		1/17	
TCR	(Y)OT	TCR	040		1/1	306
TCT	(Y)OT	TCT	140		1/1	306
TI.003	I	TI.0	115		TO LINE UNIT	P/RI.003
TI.103	I	TI.1	116		TO LINE UNIT	P/RI.103
TI.203	I	TI.2	117		TO LINE UNIT	P/RI.203
TI.303	I	TI.3	118		TO LINE UNIT	P/RI.303
TO.003	O	TO.0	102		TO SUBSCRIBER UNIT	P/RO.003
TO.103	O	TO.1	103		TO SUBSCRIBER UNIT	P/RO.103
TO.203	O	TO.2	104		TO SUBSCRIBER UNIT	P/RO.203
TO.303	O	TO.3	105		TO SUBSCRIBER UNIT	P/RO.303
TRB1	(Y)I	TRB	137		1/18	306

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-48V01	PWR	-48V	023		1/1	
	PWR	-48V	024		1/1	
	PWR	-48V	123		1/1	
ERCLR04	PWR	-48V	124		1/1	
CR04	I	ERCLR	050		1/17	
	I	CR	051		1/17	
C02	I	C0	047		1/17	
C12	I	C1	046		1/17	
GRD04084	(Z)GRD	GRD	000			307
	(Z)GRD	GRD	001			307
	GRD	GRD	043			
	GRD	GRD	045			
	GRD	GRD	055			
	(Z)GRD	GRD	056			307
	(Z)GRD	GRD	100			
	(Z)GRD	GRD	101			307
	GRD	GRD	144			
	GRD	GRD	146			
	GRD	GRD	148			
	GRD	GRD	155			
	GRD	GRD	156			
LAE04	I	LAE	044		1/17	
NCURPR	I	NCURPR	149		1/18	
PCURPR	I	PCURPR	150		1/18	
RBTB0	(Z)OT	RBTB0	139		1/1	307
RBTB1	(Z)OT	RBTB1	039		1/1	307
RI.004	I	RI.0	015		TO LINE UNIT	P/TI.004
RI.104	I	RI.1	016		TO LINE UNIT	P/TI.104
RI.204	I	RI.2	017		TO LINE UNIT	P/TI.204
RI.304	I	RI.3	018		TO LINE UNIT	P/TI.304
RO.004	O	RO.0	002		TO SUBSCRIBER UNIT	P/TO.004
RO.104	O	RO.1	003		TO SUBSCRIBER UNIT	P/TO.104
RO.204	O	RO.2	004		TO SUBSCRIBER UNIT	P/TO.204
RO.304	O	RO.3	005		TO SUBSCRIBER UNIT	P/TO.304
S02	I	S0	049		1/17	
S12	I	S1	048		1/17	
TBR	(Y)OT	TBR	038		1/1	306
TBT	(Y)OT	TBT	138		1/1	306
TCLK2	I	TCLK	042		1/17	
TCR	(Y)OT	TCR	040		1/1	306
TCT	(Y)OT	TCT	140		1/1	306
TI.004	I	TI.0	115		TO LINE UNIT	P/RI.004
TI.104	I	TI.1	116		TO LINE UNIT	P/RI.104
TI.204	I	TI.2	117		TO LINE UNIT	P/RI.204
TI.304	I	TI.3	118		TO LINE UNIT	P/RI.304
TO.004	O	TO.0	102		TO SUBSCRIBER UNIT	P/RO.004

PART OF FS 1
SYMBOL(S) 3 4 5

PERIODIC PULSE METERING UNIT		DWG SIZE</
------------------------------	--	------------

PART OF FS 1
PERIODIC PULSE METERING

SYMBOL NO. 5 (CONT)
BATTERY REVERSAL OR TONE PULSE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMBD04	04-084	SN448	A	(Z)
PPMBD04	04-084	SN449	A	(Y)

SYMBOL NO. 6 (CONT)
BATTERY REVERSAL OR TONE PULSE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMBD05	04-092	SN448	A	(Z)
PPMBD05	04-092	SN449	A	(Y)

SYMBOL NO. 7 (CONT)
BATTERY REVERSAL OR TONE PULSE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMBD06	04-100	SN448	A	(Z)
PPMBD06	04-100	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
TO.104	0	TO.1	103		UNIT TO SUBSCRIBER	P/RO.104
TO.204	0	TO.2	104		UNIT TO SUBSCRIBER	P/RO.204
TO.304	0	TO.3	105		UNIT TO SUBSCRIBER	P/RO.304
TRB2	(Y)I	TRB	137		UNIT 1/18	306

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
RBTB0	(Z)OT	RBTB0	139		1/1	307
RBTB1	(Z)OT	RBTB1	039		1/1	307
RI.005	I	RI.0	015		TO LINE UNIT	P/TI.005
RI.105	I	RI.1	016		TO LINE UNIT	P/TI.105
RI.205	I	RI.2	017		TO LINE UNIT	P/TI.205
RI.305	I	RI.3	018		TO LINE UNIT	P/TI.305
RO.005	0	RO.0	002		TO SUBSCRIBER UNIT	P/TO.005
RO.105	0	RO.1	003		TO SUBSCRIBER UNIT	P/TO.105
RO.205	0	RO.2	004		TO SUBSCRIBER UNIT	P/TO.205
RO.305	0	RO.3	005		TO SUBSCRIBER UNIT	P/TO.305
S02	I	S0	049		1/17	
S12	I	S1	048		1/17	
TBR	(Y)OT	TBR	038		1/1	306
TBT	(Y)OT	TBT	138		1/1	306
TCLK2	I	TCLK	042		1/17	
TCR	(Y)OT	TCR	040		1/1	306
TCT	(Y)OT	TCT	140		1/1	306
TI.005	I	TI.0	115		TO LINE UNIT	P/RI.005
TI.105	I	TI.1	116		TO LINE UNIT	P/RI.105
TI.205	I	TI.2	117		TO LINE UNIT	P/RI.205
TI.305	I	TI.3	118		TO LINE UNIT	P/RI.305
TO.005	0	TO.0	102		TO SUBSCRIBER UNIT	P/RO.005
TO.105	0	TO.1	103		TO SUBSCRIBER UNIT	P/RO.105
TO.205	0	TO.2	104		TO SUBSCRIBER UNIT	P/RO.205
TO.305	0	TO.3	105		TO SUBSCRIBER UNIT	P/RO.305
TRB2	(Y)I	TRB	137		UNIT 1/18	306

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-48V01	PWR	-48V	023		1/1	
	PWR	-48V	024		1/1	
	PWR	-48V	123		1/1	
CRCLR06	I	CRCLR	050		1/17	
CR06	I	CR	051		1/17	
C03	I	C0	047		1/17	
C13	I	C1	046		1/17	
GRD04100	(Z)GRD	GRD	000			307
	(Z)GRD	GRD	001			307
	GRD	GRD	043			
	GRD	GRD	045			
	GRD	GRD	055			
	GRD	GRD	056			
	(Z)GRD	GRD	100			307
	(Z)GRD	GRD	101			307
	GRD	GRD	144			
	GRD	GRD	146			
	GRD	GRD	148			
	GRD	GRD	155			
	GRD	GRD	156			
LAE06	I	LAE	044		1/17	
NCURPR	I	NCURPR	149		1/18	
PCURPR	I	PCURPR	150		1/18	
RBTB0	(Z)OT	RBTB0	139		1/1	307
RBTB1	(Z)OT	RBTB1	039		1/1	307
RI.006	I	RI.0	015		TO LINE UNIT	P/TI.006
RI.106	I	RI.1	016		TO LINE UNIT	P/TI.106
RI.206	I	RI.2	017		TO LINE UNIT	P/TI.206
RI.306	I	RI.3	018		TO LINE UNIT	P/TI.306
RO.006	0	RO.0	002		TO SUBSCRIBER UNIT	P/TO.006
RO.106	0	RO.1	003		TO SUBSCRIBER UNIT	P/TO.106
RO.206	0	RO.2	004		TO SUBSCRIBER UNIT	P/TO.206
RO.306	0	RO.3	005		TO SUBSCRIBER UNIT	P/TO.306
S03	I	S0	049		1/17	
S13	I	S1	048		1/17	
TBR	(Y)OT	TBR	038		1/1	306
TBT	(Y)OT	TBT	138		1/1	306
TCLK3	I	TCLK	042		1/17	
TCR	(Y)OT	TCR	040		1/1	306
TCT	(Y)OT	TCT	140		1/1	306
TI.006	I	TI.0	115		TO LINE UNIT	P/RI.006
TI.106	I	TI.1	116		TO LINE UNIT	P/RI.106
TI.206	I	TI.2	117		TO LINE UNIT	P/RI.206
TI.306	I	TI.3	118		TO LINE UNIT	P/RI.306
TO.006	0	TO.0	102		TO SUBSCRIBER UNIT	P/RO.006
TO.106	0	TO.1	103		TO SUBSCRIBER UNIT	P/RO.106
TO.206	0	TO.2	104		TO SUBSCRIBER UNIT	P/RO.206
TO.306	0	TO.3	105		TO SUBSCRIBER UNIT	P/RO.306
TRB3	(Y)I	TRB	137		UNIT 1/18	306

SYMBOL NO. 6
BATTERY REVERSAL OR TONE PULSE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMBD05	04-092	SN448	A	(Z)
PPMBD05	04-092	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
NC	(Z)O	BC.0	032		TEST PT	307
	(Z)O	BC.1	033		TEST PT	307
	(Z)O	BC.2	034		TEST PT	307
	(Z)O	BC.3	035		TEST PT	307
	(Z)O	SCN.0	132		TEST PT	307
	(Z)O	SCN.1	133		TEST PT	307
	(Z)O	SCN.2	134		TEST PT	307
	(Z)O	SCN.3	135		TEST PT	307
+5V	PWR	+5V	053		TEST PT 2/1	
	PWR	+5V	054		2/1	
	PWR	+5V	153		2/1	
	PWR	+5V	154		2/1	
-48V01	PWR	-48V	023		1/1	
	PWR	-48V	024		1/1	
	PWR	-48V	123		1/1	
CRCLR05	I	CRCLR	050		1/17	
CR05	I	CR	051		1/17	
C02	I	C0	047		1/17	
C12	I	C1	046		1/17	
GRD04092	(Z)GRD	GRD	000			307
	(Z)GRD	GRD	001			307
	GRD	GRD	043			
	GRD	GRD	045			
	GRD	GRD	055			
	GRD	GRD	056			
	(Z)GRD	GRD	100			307
	(Z)GRD	GRD	101			307
	GRD	GRD	144			
	GRD	GRD	146			
	GRD	GRD	148			
	GRD	GRD	155			
	GRD	GRD	156			
LAE05	I	LAE	044		1/17	
NCURPR	I	NCURPR	149		1/18	
PCURPR	I	PCURPR	150		1/18	

