SHEET INDEX

CONTENTS	SHEET NO.	ISSUE NO. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SHEET INDEX SUPPORTING INFORMATION USED ON TABLE	A1	1	2	3	4	5	6	7																		
APPARATUS INDEX	A2	1	2	2	2	2	2	7																		
OPTION INDEX	A3	1	2	2	4	5	5	7																		
FS 1 CONTROL AND INTERFACE CIRCUITS FOR LEFT TTYC	B1AA		2	3	4	4	4	7																		
	B1AB		2	2	4	4	4	4																		
	B1CA	1	2	3	4	4	4	7																		
	B1CB	1	2	3	4	4	4	7																		
FS 2 CONTROL AND INTERFACE CIRCUITS FOR RIGHT TTYC	B2AA		2	3	4	4	4	7																		
	B2AB		2	2	4	4	4	4																		
	B2CA	1	2	3	4	4	4	7																		
	B2CB	1	2	3	4	4	4	7																		
FS 3 LEFT TTYC PORT CONNECTORS	B3AA		2	3	4	4	6	6																		
	B3AB		2	2	2	2	2	2																		
	B3CA	1	2	2	2	2	6	6																		
	B3CB	1	2	2	2	2	2	2																		
FS 4 RIGHT TTYC PORT CONNECTORS	B4AA		2	3	4	4	6	6																		
	B4AB		2	2	2	2	2	2																		
	B4CA	1	2	2	2	2	6	6																		
	B4CB	1	2	2	2	2	2	2																		
FS 5 POWER AND ALARMS	B5AA		2	2	4	5	5	7																		
	B5AB		2	2	2	2	2	2																		
	B5CA	1	2	2	2	2	2	2																		
	B5CB		2	2	2	5	5	5																		
APP FIG. 1-6	C1	1	2	2	4	5	5	7																		
SHEET CANCELED ON ISS 2A	C2																									
CIRCUIT NOTES EQUIPMENT NOTES	D1	1	2	2	4	5	5	7																		
INFORMATION NOTES	D2		2	2	4	4	4	4																		
	D3		2	2	2	2	2	7																		
	D4		2	3	3	3	3	7																		
	D5		2	3	3	3	3	3																		
	D6		2	3	4	4	4	4																		
	D7			3	3	5	5	5																		
CAD NOTES	GB1	1	2	2	2	2	2	2																		
CAD 1 UNIT SYMBOL	GB2	1	2	2	2	2	2	2																		
CAD 2-7	GB3	1	2	2	2	2	2	2																		
CAD 8-14	GB4	1	2	2	2	2	6	6																		

CONTENTS	SHEET NO.	ISSUE NO. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
CAD 15-22	GB5		2	2	2	2	6	6																		
CAD 23-31	GB6		2	2	2	2	6	6																		

DWG ISSUE	CD ISSUE	DATE ISSUED	DRAWN	APPD
1	1	11-27-74	DNR	JJR
			DNR	MTS
				RFG
2A	2A	11-17-75	AS	UAR
			DNR	UAR
				RFG
3D	2A APPX ID	6-11-76	CED	DDM
			DNR	LEG
				RFG
4A	3A	7-6-77	WNB	AAM
			WMF	LEG
				JBD
5AC	3A APPX IAC	8-10-78	WA	CMB
			DNR	TG
				MG
6A	3A APPX 2A	9-10-78	S.E.	CRD
			DNR	TG
				MG
7AC	3A APPX 3AC	12-28-78	SRG	CMB
			DNR	TSG
				MG

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 AS A WHOLE.

SUPPORTING INFORMATION

CATEGORY	NO.
CIRCUIT PACK SCHEMATICS	CPS-*
EQUIPMENT DRAWING	J10054A
+3V DC-DC CONVERTER	SD-82161-02
1080 DATA SET	SD-73060-01
AF17 (P/O DAS 8200 OR 8201)	SD-30031-01

* - SCHEMATICS OF ALL FA,FB AND FC CODED CIRCUIT PACKS USED IN THIS CIRCUIT ARE SHOWN ON DRAWINGS NUMBERED WITH A CPS PREFIX FOLLOWED BY THE CODE OF THE PACK, e.g., CPS-FA1058.

ISSUE 7AC

1N98

COMMON SYSTEMS

TELETYPEWRITER CONTROLLER UNIT CIRCUIT

AT&TCO STANDARD

(2) SD-1C905-01-A1

37 SHEETS

BELL TELEPHONE LABORATORIES INCORPORATED

6S

APPARATUS INDEX

EQUIP LOC	APP NO.	FIGURE SH NO.
CIRCUIT PACKS		
02-16	2	
02-17	2	
02-17	2	
02-18	3	
02-18	4	
02-19	1	
02-25	1	
02-26	1	
02-27	3	
02-27	4	
02-28	2	
02-28	2	
02-29	2	
03-01	5	
03-01	6	
03-04	5	
03-04	6	
03-07	5	
03-07	6	
03-10	5	
03-10	6	
03-31	5	
03-31	6	
03-34	5	
03-34	6	
03-37	5	
03-37	6	
03-40	5	
03-40	6	
DESIG		
FIL	1	
LCHCTL	2	
LLNCTL	2	
LLNCTL	2	
P0DS	3	
P0TTYIF	6	
P1DS	5	
P1TTYIF	6	
P2DS	5	
P2TTYIF	6	
P3DS	5	
P3TTYIF	6	
P4DS	5	
P4TTYIF	6	
P5DS	5	
P5TTYIF	6	
P6DS	5	
P6TTYIF	6	
P7DS	5	
P7TTYIF	6	
RCHCTL	2	
REF	1	
RLNCTL	2	
RLNCTL	2	

DESIG	LOCATION FS/SYM	APPFIG	EQPT
RELAY			
MJ	5/8	1	
MN	5/10	1	
CIRCUIT PACK-CP			
-24VCONV	5/4	1	02-25
FALM	5/5	1	02-25
FIL	5/2	1	02-19
LCHCTL	1/3	2	02-29
LCHIF	1/1	3	02-27
LCHIF	1/1	4	02-27
LLNCTL	1/6	2	02-28
LLNCTL	1/6	2	02-28
LLNIF	1/4	3	02-27
LLNIF	1/4	4	02-27
LLNTIM	1/7	3	02-27
LLNTIM	1/7	4	02-27
P0DS	4/1	5	03-01
P0TTYIF	4/2	6	03-01
P1DS	4/3	5	03-04
P1TTYIF	4/4	6	03-04
P2DS	4/5	5	03-07
P2TTYIF	4/6	6	03-07
P3DS	4/7	5	03-10
P3TTYIF	4/8	6	03-10
P4DS	3/1	5	03-31
P4TTYIF	3/2	6	03-31
P5DS	3/3	5	03-34
P5TTYIF	3/4	6	03-34
P6DS	3/5	5	03-37
P6TTYIF	3/6	6	03-37
P7DS	3/7	5	03-40
P7TTYIF	3/8	6	03-40
PALM	5/6	1	02-25
RCHCTL	2/3	2	02-16
RCHIF	2/1	3	02-18
RCHIF	2/1	4	02-18
REF	5/3	1	02-26
RLNCTL	2/6	2	02-17
RLNCTL	2/6	2	02-17
RLNIF	2/4	3	02-18
RLNIF	2/4	4	02-18
RLNTIM	2/7	4	02-18
RLNTIM	2/7	3	02-18
DIODE			
CR1	5/9	1	05-21R
CR2	5/11	1	05-21RA
POWER MODULE			
+3VCONV	5/1	1	02-23

DESIG	LOCATION FS/SYM	APPFIG	EQPT
SWITCH			
PWRSW	5/7	1	07-23

ISSUE 7AC

TELETYPEWRITER CONTROLLER UNIT

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE C2

SD-1C905-01-A2

SD-1C905-01-A2

OPTION INDEX

APP ØR WRG	RATED ØN ISSUE	REF NØTES	LØCATIØN
3	STD 1		APP FIG. 3
4	STD 1		APP FIG. 4
5	STD 1		APP FIG. 5
6	STD 1		APP FIG. 6
Z	STD 2		APP FIG. 2,3,4
Y	STD 2		APP FIG. 2,3,4
X	STD 4	109	1/6, 2/6
W	STD 4	109	1/6, 2/6
V	STD 4	109	1/6, 2/6
U	STD 4	109	1/6, 2/6
T	STD 4	109	1/6, 2/6
S	STD 4	108	1/6, 2/6
R	STD 4	108	1/6, 2/6
P	STD 5		5/8, 5/10
N	STD 7		1/6
M	STD 7		1/6
K	STD 7		2/6
J	STD 7		2/6

ISSUE 7AC

TELETYPEWRITER CØNTRØLLER UNIT (2) SD-IC905-01-A3

BELL TELEPHONE LABORATORIES INCORPORATED 6S

PART OF FS I

CØNTRØL AND INTERFACE CIRCUITS FØR LEFT TTYC
INTERCØNNECTIØN AND FLØW DIAGRAM

SYMBØL NØ. 1
LEFT CHANNEL INTERFACE
LCHIF
02-27

④ Y FC200 A ③ Y FC261 A

SYMBØL NØ. 3
LEFT CHANNEL CØNTRØL
LCHCTL
02-29
FA1058
A

Y

SYMBØL NØ. 6
LEFT LINE CØNTRØL
LLNCTL
02-28

N FA1059 A M FA1072 A

SYMBØL NØ. 7
LEFT LINE TIMER
LLNTIM
02-27

④ Y FC200 C ③ Y FC261 C

SYMBØL NØ. 4
LEFT LINE INTERFACE
LLNIF
02-27

④ Y FC200 B ③ Y FC261 B

T0 CØNN CKT

LDION, LDIOP, LDITN, LDITP

P

LIDPO

LIDØV1, LØACTO, LZACTO

LIDO, LSHFTO

LEN0ØØ, LENZØØ, LØØO, LSINTO

(2 LEADS)

(3 LEADS)

(4 LEADS)

(10 LEADS)

(16 LEADS)

LCBX80

LL8XC80

3VG0229B, 3VG0229T

LBDVG10, LRSIA0, LLR7G10-LLR0G10

LSTRTO, LEPDI0-LEPAG0, LCLRLH0, LCLRJY1, LCBXL80, LCB7G10-LCB0G10

3VG0228B, 3VG0228T

LTFHBITO SEE NOTE 106

LINITIO

LMTIC

LLTTBC1

LLTTBC1

LLTIM1

LCT1111

FOR BAUD RATE CONNECTIONS SEE NOTE 109

LTPDO-LTPA0 (4 LEADS)

LFPD11-LFPA11

LSALMD1-LSALMA1

+24ST 5/7

L-24 5/4

R70,AL70

R60,AL60

R50,AL50

R40,AL40

LD0ON, LD0OP, LD01N, LD01P, LI0N, LI0P, LI1N, LI1P

LB1X01, L300C1, L600C1, LCT111

FOR BAUD RATE CONNECTIONS SEE NOTE 109

S70, S60, S50, S40

T0 CØNN CKT, 3/12 · T0 CØNN CKT, 3/11 · T0 CØNN CKT, 3/10 · T0 CØNN CKT, 3/9

T0 CØNN CKT, 3/7, 3/12 · T0 CØNN CKT, 3/5, 3/11 · T0 CØNN CKT, 3/3, 3/10 · T0 CØNN CKT, 3/1, 3/9

PART ØF FS 1
INTERCØNNECTIØN AND FLØW DIAGRAM

TELETYPEWRITER CØNTRØLLER UNIT (2)	DWG SIZE 65	ISSUE 7AC
BELL LABORATORIES	SD-IC905-01	BIAA

E - 7931 (12 - 73) PRINTED IN U.S.A.

PART OF FS 1

CONTROL AND INTERFACE
CIRCUITS FOR LEFT TTYC

SYMBOL/LEAD DESIGNATIONS	
MNEMONIC	DEFINITION
+24ST	SWITCHED +24V TO TTYC CIRCUITS
+3V	+3V FOR TTYC CIRCUITS
AL40-AL70	ALARM SIGNAL FROM TTY, PORTS 4-7
GRDA	GROUND
L-24	-24V FOR LEFT CONTROLLER
L300C1	LEFT 300 BAUD COUNTER OUTPUT
L600C1	LEFT 600 BAUD COUNTER OUTPUT
LB1XC1	LEFT 110 OR 150 BAUD COUNTER OUTPUT
LCBXLB0	LEFT CHANNEL BUFFER TO LINE BUFFER GATING SIGNAL
LCBXSB0	LEFT CHANNEL BUFFER TO STATUS BITS GATING SIGNAL
LCBX0G10-LCBX7G10	LEFT CHANNEL BUFFER OUTPUTS, BITS 0-7
LCLRDY1	LEFT CLEAR CHARACTER READY FLAG
LCLRLB0	LEFT CLEAR LINE BUFFER
LCT111	LEFT COUNTER DIVIDE BY 11 OUTPUT
LCT1111	LEFT COUNTER DIVIDE BY 11 INPUT
LDI0N,LDI0P	LEFT DATA INPUT FROM 3A CC 0
LDI1N,LDI1P	LEFT DATA INPUT FROM 3A CC 1
LDO0N,LDO0P	LEFT DATA OUTPUT TO 3A CC 0
LDO1N,LDO1P	LEFT DATA OUTPUT TO 3A CC 1
LEN0D0	LEFT ENABLE OUTPUT PORT TO 3A CC ONE
LENZD0	LEFT ENABLE OUTPUT PORT TO 3A CC ZERO
LEPA00-LEPD00	LEFT ENABLE TTY, PORTS A-D
LFPA11-LFPD11	LEFT RECEIVE DATA FROM TTY PORT INTERFACE CIRCUITS, PORTS A-D
LIDOV1	LEFT INCOMING DATA OVER
LIDP0	LEFT INCOMING DATA PRESENT
LID0	LEFT INCOMING DATA
LINITI0	LEFT INITIALIZE (USED FOR CP TEST ONLY)
LI0N,LI0P	LEFT INTERRUPT SIGNAL TO 3A CC 0
LI1N,LI1P	LEFT INTERRUPT SIGNAL TO 3A CC 1
LLBXCB0	LEFT LINE REGISTER TO CHANNEL BUFFER GATING SIGNAL
LLR0G10-LLR7G10	LEFT LINE REGISTER OUTPUT, BITS 0-7
LLTIM1	LEFT LINE TIMING SIGNAL
LLTTBC1	LEFT LINE TIMER TO BINARY COUNTER SIGNAL
LMTI0	LEFT MAINTENANCE TOGGLE INPUT (USED FOR CP TEST ONLY)
LOACT0	LEFT INPUT FROM 3A CC ONE IS ACTIVE

SYMBOL/LEAD DESIGNATIONS	
MNEMONIC	DEFINITION
LOD0	LEFT OUTGOING DATA
LRDYG10	LEFT CHARACTER READY FLAG
LRSTA0	LEFT LINE CIRCUITS ARE IN THE REST STATE
LSALMA1-LSALMD1	LEFT ALARM SIGNALS FROM TTY PORT INTERFACE CIRCUITS, PORTS A-D
LSHFT0	LEFT SHIFT SIGNAL TO CHANNEL CIRCUITS
LSINT0	LEFT SEND INTERRUPT
LSTRT0	LEFT SET LINE CIRCUITS TO TRANSMIT STATE
LTENBIT0	LEFT 10-BIT OPTION GROUND CONNECTION
LTPA0-LTPD0	LEFT OUTGOING DATA TO TTY PORT INTERFACE CIRCUITS, PORTS A-D
LZACT0	LEFT INPUT FROM 3A CC ZERO IS ACTIVE
R40-R70	INCOMING DATA RECEIVED FROM TTY, PORTS 4-7
S40-S70	OUTGOING DATA TO BE SENT TTY, PORTS 4-7
3VG** *,3VG***T	HARD WIRE GROUND (*****=EQPT LOC)

TELETYPEWRITER CONTROLLER UNIT		DWG SIZE C2	ISSUE 4A
BELL LABORATORIES	SD-1C905-01		81AB
PRINTED IN U. S. A.			04719777

PART OF FS 1

CONTROL AND INTERFACE CIRCUITS FOR LEFT TTYC

SYMBOL NO. 1

LEFT CHANNEL INTERFACE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
LCHIF	02-27	FCZ00	A	(4)(Y)
LCHIF	02-27	FCZ61	A	(3)(Y)

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
LDI0N	I	303	TO CONN CKT	P/LDI0P	DI0N	2A1
LDI0P	I	203	TO CONN CKT	P/LDI0N	DI0P	2A0
LDI1N	I	002	TO CONN CKT	P/LDI1P	DI1N	2A2
LDI1P	I	101	TO CONN CKT	P/LDI1N	DI1P	2A1
LDO0N	O	305	TO CONN CKT	P/LDO0P	DO0N	2G1
LDO0P	O	206	TO CONN CKT	P/LDO0N	DO0P	2G2
LDO1N	O	304	TO CONN CKT	P/LDO1P	DO1N	2G2
LDO1P	O	205	TO CONN CKT	P/LDO1N	DO1P	2G2
LEN000	I	207	1/3		EN000	2A2
LENZ00	I	307	1/3		ENZ00	2A2
LIDOV1	O	003	1/3		IDOV1	2G5
	I	306	1/1		IDOV11	2A2
LIDP0	O	202			IDP0	2G0
	I	103			IDP10	2A5
LID0	O	201	1/3		ID0	2G0
LI0N	O	105	TO CONN CKT	P/LI0P	I0N	2G3
LI0P	O	005	TO CONN CKT	P/LI0N	I0P	2G3
LI1N	O	104	TO CONN CKT	P/LI1P	I1N	2G4
LI1P	O	004	TO CONN CKT	P/LI1N	I1P	2G4
LOACT0	O	301	1/3		OACT0	2G1
	I	208	1/1		INHZ10	2A1
LOD0	I	302	1/3		OD0	2A2
LSHFT0	O	308	1/3		SHFT0	2G0
LSINT0	I	102	1/3		SINT0	2A4
LZACT0	O	300	1/3		ZACT0	2G0
	I	209	1/1		INHO10	2A2

SYMBOL NO. 3

LEFT CHANNEL CONTROL

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
LCHCTL	02-29	FA1058	A	(Y)

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+3V	PWR	000	5/1	201	+3	
	PWR	119	5/1	201	+3	
GRDA	GRD	0GD	5/1	201	GRD	
	GRD	2GD	5/1	201	GRD	
	GRD	200	5/1	201	GRD	
	GRD	319	5/1	201	GRD	
LCBXLB0	O	008	1/6		CBXLB0	3H2
LCBXSB0	OI	207			CBXSB0	3H2
LCB0G10	O	016	1/6		CB0G10	7H2
LCB1G10	O	219	1/6		CB1G10	7H0
LCB2G10	O	116	1/6		CB2G10	6H8
LCB3G10	O	216	1/6		CB3G10	6H7
LCB4G10	O	007	1/6		CB4G10	6H6
LCB5G10	O	003	1/6		CB5G10	6H4
LCB6G10	O	001	1/6		CB6G10	6H3
LCB7G10	O	100	1/6		CB7G10	6H2
LCLRDY1	O	311	1/6		CLRDY1	3H4
.CLRLB0	O	010	1/6		CLRLB0	3H2

SYMBOL NO. 3 (CONT)

LEFT CHANNEL CONTROL

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
LCHCTL	02-29	FA1058	A	(Y)

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
LEND00	O	009	1/1		EN000	2H7
LENZ00	O	209	1/1		ENZ00	2H7
LEPAG0	O	312	1/6		EPAG0	8H1
LEPBG0	O	112	1/6		EPBG0	8H1
LEPCG0	O	213	1/6		EPCG0	8H3
LEPDG0	O	013	1/6		EPDG0	8H3
LIDOV1	I	014	1/1		IDOV1	2A3
LID0	I	111	1/1		ID0	5A3
LLBXCB0	OI	011			LBXCB0	3H4
LLR0G10	I	315	1/6		LR0G10	7A1
LLR1G10	I	316	1/6		LR1G10	7A0
LLR2G10	I	019	1/6		LR2G10	6A8
LLR3G10	I	318	1/6		LR3G10	6A6
LLR4G10	I	118	1/6		LR4	6A5
LLR5G10	I	218	1/6		LR5	6A4
LLR6G10		018	1/6		LR6G10	6A2
LLR7G10		317	1/6		LR7G10	6A1
LOACT0	I	108	1/1		OACT0	2A7
LOD0	O	104	1/1		OD0	7H6
LRDYG10	I	313	1/6		RDYA0	3A1
LRSTA0	I	117	1/6		RSTA10	3A0
LSALMA1	I	115	1/4		SALMA1	8A5
LSALMB1	I	215	1/4		SALMB1	8A6
LSALMC1	I	015	1/4		SALMC1	8A6
LSALMD1	I	214	1/4		SALMD1	8A7
LSHFT0	I	208	1/1		SHFT0	2A1
LSINT0	O	113	1/1		SINT0	3H1
LSTRT0	O	308	1/6		STRT0	3H3
LZACT0	I	309	1/1		ZACT0	2A7
3VG02298	GRD	005			GRD005	2E9
	GRD	102			GRD102	2E9
	GRD	107			GRD107	2D9
	GRD	200			GRD	
	GRD	205			GRD205	2D9
	GRD	302			GRD302	2E9
	GRD	307			GRD307	2D9
3VG0229T	GRD	012			GRD012	2D9
	GRD	017			GRD017	2C9
	GRD	114			GRD114	2C9
	GRD	212			GRD212	2D9
	GRD	217			GRD217	2C9
	GRD	314			GRD314	2C9
	GRD	319			GRD	

SYMBOL NO. 4

LEFT LINE INTERFACE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
LLNIF	02-27	FC200	B	(4)(Y)
LLNIF	02-27	FC261	B	(3)(Y)

