

43 TELEPRINTER 8-LEVEL BUFFERED SELECTIVE CALLING (BSC) STATION

TESTING

CONTENTS	PAGE
1. GENERAL .....	1
PRELIMINARY CHECK. ....	2
TABLE A .....	3
2. TEST EQUIPMENT .....	2
3. TESTING PROCEDURES .....	2
INSTALLATION CHECKOUT .....	4
LOCAL TESTING. ....	16
ON-LINE TESTING .....	24

1. GENERAL

1.01 This section provides testing information for the 43 Teleprinter 8-Level Buffered Selective Calling (BSC).

1.02 Whenever this section is reissued, the reason for reissue will be listed in this paragraph.

1.03 The installation checkout, which includes both local and on-line tests, should be performed after installation to make sure the station is basically operable and that the installation was properly performed.

1.04 On trouble calls: Do the more comprehensive local and on-line tests to isolate specific troubles not covered in the installation check. After correction of a trouble, the test may be confined to the specific area that was failing.

1.05 Following routine maintenance calls at a location, the installation checkout should be performed.

1.06 The checkout routines are presented in chart form with test conditions arranged in a specific sequence. A response is given to verify the test condition has passed.

1.07 Always perform the tests in the order given. The test steps are based on satisfactory results of all previous steps.

1.08 If the indicated response is not obtained in any step of a test procedure, repeat the step to make sure that the procedure has been performed properly. If the results are still unsatisfactory, refer to the KSR Teleprinter Troubleshooting Section 574-500-303.

1.09 On-line tests can be performed with a Data Test Center or equivalent using Section 668-130-504, or can be simulated locally using the 921A Data Test Set (version four or higher).

1.10 Before an on-line test can be performed the remote testing station or Data Test Center must be provided with advance details about the teleprinter under test, such as telephone number, type of terminal (friction or tractor), option exceptions present, speed, etc, as in Chart 1, Step 7.

1.11 If the terminal is set up for isochronous operation, do the Installation Checkout with the Data Test Center; do not use the 921A Data Test Set.

1.12 In the test procedures, a (15) indicates an option, eg, LRC\_Ck. Refer to the "option map" in Section 574-500-202 for a listing of all options. This option map, filled out with the customer options, is required for testing.

1.13 The option map is coded with some 8th bit mark and space Hex characters but the teleprinter will send the Hex characters per option (3). See Table A on Page 3 for all the Hex parity values.

1.14 When LINE ACTIVE key lights as stated in the testing responses, the LED will be ON approximately 10 seconds after transmission ends, then go off again. If the teleprinter contains a 02 feature group (SC EC on set description label next to the code plate inside housing), the LED will be on only three seconds after transmission ends.

## SECTION 574-500-503

1.15 Procedures in local and on-line tests are based on options given in this section which may or may not be customer options. If option exceptions are present, the test response will be as shown in Engineering Options, Section 574-500-210.

1.16 All references to columns are after a one-second delay, to allow the print head to index two character spaces to the right. The print head indicates the next character position to be printed.

1.17 When ordering replaceable parts or components, unless otherwise specified, prefix each part number with the letters "TP" (ie, TP410055).

### PRELIMINARY CHECK

1.18 Before proceeding with the checkout procedure, check the following:

- (a) Is the station connected to a properly grounded and polarized ac service?
- (b) Are all cable connectors fully seated?
- (c) Are printer paper and ribbon properly installed?
- (d) Are any option exceptions present? Refer to the Engineering Options, Section 574-500-210 and reverse side of directory card.

### 2. TEST EQUIPMENT

2.01 To simulate on-line tests, the 921A Data Test Set can be used instead of calling the Data Test Center. If the teleprinter can be

tested in the customer system, do that instead of testing with either the 921A DTS or the Data Test Center.

### 3. TESTING PROCEDURES

3.01 Follow Chart 1 for the installation checkout. Do Steps 1, 2 and 3. If using the 921A Data Test Set, do Steps 4 and 5 if (15) and (19) are NO; do Step 6 if (15) is YES. If using the Data Test Center do Steps 7 and 8 if (15) and (19) are NO; do Steps 7 and 9 if (15) is YES. Do the Aux Only Tests in Steps 5, 6, 8 or 9 if an auxiliary teleprinter is used and (17) is NO.

3.02 Chart 2 is followed when a more comprehensive test is required. Do this local checkout before doing the comprehensive on-line test (Chart 3).

3.03 Chart 3 is followed when a more comprehensive on-line test is required. This chart is the same chart that is in the Data Test Center Section, 668-130-504. It indicates what the test center operator is doing besides what the installer is doing. The teleprinter options are transmitted to the Test Center to compare with the options the set should have. A set of test options is transmitted to the 43BSC for this test. After the test is completed either the Test Center will transmit the options back to the BSC or the installer will have to reoption the set locally. Voice and data lines are required. Call the Data Test Center on the voice line and request a comprehensive checkout. Give them the customer name so they can program the third field (in Chart 3, Step 1) with the customer options.

TABLE A

HEX TO CHARACTER CONVERSION FOR EVEN PARITY,  
ODD PARITY, 8TH BIT MARKING AND 8TH BIT SPACING

Use for 921A Data Test Set programming (Steps 5 and 6).