SYMBOL NO. 7
BATTERY REVERSAL OR TONE PULSE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMBD06	04-100	SN448	A	(Z)
PPMBD06	04-100	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
NC	(Z)O	BC.0	032		TEST PT	307
	(Z)O	BC.1	033		TEST PT	307
	(Z)O	BC.2	034		TEST PT	307
	(Z)O	BC.3	035		TEST PT	307
	(Z)O	SCN.0	132		TEST PT	307
	(Z)O	SCN.1	133		TEST PT	307
	(Z)O	SCN.2	134		TEST PT	307
	(Z)O	SCN.3	135		TEST PT	307
+5V	PWR	+5V	053		TEST PT 2/1	
	PWR	+5V	054		2/1	
	PWR	+5V	153		2/1	
	PWR	+5V	154		2/1	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
TI.106	I	TI.1	116		TO LINE UNIT	P/RI.106
TI.206	I	TI.2	117		TO LINE UNIT	P/RI.206
TI.306	I	TI.3	118		TO LINE UNIT	P/RI.306
TO.006	0	TO.0	102		TO SUBSCRIBER UNIT	P/RO.006
TO.106	0	TO.1	103		TO SUBSCRIBER UNIT	P/RO.106
TO.206	0	TO.2	104		TO SUBSCRIBER UNIT	P/RO.206
TO.306	0	TO.3	105		TO SUBSCRIBER UNIT	P/RO.306
TRB3	(Y)I	TRB	137		UNIT 1/18	306

PART OF FS 1
SYMBOL(S) 5 6 7

PERIODIC PULSE METERING UNIT		DWG SIZE	ISSUE
		02	1
BELL LABORATORIES	SD-5X202-01	B#1CC	

PART OF FS 1
PERIODIC PULSE METERING

SYMBOL NO. 8
BATTERY REVERSAL OR TONE PULSE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMBD07	04-108	SN448	A	(Z)
PPMBD07	04-108	SN449	A	(Y)

SYMBOL NO. 8 (CONT)
BATTERY REVERSAL OR TONE PULSE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMBD07	04-108	SN448	A	(Z)
PPMBD07	04-108	SN449	A	(Y)

SYMBOL NO. 9 (CONT)
BATTERY REVERSAL OR TONE PULSE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMBD08	04-116	SN448	A	(Z)
PPMBD08	04-116	SN449	A	(Y)

SYMBOL NO. 10 (CONT)
BATTERY REVERSAL OR TONE PULSE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMBD09	04-124	SN448	A	(Z)
PPMBD09	04-124	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
NC	(Z)0	BC.0	032		TEST PT	307
	(Z)0	BC.1	033		TEST PT	307
	(Z)0	BC.2	034		TEST PT	307
	(Z)0	BC.3	035		TEST PT	307
	(Z)0	SCN.0	132		TEST PT	307
	(Z)0	SCN.1	133		TEST PT	307
	(Z)0	SCN.2	134		TEST PT	307
	(Z)0	SCN.3	135		TEST PT	307
+5V	PWR	+5V	053		TEST PT	2/1
	PWR	+5V	054		2/1	
	PWR	+5V	153		2/1	
	PWR	+5V	154		2/1	
-48V01	PWR	-48V	023		1/1	
	PWR	-48V	024		1/1	
	PWR	-48V	123		1/1	
CRCLR07	I	CRCLR	050		1/17	
CR07	I	CR	051		1/17	
C03	I	C0	047		1/17	
E13	I	C1	046		1/17	
GRD04108	(Z)GRD	GRD	000			307
	(Z)GRD	GRD	001			307
	GRD	GRD	043			
	GRD	GRD	045			
	GRD	GRD	055			
	GRD	GRD	056			
	(Z)GRD	GRD	100			307
	(Z)GRD	GRD	101			307
	GRD	GRD	144			
	GRD	GRD	146			
	GRD	GRD	148			
	GRD	GRD	155			
	GRD	GRD	156			
LAE07	I	LAE	044		1/17	
NCURPR	I	NCURPR	149		1/18	
PCURPR	I	PCURPR	150		1/18	
RBT80	(Z)OT	RBT80	139		1/1	307
RBT81	(Z)OT	RBT81	039		1/1	307
RI.007	I	RI.0	015		TO LINE UNIT	P/RI.007
RI.107	I	RI.1	016		TO LINE UNIT	P/RI.107
RI.207	I	RI.2	017		TO LINE UNIT	P/RI.207
RI.307	I	RI.3	018		TO LINE UNIT	P/RI.307
RO.007	O	RO.0	002		TO SUBSCRIBER UNIT	P/TO.007
RO.107	O	RO.1	003		TO SUBSCRIBER UNIT	P/TO.107
RO.207	O	RO.2	004		TO SUBSCRIBER UNIT	P/TO.207
RO.307	O	RO.3	005		TO SUBSCRIBER UNIT	P/TO.307
S03	I	S0	049		1/17	
S13	I	S1	048		1/17	
TBR	(Y)OT	TBR	038		1/1	306
TBT	(Y)OT	TBT	138		1/1	306
TCLK3	I	TCLK	042		1/17	
TCT	(Y)OT	TCT	040		1/1	306
TCT	(Y)OT	TCT	140		1/1	306
TI.007	I	TI.0	115		TO LINE UNIT	P/RI.007
TI.107	I	TI.1	116		TO LINE UNIT	P/RI.107
TI.207	I	TI.2	117		TO LINE UNIT	P/RI.207
TI.307	I	TI.3	118		TO LINE UNIT	P/RI.307

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
TO.007	O	TO.0	102		TO SUBSCRIBER UNIT	P/RO.007
TO.107	O	TO.1	103		TO SUBSCRIBER UNIT	P/RO.107
TO.207	O	TO.2	104		TO SUBSCRIBER UNIT	P/RO.207
TO.307	O	TO.3	105		TO SUBSCRIBER UNIT	P/RO.307
TRB3	(Y)I	TRB	137		1/18	306

SYMBOL NO. 9
BATTERY REVERSAL OR TONE PULSE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMBD08	04-116	SN448	A	(Z)
PPMBD08	04-116	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
NC	(Z)0	BC.0	032		TEST PT	307
	(Z)0	BC.1	033		TEST PT	307
	(Z)0	BC.2	034		TEST PT	307
	(Z)0	BC.3	035		TEST PT	307
	(Z)0	SCN.0	132		TEST PT	307
	(Z)0	SCN.1	133		TEST PT	307
	(Z)0	SCN.2	134		TEST PT	307
	(Z)0	SCN.3	135		TEST PT	307
+5V	PWR	+5V	053		2/1	
	PWR	+5V	054		2/1	
	PWR	+5V	153		2/1	
	PWR	+5V	154		2/1	
-48V02	PWR	-48V	023		1/9	
	PWR	-48V	123		1/9	
	PWR	-48V	124		1/9	
	PWR	-48V	024		1/10, 1/11	
					1/12, 1/13	
					1/14, 1/15	
					1/16	
CRCLR08	I	CRCLR	050		1/17	
CR08	I	CR	051		1/17	
E04	I	E0	047		1/17	
E14	I	E1	046		1/17	
GRD04116	(Z)GRD	GRD	000			307
	(Z)GRD	GRD	001			307
	GRD	GRD	043			
	GRD	GRD	045			
	GRD	GRD	055			
	GRD	GRD	056			
	(Z)GRD	GRD	100			307
	(Z)GRD	GRD	101			307
	GRD	GRD	144			
	GRD	GRD	146			
	GRD	GRD	148			
	GRD	GRD	155			
	GRD	GRD	156			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
LAE08	I	LAE	044		1/17	
NCURPR	I	NCURPR	149		1/18	
PCURPR	I	PCURPR	150		1/18	
RBT80	(Z)OT	RBT80	139		1/1	307
RBT81	(Z)OT	RBT81	039		1/1	307
RI.008	I	RI.0	015		TO LINE UNIT	P/RI.008
RI.108	I	RI.1	016		TO LINE UNIT	P/RI.108
RI.208	I	RI.2	017		TO LINE UNIT	P/RI.208
RI.308	I	RI.3	018		TO LINE UNIT	P/RI.308
RO.008	O	RO.0	002		TO SUBSCRIBER UNIT	P/TO.008
RO.108	O	RO.1	003		TO SUBSCRIBER UNIT	P/TO.108
RO.208	O	RO.2	004		TO SUBSCRIBER UNIT	P/TO.208
RO.308	O	RO.3	005		TO SUBSCRIBER UNIT	P/TO.308
S04	I	S0	049		1/17	
S14	I	S1	048		1/17	
TBR	(Y)OT	TBR	038		1/1	306
TBT	(Y)OT	TBT	138		1/1	306
TCLK4	I	TCLK	042		1/17	
TCT	(Y)OT	TCT	040		1/1	306
TCT	(Y)OT	TCT	140		1/1	306
TI.008	I	TI.0	115		TO LINE UNIT	P/RI.008
TI.108	I	TI.1	116		TO LINE UNIT	P/RI.108
TI.208	I	TI.2	117		TO LINE UNIT	P/RI.208
TI.308	I	TI.3	118		TO LINE UNIT	P/RI.308
TO.008	O	TO.0	102		TO SUBSCRIBER UNIT	P/RO.008
TO.108	O	TO.1	103		TO SUBSCRIBER UNIT	P/RO.108
TO.208	O	TO.2	104		TO SUBSCRIBER UNIT	P/RO.208
TO.308	O	TO.3	105		TO SUBSCRIBER UNIT	P/RO.308
TRB4	(Y)I	TRB	137		1/18	306