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+24ST	PWR	013	5/7		+24F	3G1
	PWR	019	5/7		+24	3G2
	PWR	112	5/7		+24F	3G1
	PWR	118	5/7		+24	3G2
+3V	PWR	000	5/1	201	+3	3G0
	PWR	119	5/1	201		
AL40	I	017	3/1 5/9 TO CONN CKT		ALA0	3A3
AL50	I	116	3/3 3/10 TO CONN CKT		ALB0	3A4
AL60	I	015	3/5 3/11 TO CONN CKT		ALC0	3A5
AL70	I	014	3/7 3/12 TO CONN CKT		ALD0	3A5
GRDA	GRD	0GD	5/1	201	GRD	3G1
	GRD	2GD	5/1	201		
	GRD	200	5/1	201	GRD	3G1
	GRD	319	5/1	201	GRD	3G1
L-24	PWR	218	5/4		-24	3G1
	PWR	318	5/4		-24	3G1
LFPA11	O	214	1/6		FPA11	3G3
LFPB11	O	215	1/6		FPB11	3G4
LFPC11	O	216	1/6		FPC11	3G5
LFPD11	O	217	1/6		FPD11	3G6
LSALMA1	O	009	1/3		SALMA1	3G3
LSALMB1	O	011	1/3		SALMB1	3G4
LSALMC1	O	315	1/3		SALMC1	3G5
LSALMC1	O	316	1/3		SALMD1	3G5
LTPAC	I	210	1/6		TPA0	3A6
LTPB0	I	213	1/6		TPB0	3A7
LTPC0	I	109	1/6		TPC0	3A8
LTPD0	I	110	1/6		TPD0	3A8
R40	I	016	3/1,3/9 TO CONN CKT		RA0	3A3
R50	I	115	3/3,3/10 TO CONN CKT		RB0	3A4
R60	I	114	3/5,3/11 TO CONN CKT		RC0	3A5
R70	I	113	3/7,3/12 TO CONN CKT		RD0	3A6
S40	OT	310	3/9 TO CONN CKT		SA0	3G6
S50	OT	309	3/10 TO CONN CKT		SB0	3G7
S60	OT	108	3/11 TO CONN CKT		SC0	3G8
S70	OT	008	3/12 TO CONN CKT		SD0	3G9

PART OF FS 1

SYMBOL(S) 1 3 4

TELETYPEWRITER CONTROLLER UNIT	DWG SIZE C2	ISSUE 7AC
BELL LABORATORIES SD-1C905-01		B1CA

PRINTED IN U. S. A. 12/19/78

PART OF FS 1

CONTROL AND INTERFACE CIRCUITS FOR LEFT TTYC

SYMBOL NO. 6

LEFT LINE CONTROL

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
LLNCTL	02-28	FA1059	A	(N)
LLNCTL	02-28	FA1072	A	(M)

FS INFO					CP INFO	
LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+3V	PWR	000	5/1	201	+3	
	PWR	119	5/1	201	+3	
GRDA	GRD	0GD	5/1	201	GRD	
	GRD	2GD	5/1	201	GRD	
	GRD	200	5/1	201	GRD	
	GRD	319	5/1	201	GRD	
LB1X01	O	106		109	B1X01	10H3
LCBXLB0	I	116	1/3		CBXLB0	3A0
LCB0G10	I	316	1/3		CB0G0	4A5
LCB1G10	I	117	1/3		CB1G0	4A4
LCB2G10	I	317	1/3		CB2G0	4A2
LCB3G10	I	315	1/3		CB3G0	4A1
LCB4G10	I	313	1/3		CB4G0	3A6
LCB5G10	I	014	1/3		CB5G0	3A4
LCB6G10	I	214	1/3		CB6G0	3A3
LCB7G10	I	015	1/3		CB7G0	3A0
LCLRDY1	I	115	1/3		CLRDY1	2A5
LCLRLB0	I	113	1/3		CLRLB0	3A2
LCT111I	I	310		109	CT111O	10A1
LCT111	O	207		109	CT110O	10H1
LEPAG0	I	019	1/3		EPAG0	9A0
LEPBG0	I	318	1/3		EPBG0	9A1
LEPCG0	I	018	1/3		EPCG0	9A2
LEPDG0	I	218	1/3		EPDG0	9A3
LFPAI1	I	219	1/4		FPAI1	9A0
LFPBI1	I	118	1/4		FPBI1	9A1
LFPCI1	I	213	1/4		FPCI1	9A2
LFPDI1	I	216	1/4		FPDI1	9A3
LINITI0	I	309			INITI0	9A6
LLR0G10	O	305	1/3		LR0G10	5H7
LLR1G10	O	105	1/3		LR1G10	5H7
LLR2G10	O	013	1/3		LR2G10	5H5
LLR3G10	O	312	1/3		LR3G10	5H5
LLR4G10	O	210	1/3		LR4G10	5H4
LLR5G10	O	010	1/3		LR5G10	5H3
LLR6G10	O	112	1/3		LR6G10	5H2
LLR7G10	O	110	1/3		LR7G10	5H2
LLTIMT	I	215		109	LTIM1	7A8
LLTTBC1	I	209	1/7		TBC0	10A1
LMTI0	I	109			MTI0	6A8
LRDYG10	O	103	1/3		RDYG10	2H4
LRSTA0	O	006	1/3		RSTA0	2H1
LSTRT0	I	016	1/3		STRT0	2A2
LTENBIT0	I	206		108	TENBIT10	6A4
LTPA0	O	211	1/4		TPA0	9H1
LTPB0	O	311	1/4		TPB0	9H2
LTPC0	O	111	1/4		TPC0	9H3
LTPD0	O	011	1/4		TPD0	9H4
L300C1	O	007		109	B3001	10H5
L600C1	O	306		109	B6001	10G7
3VG0228	GRD	005			GRD005	2D8
	GRD	102			GRD102	2D8
	GRD	107			GRD107	2D8
	GRD	200			GRD	
	GRD	205			GRD205	2C8
	GRD	302			GRD302	2C8
	GRD	307			GRD307	2B8

SYMBOL NO. 6 (CONT)

LEFT LINE CONTROL

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
LLNCTL	02-28	FA1059	A	(N)
LLNCTL	02-28	FA1072	A	(M)

FS INFO					CP INFO	
LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
3VG0228T	GRD	012			GRD012	2D8
3VG0228T	GRD	017			GRD017	2D8
	GRD	114			GRD114	2C8
	GRD	212			GRD212	2C8
	GRD	217			GRD217	2C8
	GRD	314			GRD314	2B8
	GRD	319			CRD	

SYMBOL NO. 7

LEFT LINE TIMER

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
LLNTIM	02-27	FC200	C	(4)(Y)
LLNTIM	02-27	FC261	C	(3)(Y)

FS INFO					CP INFO	
LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
LLTTBC1	O	204	1/6	109	LTIMO1	2G7

PART OF FS 1
SYMBOL(S) 6 7

TELETYPEWRITER CONTROLLER UNIT	DWG SIZE C2	ISSUE 7AC
BELL LABORATORIES SD-1C905-01		B1CB

PRINTED IN U. S. A. 12/19/78

PART OF FS 2

CØNTRØL AND INTERFACE CIRCUITS FØR RIGHT TTYC
INTERCØNNECTIØN AND FLØW DIAGRAM

SYMBØL NØ. 7
RIGHT LINE TIMER
RLNTIM
02-18
④ Z FC200 B
⑤ Z FC261 B

SYMBØL NØ. 1
RIGHT CHANNEL INTERFACE
RCHIF
02-18
① Z FC200 A
③ Z FC261 A

SYMBØL NØ. 3
RIGHT CHANNEL CØNTRØL
RCHCTL
02-16
FA1058 A
Z

SYMBØL NØ. 6
RIGHT LINE CØNTRØL
RLNCTL
02-17
K FA1059 A
J FA1072 A

SYMBØL NØ. 4
RIGHT LINE INTERFACE
RLNIF
02-18
④ Z FC200 B
⑤ Z FC261 B

TØ CØNN CKT

RDIØN RDIØP RDI1N RDI1P

RIØN RIØP RI1N RI1P

RIDPO

RIDØV1,RØACTO,RZACTO

RIDO,RSHFTO

REN090,REN200,
R000,RSINTO

3VG0216B,
3VG0216T

RCBXSBO

PL8XCBO

RIEN0100 SEE NOTE 108

RINITTO

RMTI*

RRDYG10,RRSTAO,
RLR7G10-RLRDG10

RSTRTO,
REPOGO-REPAGO,RCLRLBO,
RCLRDV1,RCBXLBO,RCB7G10-RCBDG10
(16 LEADS)

3VG0217B,
3BG0217T

RLTTBC1

RLTIBC1

RLTIM1

RCT1111

FOR BAUD RATE
CONNECTIONS
SEE NOTE 109

RB1X01

R300C1

R600C1

RCT111

FOR BAUD RATE
CONNECTIONS
SEE NOTE 109

PTPDO-RTPAO (4 LEADS)

RFPDJ1-RFPAI1

RSALM01-RSALM41

+24S1 5/7

R-24 5/4

R30.AL30 TØ CØNN CKT.4/7.4/12

R20.AL20 TØ CØNN CKT.4/5.4/11

R10.AL10 TØ CØNN CKT.4/3.4/10

R00.AL00 TØ CØNN CKT.4/1.4/9

TØ CØNN CKT.4/12 S30

TØ CØNN CKT.4/11 S20

TØ CØNN CKT.4/10 S10

TØ CØNN CKT.4/9 S00

(2 LEADS)
(3 LEADS)
(4 LEADS)
(10 LEADS)

PART ØF FS 2
INTERCØNNECTIØN AND FLØW DIAGRAM

TELETYPEWRITER CØNTRØLLER UNIT 2		DWG SIZE 6S	ISSUE 7AC
BELL LABORATORIES	SD-1C905-01		B2AA

PRINTED IN U.S.A.

PART OF FS 2

CONTROL AND INTERFACE
CIRCUITS FOR RIGHT TTYC

SYMBOL/LEAD DESIGNATIONS

MNEMONIC	DEFINITION
+24ST	SWITCHED +24V TO TTYC CIRCUITS
+3V	+3V FOR TTYC CKTS
AL00-AL30	ALARM SIGNAL FROM TTY, PORTS 0-3
GRDA	GROUND
R-24	-24V FOR RIGHT CONTROLLER
R300C1	RIGHT 300 BAUD COUNTER OUTPUT
R600C1	RIGHT 600 BAUD COUNTER OUTPUT
RB1X01	RIGHT 110 OR 150 BAUD COUNTER OUTPUT
RCBXLB0	RIGHT CHANNEL BUFFER TO LINE BUFFER GATING SIGNAL
RCBXSB0	RIGHT CHANNEL BUFFER TO STATUS BITS GATING SIGNAL
RCB0G10-RCB7G10	RIGHT CHANNEL BUFFER OUTPUTS, BITS 0-7
RCLRDY1	RIGHT CLEAR CHARACTER READY FLAG
RCLRLB0	RIGHT CLEAR LINE BUFFER
RCT1'1	RIGHT COUNTER DIVIDE BY 11 OUTPUT
RCT1111	RIGHT COUNTER DIVIDE BY 11 INPUT
RDI0N,RDI0P	RIGHT DATA INPUT FROM 3A CC 0
RDI1N,RDI1P	RIGHT DATA INPUT FROM 3A CC 1
RDO0N,RDO0P	RIGHT DATA OUTPUT TO 3A CC 0
RDO1N,RDO1P	RIGHT DATA OUTPUT TO 3A CC 1
RENO00	RIGHT ENABLE OUTPUT PORT TO 3A CC ONE
RENZ00	RIGHT ENABLE OUTPUT PORT TO 3A CC ZERO
REPA00-REPD00	RIGHT ENABLE TTY, PORTS A-D
RFPA11-RFPD11	RIGHT RECEIVED DATA FROM TTY PORT INTERFACE CIRCUITS, PORTS A-D
RIDOV1	RIGHT INCOMING DATA OVER
RIDP0	RIGHT INCOMING DATA PRESENT
RID0	RIGHT INCOMING DATA
RINIT10	RIGHT INITIALIZE (USED FOR CP TEST ONLY)
RI0N,RI0P	RIGHT INTERRUPT SIGNAL TO 3A CC 0
RI1N,RI1P	RIGHT INTERRUPT SIGNAL TO 3A CC 1
RLBXCB0	RIGHT LINE REGISTER TO CHANNEL BUFFER GATING SIGNAL
RLR0G10-RLR7G10	RIGHT LINE REGISTER OUTPUT, BITS 0-7
RLTIM1	RIGHT LINE TIMING SIGNAL
RLTTBC1	RIGHT LINE TIMER TO BINARY COUNTER SIGNAL
RMT10	RIGHT MAINTENANCE TOGGLE INPUT (USED FOR CP TEST ONLY)

SYMBOL/LEAD DESIGNATIONS

MNEMONIC	DEFINITION
ROACT0	RIGHT INPUT FROM 3A CC ONE IS ACTIVE
ROD0	RIGHT OUTGOING DATA
RRDYG10	RIGHT CHARACTER READY FLAG
RRSTA0	RIGHT LINE CIRCUITS ARE IN THE REST STATE
RSALMA1-RSALMD1	RIGHT ALARM SIGNALS FROM TTY PORT INTERFACE CIRCUITS, PORTS A-D
RSHFT0	RIGHT SHIFT SIGNAL TO CHANNEL CIRCUITS
RSINT0	RIGHT SEND INTERRUPT
RSTRT0	RIGHT SET LINE CIRCUITS TO TRANSMIT STATE
RTENBIT0	RIGHT 10-BIT OPTION GROUND CONNECTION
RTPA0-RTPD0	RIGHT OUTGOING DATA TO TTY PORT INTERFACE CIRCUITS, PORTS A-D
RZACT0	RIGHT INPUT FROM 3A CC ZERO IS ACTIVE
R00-R30	INCOMING DATA RECEIVED TTY, PORTS 0-3
S00-S30	OUTGOING DATA TO BE SENT BY TTY, PORTS 0-3
3VG****B,3VG****T	HARD WIRE GROUND (****=EQPT LOC)

TELETYPEWRITER CONTROLLER UNIT		DWG SIZE C2	ISSUE 4A
BELL LABORATORIES	SD-1C905-01		BZAB

PRINTED IN U. S. A. 04/19/77

PART OF FS 2

CONTROL AND INTERFACE CIRCUITS FOR RIGHT TTYC

SYMBOL NO. 1

RIGHT CHANNEL INTERFACE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
RCHIF	02-18	FC200	A	(4)(Z)
RCHIF	02-18	FC261	A	(3)(Z)

FS INFO: LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	CP INFO: TERM. MOD	LOC
RDI0N	I	307	TO CONN CKT	P/RDI0P	DI0N	2A1
RDI0P	I	205	TO CONN CKT	P/RDI0N	DI0P	2A0
RDI1N	I	002	TO CONN CKT	P/RDI1P	DI1N	2A2
RDI1P	I	101	TO CONN CKT	P/RDI1N	DI1P	2A1
RDO0N	O	305	TO CONN CKT	P/RDO0P	DO0N	2G1
RDO0P	O	206	TO CONN CKT	P/RDO0N	DO0P	2G2
RDO1N	O	304	TO CONN CKT	P/RDO1P	DO1N	2G2
RDO1P	O	205	TO CONN CKT	P/RDO1N	DO1P	2G2
RENOO0	I	207	2/3		ENO00	2A2
RENZO0	I	307	2/3		ENZO0	2A2
RIDOV1	O	003	2/3		IDOV1	2G5
	I	306	2/1		IDOV11	2A2
RIDP0	O	202			IDP0	2G0
	I	103			IDPI0	2A5
RID0	O	201	2/3		ID0	2G0
RI0N	O	105	TO CONN CKT	P/RI0P	I0N	2G3
RI0P	O	005	TO CONN CKT	P/RI0N	I0P	2G3
RI1N	O	104	TO CONN CKT	P/RI1P	I1N	2G4
RI1P	O	004	TO CONN CKT	P/RI1N	I1P	2G4
ROACT0	O	301	2/3		OACT0	2G1
	I	208	2/1		INHZI0	2A1
ROD0	I	302	2/3		OD0	2A2
RSHFT0	O	308	2/3		SHFT0	2G0
RSINT0	I	102	2/3		SINT0	2A4
RZACT0	O	300	2/3		ZACT0	2G0
	I	209	2/1		INHDI0	2A2

SYMBOL NO. 3

RIGHT CHANNEL CONTROL

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
RCHCTL	02-16	FA1058	A	(Z)

FS INFO: LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	CP INFO: TERM. MOD	LOC
+3V	PWR	000	5/1	201	+3	
	PWR	119	5/1	201	+3	
GRDA	GRD	0GD	5/1	201	GRD	
	GRD	2GD	5/1	201	GRD	
	GRD	200	5/1	201	GRD	
	GRD	319	5/1	201	GRD	
RCBXLB0	O	008	2/6		CBXLB0	3H2
RCBXSB0	OI	207			CBXSB0	3H2
RCB0G10	O	016	2/6		CB0G10	7H2
RCB1G10	O	219	2/6		CB1G10	7H0
RCB2G10	O	116	2/6		CB2G10	6H3
RCB3G10	O	216	2/6		CB3G10	6H7
RCB4G10	O	007	2/6		CB4G10	6H6
RCB5G10	O	003	2/6		CB5G10	6H4
RCB6G10	O	001	2/6		CB6G10	6H3
RCB7G10	O	100	2/6		CB7G10	6H2
RCLRDY1	O	311	2/6		CLRDY1	3H4
RCLRLB0	O	010	2/6		CLRLB0	3H2

SYMBOL NO. 3 (CONT)

RIGHT CHANNEL CONTROL

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
RCHCTL	02-16	FA1058	A	(Z)

FS INFO: LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	CP INFO: TERM. MOD	LOC
RENOO0	O	009	2/1		ENO00	2H7
RENZO0	O	209	2/1		ENZO0	2H7
REPAG0	O	312	2/6		EPAG0	8H1
REPBG0	O	112	2/6		EPBG0	8H1
REPCG0	O	213	2/6		EPCG0	8H3
REPDG0	O	013	2/6		EPDG0	8H3
RIDOV1	I	014	2/1		IDOV1	2A3
RID0	I	111	2/1		ID0	5A3
RLBXCB0	OI	011			LBXCB0	3H4
RLR0G10	I	315	2/6		LR0G10	7A1
RLR1G10	I	316	2/6		LR1G10	7A0
RLR2G10	I	019	2/6		LR2G10	6A8
RLR3G10	I	318	2/6		LR3G10	6A
RLR4G10	I	118	2/6		LR4G10	
RLR5G10	I	218	2/6		LR5G10	
RLR6G10	I	6.*	2/6		LR6G10	6A2
RLR7G10	I	31/	2/6		LR7G10	6A1
ROACT0	I	108	2/1		OACT0	2A7
ROD0	O	104	2/1		OD0	7H6
RRDYG10	I	313	2/6		RDYA0	3A1
RRSTA0	I	117	2/6		RSTA10	3A0
RSALMA1	I	115	2/4		SALMA1	8A5
RSALMB1	I	215	2/4		SALMB1	8A6
RSALMC1	I	015	2/4		SALMC1	8A6
RSALMD1	I	214	2/4		SALMD1	8A7
RSHFT0	I	208	2/1		SHFT0	2A1
RSINT0	O	113	2/1		SINT0	3H1
RSTRT0	O	308	2/6		STRT0	3H3
RZACT0	I	309	2/1		ZACT0	2A7
3VG02168	GRD	005			GRD005	2E9
	GRD	102			GRD102	2E9
	GRD	107			GRD107	2D9
	GRD	200			GRD	
	GRD	205			GRD205	2D9
	GRD	302			GRD302	2E9
	GRD	307			GRD307	2D9
3VG0216T	GRD	012			GRD012	2D9
	GRD	017			GRD017	2C9
	GRD	114			GRD114	2C9
	GRD	212			GRD212	2D9
	GRD	217			GRD217	2C9
	GRD	314			GRD314	2C9
	GRD	319			GRD	

SYMBOL NO. 4

RIGHT LINE INTERFACE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
RLNIF	02-18	FC200	B	(4)(Z)
RLNIF	02-18	FC261	B	(3)(Z)

FS INFO: LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	CP INFO: TERM. MOD	LOC
+24ST	PWR	013	5/7		+24F	3G1
	PWR	019	5/7		+24	3G2
	PWR	112	5/7		+24F	3G1
	PWR	118	5/7		+24	3G2
+3V	PWR	000	5/1	201	+3	3G0
	PWR	119	5/1	201		
AL00	I	017	4/1 4/9 TO CONN CKT		ALA0	3A3
AL10	I	116	4/3 4/10 TO CONN CKT		ALB0	3A4
AL20	I	015	4/5 4/11 TO CONN CKT		ALC0	3A5
AL30	I	014	4/7 4/12 TO CONN CKT		ALD0	3A5
GRDA	GRD	0GD	5/1	201	GRD	3G1
	GRD	2GD	5/1	201		
	GRD	200	5/1	201	GRD	3G1
	GRD	319	5/1	201	GRD	3G1
R-24	PWR	218	5/4		-24	3G1
	PWR	318	5/4		-24	3G1
RFPAI1	O	214	2/6		FPAI1	3G3
RFPBI1	O	215	2/6		FPBI1	3G4
RFPCI1	O	216	2/6		FPCI1	3G5
RFPDI1	O	217	2/6		FPDI1	3G6
RSALMA1	O	009	2/3		SALMA1	3G3
RSALMB1	O	011	2/3		SALMB1	3G4
RSALMC1	O	315	2/3		SALMC1	3G5
RSALMD1	O	316	2/3		SALMD1	3G5
RTPA0	I	210	2/6		TPA0	3A6
RTPB0	I	213	2/6		TPB0	3A7
RTPC0	I	109	2/6		TPC0	3A8
RTPD0	I	110	2/6		TPD0	3A8
R00	I	016	4/1,4/9 TO CONN CKT		RA0	3A3
R10	I	115	4/3,4/10 TO CONN CKT		RB0	3A4
R20	I	114	4/5,4/11 TO CONN CKT		RC0	3A5
R30	I	113	4/7,4/12 TO CONN CKT		RD0	3A6
S00	OT	310	4/9 TO CONN CKT		SA0	3G6
S10	OT	309	4/10 TO CONN CKT		SB0	3G7
S20	OT	108	4/11 TO CONN CKT		SC0	3G8
S30	OT	008	4/12 TO CONN CKT		SD0	3G9

