

**COMPILING DATA FOR CONTROL TAPES
FOR OPERATIONAL TRUNK TESTS
USING AUTOMATIC PROGRESSION TRUNK TEST FRAME
NO. 5 CROSSBAR OFFICES**

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B. APTT With Tape Simplification, Issues 23 through 29	14	1.01 This section covers methods of compiling data required for preparing control tapes to be used with the automatic progression trunk test frame (APTT) for performing operational trunk tests. Provisions are made for compiling data for offices with and without tape simplification features provided with the APTT.	
C. APTT With Tape Simplification, Issue 30D and Later	24	1.02 This section is reissued for the following reasons:	
D. Teletypewriter Control Character Definitions	37	(a) To add information in Tables A, B, and C for additional tests of TSP(S) and CCSA trunks.	
FIGURES		(b) To add information in Tables A, B, and C to test outgoing trunks using home or distant office ROTL.	
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SECTION 218-220-301

- (c) To add teletypewriter control characters in Table D used when testing outgoing trunks through a ROTL.
- (d) To include teletypewriter control characters used in the preparation of APTT work sheets, Fig. 1 through 7.
- (e) To make minor changes as required.

This reissue does not affect the Equipment Test Lists.

1.03 The APTT is arranged for performing operational tests on the following:

- (a) Outgoing junctors
- (b) Outgoing intertoll trunks
- (c) Outgoing interoffice trunks
- (d) Intraoffice trunks
- (e) Subscriber-to-subscriber or subscriber-to-trunk intermarker group trunks
- (f) CAMA incoming trunk circuits
- (g) CAMA intermarker group trunks
- (h) CAMA intermarker junctors associated with a maximum of three marker groups
- (i) Line link pulsing (LLP) trunks
- (j) CCSA trunks.
- (k) TSP(S) trunks.

1.04 The APTT provided with tape simplification (Issue 36D and later) is arranged to operate with ROTL to test trunks outgoing from a remote office.

1.05 Automatic progression from one trunk to another and from one group to another is accomplished by information perforated on teletypewriter tape. The method of preparing the control tape is described in Section 218-220-302.

1.06 In addition to directing information on teletypewriter tape, the test circuit is primed by the operation of test control and test

feature keys and/or switches and, in most cases, by the operation of trunk class keys. The method of testing is covered in Section 218-262-501.

2. TEST AND PRIMING INFORMATION

2.01 The number of tape entries required for testing in a particular office is determined by the service features provided in the office, the features provided with the APTT, and the type of trunk being tested.

2.02 Tables A, B, and C define the entries to be used on tapes in terms of their use in various trunk and test classes and indicate the choice of digits that may be used.

2.03 Table A defines the entries to be used on tapes in offices where the APTT is not provided with tape simplification. The APTT without tape simplification (prior to Issue 23) is provided with a Model 14 or 28A transmitter-distributor and reperforator set.

2.04 Table B defines the entries to be used on tapes in offices where the APTT is provided with tape simplification (Issues 23 through 29) and where the automatic transmission measuring system (ATMS) is not provided. The APTT, with tape simplification and with ATMS not provided, is equipped with a 28A teletypewriter set with a modified A-type keyboard.

2.05 Table C defines the entries to be used on tapes in offices where the APTT is provided with tape simplification (Issue 30D and later) and with or without ATMS. The APTT, with tape simplification and with or without ATMS, is equipped with a 28B teletypewriter set with a modified A-type keyboard.

2.06 Tape simplification reduces the effort required to prepare a control tape for a number of trunks within a given trunk group by arranging the test circuit to lock in information common to all trunks of the group. Only that information which relates to the trunk location address and trunk number is required to be perforated for each trunk once the common priming has been perforated.

2.07 Information required for each item of priming information covered in Tables A, B, and C is found in office records such as wiring lists,

trunk cards, marker cross-connections, maintenance records, etc.

2.08 In addition to the priming entries, when tape simplification is provided, certain teletypewriter characters are required as machine instructions. These symbols and their usages are defined in Table D.

2.09 Samples of five Tape Preparation Worksheets and one sample of a Preamble Worksheet are illustrated in Fig. 1 through 7 and are to be used to record data for preparing tapes to prime the APTT for trunk operational testing.

3. PREPARING WORKSHEETS

3.01 The worksheets are to be used to record data for trunks by trunk groups. List all trunks within each trunk group on a chart in numerical order by traffic assigned trunk number (Issue 30D and later) or by trunk number (prior to Issue 30D). When preparing charts for trunk groups which require the test line number to be punched on tape, consideration should be given to making two charts for each trunk group, one for busy line and one for test line tests. Update these charts to reflect additions or deletions from the trunk group or any changed information in relation to testing a trunk.

3.02 APTT Without Tape Simplification:

Fig. 1 illustrates the worksheet to be used in offices in which the APTT does not have tape simplification features (prior to Issue 23). The example of a trunk entry in Fig. 1 is a CAMA trunk. The rate treatment entries (CRG, CRU) are not required for CAMA trunks. The completed chart containing all of the information for testing all of the trunks of a trunk group may be duplicated and the copy used when performing particular circuit tests as covered in Section 218-262-501.