Hex	Even Parity ASCII	Odd Parity ASCII	8th Bit Spacing	8th Bit Marking	Even Parity ASCII	Odd Parity ASCII	Hex	Hex	Even Parity ASCII	Odd Parity ASCII	8th Bit Spacing	8th Bit Marking	Even Parity ASCII	Odd Parity ASCII	Hex
00	NUL		NUL	NUL	NUL	NUL	80	40		@	@	@	@	@	C0
01			SOH	SOH	SOH		81	41	A		A	A	A		C1
02		SOH	STX	STX	STX		82	42	B		B	B			C2
03	ETX		ETX	ETX		ETX	83	43		C	C	C	C		C3
04		EOT	EOT	EOT	EOT		84	44	D		D	D	D		C4
05	ENQ		ENQ	ENQ		ENQ	85	45		E	E	E	E		C5
06	ACK		ACK	ACK	ACK		86	46		F	F	F	F		C6
07		BEL	BEL	BEL		BEL	87	47	G		G	G	G		C7
08		BS	BS	BS		BS	88	48	H		H	H	H		C8
09	HT		HT	HT		HT	89	49		I	I	I	I		C9
0A	LF		LF	LF		LF	8A	4A		J	J	J	J		CA
0B		VT	VT	VT		VT	8B	4B	K		K	K	K		CB
0C	FF		FF	FF		FF	8C	4C		L	L	L	L		CC
0D		CR	CR	CR		CR	8D	4D	M		M	M	M		CD
0E		SO	SO	SO		SO	8E	4E	N		N	N	N		CE
0F	SI		SI	SI		SI	8F	4F		O	O	O	O		CF
10		DLE	DLE	DLE		DLE	90	50	P		P	P	P		D0
11	DC1		DC1	DC1		DC1	91	51		Q	Q	Q	Q		D1
12	DC2		DC2	DC2		DC2	92	52		R	R	R	R		D2
13		DC3	DC3	DC3		DC3	93	53	S		S	S	S		D3
14	DC4		DC4	DC4		DC4	94	54		T	T	T	T		D4
15		NAK	NAK	NAK		NAK	95	55	U		U	U	U		D5
16		SYN	SYN	SYN		SYN	96	56	V		V	V	V		D6
17	ETB		ETB	ETB		ETB	97	57		W	W	W	W		D7
18	CAN		CAN	CAN		CAN	98	58		X	X	X	X		D8
19		EM	EM	EM		EM	99	59		Y	Y	Y	Y		D9
1A		SUB	SUB	SUB		SUB	9A	5A	Z		Z	Z	Z		DA
1B	ESC		ESC	ESC		ESC	9B	5B		[	[	[	[		DB
1C		FS	FS	FS		FS	9C	5C		\	\	\	\		DC
1D	GS		GS	GS		GS	9D	5D		]	]	]	]		DD
1E	RS		RS	RS		RS	9E	5E		^	^	^	^		DE
1F		US	US	US		US	9F	5F		~	~	~	~		DF
20	!	SP	!	SP		!	A0	60		,	,	,	,		E0
21	"		"			"	A1	61		a	a	a	a		E1
22							A2	62		b	b	b	b		E2
23	#		#			#	A3	63		c	c	c	c		E3
24	\$		\$			\$	A4	64		d	d	d	d		E4
25		%	%			%	A5	65		e	e	e	e		E5
26		&	&			&	A6	66		f	f	f	f		E6
27		'	'			'	A7	67		g	g	g	g		E7
28	(		(			(	A8	68		h	h	h	h		E8
29	)		)			)	A9	69		i	i	i	i		E9
2A	*		*			*	AA	6A		j	j	j	j		EA
2B	+		+			+	AB	6B		k	k	k	k		EB
2C							AC	6C		l	l	l	l		EC
2D	-		-			-	AD	6D		m	m	m	m		ED
2E	.		.			.	AE	6E		n	n	n	n		EE
2F	/		/			/	AF	6F		o	o	o	o		EF
30	0		0			0	B0	70		p	p	p	p		F0
31	1		1			1	B1	71		q	q	q	q		F1
32	2		2			2	B2	72		r	r	r	r		F2
33	3		3			3	B3	73		s	s	s	s		F3
34	4		4			4	B4	74		t	t	t	t		F4
35	5		5			5	B5	75		u	u	u	u		F5
36	6		6			6	B6	76		v	v	v	v		F6
37	7		7			7	B7	77		w	w	w	w		F7
38	8		8			8	B8	78		x	x	x	x		F8
39	9		9			9	B9	79		y	y	y	y		F9
3A	:		:			:	BA	7A		z	z	z	z		FA
3B							BB	7B		{	{	{	{		FB
3C	<		<			<	BC	7C							FC
3D	=		=			=	BD	7D		~	~	~	~		FD
3E	>		>			>	BE	7E							FE
3F	?		?			?	BF	7F		DEL	DEL	DEL	DEL		FF

INSTALLATION CHECKOUT

CHART 1

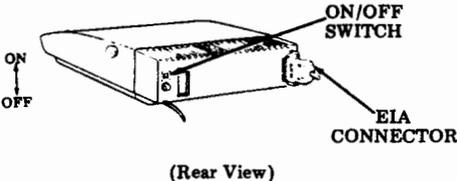
TEST	STEP	PROCEDURE	RESPONSE
Power On	1	Turn power switch OFF. Wait for one second and then turn the power switch ON.   <p>(Rear View)</p>	Print head is indexed to the left boundary.  Printer performs one (1) line feed TERM ON LINE and PRINT REC MSG keys light.
Keyboard Check	2	Depress TERM LOCAL key. (Must use 468a.)	TERM LOCAL key lights.
		Depress  key.	Lamp goes out.
		Type the following: "Teleprinter is basically operable".	Characters print correctly.
Customer Option Check	3	Depress and hold  key and spacebar down until the print head is fully to the right.	Bell rings continually.
		Depress  key 10 times.	Backspace 10 spaces.
		Hold  key depressed and depress  key.	Set left margin.
		Depress  key.	Lamp lights.
		Depress  key, several times.	Until bell rings.
		Depress  key.	Lamp lights and  goes out.
		Hold  key depressed and depress  key.	Options in edit buffer prints on printer and  lamp lights.
		Depress  key.	Option list (in hexadecimal values) prints out in a column of ten.

CHART 1 (Contd)

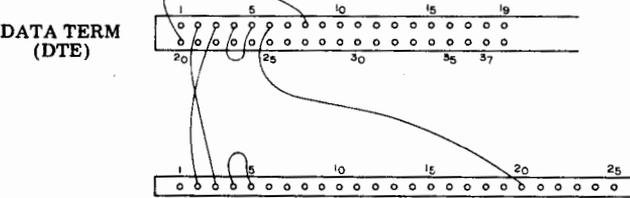
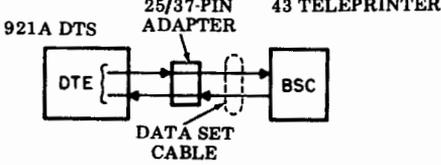
TEST	STEP	PROCEDURE	RESPONSE
Customer Option Check (Contd)	3 (Contd)	Compare the option list printed to customer desired option list.  <i>Note:</i> 38 IdleTm must be coded 00 00 (disabled) for the 921 or Test Center testing. If changed, recode after testing.	If required, correct option per Section 574-500-202.
		Depress and hold CTRL key and depress  key (Options Load).	Print head returns to left boundary, and line feeds on line.
		Depress  and  key until bell rings.	Bell rings.
		Depress  key.	Lamp goes out.
Using 921A Data Test Set (Version Four or Higher)	4	Arrange the 921A DTS interface wiring as follows:  (a) Open all DTE slide switches on left side, except 1, 7, 15 and 17 which should be closed.  (b) Insert EIA RS-449/232 C card module into the interface module port. All card switches should be toward the right (TERM).  (c) Wire the jumpers in the jack field as shown in Fig. 1.   <p style="text-align: center;">Fig. 1—Strap Connections</p> (d) Disconnect the controller cable from the data set and connect it to the 921A Data Term (DTE) connector using the 25-pin to 37-pin cable adapter provided with the 921A DTS. See Fig. 2.   <p style="text-align: center;">Fig. 2—921A — Cable Connections</p>	

CHART 1 (Contd)