PART OF FS 2

SYMBOL(S) 1 3 4

TELETYPEWRITER CONTROLLER UNIT	DWG SIZE C2	ISSUE 7AC
BELL LABORATORIES SD-1C905-01		B2CA

PRINTED IN U. S. A. 12/19/78

PART OF FS 2

CONTROL AND INTERFACE CIRCUITS FOR RIGHT TTYC

SYMBOL NO. 6

RIGHT LINE CONTROL

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
RLNCTL	02-17	FA1059	A	(Z)

FS INFO					CP INFO	
LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+3V	PWR	000	5/1	201	+3	
	PWR	119	5/1	201	+3	
GRDA	GRD	0GD	5/1	201	GRD	
	GRD	2GD	5/1	201	GRD	
	GRD	200	5/1	201	GRD	
	GRD	319	5/1	201	GRD	
RB1X01	O	106		109	B1X01	10H3
RCBXLB0	I	116	2/3		CBXLB0	3A0
RCB0G10	I	316	2/3		CB0G0	4A5
RCB1G10	I	117	2/3		CB1G0	4A4
RCB2G10	I	317	2/3		CB2G0	4A2
RCB3G10	I	315	2/3		CB3G0	4A1
RCB4G10	I	313	2/3		CB4G0	3A6
RCB5G10	I	014	2/3		CB5G0	3A4
RCB6G10	I	214	2/3		CB6G0	3A3
RCB7G10	I	015	2/3		CB7G0	3A0
RCLRDY1	I	115	2/3		CLRDY1	2A5
RCLRLB0	I	113	2/3		CLRLB0	3A2
RCT1111	I	310		109	CT1110	10A1
RCT111	O	207		109	CT1100	10H1
REPAG0	I	019	2/3		EPAG0	9A0
REPBG0	I	318	2/3		EPBG0	9A1
REPCG0	I	018	2/3		EPCG0	9A2
REPDG0	I	218	2/3		EPDG0	9A3
RFPAI1	I	219	2/4		FPAI1	9A0
RFPBI1	I	118	2/4		FPBI1	9A1
RFPCI1	I	213	2/4		FPCI1	9A2
RFPDI1	I	216	2/4		FPDI1	9A3
RINITI0	I	309			INITI0	9A6
RLR0G10	O	305	2/3		LR0G10	5H7
RLR1G10	O	105	2/3		LR1G10	5H7
RLR2G10	O	013	2/3		LR2G10	5H5
RLR3G10	O	312	2/3		LR3G10	5H5
RLR4G10	O	210	2/3		LR4G10	5H4
RLR5G10	O	010	2/3		LR5G10	5H3
RLR6G10	O	112	2/3		LR6G10	5H2
RLR7G10	O	110	2/3		LR7G10	5H2
RLTIM1	I	215		109	LTIM1	7A8
RLTTBC1	I	209	2/7		TBC0	10A1
RMTI0	I	109			MTI0	6A8
RRDYG10	O	103	2/3		RDYG10	2H4
RRSTA0	O	006	2/3		RSTA0	2H1
RSTRT0	I	016	2/3		STRT0	2A2
RTENBIT0	I	206		108	TENBITI0	6A4
RTPA0	O	211	2/4		TPA0	9H1
RTPB0	O	311	2/4		TPB0	9H2
RTPC0	O	111	2/4		TPC0	9H3
RTPD0	O	011	2/4		TPD0	9H4
R300C1	O	007		109	B3001	10H5
R600C1	O	336		109	B6001	10G7
3VG0217B	GRD	005			GRD005	2D8
	GRD	102			GRD102	2D8
	GRD	107			GRD107	2D8
	GRD	200			GRD	
	GRD	205			GRD205	2C8
	GRD	302			GRD302	2C8
	GRD	307			GRD307	2B8
3VG0217T	GRD	012			GRD012	2D8
	GRD	017			GRD017	2D8
	GRD	114			GRD114	2C8

SYMBOL NO. 6 (CONT)

RIGHT LINE CONTROL

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
RLNCTL	02-17	FA1059	A	(Z)

FS INFO					CP INFO	
LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
3VG0217T	GRD	212			GRD212	2C8
	GRD	217			GRD217	2C8
	GRD	314			GRD314	2B8
	GRD	319			GRD	

SYMBOL NO. 7

RIGHT LINE TIMER

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
RLNTIM	02-18	FC200	C	(4)(Z)

FS INFO					CP INFO	
LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
RLTTBC1	O	204	2/6	109	LTIM01	2G7

SYMBOL NO. 8

RIGHT LINE TIMER

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
RLNTIM	02-18	FC261	C	(3)(Z)

FS INFO					CP INFO	
LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC

PART OF FS 2

SYMBOL(S) 6 7 8

TELETYPEWRITER CONTROLLER UNIT

DWG SIZE C2 | ISSUE 4A

BELL LABORATORIES | SD-1C905-01 | B2CB

PRINTED IN U. S. A. 06/29/77

PART OF FS 3

LEFT TTYC PØRT CØNNECTØRS
(SEE NØTE 305)
INTERCØNNECTIØN AND FLØW DIAGRAM

NØTES:
1. CØNNECTØR SHØWN IS FØR DATA SET ØR AR17 CIRCUIT PACK.

SYMBØL NØ. 1
PØRT 4 DATA SET
(SEE NØTES 105 AND 106)
P4DS
03-31
108D DATA SET
A
⑤

SEND CKTS
CARR DETECT
REC CKTS
DATA
5110
5600
5600
2740
2370
1000
5620
4640
-24
+24
+V
-V

MØDEL 35 TTY
S-D (20 MA)
SIG
REGEN ALM
ALMR
680
-C ALM
+S +R
14 11 10 8 7 3 2
SEE NØTE 202

TØ STATIØN LINE
T R
25 18 14 2

TØ EIA DEVICE
BA BB CF AB
16 14 8 7
SEE NØTE 203

SYMBØL NØ. 2
PØRT 4 INTERFACE
(SEE NØTE 107)
P4TTYIF
03-31
AR17
A
⑥

8200
1800
2200
1500
D1
10K
8200
51K
-24
470

NC WHEN TST RELAY IS NØT ØPERATED (TERMINAL 13 IS NØT GRD) & K ØPT. NØT USED
NC

SEE NØTE 1
25 18 16 14 11 10 8 7 3 2
SYMBØL NØ. 9
PØRT 4
07-27
KS-19088,L14

1 2 3 4 7 8 9 10 14 15 16 20
+R4
+S4
BAB4
T4
R4

R40 S40 AL40 1/4

SYMBØL NØ. 3
PØRT 5 DATA SET
(SEE NØTES 105 AND 106)
P5DS
03-34
108D DATA SET
A
⑤

SYMBØL NØ. 4
PØRT 5 INTERFACE
(SEE NØTE 107)
P5TTYIF
03-34
AR17
A
⑤

SYMBØL NØ. 10
PØRT 5
07-34
KS-19088,L14

R50 S50 AL50 1/4

SYMBØL NØ. 5
PØRT 6 DATA SET
(SEE NØTES 105 AND 106)
P6DS
03-37
108D DATA SET
A
⑤

SYMBØL NØ. 6
PØRT 6 INTERFACE
(SEE NØTE 107)
P6TTYIF
03-37
AR17
A
⑥

SYMBØL NØ. 11
PØRT 6
06-27
KS-19088,L14

R60 S60 AL60 1/4
L-24 5/4
GRDA 5/1
+24ST 5/7

SYMBØL NØ. 7
PØRT 7 DATA SET
(SEE NØTES 105 AND 106)
P7DS
03-40
108D DATA SET
A
⑤

SYMBØL NØ. 8
PØRT 7 INTERFACE
(SEE NØTE 107)
P7TTYIF
03-40
AR17
A
⑥

SYMBØL NØ. 12
PØRT 7
06-34
KS-19088,L14

R70 S70 AL70 1/4

PART ØF FS 3
INTERCØNNECTIØN AND FLØW DIAGRAM

TELETYPEWRITER CONTRØLLER UNIT	DWG SIZE 6S	ISSUE 6A
BELL LABORATORIES	SD-1C905-01	B3AA

E - 7025 (12 - 73)
PRINTED IN U.S.A.

PART OF FS 3

LEFT TTYC PORT CONNECTORS

SYMBOL/LEAD DESIGNATIONS

MNEMONIC	DEFINITION
+R4-+R7	TTY RECEIVED LEAD FOR CURRENT LOOP INTERFACE, PORTS 4-7
+S4-+S7	TTY SEND LEAD FOR CURRENT LOOP INTERFACE, PORTS 4-7
+24ST	SWITCHED +24V TO TTYC CIRCUITS
AL40-AL70	ALARM SIGNAL FROM TTY, PORTS 4-7
BAB4-BAB7	TRANSMITTED DATA SIGNAL FOR EIA INTERFACE, PORTS 4-7
GRDA	GROUND
L-24	-24V FOR LEFT CONTROLLER
R4-R7	RING LEAD TO TELEPHONE LINE FOR REMOTE TTY OPERATION, PORTS (4-7)
R40-R70	INCOMING DATA RECEIVED FROM TTY, PORTS (4-7)
S40-S70	OUTGOING DATA TO BE SENT BY TTY, PORTS 4-7
T4-T7	TIP LEAD TO TELEPHONE LINE FOR REMOTE TTY OPERATION, PORT 4-7

TELETYPEWRITER CONTROLLER UNIT		DWG SIZE C2	ISSUE 2A
BELL LABORATORIES	SD-1C905-01		B3AB

PRINTED IN U. S. A. 07/28/75

PART OF FS 3

LEFT TTYC PORT CONNECTORS
(SEE NOTE 305)

SYMBOL NO. 1

PORT 4 DATA SET
(SEE NOTES 105 AND 106)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P4DS	03-31	108D DATA SET	A	(5)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+R4	O	2	3/9 TO CONN CKT			
+S4	I	3	3/9 TO CONN CKT			
+24ST	PWR	1	5/7			
AL40	O	14	1/4			
	I	7	1/4			
BAB4	O	9	3/9 TO CONN CKT			
GRDA	GRD	8	5/1			
L-24	PWR	20	5/4			
R4	OI	16	3/9 TO CONN CKT			
R40	I	10	1/4			
	I	4	1/4			
T4	OI	15	3/9 TO CONN CKT			

SYMBOL NO. 2

PORT 4 TTY INTERFACE
(SEE NOTE 107)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P4TTYIF	03-31	AR17	A	(6)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC

SYMBOL NO. 3

PORT 5 DATA SET
(SEE NOTES 105 AND 106)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P5DS	03-34	108D DATA SET	A	(5)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+R5	O	2	3/10 TO CONN CKT			
+S5	I	3	3/10 TO CONN CKT			
+24ST	PWR	1	5/7			
AL50	O	14	1/4			
	I	7	1/4			
BAB5	O	9	3/10 TO CONN CKT			
GRDA	GRD	8	5/1			
L-24	PWR	20	5/4			
R5	OI	16	3/10 TO CONN CKT			

SYMBOL NO. 3 (CONT)

PORT 5 DATA SET
(SEE NOTES 105 AND 106)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P5DS	03-34	108D DATA SET	A	(5)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
R50	I	10	1/4			
R50	I	4	1/4			
T5	OI	15	3/10 TO CONN CKT			

SYMBOL NO. 4

PORT 5 TTY INTERFACE
(SEE NOTE 107)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P5TTYIF	03-34	AR17	A	(6)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC

SYMBOL NO. 5

PORT 6 DATA SET
(SEE NOTES 105 AND 106)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P6DS	03-37	108D DATA SET	A	(5)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+R6	O	2	3/11 TO CONN CKT			
+S6	I	3	3/11 TO CONN CKT			
+24ST	PWR	1	5/7			
AL60	O	14	1/4			
	I	7	1/4			
BAB6	O	9	3/11 TO CONN CKT			
GRDA	GRD	8	5/1			
L-24	PWR	20	5/4			
R6	OI	16	3/11 TO CONN CKT			
R60	I	10	1/4			
	I	4	1/4			
T6	OI	15	3/11 TO CONN CKT			

SYMBOL NO. 6

PORT 6 TTY INTERFACE
(SEE NOTE 107)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P6TTYIF	03-37	AR17	A	(6)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC

SYMBOL NO. 7

PORT 7 DATA SET
(SEE NOTES 105 AND 106)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P7DS	03-40	108D DATA SET	A	(5)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+R7	O	2	3/12 TO CONN CKT			
+S7	I	3	3/12 TO CONN CKT			
+24ST	PWR	1	5/7			
AL70	O	14	1/4			
	I	7	1/4			
BAB7	O	9	3/12 TO CONN CKT			
GRDA	GRD	8	5/1			
L-24	PWR	20	5/4			
R7	OI	16	3/12 TO CONN CKT			
R70	I	10	1/4			
	I	4	1/4			
T7	OI	15	3/12 TO CONN CKT			

SYMBOL NO. 8

PORT 7 TTY INTERFACE
(SEE NOTE 107)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P7TTYIF	03-40	AR17	A	(6)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC

SYMBOL NO. 9

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PORT 4	07-27	KS-19088,L14		

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+R4	I	3	3/1			
+S4	I	2	3/1			
AL40	I	8	1/4			
BAB4	I	11	3/1			
GRDA	GRD	7	5/1			
L-24	PWR	10	5/4			
R4	I	18	3/1			
R40	I	16	1/4			
S40	OT	14	1/4			
T4	I	25	3/1			

SYMBOL NO. 10

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PORT 5	07-34	KS-19088,L14		

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+R5	I	3	3/3			
+S5	I	2	3/3			
AL50	I	8	1/4			
BAB5	I	11	3/3			
GRDA	GRD	7	5/1			
L-24	PWR	10	5/4			
R5	I	18	3/3			
R50	I	16	1/4			
S50	OT	14	1/4			
T5	I	25	3/3			

PART OF FS 3
SYMBOL(S) 1 2 3 4 5 6 7 8 9 10

TELETYPEWRITER CONTROLLER UNIT	DWG SIZE C2	ISSUE 6A
BELL LABORATORIES SD-1C905-01		B3CA

PRINTED IN U. S. A. 08/02/78

PART OF FS 3

LEFT TTYC PORT CONNECTORS
(SEE NOTE 305)

SYMBOL NO. 11

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PORT 6	06-27	KS-19088,L14		

FS INFO					CP INFO	
LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+R6	I	3	3/5			
+S6	I	2	3/5			
AL60	I	8	1/4			
BA86	I	11	3/5			
GRDA	GRD	7	5/1			
L-24	PWR	10	5/4			
R6	I	18	3/5			
R60	I	16	1/4			
S60	OT	14	1/4			
T6	I	25	3/5			

SYMBOL NO. 12

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PORT 7	06-34	KS 19088,L14		

FS INFO					CP INFO	
LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+R7	I	3	3/7			
+S7	I	2	3/7			
AL70	I	8	1/4			
BA87	I	11	3/7			
GRDA	GRD	7	5/1			
L-24	PWR	10	5/4			
R7	I	18	3/7			
R70	I	16	1/4			
S70	OT	14	1/4			
T7	I	25	3/7			

PART OF FS 3
SYMBOL(S) 11 12

TELETYPEWRITER CONTROLLER UNIT		DWG SIZE C2	ISSUE 2A
BELL LABORATORIES	SD-1C905-01		B3CB

PRINTED IN U. S. A. 07/23/75

PART OF FS 4

RIGHT TTYC PØRT CØNNFCTØRS
(SEE NØTE 105)
INTERCØNNECTIØN AND FLØW DIAGRAM

NØTES:
1. CØNNECTØR SHØWN IS FØR DATA SET ØR AR17 CIRCUIT PACK.

SYMBØL NØ. 1
PØRT 0 DATA SET
(SEE NØTES 105 AND 106)
P0DS
03-01
108D DATA SET
A

SEND CKTS
REC CKTS
CARR DETECT
DATA
5110
5600
5600
2740
2370
1000
5620
4640
-24
+24
-V
+V

SYMBØL NØ. 2
PØRT 0 INTERFACE
(SEE NØTE 107)
P0TTYIF
03-01
AR17
A

8200
1800
2200
1500
D1
10K
8200
51K
470

NC WHEN TST RELAY IS NØT ØPERATED (TERMINAL 13 IS NØT GRD) & K ØPT. NØT USED

MØDEL 35 TTY
SMD (20MA)
SIG REGEN
ALM
ALMR
680
-C ALM +S +R

TØ STATIØN LINE
T R

TØ EIA DEVICE
BA BB CF AB

SEE NØTE 202
SEE NØTE 205

SYMBØL NØ. 9
PØRT 0
07-11
KS-19088,L14

SEE NØTE 1
+RO
+SO
BABO
TO
RO

R00 S00 AL00 2/4

SYMBØL NØ. 3
PØRT 1 DATA SET
(SEE NØTES 105 AND 106)
P1DS
03-04
108D DATA SET
A

SYMBØL NØ. 4
PØRT 1 INTERFACE
(SEE NØTE 107)
P1TTYIF
03-04
AR17
A

SYMBØL NØ. 10
PØRT 1
07-18
KS-19088,L14

SYMBØL NØ. 5
PØRT 2 DATA SET
(SEE NØTES 105 AND 106)
P2DS
03-07
108D DATA SET
A

SYMBØL NØ. 6
PØRT 2 INTERFACE
(SEE NØTE 107)
P2TTYIF
03-07
AR17
A

SYMBØL NØ. 11
PØRT 2
06-11
KS-19088,L14

SYMBØL NØ. 7
PØRT 3 DATA SET
(SEE NØTES 105 AND 106)
P3DS
03-10
108D DATA SET
A

SYMBØL NØ. 8
PØRT 3 INTERFACE
(SEE NØTE 107)
P3TTYIF
03-10
AR17
A

SYMBØL NØ. 12
PØRT 3
06-18
KS-19088,L14

R10 S10 AL10 2/4
R20 S20 AL20 2/4
R-2A 5/4
GRDA 5/1
+24ST 5/7
R30 S30 AL30 2/4

1635
2 BA → 14
3 BB → 16
5 TO → 2
7 AB → 7

PART ØF FS 4
INTERCØNNECTIØN AND FLØW DIAGRAM

TELETYPEWRITER CØNTRØLLER UNIT	(2)	DWG SIZE 6S	ISSUE 6A
BELL LABORATORIES	SD-1C905-01		B4AA

PART OF FS 4

RIGHT TTYC PORT CONNECTORS

SYMBOL/LEAD DESIGNATIONS

MNEMONIC	DEFINITION
+R0-+R3	TTY RECEIVE LEAD FOR CURRENT LOOP INTERFACE PORTS 0-3
+S0-+S3	TTY SEND LEAD FOR CURRENT LOOP INTERFACE, PORTS 0-3
+24ST	SWITCHED +24V TO TTY CIRCUITS
AL00-AL30	ALARM SIGNAL FROM TTY, PORTS 0-3
BAB0-BAB3	TRANSMITTED DATA SIGNAL FOR EIA INTERFACE, PORTS 0-3
GRDA	GROUND
R-24	-24V FOR RIGHT CONTROLLER
R0-R3	RING LEAD TO TELEPHONE LINE FOR REMOTE TTY OPERATION, PORTS (0-3)
R00-R30	INCOMING DATA RECEIVED FROM TTY, PORTS (0-3)
S00-S30	OUTGOING DATA TO BE SENT BY TTY, PORTS 0-3
T0-T3	TIP LEAD TO TELEPHONE LINE FOR REMOTE TTY OPERATION, PORTS 0-3

TELETYPEWRITER CONTROLLER UNIT		DWG SIZE C2	ISSUE 2A
BELL LABORATORIES	SD-1C905-01		BAAB
	PRINTED IN U. S. A.		07/28/75

PART OF FS 4

RIGHT TTYC PORT CONNECTORS
(SEE NOTE 305)

SYMBOL NO. 1

PORT 0 DATA SET
(SEE NOTES 105 AND 106)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P0DS	03-01	108D DATA SET	A	(5)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+R0	0	2	4/9 TO CONN CKT			
+S0	I	3	4/9 TO CONN CKT			
+24ST	PWR	1	5/7			
AL00	0	14	2/4			
	I	7	2/4			
BAB0	0	9	4/9 TO CONN CKT			
GRDA	GRD	8	5/1			
R-24	PWR	20	5/4			
R0	OI	16	4/9 TO CONN CKT			
R00	I	10	2/4			
	I	4	2/4			
T0	OI	15	4/9 TO CONN CKT			

SYMBOL NO. 2

PORT 0 TTY INTERFACE
(SEE NOTE 107)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P0TTYIF	03-01	AR17	A	(6)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC

SYMBOL NO. 3

PORT 1 DATA SET
(SEE NOTES 105 AND 106)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P1DS	03-04	108D DATA SET	A	(5)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+R1	0	2	4/10 TO CONN CKT			
+S1	I	3	4/10 TO CONN CKT			
+24ST	PWR	1	5/7			
AL10	0	14	2/4			
	I	7	2/4			
BAB1	0	9	4/10 TO CONN CKT			
GRDA	GRD	8	5/1			
R-24	PWR	20	5/4			
R1	OI	16	4/10 TO CONN CKT			

SYMBOL NO. 3 (CONT)

PORT 1 DATA SET
(SEE NOTES 105 AND 106)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P1DS	03-04	108D DATA SET	A	(5)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
R10	I	10	2/4			
R10	I	4	2/4			
T1	OI	15	4/10 TO CONN CKT			

SYMBOL NO. 4

PORT 1 TTY INTERFACE
(SEE NOTE 107)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P1TTYIF	03-04	AR17	A	(6)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC

SYMBOL NO. 5

PORT 2 DATA SET
(SEE NOTES 105 AND 106)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P2DS	03-07	108D DATA SET	A	(5)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+R2	0	2	4/11 TO CONN CKT			
+S2	I	3	4/11 TO CONN CKT			
+24ST	PWR	1	5/7			
AL20	0	14	2/4			
	I	7	2/4			
BAB2	0	9	4/11 TO CONN CKT			
GRDA	GRD	8	5/1			
R-24	PWR	20	5/4			
R2	OI	16	4/11 TO CONN CKT			
R20	I	10	2/4			
	I	4	2/4			
T2	OI	15	4/11 TO CONN CKT			

SYMBOL NO. 6

PORT 2 TTY INTERFACE
(SEE NOTE 107)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P2TTYIF	03-07	AR17	A	(6)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC

SYMBOL NO. 7

PORT 3 DATA SET
(SEE NOTES 105 AND 106)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P3DS	03-10	108D DATA SET	A	(5)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+R3	0	2	4/12 TO CONN CKT			
+S3	I	3	4/12 TO CONN CKT			
+24ST	PWR	1	5/7			
AL30	0	14	2/4			
	I	7	2/4			
BAB3	0	9	4/12 TO CONN CKT			
GRDA	GRD	8	5/1			
R-24	PWR	20	5/4			
R3	OI	16	4/12 TO CONN CKT			
R30	I	10	2/4			
	I	4	2/4			
T3	OI	15	4/12 TO CONN CKT			

SYMBOL NO. 8

PORT 3 TTY INTERFACE
(SEE NOTE 107)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
P3TTYIF	03-10	AR17	A	(6)

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC

SYMBOL NO. 9

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PORT 0	07-11	KS-19088,L14		

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+R0	I	3	4/1			
+S0	I	2	4/1			
AL00	I	8	2/4			
BAB0	I	11	4/1			
GRDA	GRD	7	5/1			
R-24	PWR	10	5/4			
R0	I	18	4/1			
R00	I	16	2/4			
S00	OT	14	2/4			
T0	I	25	4/1			

SYMBOL NO. 10

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PORT 1	07-18	KS-19088,L14		

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+R1	I	3	4/3			
+S1	I	2	4/3			
AL10	I	8	2/4			
BAB1	I	11	4/3			
GRDA	GRD	7	5/1			
R-24	PWR	10	5/4			
R1	I	18	4/3			
R10	I	16	2/4			
S10	OT	14	2/4			
T1	I	25	4/3			

PART OF FS 4
SYMBOL(S) 1 2 3 4 5 6 7 8 9 10

TELETYPEWRITER CONTROLLER UNIT	DWG SIZE C2	ISSUE 6A
BELL LABORATORIES SD-1C905-01		B4CA

PRINTED IN U. S. A. 08/02/78

PART OF FS 4
RIGHT TTYC PORT CONNECTORS
(SEE NOTE 305)

SYMBOL NO. 11

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PORT 2	06-11	KS-19088,L14		

FS INFO					CP INFO	
LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+R2	I	3	4/5			
+S2	I	2	4/5			
AL20	I	8	2/4			
BAB2	I	11	4/5			
GRDA	GRD	7	5/1			
R-24	PWR	10	5/4			
R2	I	18	4/5			
R20	I	16	2/4			
S20	OT	14	2/4			
T2	I	25	4/5			

SYMBOL NO. 12

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PORT 3	06-18	KS-19088,L14		

FS INFO					CP INFO	
LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+R3	I	3	4/7			
+S3	I	2	4/7			
AL30	I	8	2/4			
BAB3	I	11	4/7			
GRDA	GRD	7	5/1			
R-24	PWR	10	5/4			
R3	I	18	4/7			
R30	I	16	2/4			
S30	OT	14	2/4			
T3	I	25	4/7			

PART OF FS 4
SYMBOL(S) 11 12

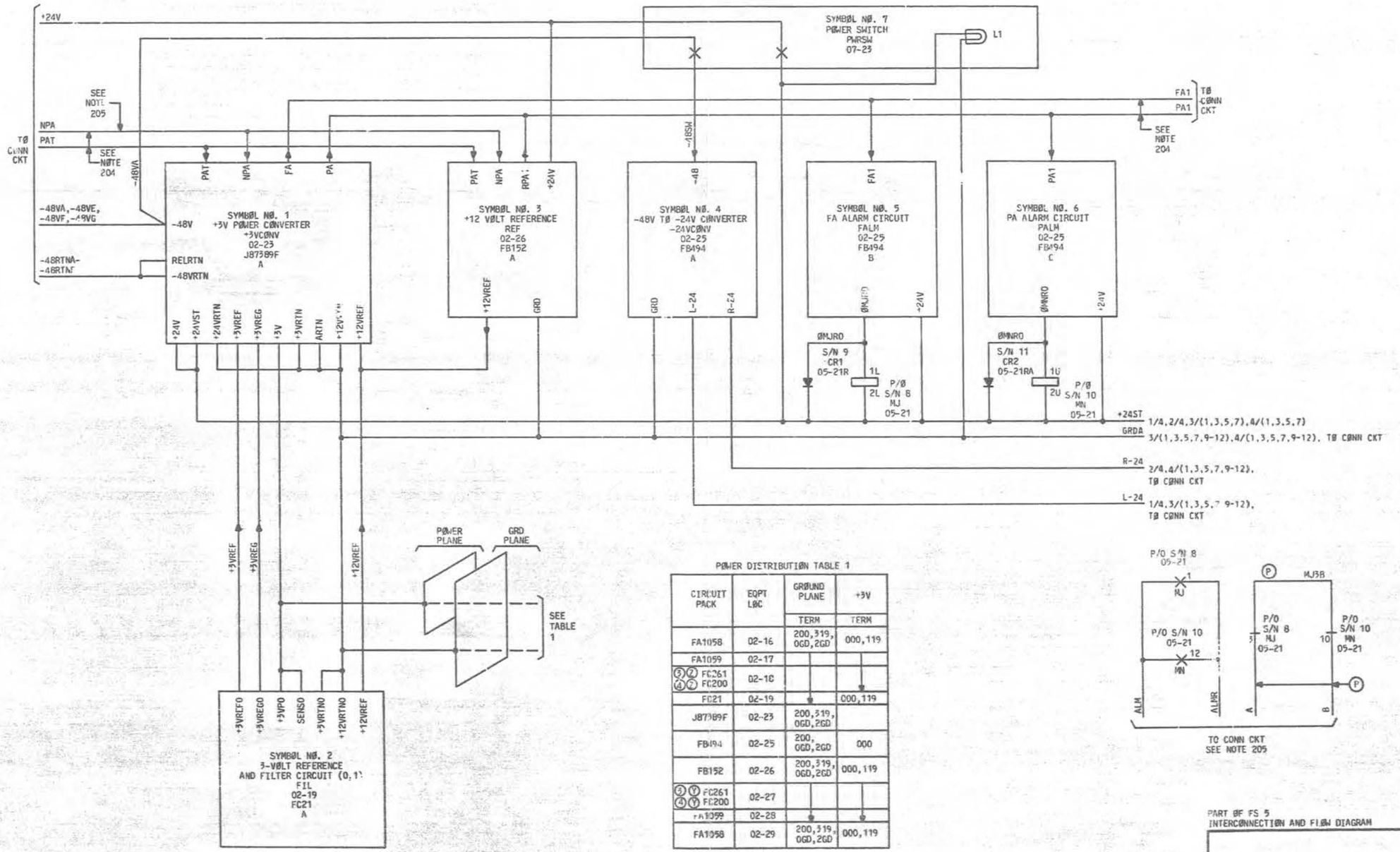
TELETYPEWRITER CONTROLLER UNIT	DWG SIZE C2	ISSUE 2A
BELL LABORATORIES	SD-1C905-01	B4CB

PRINTED IN U. S. A. 07/23/75

PART OF FS 5

PØWER AND ALARMS
INTERCØNNECTIØN AND FLØW DIAGRAM

NØTES:
1. S/N = SYMBØL NUMBER.



PØWER DISTRIBUTIØN TABLE 1

CIRCUIT PACK	EQPT LØC	GRØUND PLANE	+3V
		TERM	TERM
FA1058	02-16	200,319, 0GD,2GD	000,119
FA1059	02-17		
(5)(Z) FC261 (4)(Z) FC200	02-18		
FC21	02-19		000,119
J87589F	02-23	200,319, 0GD,2GD	
FB494	02-25	200, 0GD,2GD	000
FB152	02-26	200,319, 0GD,2GD	000,119
(5)(Y) FC261 (4)(Y) FC200	02-27		
FA1059	02-28		
FA1058	02-29	200,319, 0GD,2GD	000,119

PART ØF FS 5
INTERCØNNECTIØN AND FLØW DIAGRAM

TELETYPEWRITER CØNTRØLLER UNIT (2)		DWG SIZE 6S	ISSUE 7AC
BELL LABORATORIES	SD-1C905-01		B5AA

PRINTED IN U.S.A.

PART OF FS 5

POWER AND ALARMS

SYMBOL/LEAD DESIGNATIONS

MNEMONIC	DEFINITION
+12VREF	+12V REFERENCE
+24ST	SWITCHED +24V TO TTYC CIRCUITS
+24V	+24V INPUT
-48RTN(A-F)	-48V RETURN
-48SH	SWITCHED -48 TO TTYC CIRCUITS
-48VA	-48V INPUT
-48V(E-G)	-48V INPUT
ALM,ALMR	TTYC POWER ALARM LOOP
FA1	FUSE ALARM
GRDA	GROUND
L-24	-24V FOR LEFT CONTROLLER
NPA	NO POWER ALARM
OMJR0	OPERATE MAJOR ALARM RELAY
OMNR0	OPERATE MINOR ALARM RELAY
PA	POWER ALARM
PAT	POWER ALARM TEST
PA1	POWER ALARM
R-24	-24V FOR RIGHT CONTROLLER
+3V	+3V INPUT
+3VREF	+3V REFERENCE
+3VREG	+3V REGULATE

TELETYPEWRITER CONTROLLER UNIT		DWG SIZE C2	ISSUE 2A
BELL LABORATORIES	SD-1C905-01		B5AB

PRINTED IN U. S. A. 07/28/75

PART OF FS 5
POWER AND ALARMS

SYMBOL NO. 1
+3V POWER CONVERTER

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
+3VCONV	02-23	J87389F	A	

FS INFO — CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
		219			TP1	
		213			TP3	
		217			TP2	
		308			TP4	
+12VREF	I	209	5/2		+12VREF	
+24ST	PWR	318	5/7		+24VST	
	PWR	112			+24V	
	PWR	012			+24V	
	PWR	218			+24VST	
+3V	OT	100	1/3,1/4 1/6,2/3 2/4,2/6 5/2,5/3 5/4 5/2		+3V	
	I					
	OT	102			+3V	
	OT	101			+3V	
	OT	107			+3V	
	OT	106			+3V	
	OT	105			+3V	
	OT	104			+3V	
	OT	103			+3V	
+3VREF	I	109	5/2		+3VREF	
+3VREG	I	108	5/2		+3VREG	
-48RTNA	I	016	TO CONN CKT		-48VRTN	
-48RTNB	I	015	TO CONN CKT		-48VRTN	
-48RTNC	I	014	TO CONN CKT		RELRTN	
-48RTND	I	114	TO CONN CKT		-48VRTN	
-48RTNE	I	115	TO CONN CKT		-48VRTN	
-48RTNF	I	116	TO CONN CKT		-48VRTN	
-48VA	PWR	017	5/7 TO CONN CKT		-48V	
	PWR	018			-48V	
	PWR	019			-48V	
-48VE	I	117	TO CONN CKT		-48V	
-48VF	I	118	TO CONN CKT		-48V	
-48VG	I	119	TO CONN CKT		-48V	
FA1	O	314	5/5 TO CONN CKT	204	FA	
GRDA	GRD	319	5/2,1/3 1/4,1/6 2/3,2/4 2/6,3/1 3/3,3/5 3/7,3/9 3/10,3/11 3/12,4/1 4/3,4/5 4/7,4/9 4/10,4/11 4/12,5/2 5/3,5/4 5/7 TO CONN CKT	201	FRGRD	
	OT	207			+3VRTN	
	OT	205			+3VRTN	
	OT	204			+3VRTN	
	OT	201			+3VRTN	
	OT	206			+3VRTN	
	OT	202			+3VRTN	
	OT	203			+3VRTN	
	I	113			ARTN	
	I	013			ARTN	

SYMBOL NO. 1 (CONT)
+3V POWER CONVERTER

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
+3VCONV	02-23	J87389F	A	

FS INFO — CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
GRDA	I	208			+12VRTN	
	GRD	200		201	FRGRD	
	GRD	200		201		
	GRD	000		201		
	GRD	111			+24VRTN	
MPA	I	315	5/3 TO CONN CKT	204	MPA	
PAT	I	312	5/3 TO CONN CKT	204	PAT	
PA1	OT I	313	5/3 5/6 TO CONN CKT	204	PA	

SYMBOL NO. 2
3-VOLT REFERENCE AND FILTER CIRCUIT(0,1)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
FIL	02-19	FC21	A	

FS INFO — CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
		019			+3VP1	
		212			+3VP1	
		213			+3VP1	
		214			+3VP1	
		215			+3VP1	
		216			+3VP1	
		217			+3VP1	
		218			+3VP1	
		219			+3VP1	
		018			+3VRTN1	
		112			+3VRTN1	
		113			+3VRTN1	
		114			+3VRTN1	
		115			+3VRTN1	
		116			+3VRTN1	
		117			+3VRTN1	
		118			+3VRTN1	
		312			+3VRTN1	
		313			+3VRTN1	
		314			+3VRTN1	
		315			+3VRTN1	
		316			+3VRTN1	
		317			+3VRTN1	
		318			+3VRTN1	
		017			+3VP1	
		010			SENS1	
		311			+3VREG1	
		211			+12VRTN1	
		310			+3VREF1	
		014			+3VP1	
		210			+12VREF	
		016			+3VP1	
		013			+3VP1	

SYMBOL NO. 2 (CONT)
3-VOLT REFERENCE AND FILTER CIRCUIT(0,1)

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
FIL	02-19	FC21	A	

FS INFO — CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
		012			+3VP1	
		015			+3VP1	
		307			+3VRTN0	
		306			+3VRTN0	
		304			+3VRTN0	
		206			+3VP0	
		305			+3VRTN0	
		303			+3VRTN0	
		207			+3VP0	
		205			+3VP0	
		204			+3VP0	
		302			+3VRTN0	
		301			+3VRTN0	
		300			+3VRTN0	
		203			+3VP0	
		202			+3VP0	
		201			+3VP0	
+12VREF	OIT I	109	5/3 5/1		+12VREF	
+3V	PWR	119	5/1	201	+3VP1	
	I	309	5/1		SENS0	
	PWR	003			+3VP0	
	PWR	004			+3VP0	
	PWR	005			+3VP0	
	PWR	006			+3VP0	
	PWR	007			+3VP0	
	PWR	002			+3VP0	
	PWR	001			+3VP0	
	PWR	000		201	+3VP0	
+3VREF	O	009	5/1		+3VREF0	
+3VREG	O	008	5/1		+3VREG0	
GRDA	OT	108	5/1		+12VRTN0	
	GRD	319	5/1	201	+3VRTN1	
	GRD	100			+3VRTN0	
	GRD	101			+3VRTN0	
	GRD	102			+3VRTN0	
	GRD	103			+3VRTN0	
	GRD	104			+3VRTN0	
	GRD	105			+3VRTN0	
	GRD	106			+3VRTN0	
	GRD	107			+3VRTN0	
	GRD	200		201		
	GRD	000		201		
	GRD	200		201	+3VRTN0	

SYMBOL NO. 3
+12 VOLT REFERENCE

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
REF	02-26	FB152	A	

FS INFO — CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
		004			1RPA1	
		014			12REF1	
		005			12REF1	
		214			12REF1	
		213			12REF1	
		212			12REF1	
		211			12REF1	
		207			12REF1	
		007			12REF1	
		006			12REF1	
		208			12REF1	
		017			12REF3	
		206			12REF1	
		209			12REF1	
		012			12REF1	
		009			12REF1	
		002			+24AD	
		210			12REF1	
		013			12REF1	
		011			12REF1	
		008			12REF1	
		010			12REF1	
		217			12REF2	
+12VREF	OT	205	5/2		12REF1	
+24V	PWR	018	5/7 TO CONN CKT		+24V	
	PWR	218			+24V	
+3V	PWR	119	5/1	201		
	PWR	000		201		
GRDA	GRD	319	5/1	201		
	GRD	000		201		
	GRD	200		201	GRD	
	GRD	219			GRD	
	GRD	200		201	GRD	
NPA	I	201	5/1		NPA	
PAT	I	215	5/1		PAT	
PA1	OT	203	5/1		RPA1	
3VG02268	GRD	304				
	GRD	302				
	GRD	200	TO CONN CKT		GRD	
	GRD	306				
	GRD	204				
	GRD	202				
	GRD	305				

PART OF FS 5
SYMBOL(S) 1 2 3

TELETYPEWRITER CONTROLLER UNIT	DWG SIZE C2	ISSUE 2A
BELL LABORATORIES	SD-1C905-01	B5CA

PRINTED IN U. S. A. 07/23/75

PART OF FS 5

POWER AND ALARMS

SYMBOL NO. 4

-48V TO -24V CONVERTER

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
-24VCONV	02-25	FB494	A	

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+3V	PWR	000	5/1	201		
-48SW	I	002	5/4		-48	2G0
	I	201	5/4		-48	2G0
	I	202	5/7		-48	2G0
GRDA	GRD	0GD	5/1	201		
	GRD	2GD	5/1	201		
	GRD	200	5/1	201	GRD	2G1
	GRD	219	5/1		GRD	2G1
L-24	PWR	004	5/4 TO CONN CKT			
	PWR	005	5/4			
	O	003	1/4,3/1 3/3,3/5 3/7,3/9 3/10,3/11 3/12		L-24	2G5
R-24	PWR	016	5/4 TO CONN CKT			
	PWR	018	5/4			
	O	017	2/4,4/1 4/3,4/5 4/7,4/9 4/10,4/11 4/12		R-24	2G5

SYMBOL NO. 5

FA ALARM CIRCUIT

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
FALM	02-25	FB494	B	

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+24ST	PWR	010	5/7		+24	2G1
FA1	I	008	5/1		FA1	2A5
OMJR0	O	206	5/8,5/9		OMJR0	2B8

SYMBOL NO. 6

PA ALARM CIRCUIT

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PALM	02-25	FB494	C	

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+24ST	PWR	214	5/7		+24	2G1
OMNR0	O	211	5/10,5/11		OMNR0	2E8
PA1	I	012	5/1		PA1	2A5

SYMBOL NO. 7

POWER SWITCH

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
PWRSW	07-23	C-H SB1DEV431-6		

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
		3				
		6				
+24ST	PWR	MB	5/7			
	PWR	4	1/4,2/4 3/1,3/3 3/5,3/7 4/1,4/3 4/5,4/7 5/1,5/5 5/6,5/8 5/9,5/10 5/11			
+24V	PWR	5	5/3			
-48SW	I	1	5/4			
-48VA	PWR	2	5/1			
GRDA	GRD	N	5/1			

SYMBOL NO. 8

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
MJ	05-21	AK38		

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+24ST	PWR	2L	5/7			
A	I	3	TO CONN CKT	205		
ALM	I	1M	5/10			
ALMC	I	1	5/10			
MJ3B	I	3B	(P)5/10			
OMJR0	I	1L	5/5			

SYMBOL NO. 9

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
CR1	05-21R	458A		

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+24ST	PWR	2	5/7			
OMJR0	I	1	5/5			

SYMBOL NO. 10

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
MN	05-21	AK38		

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+24ST	PWR	2U	5/7			
ALM	I	12M	5/8 TO CONN CKT	205		
ALMR	I	12	5/8 TO CONN CKT	205		
B	I	10	TO CONN CKT	205		
MJ3B	I	10B	(P)5/8			
OMNR0	I	1U	5/6			

SYMBOL NO. 11

DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
CR2	05-21RA	458A		

FS INFO / CP INFO

LEAD DESIG	FUNC	TERM.	DESTINATION	NOTE	TERM. MOD	LOC
+24ST	PWR	2	5/7			
OMNR0	I	1	5/6			

PART OF FS 5

SYMBOL(S) 4 5 6 7 8 9 10 11

TELETYPEWRITER CONTROLLER UNIT

DWG SIZE C2 | ISSUE 5AC

BELL LABORATORIES | SD-1C905-01 | B5CB

PRINTED IN U. S. A. 08/02778

APP FIG. 1

RELAY

DESIG	MJ	MN	DESIG
CODE	AK38		CODE
OPTION			OPTION

	CONT ARR	FS/SYM	CONT ARR	FS/SYM	
12			BM	5/10	12
11			BM		11
10			B (P)	5/10	10
9					9
8					8
7					7
6					6
5					5
4					4
3	B (F)	5/8			3
2	BM				2
1	BM	5/8			1
COIL		5/8		5/10	COIL

CIRCUIT PACK

EQPT LOC	02-19		02-25		02-26		EQPT LOC
DESIG	FIL				REF		DESIG
EQPTCODE	FC21		FB494		FB152		EQPTCODE
OPTION							OPTION
ELEM IDENT		CKT		CKT		CKT	ELEM IDENT
CKT	DESIG	FS/SYM	DESIG	FS/SYM	DESIG	FS/SYM	CKT
A	FIL	5/2	-24VCONV	5/4	REF	5/3	A
B			FALM	5/5			B
C			PALM	5/6			C