3.03 APTT With Tape Simplification:

Fig. 2 illustrates the worksheet to be used in offices in which the APTT provides tape simplification features (Issues 23 through 29). Space is provided for marker priming information for one trunk group. Since this is the part of marker priming information which is common to all trunks in a trunk group, it needs to be entered only once. In addition, there are spaces for listing trunk priming information. This is the part of marker priming information which provides test access to each

individual trunk in the group and must be entered for each trunk to be tested. When necessary, more than one sheet may be used if the number of trunks in the group exceeds the capacity of a single chart. The additional sheet or sheets should show trunk priming information only. Marker priming information shall not be shown. When CAMA incoming trunks are tested, it is necessary to provide all priming information for each trunk since this version of the APTT does not provide tape simplification for CAMA incoming trunks. Fig. 3 illustrates the chart to be used for CAMA incoming trunks.

3.04 APTT With Tape Simplification (Issue 30D and Later):

Fig. 4 through 7 illustrate worksheets to be used in offices in which the APTT provides tape simplification features (Issue 30D and later). Since the examples in Fig. 5 and 7 illustrate the use of worksheets for the purpose of preparing a control tape for trunk operational testing, the spaces provided for recording data related to trunk transmission testing are to remain blank. Fig. 4 illustrates a worksheet to record information for a preamble to be inserted at the beginning of a control tape. It should contain a brief description of the contents of the control tape and any other pertinent information desired. The preamble information is read by the transmitter-distributor and causes a printout to be made by the teletypewriter. The worksheet provides space for caption information, examples of which are shown in Fig. 5 and 7. Space is provided for marker priming information for one group of trunks. Since this information is common to all the trunks in a group, it needs to be entered only once. In addition, the form provides space for recording individual trunk priming information for 20 trunks. Where the number of trunks in a group exceeds the capacity of the worksheet in Fig. 5, Supplementary worksheet (Fig. 6) may be used to record trunk priming information for the remaining trunks. Fig. 4 and 6 illustrate that information varies, depending upon whether a trunk is a CAMA or non-CAMA trunk, since these trunks are not seized in the same manner. Fig. 5 shows non-CAMA trunks and Fig. 7 shows CAMA trunks. The differences in location of the entries are explained in Table C.

3.05 Copies of these worksheets should be retained in the central office as part of permanent office records.



◆ TABLE A ◆

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITHOUT TAPE SIMPLIFICATION PRIOR TO ISSUE 23)	PRIMING DIGIT
MARKER PRIMING	RET	Retest Digit**	0 Through 9
	A	1st Digit of Terminating Toll Center (TTC) for Intertoll Terminating in Home Numbering Plan Area (HNPA) or	0 or 1
		1st Digit of Called Code for Local Trunks, CAMA Calls, or	2 Through 9
		1st Digit of 3-Digit Foreign Area Code (Non-CAMA Trunks) or	2 Through 7
		1st Digit of 4- or 5-Digit APTT Centrex Terminating Test Line Number (IAO Repeated Supervision Only) or	
	B	1st Digit of 4-, 5-, or 6-Digit Station Number Served by Line Link Pulsing Trunk Under Test	0 Through 9
		2nd Digit of Called Office Code for Local Trunks or	
		2nd Digit of TTC for Intertoll Trunks Terminating in HNPA or	
		2nd Digit of 3-Digit Foreign Area Code (Non-CAMA Trunks) or	
	C	2nd Digit of 4- or 5-Digit APTT Centrex Terminating Test Line Number (IAO Repeated Supervision Only) or	0 Through 9
		2nd Digit of 4-, 5-, or 6-Digit Station Number Served by the Line Link Pulsing Trunk Under Test	
		3rd Digit of Called Office Code for Local Trunks, CAMA Calls, or	
		3rd Digit of TTC for Intertoll Trunks Terminating in HNPA or	
		3rd Digit of 3-Digit Foreign Area Code (Non-CAMA Trunks) or	
	OA or DDA	3rd Digit of 4- or 5-Digit APTT Centrex Terminating Test Line Number (IAO Repeated Supervision Only) or	2 Through 9
		3rd Digit of 4-, 5-, or 6-Digit Station Number Served by Line Link Pulsing Trunk Under Test or	
		Filler Digit for 2-Digit Local Codes	
		Filler Digit for Called Office Code in HNPA	
	OB or DDB	1st Digit of Called Office Code in Foreign Numbering Plan Area (FNPA) or	0 Through 9
		1st Digit of Calling Office Code for CAMA Calls or	
4th Digit of 4- or 5-Digit APTT Centrex Terminating Test Line Number (IAO Repeated Supervision Only) or			
4th Digit of 4- or 5-Digit Station Number Served by Line Link Pulsing Trunk Under Test			
	5th Digit of 5-Digit APTT Centrex Terminating Test Line Number (IAO Repeated Supervision Only) or	0 Through 9	
	5th Digit of 5-Digit Station Number Served by Line Link Pulsing Trunk Under Test		
	2nd Digit of Called Office Code in FNPA or		
	2nd Digit of Calling Office Code for CAMA Calls or		

** Retest digit 0 should be used when preparing a tape to satisfy the test circuit. Use on previous 23 Iss. frames that have been modified with Improvement Features added on Iss. 57.