SYMBOL NO. 10
BATTERY REVERSAL OR TONE PULSE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMBD09	04-124	SN448	A	(Z)
PPMBD09	04-124	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
NC	(Z)0	BC.0	032		TEST PT	307
	(Z)0	BC.1	033		TEST PT	307
	(Z)0	BC.2	034		TEST PT	307
	(Z)0	BC.3	035		TEST PT	307
	(Z)0	SCN.0	132		TEST PT	307
	(Z)0	SCN.1	133		TEST PT	307
	(Z)0	SCN.2	134		TEST PT	307
	(Z)0	SCN.3	135		TEST PT	307
+5V	PWR	+5V	053		2/1	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
	PWR	+5V	054		2/1	
	PWR	+5V	153		2/1	
	PWR	+5V	154		2/1	
-48V02	PWR	-48V	023		1/9	
	PWR	-48V	024		1/9	
	PWR	-48V	123		1/9	
	PWR	-48V	124		1/9	
CRCLR09	I	CRCLR	050		1/17	
CR09	I	CR	051		1/17	
C04	I	C0	047		1/17	
E14	I	E1	046		1/17	
GRD04124	(Z)GRD	GRD	000			307
	(Z)GRD	GRD	001			307
	GRD	GRD	043			
	GRD	GRD	045			
	GRD	GRD	055			
	GRD	GRD	056			
	(Z)GRD	GRD	100			307
	(Z)GRD	GRD	101			307
	GRD	GRD	144			
	GRD	GRD	146			
	GRD	GRD	148			
	GRD	GRD	155			
	GRD	GRD	156			
LAE09	I	LAE	044		1/17	
NCURPR	I	NCURPR	149		1/18	
PCURPR	I	PCURPR	150		1/18	
RBT80	(Z)OT	RBT80	139		1/1	307
RBT81	(Z)OT	RBT81	039		1/1	307
RI.009	I	RI.0	015		TO LINE UNIT	P/RI.009
RI.109	I	RI.1	016		TO LINE UNIT	P/RI.109

PART OF FS 1
PERIODIC PULSE METERING

SYMBOL NO. 10 (CONT)
BATTERY REVERSAL OR TONE PULSE

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
PPMBD09	04-124	SN448	A	(Z)
PPMBD09	04-124	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
TI.209	I	TI.2	117		TO LINE UNIT	P/RI.209
TI.309	I	TI.3	118		TO LINE UNIT	P/RI.309
TO.009	0	TO.0	102		TO SUBSCRIBER UNIT	P/RO.009
TO.109	0	TO.1	103		TO SUBSCRIBER UNIT	P/RO.109
TO.209	0	TO.2	104		TO SUBSCRIBER UNIT	P/RO.209
TO.309	0	TO.3	105		TO SUBSCRIBER UNIT	P/RO.309
TRB4	(Y)I	TRB	137		1/18	306

SYMBOL NO. 11
BATTERY REVERSAL OR TONE PULSE

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
PPMBD10	04-132	SN448	A	(Z)
PPMBD10	04-132	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
NC	(Z)0	BC.0	032		TEST PT	307
	(Z)0	BC.1	033		TEST PT	307
	(Z)0	BC.2	034		TEST PT	307
	(Z)0	BC.3	035		TEST PT	307
	(Z)0	SCN.0	132		TEST PT	307
	(Z)0	SCN.1	133		TEST PT	307
	(Z)0	SCN.2	134		TEST PT	307
	(Z)0	SCN.3	135		TEST PT	307
+5V	PWR	+5V	053		2/1	307
	PWR	+5V	054		2/1	
	PWR	+5V	153		2/1	
	PWR	+5V	154		2/1	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-48V02	PWR	-48V	023		1/9	
	PWR	-48V	024		1/9	
	PWR	-48V	123		1/9	
CRCLR10	PWR	-48V	124		1/9	
CR10	I	CRCLR	050		1/17	
	I	CR	051		1/17	
C05	I	C0	047		1/17	
C15	I	C1	046		1/17	
GRD04132	(Z)GRD	GRD	000			307
	(Z)GRD	GRD	001			307
	GRD	GRD	043			
	GRD	GRD	045			
	GRD	GRD	055			
	GRD	GRD	056			
	(Z)GRD	GRD	100			307
	(Z)GRD	GRD	101			307
	GRD	GRD	144			
	GRD	GRD	146			
	GRD	GRD	148			
	GRD	GRD	155			
	GRD	GRD	156			

SYMBOL NO. 11 (CONT)
BATTERY REVERSAL OR TONE PULSE

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
PPMBD10	04-132	SN448	A	(Z)
PPMBD10	04-132	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
LAE10	I	LAE	044		1/17	
NCURPR	I	NCURPR	149		1/18	
PCURPR	I	PCURPR	150		1/18	
RBTB0	(Z)0T	RBTB0	139		1/1	307
RBTB1	(Z)0T	RBTB1	039		1/1	307
RI.010	I	RI.0	015		TO LINE UNIT	P/TI.010
RI.110	I	RI.1	016		TO LINE UNIT	P/TI.110
RI.210	I	RI.2	017		TO LINE UNIT	P/TI.210
RI.310	I	RI.3	018		TO LINE UNIT	P/TI.310
RO.010	0	RO.0	002		TO SUBSCRIBER UNIT	P/TO.010
RO.110	0	RO.1	003		TO SUBSCRIBER UNIT	P/TO.110
RO.210	0	RO.2	004		TO SUBSCRIBER UNIT	P/TO.210
RO.310	0	RO.3	005		TO SUBSCRIBER UNIT	P/TO.310
S05	I	S0	049		1/17	
S15	I	S1	048		1/17	
TBR	(Y)0T	TBR	038		1/1	306
TBT	(Y)0T	TBT	138		1/1	306
TCLK5	I	TCLK	042		1/17	
TCR	(Y)0T	TCR	040		1/1	306
TCT	(Y)0T	TCT	140		1/1	306
TI.010	I	TI.0	115		TO LINE UNIT	P/RI.010
TI.110	I	TI.1	116		TO LINE UNIT	P/RI.110
TI.210	I	TI.2	117		TO LINE UNIT	P/RI.210
TI.310	I	TI.3	118		TO LINE UNIT	P/RI.310
TO.010	0	TO.0	102		TO SUBSCRIBER UNIT	P/RO.010
TO.110	0	TO.1	103		TO SUBSCRIBER UNIT	P/RO.110
TO.210	0	TO.2	104		TO SUBSCRIBER UNIT	P/RO.210
TO.310	0	TO.3	105		TO SUBSCRIBER UNIT	P/RO.310
TRB5	(Y)I	TRB	137		1/18	306

SYMBOL NO. 12
BATTERY REVERSAL OR TONE PULSE

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
PPMBD11	04-140	SN448	A	(Z)
PPMBD11	04-140	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
NC	(Z)0	BC.0	032		TEST PT	307
	(Z)0	BC.1	033		TEST PT	307
	(Z)0	BC.2	034		TEST PT	307
	(Z)0	BC.3	035		TEST PT	307
	(Z)0	SCN.0	132		TEST PT	307
	(Z)0	SCN.1	133		TEST PT	307
	(Z)0	SCN.2	134		TEST PT	307
	(Z)0	SCN.3	135		TEST PT	307
+5V	PWR	+5V	053		2/1	307

SYMBOL NO. 12 (CONT)
BATTERY REVERSAL OR TONE PULSE

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
PPMBD11	04-140	SN448	A	(Z)
PPMBD11	04-140	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
	PWR	+5V	054		2/1	
	PWR	+5V	153		2/1	
	PWR	+5V	154		2/1	
-48V02	PWR	-48V	023		1/9	
	PWR	-48V	024		1/9	
	PWR	-48V	123		1/9	
	PWR	-48V	124		1/9	
CRCLR11	I	CRCLR	050		1/17	
CR11	I	CR	051		1/17	
C05	I	C0	047		1/17	
C15	I	C1	046		1/17	
GRD04140	(Z)GRD	GRD	000			307
	(Z)GRD	GRD	001			307
	GRD	GRD	043			
	GRD	GRD	045			
	GRD	GRD	055			
	GRD	GRD	056			
	(Z)GRD	GRD	100			307
	(Z)GRD	GRD	101			307
	GRD	GRD	144			
	GRD	GRD	146			
	GRD	GRD	148			
	GRD	GRD	155			
	GRD	GRD	156			

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
LAE11	I	LAE	044		1/17	
NCURPR	I	NCURPR	149		1/18	
PCURPR	I	PCURPR	150		1/18	
RBTB0	(Z)0T	RBTB0	139		1/1	307
RBTB1	(Z)0T	RBTB1	039		1/1	307
RI.011	I	RI.0	015		TO LINE UNIT	P/TI.011
RI.111	I	RI.1	016		TO LINE UNIT	P/TI.111
RI.211	I	RI.2	017		TO LINE UNIT	P/TI.211
RI.311	I	RI.3	018		TO LINE UNIT	P/TI.311
RO.011	0	RO.0	002		TO SUBSCRIBER UNIT	P/TO.011
RO.111	0	RO.1	003		TO SUBSCRIBER UNIT	P/TO.111
RO.211	0	RO.2	004		TO SUBSCRIBER UNIT	P/TO.211
RO.311	0	RO.3	005		TO SUBSCRIBER UNIT	P/TO.311
S05	I	S0	049		1/17	
S15	I	S1	048		1/17	
TBR	(Y)0T	TBR	038		1/1	306
TBT	(Y)0T	TBT	138		1/1	306
TCLK5	I	TCLK	042		1/17	
TCR	(Y)0T	TCR	040		1/1	306
TCT	(Y)0T	TCT	140		1/1	306
TI.011	I	TI.0	115		TO LINE UNIT	P/RI.011
TI.111	I	TI.1	116		TO LINE UNIT	P/RI.111
TI.211	I	TI.2	117		TO LINE UNIT	P/RI.211
TI.311	I	TI.3	118		TO LINE UNIT	P/RI.311
TO.011	0	TO.0	102		TO SUBSCRIBER UNIT	P/RO.011
TO.111	0	TO.1	103		TO SUBSCRIBER UNIT	P/RO.111
TO.211	0	TO.2	104		TO SUBSCRIBER UNIT	P/RO.211
TO.311	0	TO.3	105		TO SUBSCRIBER UNIT	P/RO.311
TRB5	(Y)I	TRB	137		1/18	306