DIODE

OPTION	DESIG	FS/SYM	CODE
	CR1	5/9	458A
	CR2	5/11	458A

LAMP

OPTION	DESIG	FS/SYM	CODE
	L1	5/7	GE,388

POWER MODULE

OPTION	DESIG	FS/SYM	CODE
	+3VCONV	5/1	J87389F

SWITCH

OPTION	DESIG	FS/SYM	CODE
	PWRSW	5/7	C-H SB1DEV431-6

APP FIG. 2

CIRCUIT PACK

EQPT LOC	02-16		02-17		02-17		02-28		02-28		02-29		EQPT LOC
DESIG	RCHCTL		RLNCTL		RLNCTL		LLNCTL		LLNCTL		LCHCTL		DESIG
EQPTCODE	FA1058		FA1059		FA1072		FA1059		FA1072		FA1058		EQPTCODE
OPTION	(Z)		(K)		(J)		(N)		(M)		(Y)		OPTION
ELEM IDENT		CKT		CKT		CKT		CKT		CKT		CKT	ELEM IDENT
CKT	DESIG	FS/SYM	DESIG	FS/SYM	DESIG	FS/SYM	DESIG	FS/SYM	DESIG	FS/SYM	DESIG	FS/SYM	CKT
A	RCHCTL	2/3	RLNCTL	2/6	RLNCTL	2/6	LLNC L	1/6	LLNCTL	1/6	LCHCTL	1/3	A
B													B
C													C

⑤APP FIG. 3

CIRCUIT PACK

EQPT LOC	02-18		02-27		EQPT LOC
DESIG					DESIG
EQPTCODE	FC261		FC261		EQPTCODE
OPTION	(Z)		(Y)		OPTION
ELEM IDENT		CKT		CKT	ELEM IDENT
CKT	DESIG	FS/SYM	DESIG	FS/SYM	CKT
A	RCHIF	2/1	LCHIF	1/1	A
B	RLNIF	2/4	LLNIF	1/4	B
C	RLNTIM	2/7	LLNTIM	1/7	C

④APP FIG. 4

CIRCUIT PACK

EQPT LOC	02-18		02-27		EQPT LOC
DESIG					DESIG
EQPTCODE	FC200		FC200		EQPTCODE
OPTION	(Z)		(Y)		OPTION
ELEM IDENT		CKT		CKT	ELEM IDENT
CKT	DESIG	FS/SYM	DESIG	FS/SYM	CKT
A	RCHIF	2/1	LCHIF	1/1	A
B	RLNIF	2/4	LLNIF	1/4	B
C	RLNTIM	2/7	LLNTIM	1/7	C

⑤APP FIG. 5

SEE NOTE 1

CIRCUIT PACK

EQPT LOC	03-( )
DESIG	P( )DS
EQPTCODE	108D DATA SET
OPTION	

ELEM IDENT	CKT	
CKT	DESIG	FS/SYM
A	P( )DS	( )/( )

⑥APP FIG. 6

- SEE NOTE 2

CIRCUIT PACK

EQPT LOC	03-( )
DESIG	P( )TTYIF
EQPTCODE	AR17
OPTION	

ELEM IDENT	CKT	
CKT	DESIG	FS/SYM
A	P( )TTYIF	( )/( )

NOTES:

1. 108D DATA SETS MAY BE EQUIPPED IN THE FOLLOWING LOCATIONS PER JOB REQUIREMENTS:

EQPT LOC	DESIG	FS/SYM
03-01	P0DS	4/1
03-04	P1DS	4/3
03-07	P2DS	4/5
03-10	P3DS	4/7
03-31	P4DS	3/1
03-34	P5DS	3/3
03-37	P6DS	3/5
03-40	P7DS	3/7

2. AR17 CIRCUIT PACKS MAY BE EQUIPPED IN THE FOLLOWING LOCATIONS PER JOB REQUIREMENTS:

EQPT LOC	DESIG	FS/SYM
03-01	P0TTYIF	4/2
03-04	P1TTYIF	4/4
05-07	P2TTYIF	4/6
03-10	P3TTYIF	4/8
03-31	P4TTYIF	3/2
03-34	P5TTYIF	3/4
03-37	P6TTYIF	3/6
03-40	P7TTYIF	3/8

TELETYPEWRITER CONTROLLER UNIT (2)		DWG SIZE 6S	ISSUE 7AC
BELL LABORATORIES	SD-1C905-01		

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
+24V	2	+24	APP FIG. 1
-48V(A,E-G) *	2	-48	

BATTERY SYMBOL	VOLTAGE RANGE
+24	20.75 - 26.25
-48	42.75 - 52.5

* UNIT LEADS SHALL BE MECHANICALLY INTERCONNECTED ON USER'S CONNECTING CIRCUIT VIA 942G TYPE BERG CONNECTOR OR EQUIVALENT.

102.

FEATURE OR OPTION		PROVIDE APP FIG.	PROVIDE APP OR WRG	PROVIDE QUANTITY
WIRED TTY CONTROLLER UNIT		1		1 PER CKT
REQUIRED APPARATUS FOR OPERATIONAL CONTROLLER	RIGHT TTYC	2	Z	1 PER CKT
	LEFT TTYC		Y	
TTYC ARRANGED FOR MATE OPERATION	RIGHT TTYC	3	Z	1 PER CKT
	LEFT TTYC		Y	
TTYC ARRANGED FOR NON MATE OPERATION	RIGHT TTYC	4	Z	1 PER CKT
	LEFT TTYC		Y	
OPERATION WITH REMOTE TTY		5	5	1 PER PORT MAXIMUM OF 8 PER CKT
OPERATION WITH LOCAL CURRENT LOOP TTY		6	6	1 PER PORT MAXIMUM OF 8 PER CKT
BAUD RATE SELECTION (SEE NOTE 109)			X X	
			W X	
			V X	
			U X	
			T X	
11-BIT SIGNALING (SEE NOTE 108)			S X	
10-BIT SIGNALING (SEE NOTE 108)			R X	
FOR TTYCU MOUNTED IN FRAMES OTHER THAN MAINTENANCE FRAME.		1	P	1 PER CKT
REQ'D APP FOR OPERATIONAL CONTROLLER (SEE NOTE 110)	NO. 2B OR NO. 3 ESS RIGHT	2	J	1 PER CKT
	NO. 2B OR NO. 3 ESS LEFT		M	
	AUX PROC RIGHT		K	
	AUX PROC LEFT		N	

X NONRECORD OPTION

RECORD OF FIGURES, WIRING AND APPARATUS CHANGES						
CHANGED ON ISSUE	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	USE IN CIRCUIT A&M	USE IN CIRCUIT MD
4A			109	X X		
4A				W X		
4A				V X		
4A				U X		
4A				T X		
4A			108	S X		
4A				R X		
5AC	P	NONE		P		
7AC	M OR N	N	110	M,N		
7AC	J OR K	K		J,K		

X NONRECORD OPTION

CIRCUIT NOTES: (CONT)

105. THE 108D DATA SET IS NORMALLY USED AT THE CENTRAL OFFICE END OF THE PRIVATE LINE DATA SET LOOP FOR REMOTE OPERATION. A 108E DATA SET, OR EQUIVALENT, IS USED AT THE REMOTE END OF THE LOOP.

106. THE 108D DATA SET USED FOR REMOTE OPERATION SHALL BE ARRANGED WITH OPTIONS Y,K,U AND S. THIS REQUIRES THE FOLLOWING SCREW SWITCH SETTINGS:

OPEN - A1-2,A3-4,C1-2,C3-4,D1-2,D2-3
CLOSED - A2-3,C2-3,D3-4

AND THE FOLLOWING FACEPLATE SWITCH SETTINGS:

TL=M, RL=M, DX=F

107. THE AR17 CIRCUIT PACK USED FOR LOCAL CURRENT LOOP OPERATION SHALL BE ARRANGED WITH OPTIONS V,S,R,N AND J. THIS REQUIRES THE FOLLOWING SCREW SWITCH SETTINGS:

OPEN - A1,A3,A7,B1,B5,B12
CLOSED - A2,A4,A5,B2,B4,B6,B10

108. OPTION [S] SHALL BE FOR 10-BIT SIGNALING ON THE LEFT CONTROLLER, EQL 02-23, BY GROUNDING TERMINAL 206(LTENBITO) TO TERMINAL 205.

OPTION [S] SHALL BE FOR 11-BIT SIGNALING ON THE LEFT CONTROLLER, EQL 02-28, BY LEAVING TERMINAL 206(LTENBITO) OPEN.

OPTION [S] SHALL BE FOR 10-BIT SIGNALING ON THE RIGHT CONTROLLER, EQL 02-17, BY GROUNDING TERMI 206(RTENBITO) TO TERMINAL 205.

OPTION [S] SHALL BE FOR 11-BIT SIGNALING ON THE RIGHT CONTROLLER, EQL 02-17, BY LEAVING TERMINAL 206(RTENBITO) OPEN.

109. BAUD RATES OF 110,150,300,600 AND 1200 ARE SELECTED AS FOLLOWS:

LEFT CONTROLLER OPT	RATE	CONNECT FROM NET	FROM EQL	FROM TERM.	TO NET	TO EQL	TO TERM.
[X]	110	LCT111	02-28	207	LCT1111	02-28	310
		LB1X01	02-28	106	LLTIM1	02-28	215
[W]	150	LB1X01	02-28	106	LLTIM1	02-28	215
[V]	300	L300C1	02-28	007	LLTIM1	02-28	215
[U]	600	L600C1	02-28	306	LLTIM1	02-28	215
[T]	1200	LLTTBC1	02-27	204	LLTIM1	02-28	215
RIGHT CONTROLLER							
[X]	110	RCT111	02-17	207	RCT1111	02-17	310
		RB1X01	02-17	106	RLTIM1	02-17	215
[W]	150	RB1X01	02-17	106	RLTIM1	02-17	215
[V]	300	R300C1	02-17	007	RLTIM1	02-17	215
[U]	600	R600C1	02-17	306	RLTIM1	02-17	215
[T]	1200	RLTTBC1	02-18	204	RLTIM1	02-17	215

110. PRIOR TO ISSUE 7AC OPTION N WAS PART OF OPTION Y AND OPTION K WAS PART OF OPTION Z.

EQUIPMENT NOTES:

201. WIRING SHALL BE PRINTED WIRING PLANES LOCATED IN MULTILAYER PRINTED WIRING BOARD, ED4C017-30.

202. FOR LOCAL CURRENT LOOP OPERATION THE DC RESISTANCE OF THE LOOP BETWEEN THE TTY AND THE TTYC SHALL NOT EXCEED 40 OHMS.

203. EIA SIGNAL LEADS SHALL NOT EXCEED 50 FEET IN LENGTH.

204. CONNECT THESE LEADS FOR TTYC UNITS EQUIPPED IN THE MAINTENANCE FRAME.

205. CONNECT THESE LEADS FOR TTYC UNITS EQUIPPED IN THE MISCELLANEOUS FRAME.

206. LEADS THAT CONNECT PORTS IN MATED TTYC'S SHALL NOT EXCEED 15 FEET IN LENGTH.

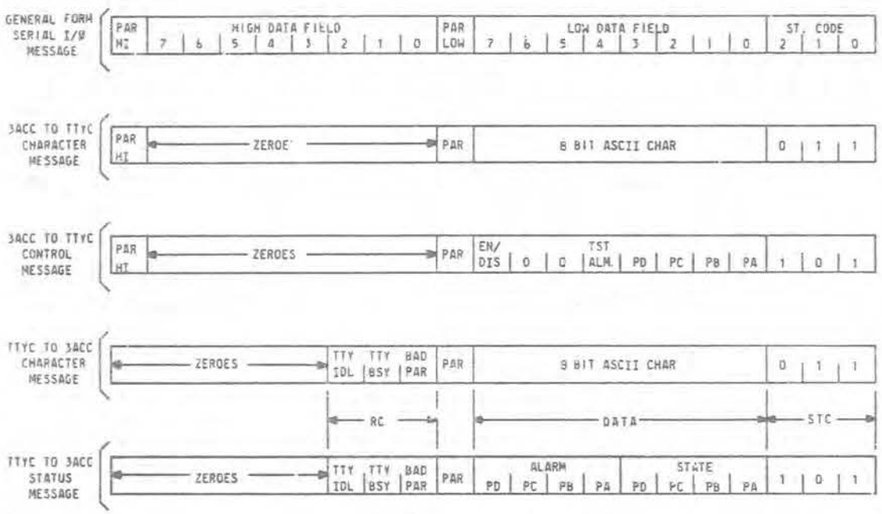
207. CONNECTION OF THE PAT LEAD IN NON-MAINTENANCE FRAME APPLICATIONS IS A SPECIFIC SYSTEM OPTION.

TELETYPEWRITER CONTROLLER UNIT (2)		DWG SIZE 6S	ISSUE 7AC
BELL LABORATORIES	SD-1C905-01		D1

INFORMATION NOTES:

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

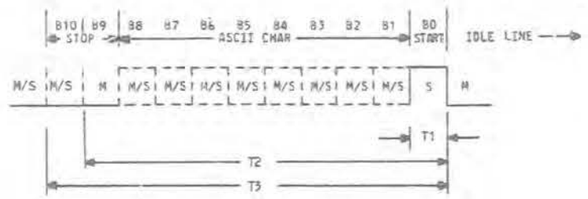
302. 3ACC-TTYC COMMUNICATION



303. TTYC RESPONSES

	INCOMING STATUS				TTYC ACTION			OUTGOING MSG.		
	INC PARITY	START CODE	CHAR READY	TTY AT REST	CHANGE PORT STAT	OUTPUT CHAR TO TTY	CLEAR READY	RC	DATA	STC
A	BAD	011	NO	NO	NO	NO	NO	001	STATUS	101
B			NO	YES						
C			YES	NO						
D			YES	YES						
E		101	NO	NO						
F			NO	YES						
G			YES	NO						
H			YES	YES						
I	GOOD	011	NO	NO	NO	NO	NO	010	STATUS	101
J			NO	YES	NO	YES	NO	100	STATUS	101
K			YES	NO	NO	NO	YES	010	CHAR	011
L			YES	YES	NO	NO	YES	100	CHAR	011
M		101	NO	NO	YES	NO	NO	010	STATUS	101
N			NO	YES	YES	NO	NO	100	STATUS	101
B			YES	NO	YES	NO	YES	010	CHAR	011
P			YES	YES	YES	NO	YES	100	CHAR	011

304. TTYC/TTY MESSAGE FORMAT



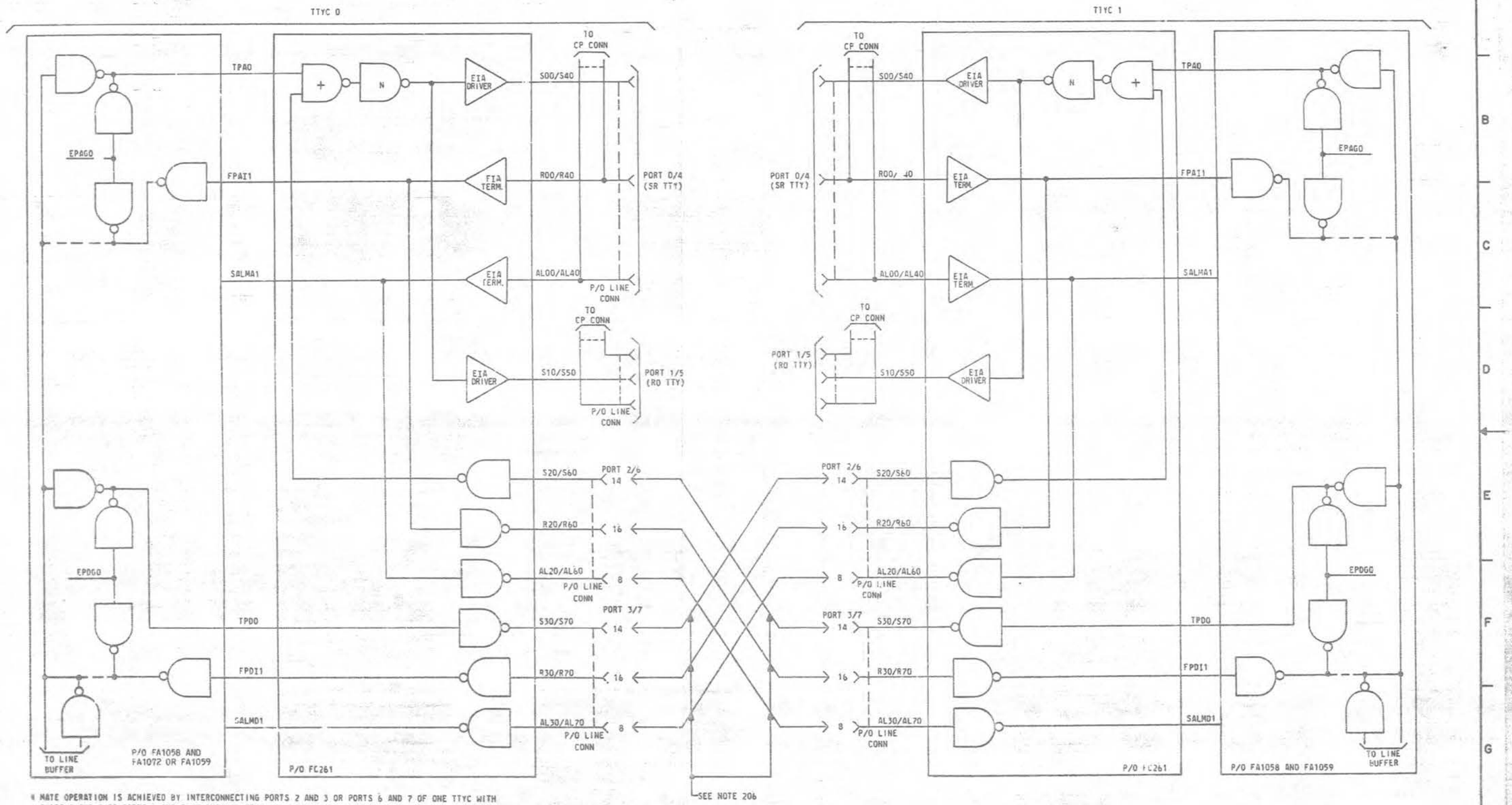
M = MARK
S = SPACE
M/S = MARK OR SPACE

DATA RATE BAUD	BIT TIME T1 MSEC	CHARACTER TIME (MSEC) T2 1 STOP BIT	CHARACTER TIME (MSEC) T3 2 STOP BITS	LINE TIMER CLOCK PERIOD USEC
110	9.1287	91.29	100.42	35.6588
150	6.6390	66.39	73.03	25.9336
300	3.3195	33.20	36.52	12.9668
600	1.6598	16.60	18.26	6.4834
1200	0.8299	8.30	9.13	3.2417

TELETYPEWRITER CONTROLLER UNIT (2)		DWG SIZE 65	ISSUE 4A
BELL LABORATORIES	SD-1C905-01		D2

INFORMATION NOTES: (CONT)
305.

TTYC'S ARRANGED FOR MATE OPERATION (OPTION 3)*

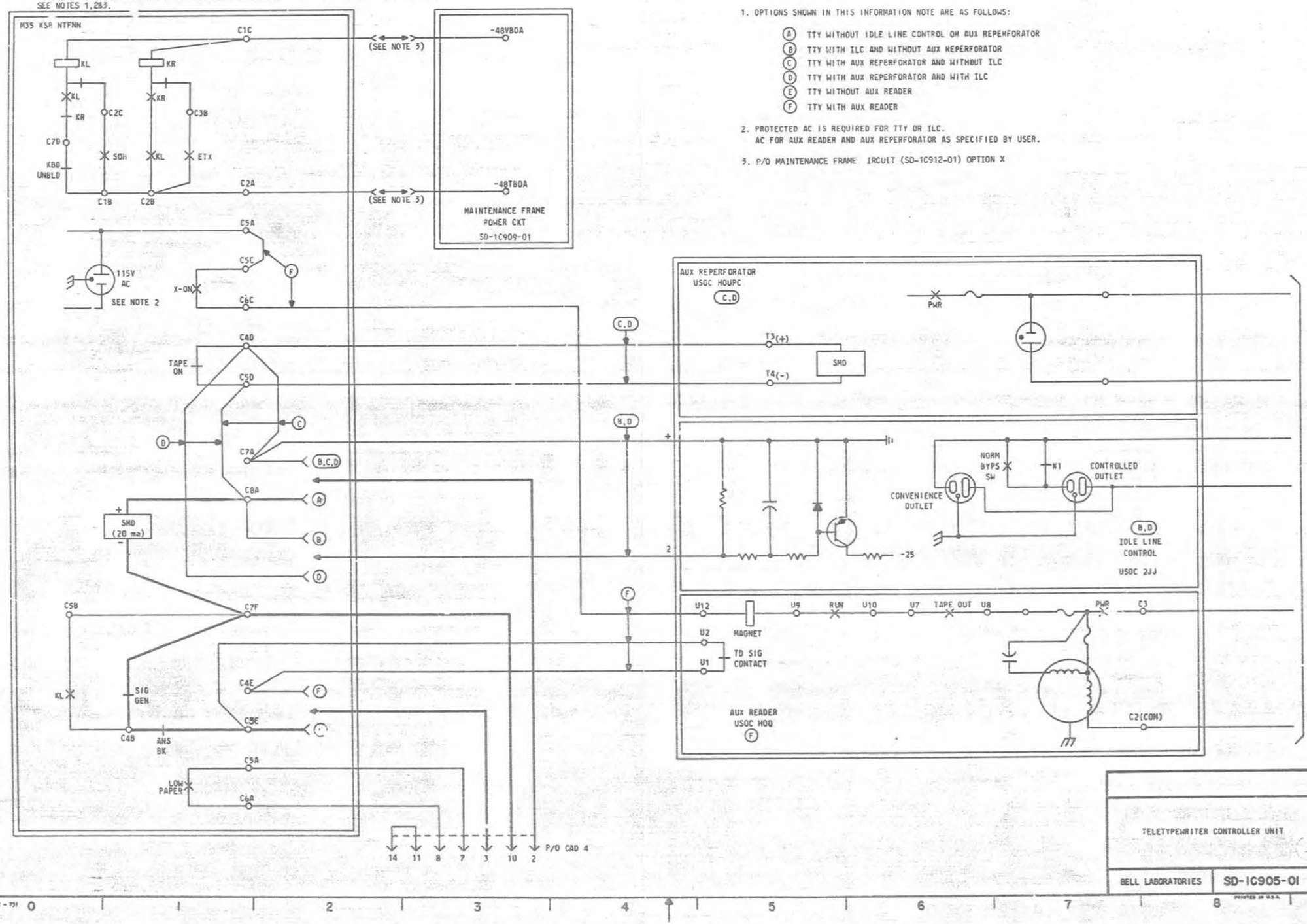


* MATE OPERATION IS ACHIEVED BY INTERCONNECTING PORTS 2 AND 3 OR PORTS 6 AND 7 OF ONE TTYC WITH PORTS 2 AND 3 OR PORTS 6 AND 7 OF ANOTHER TTYC AS SHOWN. TTY CONNECTIONS ARE AVAILABLE FROM PORTS 0 AND 1 WHEN PORTS 2 AND 3 ARE USED IN THE CROSS CONNECTION. TTY CONNECTIONS ARE AVAILABLE FROM PORTS 4 AND 5 WHEN PORTS 6 AND 7 ARE USED IN THE CROSS CONNECTION. NOTE THAT PORTS 1 AND 5 ARE SEND ONLY.