TABLE A (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITHOUT TAPE SIMPLIFICATION PRIOR TO ISSUE 23)				PRIMING DIGIT
MARKER PRIMING	OB or DDB (Contd)	Filler Digit for Called Office Code in HNPA or				0
		Filler Digit for 2-Digit Office Code in FNPA or				
		Filler Digit for 4-Digit APTT Centrex Terminating Test Line Number (IAO Repeated Supervision Only) or				
		Filler Digit for 4-Digit Station Number Served by Line Link Pulsing Trunk Under Test				
	OC or DDC	3rd Digit of Called Office Code in FNPA or				0 Through 9
		3rd Digit of Calling Office Code for CAMA Calls or				
		Filler Digit for Called Office Code in HNPA or				0
		Filler Digit for 2-Digit Office Code in FNPA or				
		Filler Digit for 4- or 5-Digit APTT Centrex Terminating Test Line Number (IAO Repeated Supervision Only) or				
	Filler Digit for 4- or 5-Digit Station Number Served by Line Link Pulsing Trunk Under Test					
		Terminating Test Line Number Last 4 Digits of Line Called Number	Code 10X Terminating Test Line (Tandem and Toll)	7 or 10 Digit Return Test Line Number	Return Test Line 4, 5 or 6 Digit Centrex or LLP	
	NTH	Thousands Digit	Hundreds Digit 1	Thousands Digit	Filler Digit 0	0 Through 9 Note 1
	NH	Hundreds Digit	Tens Digit 0	Hundreds Digit	Filler Digit 0	
	NT	Tens Digit	Units Digit X	Tens Digit	Filler Digit 0	
	NU	Units Digit	Filler Digit 0	Units Digit	Filler Digit 0	
	X	TSP(S) Trunks Using 0+ Prefix Non ANI				2
		TSP(S) Trunks Using 0+ Prefix ANI				3
		TSP(S) Trunks Using 0- Prefix Non ANI				4
		TSP(S) Trunks Using 0- Prefix ANI				5
		TSP(S) Trunks Using 1+ Prefix Non ANI				7
TSP(S) Trunks Using 1+ Prefix ANI				8		
If APTT Has Apparatus Fig. I				0		
Digit 1 Access Code <i>Not</i> Required						
Digit 1 Access Code Required				1		
If APTT Has Apparatus Fig. J						
All Trunks Except Line Link Pulsing, Centrex 4- and 5-Digit Numbers, TSP(S), CAMA, and CCSA						

Note 1: Use when frame has variable terminating test line feature (App. Fig. 65)



TABLE A (Contd)

LINE DESIG		TRUNK SELECTING AND CONTROL INFORMATION (APTT WITHOUT TAPE SIMPLIFICATION PRIOR TO ISSUE 23)		PRIMING DIGIT			
MARKER PRIMING	X (Contd)	Test lines 1, 2, and 3 represent actual call numbers assigned to various test terminations in distant offices. Therefore, local office records will indicate test line number to be selected.	Foreign Area Prefix 11 or Digit 1 <i>Not</i> Required. Note 2	Test Line 1	4		
				Test Line 2	5		
				Test Line 3	6		
			Foreign Area Prefix 11 or Digit 1 Required. Note 2	Test Line 1	7		
				Test Line 2	8		
				Test Line 3	9		
		CAMA Trunks					
		Foreign Area Prefix 11 or Digit 1 <i>Not</i> Required.	Local Completion		4		
			Tandem Completion		5		
			Toll Completion		6		
	Foreign Area Prefix 11 or Digit 1 Required	Local Completion		7			
		Tandem Completion		8			
		Toll Completion		9			
	CCSA Trunks						
	CCSA Trunk Repeated Supervision	Local Originated	Tandem Originated LT	4			
		LT3	TT	5			
	CCSA Trunk No Repeated Supervision	LT3	LT	7			
			TT	8			
			TT	9			
	Line Link Pulsing Trunks		Centrex Trunks				
Reverse Battery Supervision	APTT Centrex Terminating Test Line Number, Repeated Supervision Test (IAO Used for Intracentrex, No Transfer Feature).	4-Digit Number	4				
—		5-Digit Number	5				
—		7-Digit Number	6				
E & M Lead Supervision	APTT Centrex Terminating Test Line Number, Transfer Test (IAO Used for Centrex, Transfer Feature)			7			
CST*	Non-CAMA Trunks, Outgoing Junctors, and CAMA Junctors — Class-of-Service Tens			0 Through 9			

Note 2: Use when variable terminating test line number feature (App. Fig. 65) not provided.
* CST, CSU bypassed when testing CAMA trunks; ASN, ASH used instead.



TABLE A (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITHOUT TAPE SIMPLIFICATION PRIOR TO ISSUE 23)			PRIMING DIGIT		
MARKER PRIMING	CST* (Contd)	Intertoll Testing					
		Trk No. Thousands Digit of APTT Toll or Tandem Orig Tst Line		Class Group Lead Grounded To Marker			
		2000 Trk No.	4000 Trk No.				
		0000-0999	Use Filler Digit, Trunk No. for Toll or Tandem Testing is Hard Wired When Max of 4000 Trk Nos. Provided		Line Link Pulsing Feature <i>Not</i> Provided	0	
		1000-1999				5	
		0000-0999		TCA	Line Link Pulsing Feature Provided	0	
				TCB		1	
		1000-1999		TCA		3	
				TCB		4	
		Toll Screening <i>Not</i> Required				2	
		CSU*	Non-CAMA Trunks, Outgoing Junctors, and CAMA Junctors — Class-of-Service Units				0 Through 9
			Intertoll Testing — Class and Class Group Leads Grounded to Marker				
	Toll Screening Provided		Single Toll Class Provided				
	TOL-TCA		TOL		0		
	TAN1-TCB		—		1		
	TAN2-TCB		—		2		
	TAN3-TCB		—		3		
	TAN4-TCB		—		4		
	Class Lead Grounded to Marker						
	TAN			Line Link Pulsing Feature Provided	0		
	TAN1				1		
	TAN2				2		
	TAN3				3		
	TAN4				4		
TOL			5				
INC			6				

* CST, CSU bypassed when testing CAMA trunks; ASN, ASH used instead.