PART OF FS 1
SYMBOL(S) 10 11 12

PERIODIC PULSE METERING UNIT		DWG SIZE	ISSUE
		2	1
BELL LABORATORIES	SD-5X202-01	B#1CE	

PART OF FS 1
PERIODIC PULSE METERING

SYMBOL NO. 13
BATTERY REVERSAL OR TONE PULSE

SYMBOL NO. 13 (CONT)
BATTERY REVERSAL OR TONE PULSE

SYMBOL NO. 14 (CONT)
BATTERY REVERSAL OR TONE PULSE

SYMBOL NO. 15 (CONT)
BATTERY REVERSAL OR TONE PULSE

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
PPMBD12	04-148	SN448	A	(Z)
PPMBD12	04-148	SN449	A	(Y)

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
PPMBD12	04-148	SN448	A	(Z)
PPMBD12	04-148	SN449	A	(Y)

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
PPMBD13	04-156	SN448	A	(Z)
PPMBD13	04-156	SN449	A	(Y)

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
PPMBD14	04-164	SN448	A	(Z)
PPMBD14	04-164	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
NC	(Z)0	BC.0	032		TEST PT	307
	(Z)0	BC.1	033		TEST PT	307
	(Z)0	BC.2	034		TEST PT	307
	(Z)0	BC.3	035		TEST PT	307
	(Z)0	SCN.0	132		TEST PT	307
	(Z)0	SCN.1	133		TEST PT	307
	(Z)0	SCN.2	134		TEST PT	307
	(Z)0	SCN.3	135		TEST PT	307
+5V	(Z)0	PHR	053		TEST PT 2/1	307
	PHR	+5V	054		2/1	
	PHR	+5V	153		2/1	
	PHR	+5V	154		2/1	
-48V02	PHR	-48V	023		1/9	
	PHR	-48V	024		1/9	
	PHR	-48V	123		1/9	
CRCLR12	PHR	-48V	124		1/9	
CR12	I	CRCLR	050		1/17	
	I	CR	051		1/17	
C06	I	C0	047		1/17	
C16	I	C1	046		1/17	
GRD04148	(Z)GRD	GRD	000			307
	(Z)GRD	GRD	001			307
	GRD	GRD	043			
	GRD	GRD	045			
	GRD	GRD	055			
	(Z)GRD	GRD	056			307
	(Z)GRD	GRD	100			
	(Z)GRD	GRD	101			307
	GRD	GRD	144			
	GRD	GRD	146			
	GRD	GRD	148			
	GRD	GRD	155			
	GRD	GRD	156			
LAE12	I	LAE	044		1/17	
NCURPR	I	NCURPR	149		1/18	
PCURPR	I	PCURPR	150		1/18	
RBT80	(Z)OT	RBT80	139		1/1	307
RBT81	(Z)OT	RBT81	039		1/1	307
RI.012	I	RI.0	015		TO LINE UNIT	P/RI.012
RI.112	I	RI.1	016		TO LINE UNIT	P/RI.112
RI.212	I	RI.2	017		TO LINE UNIT	P/RI.212
RI.312	I	RI.3	018		TO LINE UNIT	P/RI.312
RO.012	O	RO.0	002		TO SUBSCRIBER UNIT	P/TO.012
RO.112	O	RO.1	003		TO SUBSCRIBER UNIT	P/TO.112
RO.212	O	RO.2	004		TO SUBSCRIBER UNIT	P/TO.212
RO.312	O	RO.3	005		TO SUBSCRIBER UNIT	P/TO.312
S06	I	S0	049		1/17	
S16	I	S1	048		1/17	
TBR	(Y)OT	TBR	038		1/1	306
TBT	(Y)OT	TBT	138		1/1	306
TCLK6	I	TCLK	042		1/17	
TCT	(Y)OT	TCT	040		1/1	306
TCT	(Y)OT	TCT	140		1/1	306
TI.012	I	TI.0	115		TO LINE UNIT	P/RI.012
TI.112	I	TI.1	116		TO LINE UNIT	P/RI.112
TI.212	I	TI.2	117		TO LINE UNIT	P/RI.212
TI.312	I	TI.3	118		TO LINE UNIT	P/RI.312
TO.012	O	TO.0	102		TO SUBSCRIBER UNIT	P/RO.012
TO.112	O	TO.1	103		TO SUBSCRIBER UNIT	P/RO.112
TO.212	O	TO.2	104		TO SUBSCRIBER UNIT	P/RO.212
TO.312	O	TO.3	105		TO SUBSCRIBER UNIT	P/RO.312
TRB6	(Y)I	TRB	137		1/18	306

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
TO.012	O	TO.0	102		TO SUBSCRIBER UNIT	P/RO.012
TO.112	O	TO.1	103		TO SUBSCRIBER UNIT	P/RO.112
TO.212	O	TO.2	104		TO SUBSCRIBER UNIT	P/RO.212
TO.312	O	TO.3	105		TO SUBSCRIBER UNIT	P/RO.312
TRB6	(Y)I	TRB	137		1/18	306

SYMBOL NO. 14
BATTERY REVERSAL OR TONE PULSE

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
PPMBD13	04-156	SN448	A	(Z)
PPMBD13	04-156	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
NC	(Z)0	BC.0	032		TEST PT	307
	(Z)0	BC.1	033		TEST PT	307
	(Z)0	BC.2	034		TEST PT	307
	(Z)0	BC.3	035		TEST PT	307
	(Z)0	SCN.0	132		TEST PT	307
	(Z)0	SCN.1	133		TEST PT	307
	(Z)0	SCN.2	134		TEST PT	307
	(Z)0	SCN.3	135		TEST PT	307
+5V	(Z)0	PHR	053		TEST PT 2/1	307
	PHR	+5V	054		2/1	
	PHR	+5V	153		2/1	
	PHR	+5V	154		2/1	
-48V02	PHR	-48V	023		1/9	
	PHR	-48V	024		1/9	
	PHR	-48V	123		1/9	
CRCLR13	PHR	-48V	124		1/9	
CR13	I	CRCLR	050		1/17	
	I	CR	051		1/17	
C06	I	C0	047		1/17	
C16	I	C1	046		1/17	
GRD04156	(Z)GRD	GRD	000			307
	(Z)GRD	GRD	001			307
	GRD	GRD	043			
	GRD	GRD	045			
	GRD	GRD	055			
	(Z)GRD	GRD	056			307
	(Z)GRD	GRD	100			
	(Z)GRD	GRD	101			307
	GRD	GRD	144			
	GRD	GRD	146			
	GRD	GRD	148			
	GRD	GRD	155			
	GRD	GRD	156			
LAE13	I	LAE	044		1/17	
NCURPR	I	NCURPR	149		1/18	
PCURPR	I	PCURPR	150		1/18	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
RBT80	(Z)OT	RBT80	139		1/1	307
RBT81	(Z)OT	RBT81	039		1/1	307
RI.013	I	RI.0	015		TO LINE UNIT	P/RI.013
RI.113	I	RI.1	016		TO LINE UNIT	P/RI.113
RI.213	I	RI.2	017		TO LINE UNIT	P/RI.213
RI.313	I	RI.3	018		TO LINE UNIT	P/RI.313
RO.013	O	RO.0	002		TO SUBSCRIBER UNIT	P/TO.013
RO.113	O	RO.1	003		TO SUBSCRIBER UNIT	P/TO.113
RO.213	O	RO.2	004		TO SUBSCRIBER UNIT	P/TO.213
RO.313	O	RO.3	005		TO SUBSCRIBER UNIT	P/TO.313
S06	I	S0	049		1/17	
S16	I	S1	048		1/17	
TBR	(Y)OT	TBR	038		1/1	306
TBT	(Y)OT	TBT	138		1/1	306
TCLK6	I	TCLK	042		1/17	
TCT	(Y)OT	TCT	040		1/1	306
TCT	(Y)OT	TCT	140		1/1	306
TI.013	I	TI.0	115		TO LINE UNIT	P/RI.013
TI.113	I	TI.1	116		TO LINE UNIT	P/RI.113
TI.213	I	TI.2	117		TO LINE UNIT	P/RI.213
TI.313	I	TI.3	118		TO LINE UNIT	P/RI.313
TO.013	O	TO.0	102		TO SUBSCRIBER UNIT	P/RO.013
TO.113	O	TO.1	103		TO SUBSCRIBER UNIT	P/RO.113
TO.213	O	TO.2	104		TO SUBSCRIBER UNIT	P/RO.213
TO.313	O	TO.3	105		TO SUBSCRIBER UNIT	P/RO.313
TRB6	(Y)I	TRB	137		1/18	306