TELETYPEWRITER CONTROLLER UNIT (2)		DWG SIZE A5	ISSUE 7AC
BELL LABORATORIES	SD-1C905-01		D3

INFORMATION NOTES: (CONT)

>06. NO. 2B AND NO. 3 ESS LOCAL MAINTENANCE MODEL 35 TELETYPEWRITER WITH OPTIONAL IDLE LINE CONTROL, AUXILIARY READER, AUXILIARY REPERFORATOR AND KEYBOARD BLIND (FEATURE) SEE NOTES 1,2&3.



NOTES:

1. OPTIONS SHOWN IN THIS INFORMATION NOTE ARE AS FOLLOWS:

   (A) TTY WITHOUT IDLE LINE CONTROL OR AUX REPERFORATOR
   (B) TTY WITH ILC AND WITHOUT AUX REPERFORATOR
   (C) TTY WITH AUX REPERFORATOR AND WITHOUT ILC
   (D) TTY WITH AUX REPERFORATOR AND WITH ILC
   (E) TTY WITHOUT AUX READER
   (F) TTY WITH AUX READER

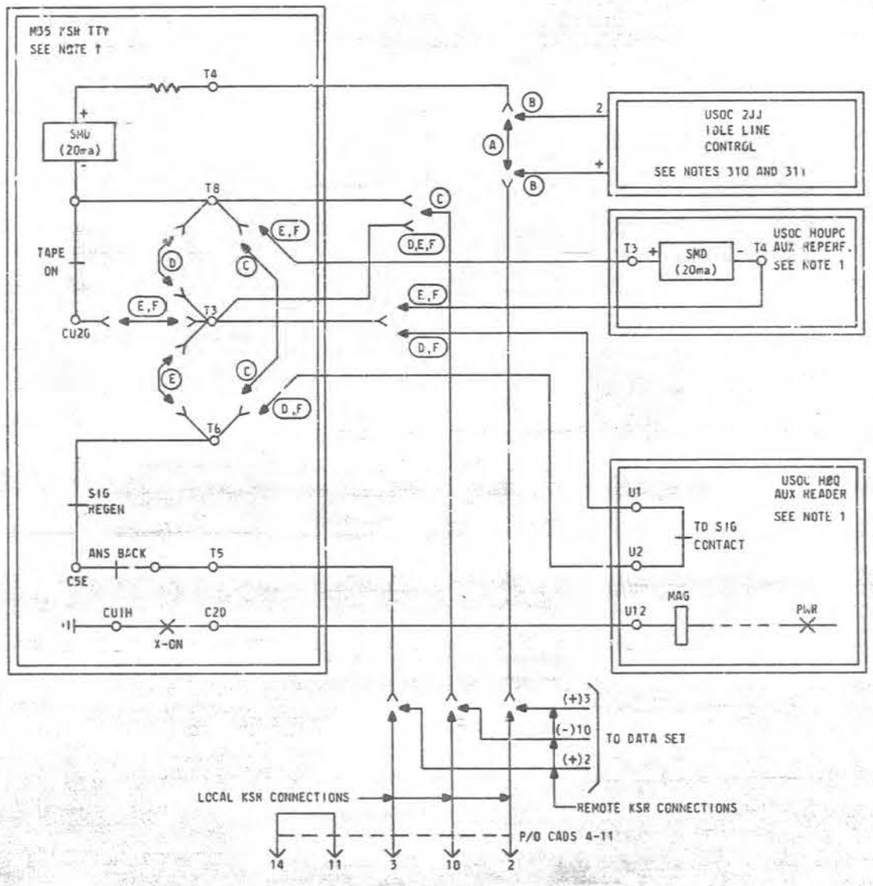
2. PROTECTED AC IS REQUIRED FOR TTY OR ILC.
   AC FOR AUX READER AND AUX REPERFORATOR AS SPECIFIED BY USER.

3. P/O MAINTENANCE FRAME CIRCUIT (SD-1C912-01) OPTION X

TELETYPEWRITER CONTROLLER UNIT		
	DWG SIZE 6S	ISSUE 7AC
BELL LABORATORIES	SD-1C905-01	D4

INFORMATION NOTES: (CONT)

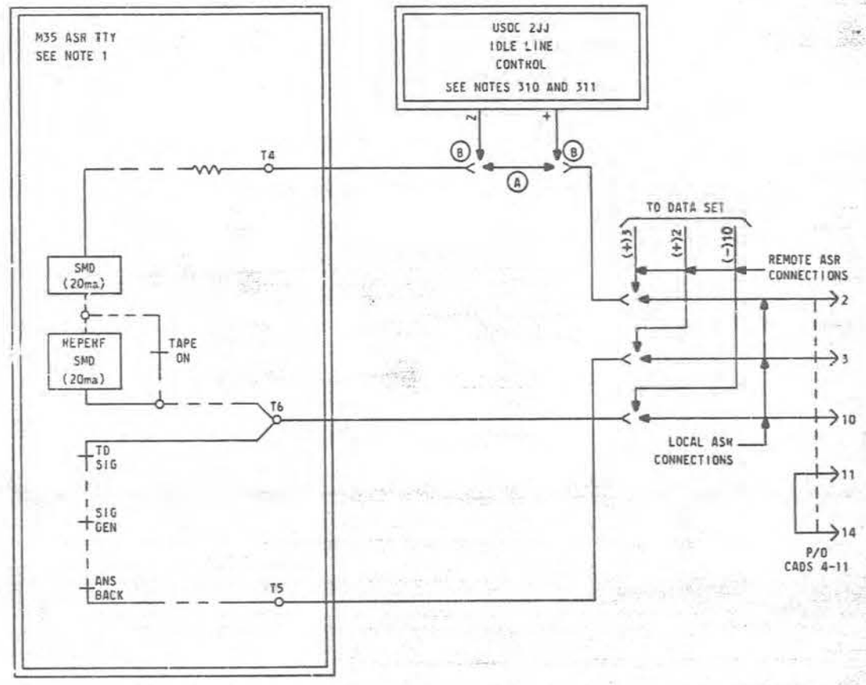
307. NO. 2B AND NO. 3 ESS NON MAINTENANCE MODEL 35 KSR TELETYPEWRITER INTERFACE.



NOTES:

1. PROTECTED AC AS REQUIRED BY USER.
2. OPTIONS FOR THIS INFORMATION NOTE ARE AS FOLLOWS:
   - (A) WITHOUT IDLE LINE CONTROL
   - (B) WITH IDLE LINE CONTROL
   - (C) WITHOUT AUX HEADER OR AUX REPERFORATOR
   - (D) WITH AUX HEADER ONLY
   - (E) WITH AUX REPERFORATOR ONLY
   - (F) WITH AUX HEADER AND AUX REPERFORATOR

308. NO. 2B AND NO. 3 ESS MODEL 35 ASR TELETYPEWRITER INTERFACE.



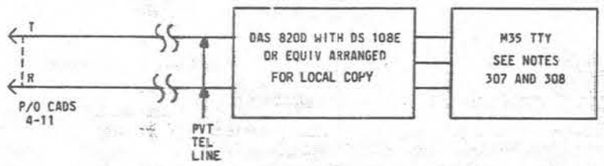
NOTES:

1. PROTECTED AC AS REQUIRED BY USER.
2. OPTIONS FOR THIS INFORMATION NOTE ARE AS FOLLOWS:
   - (A) WITHOUT IDLE LINE CONTROL
   - (B) WITH IDLE LINE CONTROL

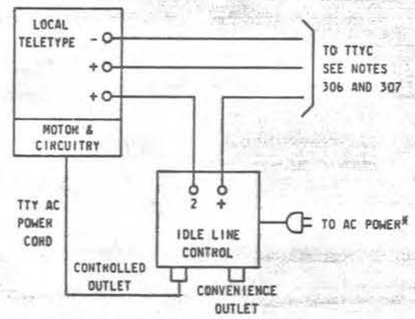
TELETYPEWRITER CONTROLLER UNIT	DWG SIZE 65	ISSUE 3D
BELL LABORATORIES	SD-1C905-01	D5

INFORMATION NOTES: (CONT)

309. REMOTE TTY ARRANGEMENT

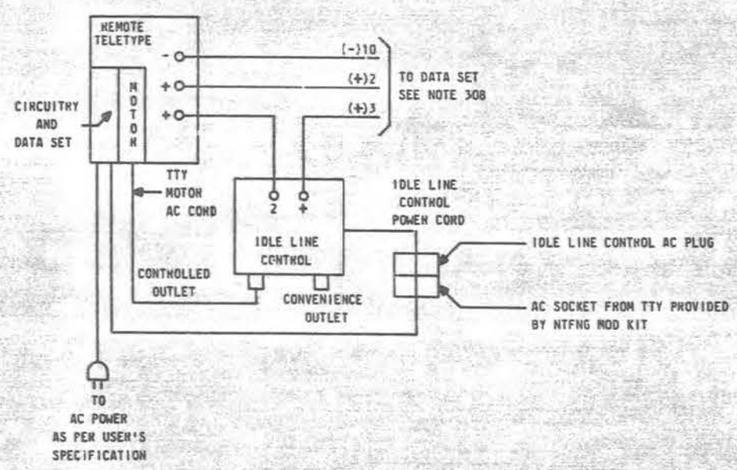


310. LOCAL TELETYPE WITH 2JJ IDLE LINE CONTROL



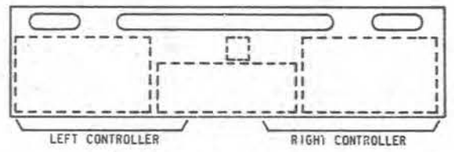
* PER USER'S SPECIFICATIONS EXCEPT WHEN USED IN CONJUNCTION WITH LOCAL MAINTENANCE TTY. IN THAT CASE PROTECTED AC IS REQUIRED.

311. REMOTE TELETYPE WITH 2JJ IDLE LINE CONTROL (REQUIRES NTFNG OPTION)



INFORMATION NOTES: (CONT)

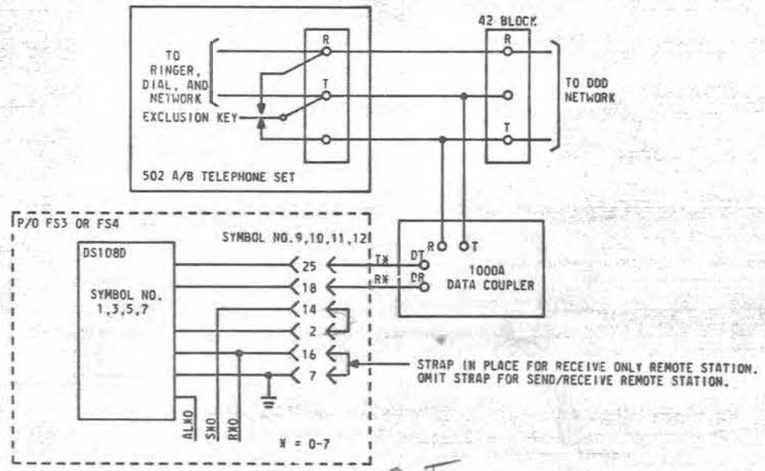
312. LEFT AND RIGHT CONTROLLERS WITHIN THE TTYC UNIT SHALL BE DEFINED AS FOLLOWS:



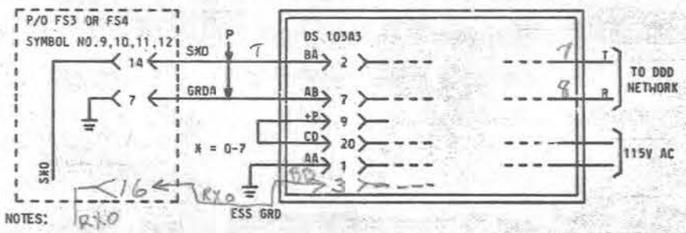
REAR VIEW

313. TYPICAL CONNECTION TO DDD NETWORK

A. USING INTERNAL 108 DATA SET



B. USING EXTERNALLY MOUNTED 103A3 DATA SET (FOR OPERATION WITH RECEIVE ONLY REMOTE STATION)

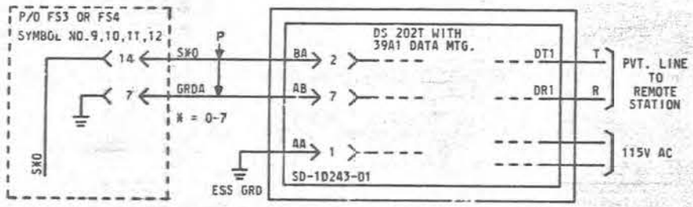


NOTES:

1. 103A3 DATA SET SHALL CONTAIN A 103E5 DATA SET WITH OPTIONS AS FOLLOWS: A,M,N,Q,S,T AND X. SEE BSP 591-025-201.
2. TEL SET FOR 103A3 MUST BE ORDERED SEPARATELY. SEE BSP 591-014-201.
3. PROTECTED AC IS RECOMMENDED.

TELETYPEWRITER CONTROLLER UNIT		DWG SIZE 6S	ISSUE 4A
BELL LABORATORIES	SD-1C905-01		D6

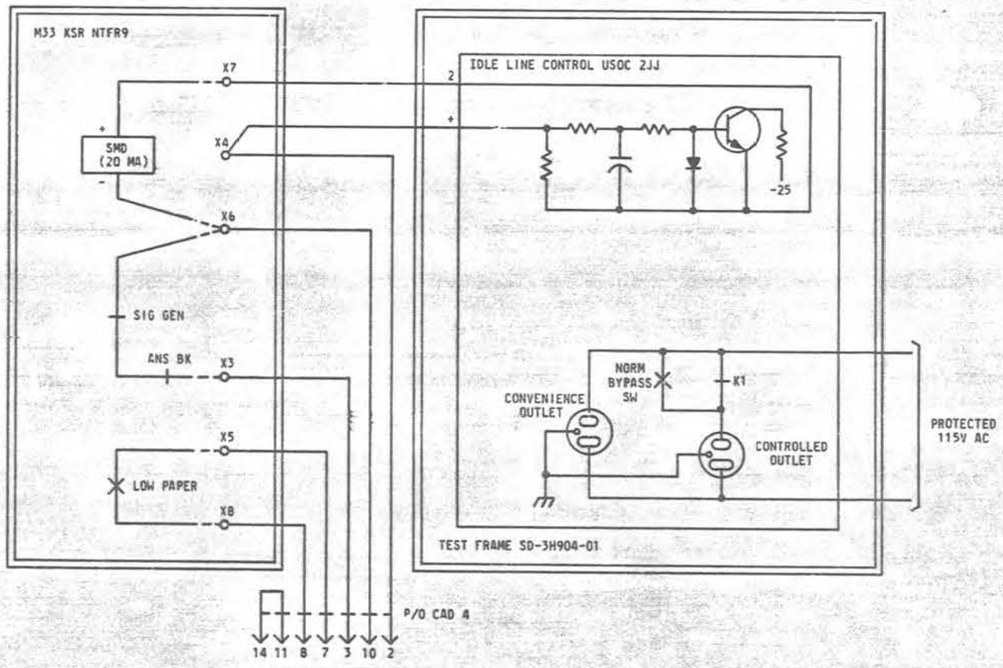
314. TYPICAL CONNECTION FOR PRIVATE LINE OPERATION WITH DATA SET 202T TO A RECEIVE ONLY REMOTE STATION (E.G. EADAS).



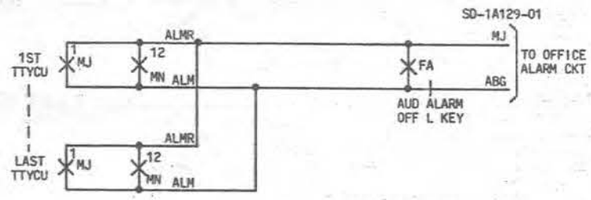
NOTE: DS202T ARRANGED FOR THE FOLLOWING OPTIONS:
A,E,*M,N,Z,*ZG,*ZI,*ZM,ZN, WITH *ZK OR ZD AS REQD FOR 4 WIRE OR 2 WIRE OPERATION RESPECTIVELY

* = FACTORY FURNISHED

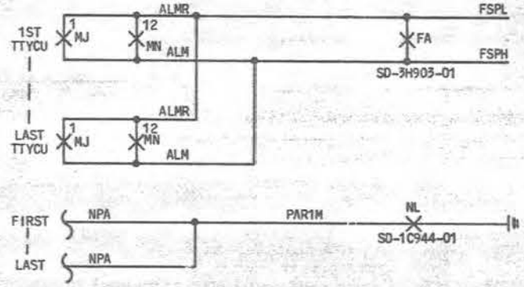
315. NO.3 ESS LOCAL MAINTENANCE MODEL 33 TELETYPEWRITER WITH IDLE LINE CONTROL



316. RECOMMENDED ALARM AND ALARM RESET CONNECTIONS WHEN THE TTYCU'S ARE INSTALLED IN A NO. 2B ESS MISCELLANEOUS OR SIMILAR FRAME.



317. RECOMMENDED ALARM AND ALARM RESET CONNECTIONS WHEN THE TTYCU'S ARE INSTALLED IN A NO. 3 ESS MISCELLANEOUS OR SIMILAR FRAME.



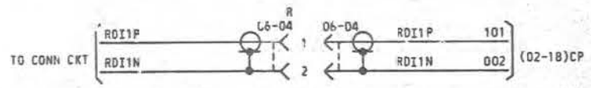
TELETYPEWRITER CONTROLLER UNIT (2)		DWG SIZE 6S	ISSUE 5AC
BELL LABORATORIES	SD-1C905-01		D7

PRINTED IN U.S.A.

NOTES:

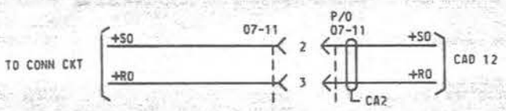
1. THE FOLLOWING SHOWS THE SYMBOLIC EQUIVALENT OF THE TABULAR REPRESENTATION.

TO CONNECTION: DESTINATION	LEAD DESIG	WIRE METHOD	SYM	TERMINAL	FROM CONNECTION: LEAD DESIG	TO TERMINATION	TERMINAL	OPT	NOTE
.....R				06-04	CONNECTOR (NOTE 1).....				
TO CONN CKT	RDI1P		CX1	1	RDI1P	02-18 CP	101		14
TO CONN CKT	RDI1N		CX1	2	RDI1N	02-18 CP	002		14



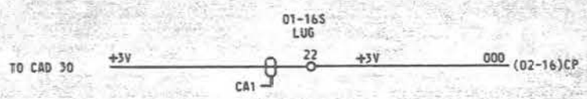
2. THE FOLLOWING SHOWS THE SYMBOLIC EQUIVALENT OF THE TABULAR REPRESENTATION.

TO CONNECTION: DESTINATION	LEAD DESIG	WIRE METHOD	SYM	TERMINAL	FROM CONNECTION: LEAD DESIG	TO TERMINATION	TERMINAL	OPT	NOTE
.....				07-11	CONNECTOR (NOTE 2).....				
	+SO	CA2		2	+SO	CAD 12			
TO CONN CKT	+SO			2	+SO				
	+RO	CA2		3	+RO	CAD 12			
TO CONN CKT	+RO			3	+RO				



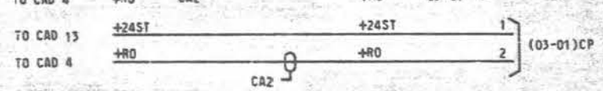
3. THE FOLLOWING SHOWS THE SYMBOLIC EQUIVALENT OF THE TABULAR REPRESENTATION.

TO CONNECTION: DESTINATION	LEAD DESIG	WIRE METHOD	SYM	TERMINAL	FROM CONNECTION: LEAD DESIG	TO TERMINATION	TERMINAL	OPT	NOTE
.....				01-16S	LUG	(NOTE 3).....			
TO CAD 30	+3V	CA1	P1	22	+3V	02-16 CP	000		13



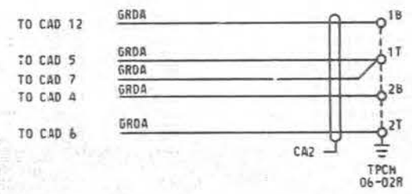
4. THE FOLLOWING SHOWS THE SYMBOLIC EQUIVALENT OF THE TABULAR REPRESENTATION.

TO CONNECTION: DESTINATION	LEAD DESIG	WIRE METHOD	SYM	TERMINAL	FROM CONNECTION: LEAD DESIG	TO TERMINATION	TERMINAL	OPT	NOTE
..... NO CAD APPARATUS INVOLVED									
TO CAD 13	+24ST				+24ST	03-01 CP	1		
TO CAD 4	+RO	CA2			+RO	03-01 CP	2		



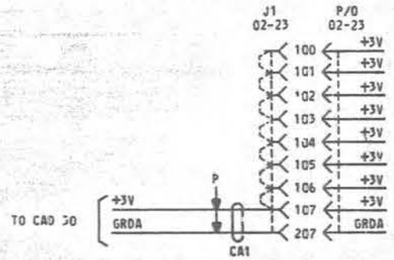
5. THE FOLLOWING SHOWS THE SYMBOLIC EQUIVALENT OF THE TABULAR REPRESENTATION.