TEST	STEP	PROCEDURE	RESPONSE
Using 921A Data Test Set (Contd)	4 (Contd)	(e) Turn power on.  <i>Note:</i> This section is written assuming (3) is optioned for EVEN PARITY. If other than even parity, see Table A for the correct values.	
		Depress RST and initialize the 921A DTS as shown in the flow chart on the right side of the inside cover of the test set or refer to Section 107-402-100, paragraph 4.01. Select a data set code and bit rate like those to be used by the station.  <i>Sample:</i> Depress RST; display reads "Data Set". Depress 25 GO; display reads "Bit Rate". Depress 12 (if 1200 baud) (must match (1)).	None
		If (15) LRC_Ck and (19) DelErr: NO, do Step 5, 5A and 5B YES, do Step 6, 6A, 6B and 6C  <i>Note:</i> If (16) BROStA and (15) LRC_Ck are YES, change (15) to NO and test per Step 5.	
Using 921A Data Test Set if (15) LRC_Ck and (19) DelErr is NO—  Receiving Test	5	Depress GO; display reads "TEST SEQ".	
		Depress 58 GO; display reads "CHANGE JACK FIELD IF LOCAL TEST" followed by "1 = PROGRAMMABLE 2 = STANDARD MSG".	
		Depress 1, display reads "SELECT 0001 TO 0255 CHARACTERS" followed by "???? CHARACTERS IN MESSAGE".	
		Depress 000* (the * indicates the total number of characters in the following message. In this case, add the character for (65) 1 character, (76) 1 to 4 characters and (69) 1 character); display reads "00:??".	
		Depress the even parity Hex value (see Table A) for (65) (76) (69) in that order. Display reads "A TO CONTINUE OR ← TO EDIT TRMT".	
		Depress A; display reads "SELECT 0000 TO 0020 TRAP CHARACTERS" followed by "???? TRAP CHARACTERS".	

CHART 1 (Contd)

TEST	STEP	PROCEDURE	RESPONSE
Receiving Test (Contd)	5 (Contd)	Depress 0000; display reads "NO TRAP CHARACTERS ARE ENTERED" followed by "PRESS A TO START".	
		Depress A.	LINE ACTIVE key lights Display reads P*_Rdy (Primary Receiver Ready NO Error Reply Sequence) in Hex; for example, with even parity ACK would be displayed as 06 (see Table A).
		Depress DD; display reads "1 = PROGRAMMABLE 2 = STANDARD MSG".	
		Depress 2; display reads "MSG NUMBER =?? (01-17)".	
		Depress 07; display reads "ENTER A TO CONTINUE OR ← TO EDIT TRMT".	
		Depress A; display reads "SELECT 0000 TO 0020 TRAP CHARACTERS" followed by "???? TRAP CHARACTERS".	
		Depress 0000; display reads "NO TRAP CHARACTERS ENTERED" followed by "PRESS A TO START".	
		Depress A.	LINE ACTIVE and REC MSG WTG lights.
Depress  key.	43 Prints: !"#\$%&'()*+,-./0123456789:;<=>? @ABCDEFGHIJKLMN0PQRSTUVWXYZ[\ ]_` ~abcdefghijklmnopqrstuvwxyz{ }~		
Using 921A Data Test Set if (15) LRC_Ck and (19) DelErr is NO and have an AUX Device  AUX Device Test	5A	Do this test only if an auxiliary device is used. Place auxiliary device in "ready to receive" mode.	
		Depress DD; display reads "1 = PROGRAMMABLE 2 = STANDARD MSG".	
		Depress 1; display reads "SELECT 0001 TO 0255 CHARACTERS" followed by "???? CHARACTERS IN MESSAGE".	
		Depress 000* (* = (65) RRDsl1, plus the number of characters in (77), AAddr1, plus (69) Start 1; display reads "00:??".	
		Depress the even parity Hex value for (65) and (77) in that order. Display reads "A TO CONTINUE OR ← TO EDIT TRMT".	

CHART 1 (Contd)

TEST	STEP	PROCEDURE	RESPONSE
AUX Device Test (Contd)	5A (Contd)	Depress A; display reads "SELECT 0000 TO 0020 TRAP CHARACTERS" followed by "???? TRAP CHARACTERS".	
		Depress 0000; display reads "NO TRAP CHARACTERS ARE ENTERED" followed by "PRESS A TO START".	
		Depress A.	LINE ACTIVE key lights, display reads (85), A*_Rdy (Auxiliary Receiver Ready No Error Reply Sequence).
		Depress DD; display reads "1 = PROGRAMMABLE 2 = STANDARD MSG".	
		Depress 2; display reads "MSG NUMBER = ?? (01-17)", depress 07, display reads "ENTER A TO CONTINUE OR ← TO EDIT TRMT."	
		Depress A; display reads "SELECT 0000 TO 0020 TRAP CHARACTERS" followed by "???? TRAP CHARACTERS".	
		Depress 0000; display reads "NO TRAP CHARACTERS ENTERED" followed by "PRESS A TO START".  Depress A.	AUX device prints: 1"#\$%&'()*+,-./0123456789:;<=>? @ABCDEFGHIJKLMNOQRSTUVWXYZ[\ ]_` ~abcdefghijklmnopqrstuvwxyz{ }~
Using 921A Data Test Set if (15) LRC_Ck, (19) DelErr, and (16) BROStA are all NO  Polling Test	5B	Depress  key.	BUFFER ENTER key lights and PRINT REC MSG key goes out. Print head is returned to left boundary and paper feeds one line.
		Keyboard the following: AABBCC (62).	43 prints AABBCC.
		Depress  key.	SND RDY key lights, print head is returned to the left boundary and paper feeds one line.
		Depress  and  keys.	BUFFER ENTER goes out.
Depress DD; display reads "1 = PROGRAMMABLE 2 = STANDARD MSG".			

CHART 1 (Contd)

TEST	STEP	PROCEDURE	RESPONSE
Polling Test (Contd)	5B (Contd)	Depress 1; display reads "SELECT 0001 TO 0255 CHARACTERS" followed by "???? CHARACTERS IN MESSAGE".	
		Depress 000* (* = (65) plus the number of characters in (59) Poll # 1); display reads "00:??".	
		Depress the even parity Hex value for (65) and (59) in that order; display reads "A TO CONTINUE OR < - TO EDIT TRMT".	
		Depress A; display reads "SELECT 0000 TO 0020 TRAP CHARACTERS" followed by "???? TRAP CHARACTERS".	
		Depress 0000; display reads "NO TRAP CHARACTERS ARE ENTERED" followed by "PRESS A TO START".	
		Depress A.	Display reads 00:41 41 42 42 C3 C3 (62). LINE ACTIVE lights.
		This completes the test of the 43 BSC Teleprinter if Step 5 operated properly. Recode any options that were changed for testing. Disconnect the test set, connect the teleprinter to its data set and tell the customer it is ready for his system test.	
Using 921A Data Test Set if (15) LRC_Ck is YES, and (16) BROSta is NO  Polling Test	6	Depress  key.	BUFFER ENTER key lights and PRINT REC MSG key goes out. Print head is returned to left boundary and paper feeds one line.
		Keyboard the following: AABBC (71)	43 prints AABBC.
		Depress  key.	SND RDY key lights, print head is returned to the left boundary and paper feeds one line.
		Depress  and  keys.	BUFFER ENTER goes out. COPY SEND DATA and PRINT REC MSG light.
		Depress DD; display reads "1 = PROGRAMMABLE 2 = STANDARD MSG".	
		Depress 1; display reads "SELECT 0001 TO 0255 CHARACTERS" followed by "???? CHARACTERS IN MESSAGE".	