SYMBOL NO. 15
BATTERY REVERSAL OR TONE PULSE

DESIG	EOPT LOC	CODE	ELEM IDENT	OPT
PPMBD14	04-164	SN448	A	(Z)
PPMBD14	04-164	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
NC	(Z)0	BC.0	032		TEST PT	307
	(Z)0	BC.1	033		TEST PT	307
	(Z)0	BC.2	034		TEST PT	307
	(Z)0	BC.3	035		TEST PT	307
	(Z)0	SCN.0	132		TEST PT	307
	(Z)0	SCN.1	133		TEST PT	307
	(Z)0	SCN.2	134		TEST PT	307
	(Z)0	SCN.3	135		TEST PT	307
+5V	(Z)0	PHR	053		TEST PT 2/1	307
	PHR	+5V	054		2/1	
	PHR	+5V	153		2/1	
	PHR	+5V	154		2/1	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
-48V02	PHR	-48V	023		1/9	
	PHR	-48V	024		1/9	
	PHR	-48V	123		1/9	
	PHR	-48V	124		1/9	
CRCLR14	PHR	-48V	124		1/9	
CR14	I	CRCLR	050		1/17	
	I	CR	051		1/17	
C07	I	C0	047		1/17	
C17	I	C1	046		1/17	
GRD04164	(Z)GRD	GRD	000			307
	(Z)GRD	GRD	001			307
	GRD	GRD	043			
	GRD	GRD	045			
	GRD	GRD	055			
	(Z)GRD	GRD	056			307
	(Z)GRD	GRD	100			
	(Z)GRD	GRD	101			307
	GRD	GRD	144			
	GRD	GRD	146			
	GRD	GRD	148			
	GRD	GRD	155			
	GRD	GRD	156			
LAE14	I	LAE	044		1/17	
NCURPR	I	NCURPR	149		1/18	
PCURPR	I	PCURPR	150		1/18	
RBT80	(Z)OT	RBT80				

PART OF FS 1
PERIODIC PULSE METERING

SYMBOL NO. 15 (CONT)
BATTERY REVERSAL OR TONE PULSE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMBD14	04-164	SN448	A	(Z)
PPMBD14	04-164	SN449	A	(Y)

SYMBOL NO. 16 (CONT)
BATTERY REVERSAL OR TONE PULSE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMBD15	04-172	SN448	A	(Z)
PPMBD15	04-172	SN449	A	(Y)

SYMBOL NO. 17 (CONT)
CONTROL AND REVERSE BATTERY TEST

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMCON	04-028	TN996	A	

SYMBOL NO. 17 (CONT)
CONTROL AND REVERSE BATTERY TEST

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMCON	04-028	TN996	A	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
TD.114	0	TD.1	103		UNIT TO SUBSCRIBER UNIT	P/RO.114
TD.214	0	TD.2	104		UNIT TO SUBSCRIBER UNIT	P/RO.214
TD.314	0	TD.3	105		UNIT TO SUBSCRIBER UNIT	P/RO.314
TRB7	(Y)1	TRB	137		1/18	306

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
RBT80	(Z)0T	RBT80	139		1/1	307
RBT81	(Z)0T	RBT81	039		1/1	307
RI.015	I	RI.0	015		TO LINE UNIT	P/RI.015
RI.115	I	RI.1	016		TO LINE UNIT	P/RI.115
RI.215	I	RI.2	017		TO LINE UNIT	P/RI.215
RI.315	I	RI.3	018		TO LINE UNIT	P/RI.315
RO.015	0	RO.0	002		TO SUBSCRIBER UNIT	P/TO.015
RO.115	0	RO.1	003		TO SUBSCRIBER UNIT	P/TO.115
RO.215	0	RO.2	004		TO SUBSCRIBER UNIT	P/TO.215
RO.315	0	RO.3	005		TO SUBSCRIBER UNIT	P/TO.315
S07	I	S0	049		1/17	
S17	I	S1	048		1/17	
TBR	(Y)0T	TBR	038		1/1	306
TBT	(Y)0T	TBT	138		1/1	306
TCLK7	I	TCLK	042		1/17	
TCR	(Y)0T	TCR	040		1/1	306
TCT	(Y)0T	TCT	140		1/1	306
TI.015	I	TI.0	115		TO LINE UNIT	P/RI.015
TI.115	I	TI.1	116		TO LINE UNIT	P/RI.115
TI.215	I	TI.2	117		TO LINE UNIT	P/RI.215
TI.315	I	TI.3	118		TO LINE UNIT	P/RI.315
TO.015	0	TO.0	102		TO SUBSCRIBER UNIT	P/RO.015
TO.115	0	TO.1	103		TO SUBSCRIBER UNIT	P/RO.115
TO.215	0	TO.2	104		TO SUBSCRIBER UNIT	P/RO.215
TO.315	0	TO.3	105		TO SUBSCRIBER UNIT	P/RO.315
TPB7	(Y)1	TRB	137		1/18	306

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
0		INT0	124		TEST PT	
0		TPAB2	151		TEST PT	
0		TPAB4	152		TEST PT	
0		TPC5	202		TEST PT	
I		ASW10	117		TEST PT	
I		TPEN2	138		TEST PT	
I		TPD0	139		TEST PT	
I		TPF40	153		TEST PT	
I		DRIN	155		TEST PT	
I		TPEN1	203		TEST PT	
I		TPT5	204		TEST PT	
I		TPT4	295		TEST PT	
I		TPT3	206		TEST PT	
I		TPSEQN	207		TEST PT	
I		TPCK	238		TEST PT	
I		TPT2	302		TEST PT	
I		TPT1	303		TEST PT	
I		TPS2	304		TEST PT	
I		TPS1	305		TEST PT	
PWR	VCC		056		2/1	
PWR	VCC		156		2/1	
PWR	VCC		256		2/1	
PWR	VCC		356		2/1	
PWR	N#8L		000		2/1	
PWR	N#8		100		2/1	
PWR	N#8		101		2/1	
PWR	ACL		132		1/18	
AMPGT		AMPGT	005		1/18	
AMPLT		AMPLT	006		1/18	
CLKEN	I	CLKEN	118		1/18	
CLKON	I	CLKON	035		TO MODULAR CONTROL UNIT	
CLKOP	I	CLKOP	135		TO MODULAR CONTROL UNIT	
CLKIN	I	CLKIN	235		TO MODULAR CONTROL UNIT	
CLK1P	I	CLK1P	335		TO MODULAR CONTROL UNIT	
CRCLR00	0	CRCLR00	338		1/1	
CRCLR01	0	CRCLR01	339		1/2	
CRCLR02	0	CRCLR02	340		1/3	
CRCLR03	0	CRCLR03	341		1/4	
CRCLR04	0	CRCLR04	342		1/5	
CRCLR05	0	CRCLR05	343		1/6	
CRCLR06	0	CRCLR06	344		1/7	
CRCLR07	0	CRCLR07	324		1/8	
CRCLR08	0	CRCLR08	323		1/9	
CRCLR09	0	CRCLR09	322		1/10	
CRCLR10	0	CRCLR10	321		1/11	
CRCLR11	0	CRCLR11	320		1/12	
CRCLR12	0	CRCLR12	319		1/13	
CRCLR13	0	CRCLR13	318		1/14	
CRCLR14	0	CRCLR14	317		1/15	
CRCLR15	0	CRCLR15	316		1/16	
CR00	0	CR00	040		1/1	
CR01	0	CR01	041		1/2	
CR02	0	CR02	042		1/3	
CR03	0	CR03	043		1/4	
CR04	0	CR04	044		1/5	
CR05	0	CR05	045		1/6	
CR06	0	CR06	046		1/7	

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
CR07	0	CR07	047		1/8	
CR08	0	CR08	140		1/9	
CR09	0	CR09	141		1/10	
CR10	0	CR10	142		1/11	
CR11	0	CR11	143		1/12	
CR12	0	CR12	144		1/13	
CR13	0	CR13	145		1/14	
CR14	0	CR14	146		1/15	
CR15	0	CR15	147		1/16	
CT	I	CT	007		1/18	
CO0	0	CO0	017		1/1,1/2	
CO1	0	CO1	018		1/3,1/4	
CO2	0	CO2	019		1/5,1/6	
CO3	0	CO3	020		1/7,1/8	
CO4	0	CO4	021		1/9,1/10	
CO5	0	CO5	022		1/11,1/12	
CO6	0	CO6	023		1/13,1/14	
CO7	0	CO7	024		1/15,1/16	
C10	0	C10	217		1/1,1/2	
C11	0	C11	218		1/3,1/4	
C12	0	C12	219		1/5,1/6	
C13	0	C13	220		1/7,1/8	
C14	0	C14	221		1/9,1/10	
C15	0	C15	222		1/11,1/12	
C16	0	C16	223		1/13,1/14	
C17	0	C17	224		1/15,1/16	
EN12	0	EN12	307		1/18	
EN16	0	EN16	306		1/18	
EDA	I	EDA	120		1/18	
EOB	I	EOB	119		1/18	
FGRD	GRD	FGRD	232			
GRD	GRD	FGRD	332			
F40	C	F400	051			
GRD04028	I	F401	052			
GRD	GRD	GRD	001			
GRD	GRD	GRD	012			
GRD	GRD	GRD	053			
GRD	GRD	GRD	109			
GRD	GRD	GRD	110			
GRD	GRD	GRD	113			
GRD	GRD	GRD	114			
GRD	GRD	GRD	115			
GRD	GRD	GRD	116			
GRD	GRD	GRD	200			
GRD	GRD	GRD	201			
GRD	GRD	GRD	212			
GRD	GRD	GRD	300			
GRD	GRD	GRD	301			
INT2	GRD	GRD	345		1/18	
I	GRD	INT2	122			

SYMBOL NO. 16
BATTERY REVERSAL OR TONE PULSE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMBD15	04-172	SN448	A	(Z)
PPMBD15	04-172	SN449	A	(Y)

LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
NC	(Z)0	BC.0	032		TEST PT	307
	(Z)0	BC.1	033		TEST PT	307
	(Z)0	BC.2	034		TEST PT	307
	(Z)0	BC.3	035		TEST PT	307
	(Z)0	SCN.0	132		TEST PT	307
	(Z)0	SCN.1	133		TEST PT	307
	(Z)0	SCN.2	134		TEST PT	307
	(Z)0	SCN.3	135		TEST PT	307
+5V	PWR	+5V	053		2/1	
	PWR	+5V	054		2/1	
	PWR	+5V	153		2/1	
	PWR	+5V	154		2/1	
-48V02	PWR	-48V	023		1/9	
	PWR	-48V	024		1/9	
	PWR	-48V	123		1/9	
CRCLR15	PWR	-48V	124		1/9	
CR15	I	CRCLR	050		1/17	
	I	CR	051		1/17	
CO7	I	CO	047		1/17	
C17	I	C1	046		1/17	
GRD04172	(Z)GRD	GRD	000			307
	(Z)GRD	GRD	001			307
	GRD	GRD	043			
	GRD	GRD	045			
	GRD	GRD	055			
	GRD	GRD	056			
	(Z)GRD	GRD	100			307
	(Z)GRD	GRD	101			307
	GRD	GRD	144			
	GRD	GRD	146			
	GRD	GRD	148			
	GRD	GRD	155			
	GRD	GRD	156			
LAE15	I	LAE	044		1/17	
NCURPR	I	NCURPR	149		1/18	
PCURPR	I	PCURPR	150		1/18	