TABLE A (Contd)

LINE DESIG		TRUNK SELECTING AND CONTROL INFORMATION (APTT WITHOUT TAPE SIMPLIFICATION PRIOR TO ISSUE 23)						PRIMING DIGIT			
MARKER PRIMING	ASN†	CAMA Incoming and CAMA Intermarker Group Testing									
		CAMA Access Switch No.				Trunk No. Thousands Digit					
		Provision for up to 500 CAMA Trunks		Provision for up to 1000 CAMA Trunks		2000 Trunk No. Max.		4000 Trunk No. Max			
						Max CAMA Trunks		Max CAMA Trunks			
						500	1000	500	1000		
		0		0		When trunk number thousands digit is 0	Thousands digit is programmed as part of TT digit for more than 500 CAMA trunks and a maximum of 2000 trunk numbers			0	
		1		1						1	
		2		2						2	
		3		3						3	
		4		4		When trunk number thousands digit is 1				4	
		0		5						5	
		1		6						6	
		2		7						7	
		3		8						8	
	4		9		9				9		
		ASH†	CAMA Incoming and CAMA Intermarker Group Access Switch Holding Magnet Number						0 Through 9		
		CLT and CLU	Trunk Class Tens and Units						CLT	CLU	
			Test Call Originated From Toll Originating Test Line For: Intertoll Trunks or Toll Switching Trunk With Toll Appearance or Intermarker Group Trunk With Toll Appearance or						0	0	
			Outgoing or IAO Flat-Rate Trunk or						0	1	
			Outgoing Flat-rate Trunk for Subscriber Access to Intertoll Trunk or						1	9	
	Outgoing CCSA Trunk Without Repeated Supervision — FR Subscriber Access or						0	2			
	Outgoing or IAO Message Register Trunk‡ or						0	6			
	Outgoing or IAO Message Register Trunk§ or						0	3			
	Outgoing or IAO AMA Trunk Arranged to Initiate Disconnect Entry or						0	7			
	Outgoing or IAO AMA Trunk Arranged to Omit Disconnect Entry or						0	9			
	Outgoing AMA Trunk for Subscriber Access to Intertoll Trunks or						0	9			
	Outgoing CCSA Trunk or Off-Net Access Line (ONAL) Without Repeated Supervision — Tandem or Subscriber Access or						0	4			
	Outgoing or IAO Coin Trunk‡ or						0	5			
	Outgoing or IAO Coin Trunk§ or						0	5			

† ASN, ASH are entered only when testing CAMA trunks.

‡ All nonwire-spring-relay type trunks and those wire-spring-relay type trunks associated with first 4-ipm interrupter.

§ Wire-spring-relay type trunks associated with second 4-ipm interrupter.



TABLE A (Contd)

LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITHOUT TAPE SIMPLIFICATION PRIOR TO ISSUE 23)	PRIMING DIGIT		
		CLT	CLU	
MARKER PRIMING	CLT and CLU (Contd)	Trunk Class Tens and Units (Contd)		
		Outgoing ANI Trunk or	0	8
		Centrex IAO Trunks Without Repeated Supervision or Distant Office Incoming Centrex Trunks or	1	8
		Centrex IAO Trunks With Repeated Supervision or	2	0
		Incoming CAMA Trunk, Operator Identified or	1	0
		Incoming CAMA Trunk, Automatic Identification or	1	1
		CAMA Junctor or	1	2
		CAMA Intermarker Group Trunk Arranged to Initiate Disconnect Entry or	1	3
		CAMA Intermarker Group Trunk Arranged to Omit Disconnect Entry or	1	4
		Data AMA Operation or	1	5
		Data Message Operation or	1	6
		Line Link Pulsing, 7- or 10-Digit Number or	1	7
		Line Link Pulsing, 4-Digit Number, OA Lead Grounded to Marker or	2	2
		Line Link Pulsing, 4-Digit Number, OB Lead Grounded to Marker or	2	3
		Line Link Pulsing, 4-Digit Number, PHC Lead Grounded to Marker or	2	4
		Line Link Pulsing, 4-Digit Number, THC Lead Grounded to Marker or	2	5
		Line Link Pulsing, 5-Digit Number, FVD Lead Grounded to Marker or	2	6
		Automatic Intercept Trunks or	2	7
		Outgoing CCSA Trunk With Repeated Supervision — FR Subscriber Access or	2	8
		Outgoing CCSA Trunk With Repeated Supervision — AMA Subscriber Access or	2	9
		CCSA Trunk or Off-Net Access Line (ONAL) to 103 Test — Tandem Access or	3	0
		CCSA Trunk With Repeated Supervision — Centrex Transfer Feature in D.O. Trunk — Subscriber Access or	3	1
		Junctor Circuit Used as CCSA Offi-Net Access Line (ONAL) or	3	2
		Toll Switch Trunk Through to Centrex Transfer Test or	3	3
		Outgoing or IAO Coin Trunk to Centrex Transfer or D. A. Transfer Test Line or	3	4
		Centrex IAO Trunk With Repeated Supervision Arranged to Initiate Disconnect Entry ¶ or	3	5
		Centrex IAO Trunk With Repeated Supervision Arranged to Omit Disconnect Entry ¶ or	3	6
		Centrex IAO Trunk With Repeated Supervision FR ¶ or	3	7
		Centrex IAO Trunk With Repeated Supervision to Centrex Transfer Test ¶ or	3	8

¶ Centrex IAO Trunks Without Transfer Feature Use X Digit 4 or 5
Centrex IAO Trunks With Transfer Feature Use X Digit 7