CHART 1 (Contd)

TEST	STEP	PROCEDURE	RESPONSE
Polling Test (Contd)	6 (Contd)	Depress 000* (the * indicates the total number of characters in the following message. The * = (65) 1 character and (59) 1 to 4 characters); display reads "00:??".	
		Depress the even parity Hex value (see Table A) for (65) and (59) in that order; display reads "A TO CONTINUE OR ← TO EDIT TRMT".	
		Depress A; display reads "SELECT 0000 TO 0020 TRAP CHARACTERS" followed by "???? TRAP CHARACTERS".	
		Depress 0000; display reads "NO TRAP CHARACTERS ARE ENTERED" followed by "PRESS A TO START".	
		Depress A.	Display reads 00:41 41 42 42 C3 C3 (7) (8). SND RDY flashes and LINE ACTIVE lights. (8) is the BLOCK CHECK character. Record this character for later use.
		Depress DD; display reads "1 = PROGRAMMABLE 2 = STANDARD MSG".	
		Depress 1; display reads "SELECT 0001 TO 0255 CHARACTERS" followed by "???? CHARACTERS IN MESSAGE".	
		Depress 0001; display reads "00:??".	
		Depress the even parity Hex value for (64); display reads "A TO CONTINUE OR ← TO EDIT TRMT".	
		Depress A; display reads "SELECT 0000 TO 0020 TRAP CHARACTERS" followed by "???? TRAP CHARACTERS".	
Depress 0000; display reads "NO TRAP CHARACTERS ARE ENTERED" followed by "PRESS A TO START".			
	Depress A.	43 prints AABBC, SND RDY goes out.	
Using 921A Data Test Set if (15) LRC_Ck is YES  Receiving Test	6A	Depress DD; display reads "1 = PROGRAMMABLE 2 = STANDARD MSG".	
		Depress 1; display reads "SELECT 0001 TO 0255 CHARACTERS" followed by "???? CHARACTERS IN MESSAGE".	

CHART 1 (Contd)

TEST	STEP	PROCEDURE	RESPONSE
Receiving Test (Contd)	6A (Contd)	Depress 00** (** = (65) (1 character), (76) (1 to 4 characters), (69) (1 character), 6 character message (AABBCC), (73) (1 character) and 1 LRC character); display reads "00:??".	
		Depress the even parity Hex value for the following: (65) (76) (69), 41 41 42 42 C3 C3, (73) and (6C) BLOCK CHECK character recorded above. (This (6C) character is correct as long as (71) SSInt1 is the same as (73) RRInt __.)	
		Display reads "ENTER A TO CONTINUE OR ← TO EDIT TRMT"	
		Depress A; display reads "SELECT 0000 TO 0020 TRAP CHARACTERS" followed by "???? TRAP CHARACTERS".	
		Depress 0000; display reads "NO TRAP CHARACTERS ENTERED" followed by "PRESS A TO START".	
		Depress A.	43 prints AABBCC, display reads (64) (P*_ Rdy) twice.
Using 921A Data Test Set if (15) LRC_Ck is YES and have an AUX Device  Aux Device Test	6B	Do this test only if an auxiliary device is used. Place auxiliary device in ready to receive mode.	
		Depress DD; display reads "1 = PROGRAMMABLE 2 = STANDARD MSG".	
		Depress 1; display reads "SELECT 0001 TO 0255 CHARACTERS" followed by "???? CHARACTERS IN MESSAGE".	
		Depress 00** (** = (65) (1 character), (77) (1 to 4 characters), (69) (1 character), 6 character message (AABBCC), (73) (1 character) and 1 LRC character). Display reads "00:??".	
		Depress the even parity Hex value for the following: (65) (77) (69) 41 41 42 42 C3 C3 (73) and (15) LRC character recorded above. (This LRC character is correct as long as (71) SSInt1 = (73) RRInt __.) Display reads "ENTER A TO CONTINUE OR ← TO EDIT TRMT".	

CHART 1 (Contd)

TEST	STEP	PROCEDURE	RESPONSE
AUX Device Test (Contd)	6B (Contd)	Depress A; display reads "SELECT 0000 TO 0020 TRAP CHARACTERS" followed by "???? TRAP CHARACTERS".	
		Depress 0000; display reads "NO TRAP CHARACTERS ENTERED" followed by "PRESS A TO START".	
		Depress A.	AUX device prints: AABBC, display reads <sup>(65)</sup> twice.
Using 921A Data Test Set if <sup>(15)</sup> LRC_Ck is YES  Disconnect Test	6C	Depress DD; display reads "1 = PROGRAMM- ABLE 2 = STANDARD MSG".	
		Depress 1; display reads "SELECT 0001 TO 0255 CHARACTERS" followed by "???? CHARACTERS IN MESSAGE".	
		Depress 0001; display reads "00:??".	
		Depress the even parity Hex value for <sup>(65)</sup> ; display reads "A TO CONTINUE OR ← TO EDIT TRMT".	
		Depress A; display reads "SELECT 0000 TO 0020 TRAP CHARACTERS" followed by "???? TRAP CHARACTERS".	
		Depress 0000; display reads "NO TRAP CHARACTERS ARE ENTERED" followed by "PRESS A TO START".	
		Depress A.	LINE ACTIVE lights. Set is deselected.
		This completes the test of the 43 BSC Teleprinter if Step 6 operated properly. Recode any options that were changed for testing. Disconnect the test set, connect the teleprinter to its data set and tell the customer it is ready for the system test.	
Using Data Test Center	7	Do the following installation checkout with the teleprinter accessed to the switched network or channeled through a central office to a Data Test Center. Use a DDD phone for verbal communication with the Test Center while doing this checkout.	
		If Option 15, LRC_Ck is: NO, do Step 8, 8A, 8B and 8C. YES, do Step 9, 9A, 9B and 9C.	

CHART 1 (Contd)