TO CONNECTION: DESTINATION	LEAD DESIG	WIRE METHOD	SYM	TERMINAL	FROM CONNECTION: LEAD DESIG	TO TERMINATION	TERMINAL	OPT	NOTE
.....				06-02R	TPCH	(NOTE 5).....			
TO CAD 12	GRDA	CA2		1B	GRDA				11
TO CAD 5	GRDA	CA2		1T	GRDA				11
TO CAD 7	GRDA	CA2		1T	GRDA				11
TO CAD 4	GRDA	CA2		2B	GRDA				11
TO CAD 6	GRDA	CA2		2T	GRDA				11



6. THE FOLLOWING SHOWS THE SYMBOLIC EQUIVALENT OF THE TABULAR REPRESENTATION.

TO CONNECTION: DESTINATION	LEAD DESIG	WIRE METHOD	SYM	TERMINAL	FROM CONNECTION: LEAD DESIG	TO TERMINATION	TERMINAL	OPT	NOTE
.....J1				02-23	JACK/PM	(NOTE 6).....			
	+3V	MC		100	+3V				
	+3V	MC		101	+3V				
	+3V	MC		102	+3V				
	+3V	MC		103	+3V				
	+3V	MC		104	+3V				
	+3V	MC		105	+3V				
	+3V	MC		106	+3V				
TO CAD 30	+3V	CA1	P1	107	+3V				13
TO CAD 30	GRDA	CA1	P1	207	GRDA				13



7. UNIT CABLES ARE DEFINED AS FOLLOWS:

CABLE NO.	CODE
CA1	ED4C020-10,G2
CA2	ED4C020-10,G1

8. THE FOLLOWING CODES OF CONNECTORS ARE USED:

DESIGNATION	CODE
J1	943M
J2	943G

9. UNLESS OTHERWISE SPECIFIED, ALL CAD WIRING SHALL BE 26 GA,BW.
10. WIRING SHALL BE KS-21336, 28 GA, MILENE INSULATION.
11. WIRING SHALL BE 24 GA, BW.
12. WIRING SHALL BE 24 GA, BU.
13. WIRING SHALL BE KS-13385, 16 GA PAIR, STRANDED.
14. WIRING SHALL BE KS-21112, L2, 30 GA 100 OHM COAX.

TELETYPEWRITER CONTROLLER UNIT	DWG SIZE 6S	ISSUE 2A
BELL LABORATORIES	SD-1C905-01	GBI

CAD 1
UNIT SYMBOL

ELEMENT IDENTIFIER
A

TTYC PWR

TERM. MODIFIER	FUNC	ACCESS TERM.	FS TERM.	LOC FS/SYM	NOTE
+24V	P	02-26-307	02-26-018	5/3	
+24V	P	02-26-308	02-26-018	5/3	
+24V	P	02-26-309	02-26-018	5/3	
-48RTNA	I	02-23-016	02-23-016	5/1	
-48RTNB	I	02-23-015	02-23-015	5/1	
-48RTNC	I	02-23-014	02-23-014	5/1	
-48RTND	I	02-23-114	02-23-114	5/1	
-48RTNE	I	02-23-115	02-23-115	5/1	
-48RTNF	I	02-23-116	02-23-116	5/1	
-48VA	P	02-23-019	02-23-017	5/1	
-48VA	P	02-23-017	02-23-017	5/1	
-48VA	P	02-23-018	02-23-017	5/1	
-48VE	I	02-23-117	02-23-117	5/1	
-48VF	I	02-23-118	02-23-118	5/1	
-48VG	I	02-23-119	02-23-119	5/1	
ALM	I	05-21-12M	05-21-12M	5/10	
ALMR	I	05-21-12	05-21-12	5/10	
FA1	O	02-26-301	02-23-314	5/1	
GRDA	G	02-23-113	02-23-319	5/1	
GRDA	G	02-23-013	02-23-319	5/1	
NPA	I	02-26-201	02-23-315	5/1	
PAT	I	02-26-300	02-23-312	5/1	
PA1	O	02-26-303	02-23-313	5/1	
PA1	O	02-26-203	02-23-313	5/1	
3VG0226B	G	02-26-200	02-26-200	5/3	

ELEMENT IDENTIFIER
B

TTYC RIGHT PORT CONNECTORS

TERM. MODIFIER	FUNC	ACCESS TERM.	FS TERM.	LOC FS/SYM	NOTE
+R0	O	07-11-3	03-01-2	4/1	
+R1	O	07-18-3	03-04-2	4/3	
+R2	O	06-11-3	03-07-2	4/5	
+R3	O	06-18-3	03-10-2	4/7	
+S0	I	07-11-2	03-01-3	4/1	
+S1	I	07-18-2	03-04-3	4/3	
+S2	I	06-11-2	03-07-3	4/5	
+S3	I	06-18-2	03-10-3	4/7	
AL00	I	07-11-8	02-18-017	2/4	
AL10	I	07-18-8	02-18-116	2/4	
AL20	I	06-11-8	02-18-015	2/4	
AL30	I	06-18-8	02-18-014	2/4	
BAB0	O	07-11-11	03-01-9	4/1	
BAB1	O	07-18-11	03-04-9	4/3	
BAB2	O	06-11-11	03-07-9	4/5	
BAB3	O	06-18-11	03-10-9	4/7	
GRDA	G	07-11-7	02-23-319	5/1	
GRDA	G	07-18-7	02-23-319	5/1	
GRDA	G	06-18-7	02-23-319	5/1	
GRDA	G	06-11-7	02-23-319	5/1	
R-24	P	07-11-10	02-25-016	5/4	
R-24	P	06-18-10	02-25-016	5/4	
R-24	P	07-18-10	02-25-016	5/4	
R0	OI	07-11-18	03-01-16	4/1	
R00	I	07-11-16	02-18-016	2/4	
R1	OI	07-18-18	03-04-16	4/3	
R10	I	07-18-16	02-18-115	2/4	
R2	OI	06-11-18	03-07-16	4/5	
R20	I	06-11-16	02-18-114	2/4	

ELEMENT IDENTIFIER (CONT)
B

TTYC RIGHT PORT CONNECTORS

TERM. MODIFIER	FUNC	ACCESS TERM.	FS TERM.	LOC FS/SYM	NOTE
R3	OI	06-18-18	03-10-16	4/7	
R30	I	06-18-16	02-18-113	2/4	
S00	O	07-11-14	02-18-310	2/4	
S10	O	07-18-14	02-18-309	2/4	
S20	O	06-11-14	02-18-108	2/4	
S30	O	06-18-14	02-18-008	2/4	
T0	OI	07-11-25	03-01-15	4/1	
T1	OI	07-18-25	03-04-15	4/3	
T2	OI	06-11-25	03-07-15	4/5	
T3	OI	06-18-25	03-10-15	4/7	

ELEMENT IDENTIFIER
C

TTYC LEFT PORT CONNECTORS

TERM. MODIFIER	FUNC	ACCESS TERM.	FS TERM.	LOC FS/SYM	NOTE
+R4	O	07-27-3	03-31-2	3/1	
+R5	O	07-34-3	03-34-2	3/3	
+R6	O	06-27-3	03-37-2	3/5	
+R7	O	06-34-3	03-40-2	3/7	
+S4	I	07-27-2	03-31-3	3/1	
+S5	I	07-34-2	03-34-3	3/3	
+S6	I	06-27-2	03-37-3	3/5	
+S7	I	06-34-2	03-40-3	3/7	
AL40	I	07-27-8	02-27-017	1/4	
AL50	I	07-34-8	02-27-116	1/4	
AL60	I	06-27-8	02-27-015	1/4	
AL70	I	06-34-8	02-27-014	1/4	
BA34	O	07-27-11	03-31-9	3/1	
BAB5	O	07-34-11	03-34-9	3/3	
BAB6	O	06-27-11	03-37-9	3/5	
BAB7	O	06-34-11	03-40-9	3/7	
GRDA	G	06-27-7	02-23-319	5/1	
GRDA	G	06-34-7	02-23-319	5/1	
GRDA	G	07-34-7	02-23-319	5/1	
GRDA	G	07-27-7	02-23-319	5/1	
L-24	P	07-34-10	02-25-004	5/4	
L-24	P	07-27-10	02-25-004	5/4	
L-24	P	06-27-10	02-25-004	5/4	
L-24	P	06-34-10	02-25-004	5/4	
R4	OI	07-27-18	03-31-16	3/1	
R40	I	07-27-16	02-27-016	1/4	
R5	OI	07-34-18	03-34-16	3/3	
R50	I	07-34-16	02-27-115	1/4	
R6	OI	06-27-18	03-37-16	3/5	
R60	I	06-27-16	02-27-114	1/4	
R7	OI	06-34-18	03-40-16	3/7	
R70	I	06-34-16	02-27-113	1/4	
S40	O	07-27-14	02-27-310	1/4	
S50	O	07-34-14	02-27-309	1/4	
S60	O	06-27-14	02-27-108	1/4	
S70	O	06-34-14	02-27-008	1/4	
T4	OI	07-27-25	03-31-15	3/1	
T5	OI	07-34-25	03-34-15	3/3	
T6	OI	06-27-25	03-37-15	3/5	
T7	OI	06-34-25	03-40-15	3/7	

ELEMENT IDENTIFIER
D

TTYC LEFT CHANNEL CONNECTORS

TERM. MODIFIER	FUNC	ACCESS TERM.	FS TERM.	LOC FS/SYM	NOTE
LDI0N	I	07-38-2	02-27-303	1/1	14
LDI0P	I	07-38-1	02-27-203	1/1	14
LDI1N	I	06-38-2	02-27-002	1/1	14
LDI1P	I	06-38-1	02-27-101	1/1	14
LDO0N	O	07-40-2	02-27-305	1/1	14
LDO0P	O	07-40-1	02-27-206	1/1	14
LDO1N	O	06-40-2	02-27-304	1/1	14
LDO1P	O	06-40-1	02-27-205	1/1	14
LI0N	O	07-42-2	02-27-105	1/1	14
LI0P	O	07-42-1	02-27-005	1/1	14
LI1N	O	06-42-2	02-27-104	1/1	14
LI1P	O	06-42-1	02-27-004	1/1	14

ELEMENT IDENTIFIER
E

TTYC RIGHT CHANNEL CONNECTORS

TERM. MODIFIER	FUNC	ACCESS TERM.	FS TERM.	LOC FS/SYM	NOTE
RDI0N	I	07-04-2	02-18-303	2/1	14
RDI0P	I	07-04-1	02-18-203	2/1	14
RDI1N	I	06-04-2	02-18-002	2/1	14
RDI1P	I	06-04-1	02-18-101	2/1	14
RDO0N	O	07-06-2	02-18-305	2/1	14
RDO0P	O	07-06-1	02-18-206	2/1	14
RDO1N	O	06-06-2	02-18-304	2/1	14
RDO1P	O	06-06-1	02-18-205	2/1	14
RI0N	O	07-08-2	02-18-105	2/1	14
RI0P	O	07-08-1	02-18-005	2/1	14
RI1N	O	06-08-2	02-18-104	2/1	14
RI1P	O	06-08-1	02-18-004	2/1	14

TELETYPEWRITER CONTROLLER UNIT

DWG SIZE: C2 | ISSUE: 2A

BELL LABORATORIES | SD-1C905-01 | GB2

PRINTED IN U. S. A. 06/27/75

CAD 2

RIGHT CHANNEL CONNECTORS

TO CONNECTION: DESTINATION	LEAD DESIG	METHOD	FROM CONNECTION: WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....R			06-04		CONNECTOR	(NOTE 1).....			
TO CONN CKT	RDI1P		CX1	1	RDI1P	02-18	CP 101		14
	RDI1N		CX1	2	RDI1N	02-18	CP 002		14
.....S			06-06		CONNECTOR	(NOTE 1).....			
TO CONN CKT	RDO1P		CX2	1	RDO1P	02-18	CP 205		14
	RDO1N		CX2	2	RDO1N	02-18	CP 304		14
.....I			06-08		CONNECTOR	(NOTE 1).....			
TO CONN CKT	RI1P		CX3	1	RI1P	02-18	CP 004		14
	RI1N		CX3	2	RI1N	02-18	CP 104		14
.....R			07-04		CONNECTOR	(NOTE 1).....			
TO CONN CKT	RDIOP		CX4	1	RDIOP	02-18	CP 203		14
	RDION		CX4	2	RDION	02-18	CP 303		14
.....S			07-06		CONNECTOR	(NOTE 1).....			
TO CONN CKT	RDOOP		CX5	1	RDOOP	02-18	CP 206		14
	RDOON		CX5	2	RDOON	02-18	CP 305		14
.....I			07-08		CONNECTOR	(NOTE 1).....			
TO CONN CKT	RIOP		CX6	1	RIOP	02-18	CP 005		14
	RION		CX6	2	RION	02-18	CP 105		14

CAD 3

LEFT CHANNEL CONNECTORS

TO CONNECTION: DESTINATION	LEAD DESIG	METHOD	FROM CONNECTION: WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....R			06-38		CONNECTOR	(NOTE 1).....			
TO CONN CKT	LDI1P		CX1	1	LDI1P	02-27	CP 101		14
	LDI1N		CX1	2	LDI1N	02-27	CP 002		14
.....S			06-40		CONNECTOR	(NOTE 1).....			
TO CONN CKT	LDO1P		CX2	1	LDO1P	02-27	CP 205		14
	LDO1N		CX2	2	LDO1N	02-27	CP 304		14
.....I			06-42		CONNECTOR	(NOTE 1).....			
TO CONN CKT	LI1P		CX3	1	LI1P	02-27	CP 004		14
	LI1N		CX3	2	LI1N	02-27	CP 104		14
.....R			07-38		CONNECTOR	(NOTE 1).....			
TO CONN CKT	LDIOP		CX4	1	LDIOP	02-27	CP 203		14
	LDION		CX4	2	LDION	02-27	CP 303		14
.....S			07-40		CONNECTOR	(NOTE 1).....			
TO CONN CKT	LDOOP		CX5	1	LDOOP	02-27	CP 206		14
	LDOON		CX5	2	LDOON	02-27	CP 305		14
.....I			07-42		CONNECTOR	(NOTE 1).....			
TO CONN CKT	LIOP		CX6	1	LIOP	02-27	CP 005		14
	LION		CX6	2	LION	02-27	CP 105		14

CAD 4

PORT 0

TO CONNECTION: DESTINATION	LEAD DESIG	METHOD	FROM CONNECTION: WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....			07-11		CONNECTOR	(NOTE 2).....			
	+S0	CA2		2	+S0	CAD 12			
TO CONN CKT	+S0			2	+S0				
	+R0	CA2		3	+R0	CAD 12			
TO CONN CKT	+R0			3	+R0				
	GRDA	CA2		7	GRDA	CAD 22			11
TO CONN CKT	GRDA			7	GRDA				
	AL00	CA2		8	AL00	CAD 12			
TO CONN CKT	AL00			8	AL00				
	R-24	CA2		10	R-24	CAD 12			
TO CONN CKT	R-24			10	R-24				
	BAB0	CA2		11	BAB0	CAD 12			
TO CONN CKT	BAB0			11	BAB0				
	S00	CA2		14	S00	CAD 20			10
TO CONN CKT	S00			14	S00				
	R00	CA2		16	R00	CAD 12			
TO CONN CKT	R00			16	R00				
	R0	CA2		18	R0	CAD 12			
TO CONN CKT	R0			18	R0				
	T0	CA2		25	T0	CAD 12			
TO CONN CKT	T0			25	T0				

CAD 5

PORT 1

TO CONNECTION: DESTINATION	LEAD DESIG	METHOD	FROM CONNECTION: WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....			07-18		CONNECTOR	(NOTE 2).....			
	+S1	CA2		2	+S1	CAD 13			
TO CONN CKT	+S1			2	+S1				
	+R1	CA2		3	+R1	CAD 13			
TO CONN CKT	+R1			3	+R1				
	GRDA	CA2		7	GRDA	CAD 22			11
TO CONN CKT	GRDA			7	GRDA				
	AL10	CA2		8	AL10	CAD 13			
TO CONN CKT	AL10			8	AL10				
	R-24	CA2		10	R-24	CAD 13			
TO CONN CKT	R-24			10	R-24				
	BAB1	CA2		11	BAB1	CAD 13			
TO CONN CKT	BAB1			11	BAB1				
	S10	CA2		14	S10	CAD 20			10
TO CONN CKT	S10			14	S10				
	R10	CA2		16	R10	CAD 13			
TO CONN CKT	R10			16	R10				
	R1	CA2		18	R1	CAD 13			
TO CONN CKT	R1			18	R1				
	T1	CA2		25	T1	CAD 13			
TO CONN CKT	T1			25	T1				

CAD 6

PORT 2

TO CONNECTION: DESTINATION	LEAD DESIG	METHOD	FROM CONNECTION: WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....			06-11		CONNECTOR	(NOTE 2).....			
	+S2	CA2		2	+S2	CAD 14			
TO CONN CKT	+S2			2	+S2				
	+R2	CA2		3	+R2	CAD 14			
TO CONN CKT	+R2			3	+R2				
	GRDA	CA2		7	GRDA	CAD 22			11
TO CONN CKT	GRDA			7	GRDA				
	AL20	CA2		8	AL20	CAD 14			
TO CONN CKT	AL20			8	AL20				
	R-24	CA2		10	R-24	CAD 14			
TO CONN CKT	R-24			10	R-24				

CAD 6

(CONT'D)

TO CONNECTION: DESTINATION	LEAD DESIG	METHOD	FROM CONNECTION: WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....			06-11 (CONT'D)		CONNECTOR	(NOTE 2).....			
	BAB2	CA2		11	BAB2	CAD 14			
TO CONN CKT	BAB2			11	BAB2				
	S20	CA2		14	S20	CAD 20			10
TO CONN CKT	S20			14	S20				
	R20	CA2		16	R20	CAD 14			
TO CONN CKT	R20			16	R20				
	R2	CA2		18	R2	CAD 14			
TO CONN CKT	R2			18	R2				
	T2	CA2		25	T2	CAD 14			
TO CONN CKT	T2			25	T2				

CAD 7

PORT 3

TO CONNECTION: DESTINATION	LEAD DESIG	METHOD	FROM CONNECTION: WIRE SYM	TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....			06-18		CONNECTOR	(NOTE 2).....			
	+S3	CA2		2	+S3	CAD 15			
TO CONN CKT	+S3			2	+S3				
	+R3	CA2		3	+R3	CAD 15			
TO CONN CKT	+R3			3	+R3				
	GRDA	CA2		7	GRDA	CAD 22			11
TO CONN CKT	GRDA			7	GRDA				
	AL30	CA2		8	AL30	CAD 15			
TO CONN CKT	AL30			8	AL30				
	R-24	CA2		10	R-24	CAD 15			
TO CONN CKT	R-24			10	R-24				
	BAB3	CA2		11	BAB3	CAD 15			
TO CONN CKT	BAB3			11	BAB3				
	S30	CA2		14	S30	CAD 20			10
TO CONN CKT	S30			14	S30				
	R30	CA2		16	R30	CAD 15			
TO CONN CKT	R30			16	R30				
	R3	CA2		18	R3	CAD 15			
TO CONN CKT	R3			18	R3				
	T3	CA2		25	T3	CAD 15			
TO CONN CKT	T3			25	T3				

TELETYPEWRITER CONTROLLER UNIT

DWG SIZE: D2 | ISSUE: 2A

BELL LABORATORIES | SD-1C905-01 | GB3

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CAD 8

PORT 4

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
				07-27	CONNECTOR (NOTE 2)				
	+S4	CA2		2	+S4	CAD 16			
TO CONN CKT	+S4			2	+S4				
	+R4	CA2		3	+R4	CAD 16			
TO CONN CKT	+R4			3	+R4				
	GRDA	CA2		7	GRDA	CAD 23			11
TO CONN CKT	GRDA			7	GRDA				
	AL40	CA2		8	AL40	CAD 16			
TO CONN CKT	AL40			8	AL40				
	L-24	CA2		10	L-24	CAD 16			
TO CONN CKT	L-24			10	L-24				
	BAB4	CA2		11	BAB4	CAD 16			
TO CONN CKT	BAB4			11	BAB4				
	S40	CA2		14	S40	CAD 21			10
TO CONN CKT	S40			14	S40				
	R40	CA2		16	R40	CAD 16			
TO CONN CKT	R40			16	R40				
	R4	CA2		18	R4	CAD 16			
TO CONN CKT	R4			18	R4				
	T4	CA2		25	T4	CAD 16			
TO CONN CKT	T4			25	T4				

CAD 9

PORT 5

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
				07-34	CONNECTOR (NOTE 2)				
	+S5	CA2		2	+S5	CAD 17			
TO CONN CKT	+S5			2	+S5				
	+R5	CA2		3	+R5	CAD 17			
TO CONN CKT	+R5			3	+R5				
	GRDA	CA2		7	GRDA	CAD 23			11
TO CONN CKT	GRDA			7	GRDA				
	AL50	CA2		8	AL50	CAD 17			
TO CONN CKT	AL50			8	AL50				
	L-24	CA2		10	L-24	CAD 17			
TO CONN CKT	L-24			10	L-24				
	BAB5	CA2		11	BAB5	CAD 17			
TO CONN CKT	BAB5			11	BAB5				
	S50	CA2		14	S50	CAD 21			10
TO CONN CKT	S50			14	S50				
	R50	CA2		16	R50	CAD 17			
TO CONN CKT	R50			16	R50				
	R5	CA2		18	R5	CAD 17			
TO CONN CKT	R5			18	R5				
	T5	CA2		25	T5	CAD 17			
TO CONN CKT	T5			25	T5				