TABLE A (Contd)

LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITHOUT TAPE SIMPLIFICATION PRIOR TO ISSUE 23)	PRIMING DIGIT			
		CLT	CLU		
MARKER PRIMING	Trunk Class Tens and Units (Contd)				
	CLT and CLU (Contd)	Trunk Equipped With AMA for Traffic Sampling or	3	9	
		TSPS Trunks, Non-Coin, Without Toll Diversion, Hi-Lo Supervision or	4	0	
		TSPS Trunks, Non-Coin, With Toll Diversion, Hi-Lo Supervision or	4	1	
		TSPS Trunks, Non-Coin, Without Toll Diversion, E and M Supervision or	4	2	
		TSPS Trunks, Non-Coin, With Toll Diversion, E and M Supervision or	4	3	
		TSPS Coin Trunks, With Coin Service Improvements (Dial Tone First), Hi-Lo Supervision or	4	4	
		TSPS Coin Trunks, With Automatic Coin Return, Without Dial Tone First, Hi-Lo Supervision or	4	5	
		TSPS Coin Trunks, Without Dial Tone First or Automatic Coin Return, Hi-Lo Supervision or	4	6	
		TSPS Coin Trunks, With Dial Tone First, E and M Supervision or	4	7	
		TSPS Coin Trunks, With Automatic Coin Return, Without Dial Tone First, E and M Supervision or	4	8	
		TSPS Coin Trunks, Without Dial Tone First or Automatic Coin Return, E and M Supervision	4	9	
		CCSA Trunk Repeated Supervision Arranged for AMA Traffic Sampling or	5	0	
		CCSA LONAL Circuit Arranged for AMA, Traffic Sampling	5	1	
		TIT and TIU	Trunk Information Tens and Units		TIT
	Outgoing Trunk to Synchronous Test Line, Crossbar, Panel Office or Continuity and Polarity Test or		0	0	
	Outgoing Trunk to Nonsynchronous Test Line, Panel Office or Continuity and Polarity Test With Revised Tip and Ring or		0	1	
	Outgoing Trunk to Step-by-Step Test Line, Step-by-Step Office or		0	2	
	Outgoing Trunk to Manual Office (PCI) or Line Link Pulsing or		0	4	
	Intermarker Group Subscriber-to-Subscriber Trunk, Reverse Battery Supervision, Outgoing Junctor or		0	3	
Intermarker Group to Marker Group 0 or	Subscriber-to-Subscriber Trunks		0	6	
Intermarker Group to Marker Group 100 or			0	7	
Intermarker Group to Marker Group 200 or			0	8	
Intraoffice Trunk or			0	5	
Outgoing Intertoll Trunk to Code 103 Test Trunk in Distant Office			0	9	



TABLE A (Contd)

LINE DESIG		TRUNK SELECTING AND CONTROL INFORMATION (APTT WITHOUT TAPE SIMPLIFICATION PRIOR TO ISSUE 23)			PRIMING DIGIT	
MARKER PRIMING	TIT and TIU (Contd)	Trunk Information Tens and Units (Cont)			TIT	TIU
		CAMA Calls	TSPS Calls	Non-Bylink Incoming Trunk, Ground Shunt or	1	0
				Non-Bylink Incoming Trunk, No Ground Shunt or	1	1
				Bylink Incoming Trunk, E&M Lead Supervision or	1	2
				Bylink Incoming Trunk, Loop-Signaling over a 0- to 1750-Ohm Loop, 1000-Ohm Compensation Required or	1	3
				Bylink Incoming Trunk, Loop-Signaling over a 1750- to 4200-Ohm Loop, 1000-Ohm Compensation Not Required or	1	4
				Bylink Incoming Code, Selector or Intramural Trunk (Distant Step-by-Step Office Within Same Building) or	1	5
				Intermarker Group Trunk or CAMA Junctor	1	6
TRUNK PRIMING	FTCD	Called Digits		Frame Tens		
		6 Digits in Called Office Code	Random Trunk Selection		0	
			Trunk Link Frame Tens 0		1	
			Trunk Link Frame Tens 1		2	
			Trunk Link Frame Tens 2		3	
		2 Digits in Called Office Code	Trunk Link Frame Tens 0		4	
			Trunk Link Frame Tens 1		5	
			Trunk Link Frame Tens 2		6	
		3 Digits in Called Office Code	Trunk Link Frame Tens 0		7	
			Trunk Link Frame Tens 1		8	
			Trunk Link Frame Tens 2 or		9	
			Random Trunk Selection			



TABLE A (Contd)

LINE DESIG		TRUNK SELECTING AND CONTROL INFORMATION (APTT WITHOUT TAPE SIMPLIFICATION PRIOR TO ISSUE 23)				PRIMING DIGIT	
TRUNK PRIMING	FU	Trunk Link Frame Units or				0 Through 9	
		Filler Digit (CAMA Incoming Trunk)				0	
	TT	Trunk Tens 0 Within Block of 20 Trunks or				0	
		Line Link Pulsing-Sleeve Lead Tens or				1	
		Trunk Tens 1 Within Block of 20 Trunks				0	
		When Office is Arranged for Less Than 500 CAMA Trunks or When Office is Arranged for a Maximum of 4000 Trunk Numbers or				0	
		When Office is Arranged for More than 500 CAMA Trunks and for a Maximum of 2000 Trunk Numbers				Trk No. Thousands Digit	
						0	0
	TU or SSN	Trunk Units Within Block of 20 Trunks or				0 Through 9	
		CAMA Incoming or CAMA Intermarker Group Trunks — Access Switch Selecting Magnet Unit Digit or					
		Line Link Pulsing Sleeve Leads Units Digit					
	AGRA	Line Link Pulsing, Trunk Group Not Allowed Between Number Groups				0	
		Allotter Group and Route Advance					
			LLP Trunk Group Allotted Between Number Groups	Trunk Allotter Group	No. of Times Marker to Route Advance	ETS—Flexible Trunk Assignments—Trunk Block No. of Trunk	
			NGTA	—	—	1	1
			NGTB	—	—	2	2
			NGTC	—	—	3	3
			NGTD	A or None	0	4	4
			NGTE	A or None	1	5	5
			NGTF	A or None	2	6	6
		NGTG	B	0	7	7	
		NGTH	B	1	8	8	
	—	B	2	9	9		
CRG	Rate Treatment Class Group A Tens ¶ or				0		
	Rate Treatment Class Group B Tens ¶				1		
CRU	Rate Treatment Class Units ¶				0 Through 9		