SYMBOL NO. 17
CONTROL AND REVERSE BATTERY TEST

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PPMCON	04-028	TN996		

PART OF FS 1
PERIODIC PULSE METERING

SYMBOL NO. 17 (CONT)
CONTROL AND REVERSE BATTERY TEST

SYMBOL NO. 17 (CONT)
CONTROL AND REVERSE BATTERY TEST

SYMBOL NO. 18 (CONT)
TONE AND TONE TEST

SYMBOL NO. 18 (CONT)
TONE AND TONE TEST

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT	LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
PPMCON	04-028	TN996	A		LAE00	0	LAE0	008		1/1	
					LAE01	0	LAE1	208		1/2	
					LAE02	0	LAE2	009		1/3	
					LAE03	0	LAE3	209		1/4	
					LAE04	0	LAE4	010		1/5	
					LAE05	0	LAE5	210		1/6	
					LAE06	0	LAE6	011		1/7	
					LAE07	0	LAE7	211		1/8	
					LAE08	0	LAE8	013		1/9	
					LAE09	0	LAE9	213		1/10	
					LAE10	0	LAE10	014		1/11	
					LAE11	0	LAE11	214		1/12	
					LAE12	0	LAE12	015		1/13	
					LAE13	0	LAE13	215		1/14	
					LAE14	0	LAE14	016		1/15	
					LAE15	0	LAE15	216		1/16	
					MSGON	1	MSGON	036		TO MODULAR CONTROL UNIT	
					MSGOP	1	MSGOP	136		TO MODULAR CONTROL UNIT	
					MSG1N	1	MSG1N	236		TO MODULAR CONTROL UNIT	
					MSG1P	1	MSG1P	336		TO MODULAR CONTROL UNIT	
					NCURPR	1	NCURPR	149		1/18	
					NINTON	0	NINTON	033		TO MODULAR CONTROL UNIT	
					NINTOP	0	NINTOP	133		TO MODULAR CONTROL UNIT	
					NINT1N	0	NINT1N	233		TO MODULAR CONTROL UNIT	
					NINT1P	0	NINT1P	333		TO MODULAR CONTROL UNIT	
					OSC	0	OSCO	347			
						1	OSCI	346			
					PCOOS	10	PCOOS	050		2/1	
					PCURPR	1	PCURPR	150		1/18	
					RBT80	10	RBT80	048		1/1	
					RBT81	10	RBT81	148		1/1	
					REFCLK	0	REFCLK	049		1/18	
					RPLYON	0	RPLYON	037		TO MODULAR CONTROL UNIT	
					RPLYOP	0	RPLYOP	137		TO MODULAR CONTROL UNIT	
					RPLY1N	0	RPLY1N	237		TO MODULAR CONTROL UNIT	
					RPLY1P	0	RPLY1P	337		TO MODULAR CONTROL UNIT	
					RST	1	RST	054			
					SLCTON	1	RST	055			
						1	SLCTON	034			
					SLCTOP	1	SLCTOP	134		TO MODULAR CONTROL UNIT	
					SLCT1N	1	SLCT1N	234		TO MODULAR CONTROL UNIT	
					SLCT1P	1	SLCT1P	334		TO MODULAR CONTROL UNIT	
					S00	0	S00	248		1/1, 1/2	
					S01	0	S01	249		1/3, 1/4	
					S02	0	S02	250		1/5, 1/6	
					S03	0	S03	251		1/7, 1/8	

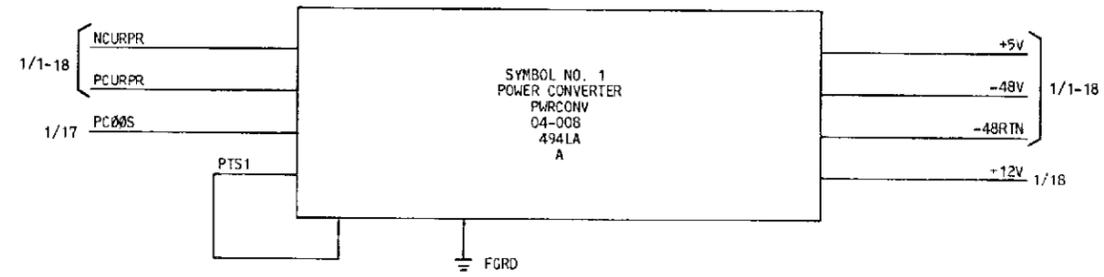
SYMBOL NO. 18
TONE AND TONE TEST

PART OF FS 1
SYMBOL(S) 17 18

PERIODIC PULSE METERING UNIT		DWG SIZE	ISSUE
		2	1
BELL LABORATORIES		SD-5X202-01	B#1CH

PRINTED IN U. S. A. 10/27/83

PART OF FS 2
POWER AND MISC CIRCUIT



PERIODIC PULSE METERING UNIT		DWG SIZE 85	ISSUE 1
BELL LABORATORIES	SD-5X202-01	SHEET B# 2AA	

PART OF FS 2
POWER AND MISC CKT

SYMBOL NO. 1
POWER SUPPLY (+5V, -12V)

SYMBOL NO. 1 (CONT)
POWER SUPPLY (+5V, -12V)

SYMBOL NO. 1						SYMBOL NO. 1 (CONT)						
DESIG	EQPT LOC	CODE	ELEM IDENT	OPT	NOTE	DESIG	EQPT LOC	CODE	ELEM IDENT	OPT	NOTE	
PHRCONV	04-008	494LA	A			PHRCONV	04-008	494LA	A			
LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	LEAD DESIG	FUNC	TERM. MOD	TERM.	TERM. OPT	DESTINATION	NOTE
NC	0	ALMC1	014				GRD		040			
	0	ALMCO	113				GRD		041			
+12V	PWR		123		2/1		GRD		042			
	PWR		124		2/1		GRD		043			
+5V	PWR		024		1/18		GRD		102			
	PWR		015		2/1		GRD		103			
	PWR		045		2/1		GRD		104			
	PWR		046		2/1		GRD		119			
	PWR		047		2/1		GRD		122			
	PWR		048		2/1		GRD		132			
	PWR		049		2/1		GRD		133			
	PWR		050		2/1		GRD		134			
	PWR		051		2/1		GRD		135			
	PWR		052		2/1		GRD		136			
	PWR		053		2/1		GRD		137			
	PWR		054		2/1		GRD		138			
	PWR		055		2/1		GRD		139			
	PWR		056		2/1		GRD		140			
	PWR		145		2/1		GRD		141			
	PWR		146		2/1		GRD		142			
	PWR		147		2/1		GRD		143			
	PWR		148		2/1		NCURPR	I	NCURPR		117	1/18
	PWR		149		2/1		PCOOS	I	PCOOS		115	1/17
	PWR		150		2/1		PCURPR	I	PCURPR		017	1/18
	PWR		151		2/1		PTS1	I	PTS1		109	
	PWR		152		2/1							
	PWR		153		2/1							
	PWR		154		2/1							
	PWR		155		2/1							
	PWR		156		2/1							
	PWR		019		1/1, 1/2 1/3, 1/4 1/5, 1/6 1/7, 1/8 1/9, 1/10 1/11, 1/12 1/13, 1/14 1/15, 1/16 1/17, 1/18							
+48V00	PWR		007		2/1							
	PWR		008		2/1							
	PWR		106		2/1							
	PWR		107		2/1							
	PWR		108		2/1							
FGRD	PWR		006		1/17							
	GRD		000									
	GRD		001									
GRD04008	GRD		100									
	GRD		101									
	GRD		002									
	GRD		003									
	GRD		004									
	GRD		022									
	GRD		023									
	GRD		032									
	GRD		033									
	GRD		034									
	GRD		035									
	GRD		036									
	GRD		037									
	GRD		038									
	GRD		039									

PART OF FS 2
SYMBOL(S) 1

PERIODIC PULSE METERING UNIT		DWG SIZE	ISSUE
		2	1
BELL LABORATORIES	SD-5X202-01	B#2CA	
PRINTED IN U. S. A.		8	9 10/27/83

0 1 2 3 4 5 6 7 8 9

APP FIG. 1

CIRCUIT PACK				
EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT
04-008	PPMCON	494LA		
04-028	PPMCON	TN996		
EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT
04-028	PPMCON	TN996		
EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT
04-028	PPMCON	TN996		

APP FIG. 2

CIRCUIT PACK				
EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT
04-040	PPMTT	SN502		
EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT
04-040	PPMTT	SN502		

APP FIG. 3

CIRCUIT PACK																													
EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT	EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT	EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT	EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT	EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT	EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT
04-052	PPMB000	SN449	Y		04-052	PPMB000	SN448	Z		04-060	PPMB001	SN449	Y		04-060	PPMB001	SN448	Z		04-068	PPMB002	SN449	Y		04-068	PPMB002	SN448	Z	
04-076	PPMB003	SN449	Y		04-076	PPMB003	SN448	Z		04-084	PPMB004	SN449	Y		04-084	PPMB004	SN448	Z		04-092	PPMB005	SN449	Y		04-092	PPMB005	SN448	Z	
04-100	PPMB006	SN449	Y		04-100	PPMB006	SN448	Z																					