TEST	STEP	PROCEDURE	RESPONSE																						
Using Data Test Center (Contd)	7 (Contd)	<p>Tell the Test Center the following options in ASCII (American National Standard Code for Information Interchange) or English (not Hex):</p> <table border="0"> <tr> <td>① LinSpd ---- baud</td> <td>⑥⑨ Start1 ----</td> </tr> <tr> <td>② AuxSpd ---- baud</td> <td>⑦① SSInt1 ----</td> </tr> <tr> <td>③ Parity ---- Must be 43 (even)</td> <td>⑦③ RRInt ----</td> </tr> <tr> <td>④ Trans ---- Asych/Isych</td> <td>⑦④ RSInt ----</td> </tr> <tr> <td>⑮ LRC_CK Y/N</td> <td>⑦⑥ PAddr1 ----</td> </tr> <tr> <td>⑮ DelErr Y/N</td> <td>⑦⑦ AAddr1 ----</td> </tr> <tr> <td>③⑧ IdleTm Must be 00 00</td> <td>⑧④ P* _ Rdy ----</td> </tr> <tr> <td>⑤⑨ Poll #1 ----</td> <td>⑧⑤ A* _ Rdy ----</td> </tr> <tr> <td>⑥② SSDsl1 ----</td> <td></td> </tr> <tr> <td>⑥④ RSDsl1 ----</td> <td></td> </tr> <tr> <td>⑥⑤ RRDsl1 ----</td> <td></td> </tr> </table> <p><b>Note:</b> Change ③ and ③⑧ if not <u>even</u> parity and <u>no</u> time out.</p> <p>Call Data Test Center and request a manual 43 Teleprinter test. <b>Note:</b> This test is not available on ADTS.</p> <p>Provide Test Center with phone number of station.</p> <p>Agree that Test Center will call set and if disconnected will call back.</p>	① LinSpd ---- baud	⑥⑨ Start1 ----	② AuxSpd ---- baud	⑦① SSInt1 ----	③ Parity ---- Must be 43 (even)	⑦③ RRInt ----	④ Trans ---- Asych/Isych	⑦④ RSInt ----	⑮ LRC_CK Y/N	⑦⑥ PAddr1 ----	⑮ DelErr Y/N	⑦⑦ AAddr1 ----	③⑧ IdleTm Must be 00 00	⑧④ P* _ Rdy ----	⑤⑨ Poll #1 ----	⑧⑤ A* _ Rdy ----	⑥② SSDsl1 ----		⑥④ RSDsl1 ----		⑥⑤ RRDsl1 ----		
① LinSpd ---- baud	⑥⑨ Start1 ----																								
② AuxSpd ---- baud	⑦① SSInt1 ----																								
③ Parity ---- Must be 43 (even)	⑦③ RRInt ----																								
④ Trans ---- Asych/Isych	⑦④ RSInt ----																								
⑮ LRC_CK Y/N	⑦⑥ PAddr1 ----																								
⑮ DelErr Y/N	⑦⑦ AAddr1 ----																								
③⑧ IdleTm Must be 00 00	⑧④ P* _ Rdy ----																								
⑤⑨ Poll #1 ----	⑧⑤ A* _ Rdy ----																								
⑥② SSDsl1 ----																									
⑥④ RSDsl1 ----																									
⑥⑤ RRDsl1 ----																									
Using Data Test Center if ⑮ LRC_Ck is NO Polling Test	8	<p>Depress  key.</p> <hr/> <p>Keyboard the following: AABBC⑥②.</p> <p>Depress  key.</p> <hr/> <p>Depress  and  keys.</p> <hr/> <p>Test Center should call teleprinter. Both data sets should be placed in data mode.</p> <hr/> <p>Test Center sends: ⑥⑤ ⑤⑨.</p>	<p>BUFFER ENTER key lights and PRINT REC MSG key goes out. Print head is returned to left boundary and paper feeds one line.</p> <hr/> <p>43 prints: AABBC⑥②.</p> <hr/> <p>SND RDY key lights, print head is returned to the left boundary and paper feeds one line.</p> <hr/> <p>BUFFER ENTER goes out. COPY SEND DATA and PRINT REC MSG lights.</p> <hr/> <p>43 prints: AABBC⑥②. Test Center receives AABBC⑥②.</p>																						

CHART 1 (Contd)

TEST	STEP	PROCEDURE	RESPONSE
Using Data Test Center if (15) LRC_Ck is NO  Receiving Test	8A	Test Center sends: (65) (76) .	Test Center receives (64) .
		Test Center sends : (69) ASCII test message (65) .	43 prints:  !"#\$%&'()*+,-./0123456789;:<=>? !"#\$%&'()*+,-./0123456789;:<=>? @ABCDEFGHIJKLMNopqrstuvwxyz[\]^_` @ABCDEFGHIJKLMNopqrstuvwxyz[\]^_` `abcdefghijklmnopqrstuvwxyz{ }~" `abcdefghijklmnopqrstuvwxyz{ }~"
Using Data Test Center if (15) LRC_Ck is NO and have AUX Device  AUX Device Test	8B	Do this test only if an auxiliary device is used. Place the auxiliary device in the ready to receive mode.	
		Test Center sends: (65) (77) .	Test Center receives: (65) .
		Test Center sends:(69)ASCII test message (65) .	AUX device prints:  !"#\$%&'()*+,-./0123456789;:<=>? !"#\$%&'()*+,-./0123456789;:<=>? @ABCDEFGHIJKLMNopqrstuvwxyz[\]^_` @ABCDEFGHIJKLMNopqrstuvwxyz[\]^_` `abcdefghijklmnopqrstuvwxyz{ }~" `abcdefghijklmnopqrstuvwxyz{ }~"
Using Data Test Center if (15) LRC_Ck is NO  End of Test	8C	This completes the test of the 43 BSC. Check on the voice line with the Test Center to see if everything was OK at there end. If OK, disconnect the data and voice lines. Change back (3) and (38) if changed. Tell the customer the teleprinter is ready for the system test.	
Using Data Test Center if (15) LRC_Ck is YES  Polling Test	9	Depress  key.	BUFFER ENTER key lights and PRINT REC MSG key goes out. Print head is returned to left boundary and paper feeds one line.
		Keyboard the following: AABBCC (71) .	43 prints: AABBCC.
		Depress  key.	SND RDY key lights, print head is returned to the left boundary and paper feeds one line.

CHART 1 (Contd)

TEST	STEP	PROCEDURE	RESPONSE
Polling Test (Contd)	9 (Contd)	Depress  and  keys.	BUFFER ENTER goes out. COPY SEND DATA and PRINT REC MSG lights.
		Test Center should call teleprinter. Both data sets should be placed in data mode.	
		Test Center sends: (65) (59) .	SND RDY flashes. LINE ACTIVE lights. Test Center receives AABBC (71) (69) . (6C) is the BLOCK CHECK character. Record this character for later use.
		Test Center sends: (64) .	43 prints: AABCC SND RDY goes out.
Using Data Test Center if (15) LRC_Ck is YES  Receiving Test	9A	Test Center sends: (65) (76) .	Test Center displays: (84) .
		Test Center sends: (69) AABCC (73) (6C) .	Test Center display: (84) 43 prints AABCC.
		Test Center sends: (65) .	43 is deselected.
Using Data Test Center if (15) LRC_Ck is YES and have an AUX Device  AUX Device Test	9B	Do this test only if an auxiliary device is used. Place the auxiliary device in the ready to receive mode.	PRINT REC MSG key lights.
		Test Center sends: (65) (77) .	Test Center displays: (85) .
		Test Center sends: (69) AABCC (73) (6C) .	Test Center displays: (85) AUX PRINTS: AABCC.
		Test Center sends: (65) .	43 is deselected.
Using Data Test Center if (15) LRC_Ck is YES  End of Test	9C	This completes the test of the 43 BSC. Check on the voice line with the Test Center to see if everything was OK at there end. If satisfactory, disconnect the data and voice line. Change back (3) and (38) if changed. Tell the customer the teleprinter is ready for the system test.	