¶ Bypassed if rate treatment is not required (filler digit not required).



TABLE A (Contd)

LINE DESIG		TRUNK SELECTING AND CONTROL INFORMATION (APTT WITHOUT TAPE SIMPLIFICATION PRIOR TO ISSUE 23)	PRIMING DIGIT
TRUNK PRIMING			
	ITH	CAMA Intermarker Group Trunk Number Thousands Digit or ††	0 Through 3
	IHT	CAMA Intermarker Group Trunk Number Hundreds Digits or ††	0 Through 9
		LLP, Tens Block Tens of Number Group or ††	
	ITT	CAMA Intermarker Group Trunk Number Tens Digit or ††	
LLP, Tens Block Units of Number Group or ††			
IUT	CAMA Intermarker Group Trunk Number Units Digit ††		

†† Bypassed if not CAMA IMG or line Link pulsing test (filler digit not required).

‡‡ Bypassed if not CAMA IMG test (filler digit not required).



◆ TABLE B ◆

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUES 23 THROUGH 29)	PRIMING DIGIT	
MARKER PRIMING	CRT LNF FIG	Carriage Return Line Feed Figures	To set typing unit in the proper condition to receive information	
	RET	Retest Digit*	0 Through 9	
	A	1st Digit of Terminating Toll Center (TTC) for Intertoll Trunks Terminating in Home Numbering Plan Area (HNPA) or		0 or 1
		1st Digit of Called Office Code for Local Trunks, CAMA Calls, or		2 Through 9
		1st Digit of 3-Digit Foreign Area Code (Non-CAMA Trunks) or		
		1st Digit of 4- or 5-Digit APTT Centrex Terminating Test Line Number (IAO Repeated Supervision Only) or		2 Through 7
	1st Digit of 4-, 5-, or 6-Digit Station Number Served by Line Link Pulsing Trunk Under Test			
	B	2nd Digit of Called Office Code for Local Trunks or		0 Through 9
		2nd Digit of TTC for Intertoll Trunks Terminating in HNPA or		
		2nd Digit of 3-Digit Foreign Area Code (Non-CAMA Trunks) or		
		2nd Digit of 4- or 5-Digit APTT Centrex Terminating Test Line Number (IAO Repeated Supervision Only) or		
	2nd Digit of 4-, 5-, or 6-Digit Station Number Served by Line Link Pulsing Trunk Under Test			
	C	3rd Digit of Called Office Code for Local Trunks, CAMA Calls, or		0 Through 9
		3rd Digit of TTC for Intertoll Trunks Terminating in HNPA or		
		3rd Digit of 3-Digit Foreign Area Code (Non-CAMA Trunks) or		
		3rd Digit of 4- or 5-Digit APTT Centrex Terminating Test Line Number (IAO Repeated Supervision Only) or		
		3rd Digit of 4-, 5-, or 6-Digit Station Number Served by Line Link Pulsing Trunk Under Test		
	OA or DDA	Filler Digit for 2-Digit Local Codes		0
		1st Digit of Called Office Code in Foreign Numbering Plan Area (FNPA) or		0 Through 9
		1st Digit of Calling Office Code for CAMA Calls or		
4th Digit of 4- or 5-Digit APTT Centrex Terminating Test Line Number (IAO Repeated Supervision Only) or				
4th Digit of 4-, 5-, or 6-Digit Station Number Served by Line Link Pulsing Trunk Under Test or				
Filler Digit for Called Office Code in HNPA		0		

* Retest digit 0 should be used when preparing tape to satisfy the test circuit. Other digits will be perforated on retest tape as determined by trouble or busy condition. Valid digits allowing for retest will be 0, 1, 2, 3, 4, and 6.



TABLE B (Contd)