CIRCUIT PACK																													
EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT	EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT	EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT	EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT	EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT	EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT
04-100	PPMB006	SN448	Z		04-108	PPMB007	SN449	Y		04-108	PPMB007	SN448	Z		04-116	PPMB008	SN449	Y		04-116	PPMB008	SN448	Z		04-124	PPMB009	SN449	Y	
04-132	PPMB010	SN448	Z		04-132	PPMB010	SN449	Y		04-140	PPMB011	SN449	Y		04-140	PPMB011	SN448	Z		04-148	PPMB012	SN449	Y		04-148	PPMB012	SN448	Z	
04-156	PPMB013	SN449	Y		04-156	PPMB013	SN448	Z		04-164	PPMB014	SN449	Y		04-164	PPMB014	SN448	Z		04-172	PPMB015	SN449	Y		04-172	PPMB015	SN448	Z	

CIRCUIT PACK														
EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT	EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT	EDPT LOC	DESIG	CODE	OPTION	ELEM IDENT
04-156	PPMB013	SN449	Y		04-156	PPMB013	SN448	Z		04-164	PPMB014	SN449	Y	
04-172	PPMB015	SN449	Y		04-172	PPMB015	SN448	Z						

ISSUE 1
PERIODIC PULSE METERING UNIT
SD-5X202-01-C#1
BELL TELEPHONE LABORATORIES INCORPORATED

0 1 2 3 4 5 6 7 8 9

A
B
C
D
E
F
G
H

A
B
C
D
E
F
G
H

EQUIPMENT NOTES:

201. CABLING

THE REQUIREMENTS OF [1] SPECIFIED THAT TIP AND RING PAIRS WOULD ROUTE IN AND OUT OF A PPMU TO THE MDF WHERE THEY COULD BE CROSS CONNECTED TO ANY LINES. HOWEVER, IF THE OFFICE USES A GAS TUBE EQUIPPED LINE INTERFACE FRAME (LIF) LOCATED ELECTRICALLY BETWEEN A PPMU AND THE LINE UNITS ASSOCIATED WITH IT, THE PPMU WOULD HAVE TO ABSORB LIGHTNING CURRENTS WHEN THE GAS TUBES FIRED.

A REVISED CABLING SCHEME WILL PROTECT THE PPMU'S. IF AN OFFICE USES LINE INTERFACE FRAMES, THE PPMU'S SHALL LIE ELECTRICALLY BETWEEN LINE INTERFACE FRAMES AND LINE UNITS. OTHERWISE, THE PPMU'S SHALL LIE ELECTRICALLY BETWEEN THE MAIN DISTRIBUTING FRAME AND THE LINE UNITS. IN EITHER CASE THE PPMU'S WILL RECEIVE GAS TUBE ELECTRICAL PROTECTION.

TRAFFIC CONSIDERATION DICTATES THAT THE 64 PAIRS OF TIP AND RING FROM ONE PPMU SHALL BE SPREAD OVER FOUR LIF'S. THE CABLING SCHEME ALSO WILL ALLOW GROWTH UP TO A MAXIMUM PPM CAPACITY OF 25% OF THE LINES. THE MAJORITY OF THE CABLE SHALL BE 800 TYPE (26 AWG).

202. POWER

EACH PPMU CONTAINS ONE POWER CONVERTER. THIS POWER CONVERTER SUPPLIES +5 VOLTS AND +12 VOLTS FOR THE PPMU. THE POWER CONVERTER USES -48 VOLTS, AND CAN SUPPLY 19 AMPERES OF +5V AND ONE AMPERE OF +12V.

THE 5 VOLTS IS USED BY ALL CIRCUITS ON THE PPMU AND THE +12 VOLTS IS USED BY THE PPMITT BOARD.

BECAUSE OF THE LARGE AMOUNT OF +5 VOLT CURRENT AVAILABLE, ALL CIRCUIT BOARDS ARE REQUIRED TO HAVE A PROGRAMMING RESISTOR TO SET THE OVER CURRENT PROTECTION CIRCUITRY ON THE CONVERTER UNIT.

203. GROUNDING

THERE ARE TWO GROUND SYSTEMS ON THE PPMU. THE SMALLER ONE IS ONLY USED FOR A PICB REFERENCE ON THE INTERFACE PACK AND ON THE POWER UNIT. THE LARGER GROUND SYSTEM CONNECTS ALL -48 RETURNS TOGETHER ALONG WITH THE +9 AND +12 RETURNS FOR ALL THE CIRCUIT PACKS. ANY LIGHTNING SURGES SUSTAINED BY THIS UNIT ARE DIRECTED TOWARDS THE -48 RETURNS AT THE BOTTOM OF THE UNIT.

204. GENERAL REQUIREMENTS

THE PHYSICAL DESIGN OF THE PPMU MUST MEET THE "EQUIPMENT DESIGN REQUIREMENTS FOR CENTRAL OFFICE EQUIPMENT" [4] AND THE "PHYSICAL AND ENVIRONMENTAL SPECIFICATIONS FOR INTERNATIONAL APPLICATIONS OF NEW SWITCHING EQUIPMENT" [5] WITH ONE EXCEPTION. THE REQUIREMENT THAT EQUIPMENT BE COOLED BY NATURAL AIR CONVECTION HAS BEEN ELIMINATED; THE NO. 5 ESS EQUIPMENT WILL BE MOUNTED IN CLOSED CABINETS WITH FAN COOLING.

205. UNIT PHYSICAL DESIGN

THE APPLICATION OF PPM PULSES OCCURS THROUGH A PPM CIRCUIT SIMILAR TO ONE DEVELOPED FOR THE NO. 1A ESS. EACH BELLPAC # UNIT OCCUPIES ONE 8.5 INCH HIGH SHELF AND INCLUDES, AS VIEWED FROM LEFT TO RIGHT FROM THE EQUIPMENT AISLE, A POWER SUPPLY, A PACK PROVIDING CONTROL AND REVERSE BATTERY TEST CIRCUITRY (PPMCON), A PACK PROVIDING TONE AND TONE TEST CIRCUITRY (PPMTT), AND 16 PPM BOARDS (PPMDS).

TWO INTERCHANGEABLE PPM BOARDS ARE PLANNED. ONE CONTAINS CIRCUITRY FOR BATTERY REVERSAL PULSING; THE OTHER CONTAINS CIRCUITRY FOR 12 OR 16 KHZ TONE PULSING. THIS ALLOWS THE SAME UNIT TO SERVICE SOME CUSTOMERS WITH REVERSE BATTERY PULSING AND OTHERS WITH TONE PULSING. SOFTWARE IN THE ESS SELECTS THE 12 OR 16 KHZ TONE OPTION ON A PER UNIT BASIS, SO BOTH TONES CANNOT BE SIMULTANEOUSLY PROVIDED FROM THE SAME UNIT. IN THE SAME WAY THE ESS SELECTS A TONE AMPLITUDE OF EITHER 2, 3, 5, OR 9 VRMS, SO A UNIT CAN PROVIDE ONLY ONE TONE AMPLITUDE AT A TIME.

THE DESIGN PROVIDES FOUR PPM CIRCUITS (PPMCKT'S) (SERVING FOUR PPM CUSTOMERS) ON EACH PPMBO. UP TO 16 PPMBO'S SPACES ON ONE INCH MOUNTING CENTERS EQUIP THE PPMU. UNDER FULL EQUIPAGE, THE UNIT SERVES 64 LINES.

A LIST OF PACK NAMES AND CIRCUIT PACK NUMBERS FOLLOWS:

CIRCUIT PACK NAME	ABBREVIATION	CP NUMBER
POWER SUPPLY (+5, -12V)		494LA
CONTROL AND REV BAT. TEST CP	PPMCON	TN996
TONE AND TONE TEST CP	PPMTT	SN502
BATTERY REVERSAL CP	PPMBDR	SN448
TONE PULSE CP	PPMDDT	SN449

EQUIPMENT NOTES: (CONT)

206. SYSTEM PHYSICAL DESIGN

PPMU'S CAN BE LOCATED ANYWHERE IN THE LINE AND TRUNK PERIPHERAL CABINETS WITHIN AN IM. PPMU ALLOCATION ACROSS IM'S IS GOVERNED BY THE TIME SLOTS AVAILABLE AND THE DESIRED TRAFFIC LOADING. NEITHER FUSING REQUIREMENTS NOR NUMBER OF PICB'S WILL BE CONSTRAINTS ON PPMU'S WITHIN KNOWN NO. 5 ESS EXPORT IM CONFIGURATIONS.

207. MAINTENANCE

THE PPM UNIT IS A SERVICE GROUP. IT WILL PROVIDE FOR UP TO 64 LINES. THE MAINTENANCE SCHEME USED HERE MEETS THE NO. 5 ESS SYSTEM GUIDELINE OF A NO MORE THAN 64 LINES AFFECTED BY A SIMPLEX CIRCUIT FAILURE.

THERE ARE NO TEST CIRCUITS ON PPM BOARDS. THE TEST CIRCUITRY IN THE PPMITT AND PPMCON PACKS WILL BE USED FOR THE TESTING OF ALL PPM BOARDS IN THE SHELF. FAULTS IN A PPM BOARD WILL NOT GENERATE AN IMMEDIATE SERVICE REQUEST SINCE THEY WILL AFFECT AT MOST THE 4 CIRCUITS ON THE PACK. THESE FAULT TYPES WILL BE CAUGHT DURING ROUTINE MAINTENANCE. FAULTS COMMON TO A PPM UNIT SUCH AS FAULTS IN THE PPMITT OR PPMCON PACK WILL GENERATE AN IMMEDIATE SERVICE REQUEST. THE PPMCON WILL SEND THE SERVICE REQUEST TO THE IMPU.

IF A POWER CONVERTER HAS FAILED THE CONVERTER ALARM LAMP WILL LIGHT.