LOCAL TESTING

CHART 2

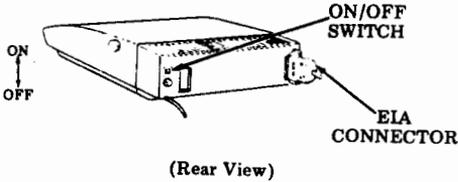
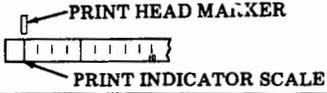
TEST	STEP	PROCEDURE	RESPONSE
Power On	1	Turn power switch OFF. Wait for one second and then turn the power switch ON.	Print head is indexed to the left boundary.
		 <p>(Rear View)</p>	Printer performs one (1) line feed TERM ON LINE and PRINT REC MSG keys light.  (TERM ON LINE will flash if no Data Set Ready signal.)
Indicator Scale	2		Print head marker points to first mark on indicator scale or (28).
Local Return Line Feed	3	Depress TERM LOCAL key. (Must use 468a.)	TERM LOCAL key lights.
		Depress  key.	Lamp goes out.
		Hold CTRL key depressed and depress RETURN key.	Print head is returned to left boundary and paper feeds to next line. If using 02 feature group card and (39) not zero, paper feeds (38) lines.
Caps Lock Upper Case	4	Place CAPS LOCK key in latched down position. Starting with top row and moving from left to right, depress unshaded keys in Fig. 3.	Characters are printed as in Fig. 4.



Fig. 3

1234567890-+`qwertyuiop=\asdfghjkl;`{zxcvbnm,./

Fig. 4

1234567890-+`qwertyuiop=\asdfghjkl;`{zxcvbnm,./

Fig. 5

CHART 2 (Contd)

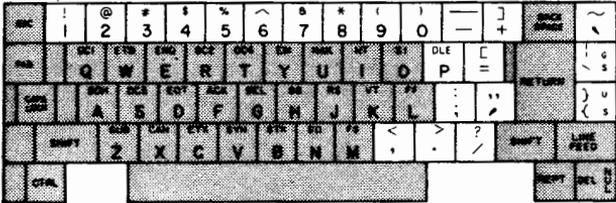
TEST	STEP	PROCEDURE	RESPONSE
Caps Lock Lower Case	5	Depress RETURN and then LINE FEED key.	Does (41) .
		Depress LINE FEED key.	Does (22) , (23) and (42) .
		Depress and release CAPS LOCK key so it returns to the up position. Starting with top row and moving left to right, depress each unshaded key in Fig. 3.	Characters are printed as in Fig. 5.
Shift Key	6	Depress RETURN and then LINE FEED key. (Assumes (41) is CR, (22) is NO, (23) is NO and (42) is LF) for the rest of the test.)	Print head is returned to left boundary and paper feeds to next line.
		Hold left SHIFT key depressed and starting with top row and moving from left to right, depress each unshaded key in Fig. 6. Hold right SHIFT key depressed and depress  key.	Characters are printed as in Fig. 7.
			
<p>Fig. 6</p> <p>!@#%&amp;'*()_ ] " P [ : ; ' &lt; &gt; ?</p> <p>Fig. 7</p>			
Control Characters	7	Depress RETURN and then LINE FEED key.	Print head is returned to left boundary and paper feeds to next line.
		Hold CTRL key depressed and depress  key.	SUB prints ■
		Hold CTRL key depressed and depress  key.	Signal bell rings.
		Hold CTRL key depressed and depress  key.	Print head moves one character position to the left.

CHART 2 (Contd)

TEST	STEP	PROCEDURE	RESPONSE		
Space Bar	8	Depress SPACE BAR.	Print head moves one character position to the right.		
Back Space	9	Depress BACK SPACE key.	Print head moves one character position to the left.		
Rept Key	10	Depress CAPS LOCK key then depress and hold REPT and <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>VT</td></tr><tr><td>K</td></tr></table> keys.	VT	K	The K is continuously printed until the end of line is reached. Signal bell rings at end of line.
VT					
K					
Form Feed Vert Tab Set and Clear	11	Depress and hold CTRL key and depress <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>FF</td></tr><tr><td>L</td></tr></table> key. (Form Feed) ( <sup>39</sup> must be coded for form feed to operate.)	FF	L	Paper feeds one or more lines and print head returns to left boundary.
		FF			
		L			
		Depress CTRL and <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>FF</td></tr><tr><td>L</td></tr></table> keys again.	FF	L	Paper should not feed.
		FF			
		L			
		Depress <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>SOH</td></tr><tr><td>A</td></tr></table> key. (A)	SOH	A	Character A prints.
		SOH			
A					
Depress and hold CTRL key and depress <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>FF</td></tr><tr><td>L</td></tr></table> key. (Form Feed).	FF	L	Paper feeds <sup>39</sup> lines down from character A.		
FF					
L					
Depress <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>STX</td></tr><tr><td>B</td></tr></table> key. (B)	STX	B	Character B prints.		
STX					
B					
Depress and hold CTRL key and depress <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>VT</td></tr><tr><td>K</td></tr></table> key. (Vert. Tab) ( <sup>21</sup> must be yes, or no tabbing will occur.	VT	K	Paper feeds <sup>99</sup> lines from character B.		
VT					
K					
Depress and hold CTRL key and depress <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>^</td></tr><tr><td>6</td></tr></table> key. (Vert. Tab Clear)	^	6	No response.		
^					
6					
Depress and hold CTRL key and depress <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>FF</td></tr><tr><td>L</td></tr></table> key. (Form Feed)	FF	L	Paper feeds <sup>39</sup> lines to next form stop.		
FF					
L					
Horiz. Tab Set and Clear	12	Depress RETURN key.	Print head is returned to left boundary.		
		Depress <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>TAB</td></tr></table> key. (Horiz. Tab)	TAB	Print head spaces to column <sup>98</sup> .	
TAB					

CHART 2 (Contd)

TEST	STEP	PROCEDURE	RESPONSE
Horiz. Tab Set and Clear (Contd)	12 (Contd)	Depress and hold CTRL key and depress  key. (Horiz. Tab Clear)	No response.
		Depress RETURN key.	Print head is returned to the left boundary.
		Depress  key. (Tab)	Print head spaces to the right boundary, returns to the left boundary and paper advances one line.
		Space the Print head to column 10.	Print head spaces to column 10.
		Depress and hold CTRL key and depress  key. (Horiz. Tab Set)	No response.
		Depress RETURN key.	Print head is returned to the left boundary.
		Depress  key.	Print head spaces to column 10.
		Depress  key.	Print head space to the right boundary, returns to the left boundary and paper advances one line.
Restore Preset Tabs	13	Depress and hold CTRL key and depress  key. (Restore Preset Tabs)	No response.
		Depress  key. (Horiz. Tab)	Print head spaces to column  .
Margins Set Release Clear	14	Space the print head 10 columns.	Print head spaces 10 columns.
		Hold the CTRL key depressed and depress the  key. (Set Left Margin)	No response.
		Space the print head 10 columns.	Print head spaces 10 columns.

CHART 2 (Contd)

TEST	STEP	PROCEDURE	RESPONSE
Margins Set Release Clear (Contd)	14 (Contd)	Hold the CTRL key depressed and depress the  key. (Set Right Margin)	No response.
		Depress the RETURN key.	Print head returns to left boundary plus 10 columns.
		Space the print head 10 columns.	Print head spaces 10 columns.
		Depress the  key. (A)	The character A prints and the print head spaces to next column.
		Depress the  key. (B)	Bell rings, B does not print.
		Hold the CTRL key depressed and depress the  key. (Release Right Margin)	No response.
		Depress  key three times.	Character C prints three times.
		Hold the CTRL key depressed and depress the  key. (Margin Clear)	Print head returns to the left boundary: (28) .
Numeric Pad Mode	15	Depress  key.	NUM PAD key lights.
		Starting with top row and moving from right to left depress the keys shown in Fig. 8 (Page 21).	Characters are printed as in Fig. 9 (Page 21). Print head returns to left boundary.
		Depress  key.	NUM PAD key goes out.