MARKER PRIMING	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUES 23 THROUGH 29)				PRIMING DIGIT
	MARKER PRIMING	OB or DDB	2nd Digit of Called Office Code in FNPA or			
2nd Digit of Calling Office Code for CAMA Calls or						
5th Digit of 5-Digit APTT Centrex Terminating Test Line Number (IAO Repeated Supervision Only) or						
5th Digit of 5- or 6-Digit Station Number Served by Line Link Pulsing Trunk Under Test						
Filler Digit for Called Office Code in HNPA or				0		
Filler Digit for 2-Digit Office Code in FNPA or						
Filler Digit for 4-Digit APTT Centrex Terminating Test Line Number (IAO Repeated Supervision Only) or						
Filler Digit for 4-Digit Station Number Served by Line Link Pulsing Trunk Under Test						
OC or DDC		3rd Digit of Called Office Code in FNPA or				0 Through 9
		3rd Digit of Calling Office Code for CAMA Calls or				
		6th Digit of 6-Digit Station Number Served by Line Link Pulsing Trunk Under Test				
		Filler Digit for Called Office Code in HNPA or				0
		Filler Digit for 2-Digit Office Code in FNPA or				
		Filler Digit for 4- or 5-Digit APTT Centrex Terminating Test Line Number (IAO Repeated Supervision Only) or				
Filler Digit for 4- or 5-Digit Station Number Served by Line Link Pulsing Trunk Under Test						
	Terminating Test Line Number (Last 4 Digits of Called Number)	Code 10X Terminating Test Line (Tandem and Toll)	7 or 10 Digit Return Test Line Number	Return Test Line 4, 5 or 6 Digit Centrex or LLP		
NTH	Thousands Digit	Hundreds Digit	1	Thousands Digit	Filler Digit 0	0 Through 9
NH	Hundreds Digit	Tens Digit	0	Hundreds Digit	Filler Digit 0	
NT	Tens Digit	Units Digit	X	Tens Digit	Filler Digit 0	
NU	Units Digit	Filler Digit	0	Units Digit	Filler Digit 0	
X	All Trunks Except Line Link Pulsing, Centrex 4- and 5-Digit Numbers, TSP(S), CAMA and CCSA					
	Test lines 1, 2, and 3 represent actual call numbers assigned to various test terminations in distant offices. Therefore, local office records will indicate test line number to be selected.		Foreign Area Prefix 11 or Digit 1 <i>Not</i> Required.		Test Line 1	4
					Test Line 2	5
					Test Line 3	6
			Foreign Area Prefix 11 or Digit 1 Required.		Test Line 1	7
					Test Line 2	8
Test Line 3					9	



TABLE B (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUES 23 THROUGH 29)		PRIMING DIGIT	
MARKER PRIMING	X (Contd)	TSP(S) Trunks			
		TSP(S) Trunks Using 0+ Prefix Non ANI		2	
		TSP(S) Trunks Using 0+ Prefix ANI		3	
		TSP(S) Trunks Using 0- Prefix Non ANI		4	
		TSP(S) Trunks Using 0- Prefix ANI		5	
		TSP(S) Trunks Using 1+ Prefix Non ANI		7	
		TSP(S) Trunks Using 1+ Prefix ANI		8	
		CAMA Trunks			
		Foreign Area Prefix 11 or Digit 1 <i>Not</i> Required	Local Completion		4
			Tandem Completion		5
			Toll Completion		6
		Foreign Area Prefix 11 or Digit 1 Required	Local Completion		7
			Tandem Completion		8
			Toll Completion		9
		CCSA Trunks			
		CCSA Trunk Repeated Supervision	Local Originated	Tandem Originated	
			LT3	LT	4
				TT	5
			LT3	TT	6
				LT	7
				TT	8
		CCSA Trunk No Repeated Supervision		9	
		Line Link Pulsing Trunks		Centrex Trunks	
		Reverse Battery Supervision	APTT Centrex Terminating Test Line Number, Repeated Supervision Test (IAO Used for Intra-centrex, No Transfer Feature)		4-Digit Number
—	5-Digit Number	5			
—	7-Digit Number	6			
E AND M Lead Supervision	APTT Centrex Terminating Test Line Number, Transfer Test (IAO Used for Centrex, Transfer Feature)			7	



TABLE B (Contd)

MARKER PRIMING	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUES 23 THROUGH 29)				PRIMING DIGIT	
	CST†	Non-CAMA Trunks, Outgoing Junctors, and CAMA Junctors — Class-of-Service Tens				0 Through 9	
		Intertoll Testing					
		Trk No. Thousands Digit of APTT Toll or Tandem Orig Tst Line		Class Group Lead Grounded To Marker			
		2000 Trk No.	4000 Trk No.				
		0000-0999	User Filler Digit, Trunk No. for Toll or Tandem Testing is Hard Wired When Max of 4000 Trk Nos. Provided			Line Link Pulsing Feature <i>Not</i> Provided	0
		1000-1999					5
		0000-0999		TCA		Line Link Pulsing Feature Provided	0
		1000-1999	TCB		1		
			TCA		3		
		TCB					4
	Toll Screening <i>Not</i> Required					2	
	CSU†	Non-CAMA Trunks, Outgoing Junctors, and CAMA Junctors — Class-of-Service Units				0 Through 9	
		Intertoll Testing — Class and Class Group Leads Grounded to Marker					
		Toll Screening Provided		Single Toll Class Provided			
		TOL-TCA		TOL		Line Link Pulsing Feature <i>Not</i> Provided	0
		TAN1-TCB		—			1
		TAN2-TCB		—			2
		TAN3-TCB		—			3
TAN4-TCB		—		4			
Class Lead Grounded to Marker							
TAN				Line Link Pulsing Feature Provided	0		
TAN1					1		
TAN2					2		
TAN3					3		
TAN4					4		
TOL					5		
INC					6		

† CST, CSU bypassed when testing CAMA trunks; ASN, ASH used instead.