CAD 10

PORT 6

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
				06-27	CONNECTOR (NOTE 2)				
	+S6	CA2		2	+S6	CAD 18			
TO CONN CKT	+S6			2	+S6				
	+R6	CA2		3	+R6	CAD 18			
TO CONN CKT	+R6			3	+R6				
	GRDA	CA2		7	GRDA	CAD 23			11
TO CONN CKT	GRDA			7	GRDA				
	AL60	CA2		8	AL60	CAD 18			
TO CONN CKT	AL60			8	AL60				
	L-24	CA2		10	L-24	CAD 18			
TO CONN CKT	L-24			10	L-24				

CAD 10 (CONT'D)

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
				06-27 (CONT'D)	CONNECTOR (NOTE 2)				
	BABo	CA2		11	BAB6	CAD 18			
TO CONN CKT	BAB6			11	BAB6				
	S60	CA2		14	S60	CAD 21			10
TO CONN CKT	S60			14	S60				
	R60	CA2		16	R60	CAD 18			
TO CONN CKT	R60			16	R60				
	R6	CA2		18	R6	CAD 18			
TO CONN CKT	R6			18	R6				
	T6	CA2		25	T6	CAD 18			
TO CONN CKT	T6			25	T6				

CAD 11

PORT 7

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
				06-34	CONNECTOR (NOTE 2)				
	+S7	CA2		2	+S7	CAD 19			
TO CONN CKT	+S7			2	+S7				
	+R7	CA2		3	+R7	CAD 19			
TO CONN CKT	+R7			3	+R7				
	GRDA	CA2		7	GRDA	CAD 23			11
TO CONN CKT	GRDA			7	GRDA				
	AL70	CA2		8	AL70	CAD 19			
TO CONN CKT	AL70			8	AL70				
	L-24	CA2		10	L-24	CAD 19			
TO CONN CKT	L-24			10	L-24				
	BAB7	CA2		11	BAB7	CAD 19			
TO CONN CKT	BAB7			11	BAB7				
	S70	CA2		14	S70	CAD 21			10
TO CONN CKT	S70			14	S70				
	R70	CA2		16	R70	CAD 19			
TO CONN CKT	R70			16	R70				
	R7	CA2		18	R7	CAD 19			
TO CONN CKT	R7			18	R7				
	T7	CA2		25	T7	CAD 19			
TO CONN CKT	T7			25	T7				

CAD 12

PORT 0

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
					NO CAD APPARATUS INVOLVED				
TO CAD 13	+24ST				+24ST	03-01	CP	1	11
TO CAD 4	+R0	CA2			+R0	03-01	CP	2	
	+S0	CA2			+S0	03-01	CP	3	
03-01-10	R00	ST			R00	03-01	CP	4	
TO CAD 4	R00	CA2			R00	03-01	CP	4	
	AL00	CA2			AL00	03-01	CP	7	
TO CAD 20	AL00	CA2			AL00	03-01	CP	7	10
03-01-14	AL00	ST			AL00	03-01	CP	7	
TO CAD 13	GRDA				GRDA	03-01	CP	8	11
TO CAD 22	GRDA	CA2			GRDA	03-01	CP	8	11
TO CAD 4	BAB0	CA2			BAB0	03-01	CP	9	
03-01-4	R00	ST			R00	03-01	CP	10	
TO CAD 20	R00	CA2			R00	03-01	CP	10	10
03-01-7	AL00	ST			AL00	03-01	CP	14	
TO CAD 4	T0	CA2			T0	03-01	CP	15	
	R0	CA2			R0	03-01	CP	16	
	R-24	CA2			R-24	03-01	CP	20	
TO CAD 26	R-24	CA2			R-24	03-01	CP	20	10

CAD 13

PORT 1

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
					NO CAD APPARATUS INVOLVED				
TO CAD 14	+24ST				+24ST	03-04	CP	1	11
TO CAD 12	+24ST				+24ST	03-04	CP	1	11
TO CAD 5	+R1	CA2			+R1	03-04	CP	2	
	+S1	CA2			+S1	03-04	CP	3	
03-04-10	R10	ST			R10	03-04	CP	4	
TO CAD 5	R10	CA2			R10	03-04	CP	4	
	AL10	CA2			AL10	03-04	CP	7	
TO CAD 20	AL10	CA2			AL10	03-04	CP	7	10
03-04-14	AL10	ST			AL10	03-04	CP	7	
TO CAD 14	GRDA				GRDA	03-04	CP	8	11
TO CAD 12	GRDA				GRDA	03-04	CP	8	11
TO CAD 5	BAB1	CA2			BAB1	03-04	CP	9	
03-04-4	R10	ST			R10	03-04	CP	10	
TO CAD 20	R10	CA2			R10	03-04	CP	10	10
03-04-7	AL10	ST			AL10	03-04	CP	14	
TO CAD 5	T1	CA2			T1	03-04	CP	15	
	R1	CA2			R1	03-04	CP	16	
	R-24	CA2			R-24	03-04	CP	20	
TO CAD 26	R-24	CA2			R-24	03-04	CP	20	10

CAD 14

PORT 2

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
					NO CAD APPARATUS INVOLVED				
TO CAD 15	+24ST				+24ST	03-07	CP	1	11
TO CAD 13	+24ST				+24ST	03-07	CP	1	11
TO CAD 6	+R2	CA2			+R2	03-07	CP	2	
	+S2	CA2			+S2	03-07	CP	3	
	R20	CA2			R20	03-07	CP	4	
03-07-10	R20	ST			R20	03-07	CP	4	
TO CAD 6	AL20	CA2			AL20	03-07	CP	7	
TO CAD 20	AL20	CA2			AL20	03-07	CP	7	10
03-07-14	AL20	ST			AL20	03-04	CP	7	
TO CAD 15	GRDA				GRDA	03-07	CP	8	11
TO CAD 13	GRDA				GRDA	03-07	CP	8	11
TO CAD 6	BAB2	CA2			BAB2	03-07	CP	9	
03-07-4	R20	ST			R20	03-07	CP	10	
TO CAD 20	R20	CA2			R20	03-07	CP	10	10
03-07-7	AL20	ST			AL20	03-04	CP	14	
TO CAD 6	T2	CA2			T2	03-07	CP	15	
	R2	CA2			R2	03-07	CP	16	
	R-24	CA2			R-24	03-07	CP	20	
TO CAD 26	R-24	CA2			R-24	03-07	CP	20	10

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CAD 15

PORT 3

TO CONNECTION: DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION: LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....NO CAD APPARATUS INVOLVED.....									
TO CAD 16	+24ST	CA2			+24ST	03-10	CP 1		11
TO CAD 14	+24ST				+24ST	03-10	CP 1		11
TO CAD 7	+R3	CA2			+R3	03-10	CP 2		
|	+S3	CA2			+S3	03-10	CP 3		
|	R30	CA2			R30	03-10	CP 4		
03-10-10	R30	ST			R30	03-10	CP 4		
03-10-14	AL30	ST			AL30	03-10	CP 7		
TO CAD 7	AL30	CA2			AL30	03-10	CP 7		
TO CAD 20	AL30	CA2			AL30	03-10	CP 7		10
TO CAD 14	GRDA				GRDA	03-10	CP 8		11
TO CAD 7	BAB3	CA2			BAB3	03-10	CP 9		
03-10-4	R30	ST			R30	03-10	CP 10		
TO CAD 20	R30	CA2			R30	03-10	CP 10		10
03-10-7	AL30	ST			AL30	03-10	CP 14		
TO CAD 7	T3	CA2			T3	03-10	CP 15		
|	R3	CA2			R3	03-10	CP 16		
|	R-24	CA2			R-24	03-10	CP 20		
TO CAD 26	R-24	CA2			R-24	03-10	CP 20		10

CAD 16

PORT 4

TO CONNECTION: DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION: LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....NO CAD APPARATUS INVOLVED.....									
TO CAD 17	+24ST				+24ST	03-31	CP 1		11
TO CAD 15	+24ST	CA2			+24ST	03-31	CP 1		11
TO CAD 8	+R4	CA2			+R4	03-31	CP 2		
|	+S4	CA2			+S4	03-31	CP 3		
03-31-10	R40	ST			R40	03-31	CP 4		
TO CAD 8	R40	CA2			R40	03-31	CP 4		
|	AL40	CA2			AL40	03-31	CP 7		
TO CAD 21	AL40	CA2			AL40	03-31	CP 7		10
03-31-14	AL40	ST			AL40	03-31	CP 7		
TO CAD 24	GRDA	CA2			GRDA	03-31	CP 8		11
TO CAD 17	GRDA				GRDA	03-31	CP 8		11
TO CAD 8	BAB4	CA2			BAB4	03-31	CP 9		
03-31-4	R40	ST			R40	03-31	CP 10		
TO CAD 21	R40	CA2			R40	03-31	CP 10		10
	AL40	ST			AL40	03-31	CP 14		
TO CAD 8	T4	CA2			T4	03-31	CP 15		
|	R4	CA2			R4	03-31	CP 16		
|	L-24	CA2			L-24	03-31	CP 20		
TO CAD 26	L-24	CA2			L-24	03-31	CP 20		10

CAD 17

PORT 5

TO CONNECTION: DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION: LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....NO CAD APPARATUS INVOLVED.....									
TO CAD 18	+24ST				+24ST	03-34	CP 1		11
TO CAD 16	+24ST				+24ST	03-34	CP 1		11
TO CAD 9	+R5	CA2			+R5	03-34	CP 2		
|	+S5	CA2			+S5	03-34	CP 3		
03-34-10	R50	ST			R50	03-34	CP 4		
TO CAD 9	R50	CA2			R50	03-34	CP 4		
|	AL50	CA2			AL50	03-34	CP 7		
TO CAD 21	AL50	CA2			AL50	03-34	CP 7		10
03-34-14	AL50	ST			AL50	03-34	CP 7		
TO CAD 18	GRDA				GRDA	03-34	CP 8		11
TO CAD 16	GRDA				GRDA	03-34	CP 8		11
TO CAD 9	BAB5	CA2			BAB5	03-34	CP 9		
03-34-4	R50	ST			R50	03-34	CP 10		

CAD 17

(CONT'D)

TO CONNECTION: DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION: LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....NO CAD APPARATUS INVOLVED..... (CONT'D)									
TO CAD 21	R50	CA2			R50	03-34	CP 10		10
03-34-7	AL50	ST			AL50	03-34	CP 14		
TO CAD 9	T5	CA2			T5	03-34	CP 15		
|	R5	CA2			R5	03-34	CP 16		
|	L-24	CA2			L-24	03-34	CP 20		
TO CAD 26	L-24	CA2			L-24	03-34	CP 20		10

CAD 18

PORT 6

TO CONNECTION: DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION: LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....NO CAD APPARATUS INVOLVED.....									
TO CAD 19	+24ST				+24ST	03-37	CP 1		11
TO CAD 17	+24ST				+24ST	03-37	CP 1		11
TO CAD 10	+R6	CA2			+R6	03-37	CP 2		
|	+S6	CA2			+S6	03-37	CP 3		
03-37-10	R60	ST			R60	03-37	CP 4		
TO CAD 10	R60	CA2			R60	03-37	CP 4		
|	AL60	CA2			AL60	03-37	CP 7		
TO CAD 21	AL60	CA2			AL60	03-37	CP 7		10
03-37-14	AL60	ST			AL60	03-37	CP 7		
TO CAD 19	GRDA				GRDA	03-37	CP 8		11
TO CAD 17	GRDA				GRDA	03-37	CP 8		11
TO CAD 10	BAB6	CA2			BAB6	03-37	CP 9		
03-37-4	R60	ST			R60	03-37	CP 10		
TO CAD 21	R60	CA2			R60	03-37	CP 10		10
03-37-7	AL60	ST			AL60	03-37	CP 14		
TO CAD 10	T6	CA2			T6	03-37	CP 15		
|	R6	CA2			R6	03-37	CP 16		
|	L-24	CA2			L-24	03-37	CP 20		
TO CAD 26	L-24	CA2			L-24	03-37	CP 20		10

CAD 19

PORT 7

TO CONNECTION: DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION: LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....NO CAD APPARATUS INVOLVED.....									
TO CAD 24	+24ST	CA2			+24ST	03-40	CP 1		11
TO CAD 18	+24ST				+24ST	03-40	CP 1		11
TO CAD 11	+R7	CA2			+R7	03-40	CP 2		
|	+S7	CA2			+S7	03-40	CP 3		
03-40-10	R70	ST			R70	03-40	CP 4		
TO CAD 11	R70	CA2			R70	03-40	CP 4		
|	AL70	CA2			AL70	03-40	CP 7		
TO CAD 21	AL70	CA2			AL70	03-40	CP 7		10
03-40-14	AL70	ST			AL70	03-40	CP 7		
TO CAD 23	GRDA	CA2			GRDA	03-40	CP 8		11
TO CAD 18	GRDA				GRDA	03-40	CP 8		11
TO CAD 11	BAB7	CA2			BAB7	03-40	CP 9		
03-40-4	R70	ST			R70	03-40	CP 10		
TO CAD 21	R70	CA2			R70	03-40	CP 10		10
03-40-7	AL70	ST			AL70	03-40	CP 14		
TO CAD 11	T7	CA2			T7	03-40	CP 15		
|	R7	CA2			R7	03-40	CP 16		
|	L-24	CA2			L-24	03-40	CP 20		
TO CAD 26	L-24	CA2			L-24	03-40	CP 20		10

CAD 20

TO CONNECTION: DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION: LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....NO CAD APPARATUS INVOLVED.....									
TO CAD 4	S00	CA2			S00	02-18	CP 310		10
TO CAD 12	R00	CA2			R00	02-18	CP 016		10
|	AL00	CA2			AL00	02-18	CP 017		10
TO CAD 5	S10	CA2			S10	02-18	CP 309		10
TO CAD 13	R10	CA2			R10	02-18	CP 115		10
|	AL10	CA2			AL10	02-18	CP 116		10
TO CAD 6	S20	CA2			S20	02-18	CP 108		10
TO CAD 14	R20	CA2			R20	02-18	CP 114		10
|	AL20	CA2			AL20	02-18	CP 015		10
TO CAD 7	S30	CA2			S30	02-18	CP 008		10
TO CAD 15	R30	CA2			R30	02-18	CP 113		10
|	AL30	CA2			AL30	02-18	CP 114		10
TO CAD 25	+24ST	CA2			+24ST	02-18	CP 118		10

CAD 21

TO CONNECTION: DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION: LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....NO CAD APPARATUS INVOLVED.....									
TO CAD 8	S40	CA2			S40	02-27	CP 310		10
TO CAD 16	R40	CA2			R40	02-27	CP 016		10
|	AL40	CA2			AL40	02-27	CP 017		10
TO CAD 9	S50	CA2			S50	02-27	CP 309		10
TO CAD 17	R50	CA2			R50	02-27	CP 115		10
|	AL50	CA2			AL50	02-27	CP 116		10
TO CAD 10	S60	CA2			S60	02-27	CP 108		10
TO CAD 18	R60	CA2			R60	02-27	CP 114		10
|	AL60	CA2			AL60	02-27	CP 015		10
TO CAD 11	S70	CA2			S70	02-27	CP 008		10
TO CAD 19	R70	CA2			R70	02-27	CP 113		10
|	AL70	CA2			AL70	02-27	CP 014		10

CAD 22

TO CONNECTION: DESTINATION	LEAD DESIG	METHOD	WIRE SYM	FROM CONNECTION: TERMINAL	LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....				(NOTE 4) 02R	TPCH	(NOTE 5).....			
TO CAD 12	GRDA	CA2		1B	GRDA				11
TO CAD 7	GRDA	CA2		1T	GRDA				11
TO CAD 5	GRDA	CA2		1T	GRDA				11
TO CAD 4	GRDA	CA2		2B	GRDA				11
TO CAD 6	GRDA	CA2		2T	GRDA				11

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CAD 23

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....				06-43R	TPCH	(NOTE 5).....			
TO CAD 19	GRDA	CA2		1B	GRDA				11
TO CAD 9	GRDA	CA2		1T	GRDA				11
TO CAD 11	GRDA	CA2		1T	GRDA				11
TO CAD 10	GRDA	CA2		2B	GRDA				11
TO CAD 8	GRDA	CA2		2T	GRDA				11

CAD 24

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....NO CAD APPARATUS INVOLVED.....									
TO CAD 26	-48SW	CA2			-48SW	PWRSW	SW 1		10
|	-48SW	CA2			-48SW	PWRSW	SW 1		10
|	-48SW	CA2			-48SW	PWRSW	SW 1		10
TO CAD 28	-48VA	CA2			-48VA	PWRSW	SW 2		10
|	-48VA	CA2			-48VA	PWRSW	SW 2		10
|	-48VA	CA2			-48VA	PWRSW	SW 2		10
TO CAD 19	+24ST	CA2			+24ST	PWRSW	SW 4		11
07-23-MB(PWRSW)	+24ST	ST			+24ST	PWRSW	SW 4		12
TO CAD 27	+24V	CA2			+24V	PWRSW	SW 5		10
|	+24V	CA2			+24V	PWRSW	SW 5		10
|	+24V	CA2			+24V	PWRSW	SW 5		10
TO CAD 25	+24ST	CA2			+24ST	PWRSW	SW MB		12
07-23-4(PWRSW)	+24ST	ST			+24ST	PWRSW	SW MB		12
TO CAD 16	GRDA	CA2			GRDA	PWRSW	SW N		11

CAD 25

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....NO CAD APPARATUS INVOLVED.....									
TO CAD 26	OMJR0	CA2			OMJR0	MJ	RELAY 1L		10
TO CAD 20	+24ST	CA2			+24ST	MJ	RELAY 2L		10
05-21-2U(MN)	+24ST	ST			+24ST	MJ	RELAY 2L		12
05-21-2L(MJ)	+24ST	ST			+24ST	MN	RELAY 2U		12
TO CAD 24	+24ST	CA2			+24ST	MN	RELAY 2U		12
TO CAD 26	OMNR0	CA2			OMNR0	MN	RELAY 1U		10

CAD 26

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....NO CAD APPARATUS INVOLVED.....									
TO CAD 16	L-24	CA2			L-24	02-25	CP 003		10
TO CAD 17	L-24	CA2			L-24	02-25	CP 003		10
TO CAD 18	L-24	CA2			L-24	02-25	CP 004		10
TO CAD 19	L-24	CA2			L-24	02-25	CP 005		10
TO CAD 15	R-24	CA2			R-24	02-25	CP 016		10
TO CAD 14	R-24	CA2			R-24	02-25	CP 017		10
TO CAD 13	R-24	CA2			R-24	02-25	CP 018		10
TO CAD 12	R-24	CA2			R-24	02-25	CP 018		10

CAD 26 (CONT'D)

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....NO CAD APPARATUS INVOLVED..... (CONT'D)									
TO CAD 24	-48SW	CA2			-48SW	02-25	CP 202		10
|	-48SW	CA2			-48SW	02-25	CP 201		10
|	-48SW	CA2			-48SW	02-25	CP 002		10
TO CAD 25	OMJR0	CA2			OMJR0	02-25	CP 206		10
|	OMNR0	CA2			OMNR0	02-25	CP 211		10

CAD 27

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....NO CAD APPARATUS INVOLVED.....									
TO CAD 24	+24V	CA2			+24V	02-26	PM 307		10
|	+24V	CA2			+24V	02-26	PM 308		10
|	+24V	CA2			+24V	02-26	PM 309		10

CAD 28

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....NO CAD APPARATUS INVOLVED.....									
TO CAD 24	-48VA	CA2			-48VA	02-23	CP 018		10
|	-48VA	CA2			-48VA	02-23	CP 017		10
|	-48VA	CA2			-48VA	02-23	CP 019		10

CAD 29

TTYC UNIT - POWER TO REGULATOR

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....J1				02-23	JACK/PM	(NOTE 6).....			
	+3V	MC		100	+3V				
	+3V	MC		101	+3V				
	+3V	MC		102	+3V				
	+3V	MC		103	+3V				
	+3V	MC		104	+3V				
	+3V	MC		105	+3V				
	+3V	MC		106	+3V				
TO CAD 30	+3V	CA1	P1	107	+3V				13
	GRDA	MC		201	GRDA				
	GRDA	MC		202	GRDA				
	GRDA	MC		203	GRDA				
	GRDA	MC		204	GRDA				
	GRDA	MC		205	GRDA				
	GRDA	MC		206	GRDA				
TO CAD 30	GRDA	CA1	P1	207	GRDA				13

CAD 30

TTYC UNIT - REGULATED POWER TO MLPWB

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....J2				02-19	JACK/CP	(NOTE 6).....			
	+3V	MC		000	+3V				
	+3V	MC		001	+3V				
	+3V	MC		002	+3V				
	+3V	MC		003	+3V				
	+3V	MC		004	+3V				
	+3V	MC		005	+3V				
	+3V	MC		006	+3V				
TO CAD 29	+3V	CA1	P1	007	+3V				13
TO CAD 31	+3V	CA1	P2	007	+3V				13
	GRDA	MC		100	GRDA				
	GRDA	MC		101	GRDA				
	GRDA	MC		102	GRDA				
	GRDA	MC		103	GRDA				
	GRDA	MC		104	GRDA				
	GRDA	MC		105	GRDA				
	GRDA	MC		106	GRDA				
TO CAD 29	GRDA	CA1	P1	107	GRDA				13
TO CAD 31	GRDA	CA1	P2	107	GRDA				13

CAD 31

MLB LUGS

TO CONNECTION DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERMINAL	FROM CONNECTION LEAD DESIG	TERMINATION	TERMINAL	OPT	NOTE
.....				01-16S	LUG	(NOTE 3).....			
TO CAD 30	+3V	CA1	P1	22	+3V	02-16	CP 000		13
.....				01-17T	LUG	(NOTE 3).....			
TO CAD 30	GRDA	CA1	P1	11	GRDA	02-16	CP 200		13

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