CHART 2 (Contd)

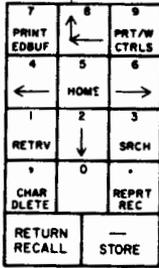
TEST	STEP	PROCEDURE	RESPONSE
<p>Numeric Pad Mode (Contd)</p>	<p>15 (Contd)</p>	 <p>Fig. 8 987654321.0,- Fig. 9</p>	
<p>Buffer Character Insert</p>	<p>16</p>	<p>Depress  key.</p> <p>Depress  then  keys. (A &amp; C)</p> <p>Depress  key once. (Buffer Backspace)</p> <p>Depress  key.</p> <p>Depress  key. (B)</p> <p>Depress  key.</p> <p>Depress  key. (Buffer Home)</p> <p>Depress  key. (Print Edit Buffer)</p>	<p>BUFFER ENTER key lights.</p> <p>A C Prints.</p> <p>Print head backspaces once.</p> <p>INSERT key lights.</p> <p>B prints over C.</p> <p>INSERT key goes out.</p> <p>Print head returns to left boundary, paper feeds one line.</p> <p>ABC prints.</p>
<p>Buffer Character Delete</p>	<p>17</p>	<p>Depress  key. (Prev. Line)</p> <p>Manually advance paper one line (turn platen knob).</p> <p>Depress  key. (Buffer Space)</p>	<p>Print head moves to left boundary.</p> <p>A prints.</p>

CHART 2 (Contd)

TEST	STEP	PROCEDURE	RESPONSE
Buffer Character Delete (Contd)	17 (Contd)	Depress  key. (Character Delete)	■ prints.
		Depress  then  keys.	AC prints.
Clear Buffer	18	Depress  ,  then  keys.	Bell rings when  key is depressed.
Buffer Print With Control Characters	19	Type ABC Return, Line Feed, DEF.	ABC DEF is printed.
		Depress  then  keys.	ABC ← ≡ DEF is printed.
Buffer Next Line Control	20	Depress  then  keys. (Buffer Next Line)	Print head returns to left boundary, paper feeds two lines.
		Depress  key.	DEF is printed.
Message Store and Recall	21	Depress  key. (Store)	 key lights. Print head is returned to left boundary and paper feeds one line.
		Depress  key. (Recall)	 key goes out. Paper feeds one line.
		Depress  key.	ABC DEF is printed.
Buffer String Enter and Search	22	Depress  key.	Print head is returned to left boundary and paper feeds one line.
		Depress  key.	STRING ENTER key lights. Paper feeds one line.
		Depress  key. (E)	E prints.
		Depress  key. (Search)	DE is printed. STRING ENTER key goes out.

CHART 2 (Contd)

TEST	STEP	PROCEDURE	RESPONSE
Buffer Line Delete	23	Depress  then  keys. (Buffer Next Line)	Print head returns to left boundary, paper feeds two lines.
		Depress  key.	DEF is printed.
Message Generator Test	24	Depress and hold  key and depress  key. (Here Is)	Prints (97) .
Alarm Conditions	25	Open the teleprinter cover.	ALARM key lights.
		Close cover. Depress  key on some sets.	ALARM key goes out.
		Remove paper from the teleprinter.	ALARM key lights and bell rings.
		Replace paper and depress  key. On friction feed teleprinters it may be necessary to depress the reset button before depressing the ALARM key.	ALARM key goes out.

CHART 3 (Contd)

STEP	ACTION REQUIRED AT TEST CENTER	RESPONSE AT TEST CENTER	ACTION REQUIRED AT STATION (UUT)	RESPONSE AT STATION (UUT)
1	Prepares message.	None	None	None
2	None	None	Power down terminal for 10 seconds then power terminal back up.	Print head indexes to left boundary and performs one line feed. TERM ON LINE and PRINT REC MSG keys light.
3	None	None	Depress and hold CTRL key and depress  key.	Print head indexes to left boundary and performs one line feed.  OPTIONS (Is Printed) IN EDIT BUFFER
4	None	None	Depress  key then  key.	BUFFER ENTER key lights and PRINT REC MSG light goes out. SND RDY key lights and BUFFER ENTER light goes out.
5	Establishes data communications with craftperson and terminal. Requests options (65) and (59).			
6	Sends (65) and (59).	Compares options sent with options received for errors (wrong options).	None	SND RDY key flashes (sends set options to Test Center).

CHART 3 (Contd)

STEP	ACTION REQUIRED AT TEST CENTER	RESPONSE AT TEST CENTER	ACTION REQUIRED AT STATION (UUT)	RESPONSE AT STATION (UUT)
7	Sends (65).	None	None	SND RDY light goes out, set is deselected.
8	None	None	Power down terminal for ten seconds then power terminal back up.	Print head indexes to left boundary and performs one line feed. TERM ON LINE and PRINT REC MSG keys light.
9	None	None	Depress and hold CTRL key and depress  key.	Print head indexes to left boundary and performs one line feed.  Options (Is Printed) In Edit Buffer  BUFFER ENTER key lights and PRINT REC MSG light goes out.
10	None	None	Confirm and change if necessary: (1) = 1584 (1200 Baud) (15) to 6E (No LRC_Ck) and (17) to 79 (Receives Everything).  Depress and hold CNTL key and depress  key.	Print head indexes to left boundary and performs one line feed.

CHART 3 (Contd)

STEP	ACTION REQUIRED AT TEST CENTER	RESPONSE AT TEST CENTER	ACTION REQUIRED AT STATION (UUT)	RESPONSE AT STATION (UUT)
11	None	None	Depress   key and  key several times (until bell rings).	Print head indexes to left boundary and performs one line feed. Bell rings when buffer is empty.
12	None	None	Depress  key.	BUFFER ENTER light goes out.
13	Sends all options (7 separate 1-line messages).	None	None	LINE ACTIVE key lights each time a line is received. REC MSG WTG key lights.
14	None	None	Depress  key.	BUFFER ENTER key lights, print head indexes to left boundary and performs one line feed.
15	None	None	Depress  key.	STRING ENTER key lights, print head indexes to left boundary and performs one line feed.
16	None	None	Type 1584. Depress  key.	1584 prints. Print head indexes to left boundary and performs one line feed.
17	None	None	Depress and hold  key and depress  key.	Print head indexes to left boundary and performs one line feed.