PERIODIC PULSE METERING UNIT		
	DWG SIZE	ISSUE
	83	1
BELL LABORATORIES	SD-5X202-01	SHEET DI

INFORMATION NOTES:

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

302. FEATURE OR OPTION	PROVIDE		
	APP FIG.	APP OR WRG	QUANTITY
PERIODIC PULSE METERING UNIT	1		1
TONE AND TONE TEST CIRCUIT	2		1 PER FIRST APP FIG. 3
BATTERY REVERSAL CIRCUIT	3	Z	1 (MAX 16; SEE NOTE 304)
TONE PULSE CIRCUIT	3	Y	1 (MAX 16; SEE NOTE 304)

303. RECORD OF FIGURES, WIRING AND APPARATUS CHANGES						
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT		
				STD	A&N	MD

304. THE PERIODIC PULSE METERING UNIT MAY BE EQUIPPED WITH A MAXIMUM OF SIXTEEN BATTERY REVERSAL CIRCUIT PACKS, TONE PULSE CIRCUIT PACKS OR ANY COMBINATION OF BOTH. APP FIG. 3 REFERENCES ALL 16 POSSIBLE EQUIPMENT LOCATIONS.
305. ONLY ONE TONE AND TONE TEST CIRCUIT PACK WILL BE REQUIRED FOR A MAXIMUM OF 16 TONE PULSE CIRCUIT PACKS.
306. THESE LEAD DESIGNATIONS (NETS) ARE FUNCTIONAL ONLY WHEN SN449 TONE PULSE CIRCUIT PACKS ARE PROVIDED.
307. THESE LEAD DESIGNATIONS (NETS) ARE FUNCTIONAL ONLY WHEN SN448 BATTERY REVERSAL CIRCUIT PACKS ARE PROVIDED.

PERIODIC PULSE METERING UNIT		DWG SIZE	ISSUE
		16	1
BELL LABORATORIES	SD-5X202-OI	SHEET	
		0#1	

CAD 02

CAD 03

CAD 03

(CONT'D)

(CONT'D)

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	DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
TO POWER DIST CIRCUIT										TO SUBSCRIBER UNIT										TO LINE UNIT										TO SUBSCRIBER UNIT									
-48V00										-48V00										-48V01										-48V02									
GRD04008										GRD04008										GRD04008										GRD04008									
-48V01										-48V02										-48V02										-48V02									
GRD04008										GRD04008										GRD04008										GRD04008									
-48V02										-48V02										-48V02										-48V02									
GRD04008										GRD04008										GRD04008										GRD04008									
TO SUBSCRIBER UNIT										TO SUBSCRIBER UNIT										TO SUBSCRIBER UNIT										TO SUBSCRIBER UNIT									
RD.000										RD.000										RD.000										RD.000									
RD.100										RD.100										RD.100										RD.100									
RD.200										RD.200										RD.200										RD.200									
RD.300										RD.300										RD.300										RD.300									
RD.001										RD.001										RD.001										RD.001									
RD.101										RD.101										RD.101										RD.101									
RD.201										RD.201										RD.201										RD.201									
RD.301										RD.301										RD.301										RD.301									
TO.000										TO.000										TO.000										TO.000									
TO.100										TO.100										TO.100										TO.100									
TO.200										TO.200										TO.200										TO.200									
TO.300										TO.300										TO.300										TO.300									
TO.001										TO.001										TO.001										TO.001									
TO.101										TO.101										TO.101										TO.101									
TO.201										TO.201										TO.201										TO.201									
TO.301										TO.301										TO.301										TO.301									
RI.000										RI.000										RI.000										RI.000									
RI.100										RI.100										RI.100										RI.100									
RI.200										RI.200										RI.200										RI.200									
RI.300										RI.300										RI.300										RI.300									
RI.001										RI.001										RI.001										RI.001									
RI.101										RI.101										RI.101										RI.101									
RI.201										RI.201										RI.201										RI.201									
RI.301										RI.301										RI.301										RI.301									
TI.000										TI.000										TI.000										TI.000									
TI.100										TI.100										TI.100										TI.100									
TI.200										TI.200										TI.200										TI.200									
TI.300										TI.300										TI.300										TI.300									
TI.001										TI.001										TI.001										TI.001									
TI.101										TI.101										TI.101										TI.101									
TI.201										TI.201										TI.201										TI.201									
TI.301										TI.301										TI.301										TI.301									

PERIODIC PULSE METERING UNIT		DWG SIZE	ISSUE
		CZ	1
BELL LABORATORIES	SD-5X202-01	GB2	

CAD 03
(CONT'D)

CAD 03
(CONT'D)

TO CONNECTION		FROM CONNECTION								
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	
.....J1		04-132 JACK/CP							
TO SUBSCRIBER UNIT	RD.010			002	RD.010					
	RD.110			003	RD.110					
	RD.210			004	RD.210					
	RD.310			005	RD.310					
	RD.011			006	RD.011	04-140	CP	002		
	RD.111			007	RD.111	04-140	CP	003		
	RD.211			008	RD.211	04-140	CP	004		
	RD.311			009	RD.311	04-140	CP	005		
	TD.010			102	TD.010					
	TD.110			103	TD.110					
	TD.210			104	TD.210					
	TD.310			105	TD.310					
	TD.011			106	TD.011	04-140	CP	102		
	TD.111			107	TD.111	04-140	CP	103		
	TD.211			108	TD.211	04-140	CP	104		
	TD.311			109	TD.311	04-140	CP	105		
.....J2		04-132 JACK/CP							
TO LINE UNIT	RI.010			015	RI.010					
	RI.110			016	RI.110					
	RI.210			017	RI.210					
	RI.310			018	RI.310					
	RI.011			019	RI.011	04-140	CP	015		
	RI.111			020	RI.111	04-140	CP	016		
	RI.211			021	RI.211	04-140	CP	017		
	RI.311			022	RI.311	04-140	CP	018		
	TI.010			115	TI.010					
	TI.110			116	TI.110					
	TI.210			117	TI.210					
	TI.310			118	TI.310					
	TI.011			119	TI.011	04-140	CP	115		
	TI.111			120	TI.111	04-140	CP	116		
	TI.211			121	TI.211	04-140	CP	117		
	TI.311			122	TI.311	04-140	CP	118		
.....J1		04-148 JACK/CP							
TO SUBSCRIBER UNIT	RD.012			002	RD.012					
	RD.112			003	RD.112					
	RD.212			004	RD.212					
	RD.312			005	RD.312					
	RD.013			006	RD.013	04-156	CP	002		
	RD.113			007	RD.113	04-156	CP	003		
	RD.213			008	RD.213	04-156	CP	004		
	RD.313			009	RD.313	04-156	CP	005		
	TD.012			102	TD.012					
	TD.112			103	TD.112					
	TD.212			104	TD.212					
	TD.312			105	TD.312					
	TD.013			106	TD.013	04-156	CP	102		
	TD.113			107	TD.113	04-156	CP	103		
	TD.213			108	TD.213	04-156	CP	104		
	TD.313			109	TD.313	04-156	CP	105		
.....J2		04-148 JACK/CP							
TO LINE UNIT	RI.012			015	RI.012					
	RI.112			016	RI.112					
	RI.212			017	RI.212					
	RI.312			018	RI.312					
	RI.013			019	RI.013	04-156	CP	015		
	RI.113			020	RI.113	04-156	CP	016		
	RI.213			021	RI.213	04-156	CP	017		
	RI.313			022	RI.313	04-156	CP	018		
	TI.012			115	TI.012					
	TI.112			116	TI.112					
	TI.212			117	TI.212					
	TI.312			118	TI.312					
	TI.013			119	TI.013	04-156	CP	115		
	TI.113			120	TI.113	04-156	CP	116		
	TI.213			121	TI.213	04-156	CP	117		
	TI.313			122	TI.313	04-156	CP	118		
.....J1		04-164 JACK/CP							
TO SUBSCRIBER UNIT	RD.014			002	RD.014					
	RD.114			003	RD.114					
	RD.214			004	RD.214					
	RD.314			005	RD.314					
	RD.015			006	RD.015	04-172	CP	002		

TO CONNECTION		FROM CONNECTION								
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	
.....J1		04-164 (CONT'D) JACK/CP							
	RD.115			007	RD.115	04-172	CP	003		
	RD.215			008	RD.215	04-172	CP	004		
	RD.315			009	RD.315	04-172	CP	005		
	TD.014			102	TD.014					
	TD.114			103	TD.114					
	TD.214			104	TD.214					
	TD.314			105	TD.314					
	TD.015			106	TD.015	04-172	CP	102		
	TD.115			107	TD.115	04-172	CP	103		
	TD.215			108	TD.215	04-172	CP	104		
	TD.315			109	TD.315	04-172	CP	105		
.....J2		04-164 JACK/CP							
TO LINE UNIT	RI.014			015	RI.014					
	RI.114			016	RI.114					
	RI.214			017	RI.214					
	RI.314			018	RI.314					
	RI.015			019	RI.015	04-172	CP	015		
	RI.115			020	RI.115	04-172	CP	016		
	RI.215			021	RI.215	04-172	CP	017		
	RI.315			022	RI.315	04-172	CP	018		
	TI.014			115	TI.014					
	TI.114			116	TI.114					
	TI.214			117	TI.214					
	TI.314			118	TI.314					
	TI.015			119	TI.015	04-172	CP	115		
	TI.115			120	TI.115	04-172	CP	116		
	TI.215			121	TI.215	04-172	CP	117		
	TI.315			122	TI.315	04-172	CP	118		

CAD 04

TO CONNECTION		FROM CONNECTION								
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE	
.....J1		04-028 JACK/CP							
TO MODULAR CONTROL UNIT	NINTON			033	NINTON					
	SLCTON			034	SLCTON					
	CLKON			035	CLKON					
	MSGON			036	MSGON					
	RPLYON			037	RPLYON					
	NINTOP			133	NINTOP					
	SLCTOP			134	SLCTOP					
	CLKOP			135	CLKOP					
	MSGOP			136	MSGOP					
	RPLYOP			137	RPLYOP					
.....J2		04-028 JACK/CP							
TO MODULAR CONTROL UNIT	NINTIN			233	NINTIN					
	SLCTIN			234	SLCTIN					
	CLKIN			235	CLKIN					
	MSGIN			236	MSGIN					
	RPLYIN			237	RPLYIN					
	NINT1P			333	NINT1P					
	SLCT1P			334	SLCT1P					
	CLK1P			335	CLK1P					
	MSG1P			336	MSG1P					
	RPLY1P			337	RPLY1P					

PERIODIC PULSE METERING UNIT		DWG SIZE	ISSUE
		C2	1
BELL LABORATORIES	SD-5X202-01	GB3	