CHART 3 (Contd)

STEP	ACTION REQUIRED AT TEST CENTER	RESPONSE AT TEST CENTER	ACTION REQUIRED AT STATION (UUT)	RESPONSE AT STATION (UUT)
18	None	None	Depress  key and  key several times (until bell rings). Depress BUFFER ENTER key.	Print head indexes to left boundary and performs one line feed. Bell rings when buffer is empty.  BUFFER ENTER light goes out.
19	Sends (76) Primary Address 1.	Test set receives and displays a "T" (84) .	None	LINE ACTIVE key lights.
20	Sends (77) Auxiliary Address 1.	Test set receives and display a "U" (86) .	None	LINE ACTIVE key lights.
21	None	None	Depress  key.	PRINT REC MSG light goes out.

CHART 3 (Contd)

STEP	ACTION REQUIRED AT TEST CENTER	RESPONSE AT TEST CENTER	ACTION REQUIRED AT STATION (UUT)	RESPONSE AT STATION (UUT)
22	Sends (76) .	Test set receives and displays a "T" (84) .	None	LINE ACTIVE key lights.
23	Sends ABC message.	Test set receives and displays a "T" (84) .	None	LINE ACTIVE key lights. REC MSG WTG key lights.
24	Sends (76) .	Test set receives and displays a "V" (86) .	None	LINE ACTIVE key lights.
25	None	None	Depress:  key.	PRINT REC MSG key lights and AABCC prints. REC MSG WTG light goes out.
26	None	None	Depress:  key.	PRINT REC MSG light goes out.
27	Sends (76) .	Test set receives and displays a "T" (84) .	None	LINE ACTIVE key lights.

CHART 3 (Contd)

STEP	ACTION REQUIRED AT TEST CENTER	RESPONSE AT TEST CENTER	ACTION REQUIRED AT STATION (UUT)	RESPONSE AT STATION (UUT)
28	Sends (69) Start Character and 15 lines of "FOX" followed by E <sub>x</sub> g.	Test set receives and displays a "Z" (90) .	None	LINE ACTIVE key lights. REC MSG WTG key flashes.
29	Sends (59) Station Poll.	Test set receives and displays "N <sub>K</sub> N <sub>K</sub> " (61) .	None	LINE ACTIVE key lights. REC MSG WTG key continues to flash.
30	None	None	Depress  key.	PRINT REC MSG key lights and 15 lines of FOX message prints. REC MSG WTG stops flashing as buffer empties and goes out after message has printed.
31	None	None	Depress  key again after printing stops.	PRINT REC MSG light goes out.
32	Sends (76) .	Test set receives and displays a "T" (84) .	None	LINE ACTIVE key lights.

CHART 3 (Contd)

STEP	ACTION REQUIRED AT TEST CENTER	RESPONSE AT TEST CENTER	ACTION REQUIRED AT STATION (UUT)	RESPONSE AT STATION (UUT)
33	Sends (88) and 15 lines of "FOX" followed by E <sub>x</sub> E <sub>x</sub> (wrong (89)).	Test set receives and displays a "\ " (92).	None	LINE ACTIVE key lights.
<i>Note:</i> Perform steps 34 through 39 only if auxiliary device is present.				
34	Sends (77) Auxiliary Address 1.	Test set receives and displays a "U" (85).	None	LINE ACTIVE key lights.
35	Sends ABC message.	Test set receives and displays a "U" (85).	None	LINE ACTIVE key lights. AUX device prints AABBC.
36	Sends (77).	Test set receives and displays a "U" (85).	None	LINE ACTIVE key lights.
37	Sends ABC message with wrong (89).	Test set receives and displays a "J" (93).	None	LINE ACTIVE key lights.

CHART 3 (Contd)

STEP	ACTION REQUIRED AT TEST CENTER	RESPONSE AT TEST CENTER	ACTION REQUIRED AT STATION (UUT)	RESPONSE AT STATION (UUT)
38	Sends (77).	Test set receives and displays a "U" (86).	None	LINE ACTIVE key lights.
39	Sends (89) and 15 lines of "FOX" followed by E <sub>x</sub> g.  While AUX device is printing, Test Center sends (77).	Test set receives and displays a "[ " (91).  Test set receives and displays a "W" (87).	None  None	LINE ACTIVE key lights. AUX device prints 15 lines of FOX message.  AUX device continues to print out.
40	Sends (59) Station Poll.	Test set receives and displays "AKAK" (80).	None	None
41	None	None	Depress  key. Type AABBC E <sub>x</sub> . Depress  key.	BUFFER ENTER key lights. AABBC is printed. SND RDY key lights.

CHART 3 (Contd)

STEP	ACTION REQUIRED AT TEST CENTER	RESPONSE AT TEST CENTER	ACTION REQUIRED AT STATION (UUT)	RESPONSE AT STATION (UUT)
42	None	None	Depress  and  keys.	BUFFER ENTER key goes out. PRINT REC MSG and COPY SEND DATA keys light.
43	Sends (59).	Test set receives and displays "AABBCC E <sub>x</sub> E <sub>x</sub> ".	None	LINE ACTIVE key lights. SND RDY key flashes.
44	Sends R <sub>g</sub> character.	Test set receives and displays "AABBCC E <sub>x</sub> E <sub>x</sub> ".	None	LINE ACTIVE key lights. SND RDY key continues to flash.
45	Sends Deselect character (EOT).	Test set receives and displays a "T" (84).	None	LINE ACTIVE key lights. SND RDY key goes out. AABBCC is printed.
<p><b>Note:</b> This is the end of the ON-LINE TESTING. If the customer options were available and are stored in the third field, do the following steps. If the customer options are not available at the Test Center, reoption the set locally. The set is now ready to be tested in the customer's system.</p>				
46			Change (17) to Hex 79. After option is changed, depress and hold  key and depress  key.	Print head indexes to left boundary and performs one line feed.

CHART 3 (Contd)

STEP	ACTION REQUIRED AT TEST CENTER	RESPONSE AT TEST CENTER	ACTION REQUIRED AT STATION (UUT)	RESPONSE AT STATION (UUT)
47	None	None	Depress  key and  key several times (until bell rings).	Print head indexes to left boundary and performs one line feed. Bell rings when buffer is empty.
48	None	None	Depress  key.	BUFFER ENTER light goes out.
49	Send the options this customer should have. Seven lines of information will be sent but only one line at a time.	None	None	LINE ACTIVE key lights each time a line is received. REC MSG WTG key lights.
50	None	None	Depress  key.	BUFFER ENTER key lights. Print head indexes to left boundary and performs one line feed.
51	None	None	Depress  key.	STRING ENTER key lights. Print head indexes to left boundary and performs one line feed.

CHART 3 (Contd)

STEP	ACTION REQUIRED AT TEST CENTER	RESPONSE AT TEST CENTER	ACTION REQUIRED AT STATION (UUT)	RESPONSE AT STATION (UUT)
52	None	None	Type 1584 (or whatever ① is). Depress  key.	1584 prints (or whatever ① is). Print head indexes to left boundary and performs one line feed.
53	None	None	Depress and hold  key and depress  key.	Print head indexes to left boundary and performs one line feed.
54	None	None	Depress  key and  key several times (until bell rings). Depress BUFFER ENTER key.	Print head indexes to left boundary and performs line feed. Bell rings when buffer is empty. BUFFER ENTER light goes out.
This completes the ON-LINE TESTING. The telephone lines can be disconnected. The set is ready for testing in the customer's system.				