TABLE B (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUES 23 THROUGH 29)						PRIMING DIGIT			
		CAMA Access Switch No.		Trunk No. Thousands Digit							
	ASN‡	Provision for up to 500 CAMA Trunks	Provision for up to 1000 CAMA Trunks	2000 Trunk No. Max		4000 Trunk No. Max					
				Max CAMA Trunks		Max CAMA Trunks					
				500	1000	500	1000				
MARKER PRIMING		0	0	When trunk number thousands digit is 0	Thousands digit is pro- grammed as part of TT digit for more than 500 CAMA trunks and a maximum of 2000 trunk numbers	Thousands digit is programmed in the ITH digit when office is arranged for a maximum of 4000 trunk numbers			0		
		1	1								1
		2	2								2
		3	3								3
		4	4								4
		0	5	When trunk number thousands digit is 1					5		
		1	6								6
		2	7								7
		3	8								8
		4	9								9
		ASH‡	CAMA Incoming and CAMA Intermarker Group Access Switch Holding Magnet Number						0 Through 9		
			Trunk Class Tens and Units						CLT	CLU	
			Test Call Originated From Toll Originating Test Line for: Intertoll Trunks or Toll Switching Trunk With Toll Appearance or Intermarker Group Trunk With Toll Appearance or						0	0	
			Outgoing or IAO Flat-Rate Trunk or						0	1	
			Outgoing Flat-Rate Trunk for Subscriber Access to Intertoll Trunk or						1	9	
		Outgoing CCSA Trunk Without Repeated Supervision — FR Subscriber Access									
	CLT and CLU	Outgoing or IAO Message Register Trunk§ or						0	2		
		Outgoing or IAO Message Register Trunk¶ or						0	6		
		Outgoing or IAO AMA Trunk Arranged to Initiate Disconnect Entry or						0	3		
		Outgoing or IAO AMA Trunk Arranged to Omit Disconnect Entry or						0	7		
		Outgoing AMA Trunk for Subscriber Access to Intertoll Trunks or						0	9		
		Outgoing CCSA Trunk or Off-Net Access Line (ONAL) Without Repeated Supervision — Subscriber Access or									
		Outgoing or IAO Coin Trunk§ or						0	4		
		Outgoing or IAO Coin Trunk¶ or						0	5		

‡ ASN, ASH are entered only when testing CAMA trunks.

§ All nonwire-spring-relay type trunks and those wire-spring-relay type trunks associated with first 4-ipm interrupter.

¶ Wire-spring-relay type trunks associated with second 4-ipm interrupter.



TABLE B (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUES 23 THROUGH 29)	PRIMING DIGIT	
			CLT	CLU
MARKER PRIMING	CLT and CLU (Contd)	Trunk Class Tens and Units (Contd)		
		Outgoing ANI Trunk or	0	8
		Centrex IAO Trunks Without Repeated Supervision or††	1	8
		Distant Office Incoming Centrex Trunks or		
		Centrex IAO Trunks With Repeated Supervision or††	2	0
		Incoming CAMA Trunk, Operator Identified or	1	0
		Incoming CAMA Trunk, Automatic Identification or	1	1
		CAMA Junctor or	1	2
		CAMA Intermarker Group Trunk Arranged to Initiate Disconnect Entry or	1	3
		CAMA Intermarker Group Trunk Arranged to Omit Disconnect Entry or	1	4
		Data AMA Operation or	1	5
		Data Message Operation or	1	6
		Line Link Pulsing, 7- or 10-Digit Number or	1	7
		Line Link Pulsing, 4-Digit Number, OA Lead Grounded to Marker or	2	2
		Line Link Pulsing, 4-Digit Number, OB Lead Grounded to Marker or	2	3
		Line Link Pulsing, 4-Digit Number, PHC Lead Grounded to Marker or	2	4
		Line Link Pulsing, 4-Digit Number, THC Lead Grounded to Marker or	2	5
		Line Link Pulsing, 5-Digit Number, FVD Lead Grounded to Marker or	2	6
		Automatic Intercept Trunks or	2	7
		Outgoing CCSA Trunk With Repeated Supervision — FR Subscriber Access or	2	8
		Outgoing CCSA Trunk With Repeated Supervision — AMA Subscriber Access or	2	9
		CCSA Trunk or Off-Net Access Line (ONAL) to 103 Test — Tandem Access or	3	0
		CCSA Trunk With Repeated Supervision — Centrex Transfer Feature in D.O. Trunk — Subscriber Access or	3	1
		Junctor Circuit Used As CCSA Off-Net Access Line (LONAL) or	3	2
		Toll Switch Trunk Through to Centrex Transfer Test or	3	3
		Outgoing or IAO Coin Trunk to Centrex Transfer Test or D.A. Transfer Test Line or	3	4
		Centrex IAO Trunk With Repeated Supervision Arranged to Initiate Disconnect Entry†† or	3	5
		Centrex IAO Trunk With Repeated Supervision Arranged to Omit Disconnect Entry†† or	3	6
		Centrex IAO Trunk With Repeated Supervision FR Test †† or	3	7
		Centrex IAO Trunk With Repeated Supervision to Centrex Transfer Test †† or	3	8
		Trunk Equipped With AMA for Traffic Sampling	3	9

†† Centrex IAO Trunks Without Transfer Feature. Use X Digit 4 or 5.
 Centrex IAO Trunks With Transfer Feature. Use X Digit 7



TABLE B (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUES 23 THROUGH 29)	PRIMING DIGIT		
			CLT	CLU	
MARKER PRIMING	CLT and CLU (Contd)	Trunk Class Tens and Units (Contd)			
		TSPS Trunks, Non-Coin, Without Toll Diversion, Hi-Lo Supervision or	4	0	
		TSPS Trunks, Non-Coin, With Toll Diversion, Hi-Lo Supervision or	4	1	
		TSPS Trunks, Non-Coin, Without Toll Diversion, E and M Supervision or	4	2	
		TSPS Trunks, Non-Coin, With Toll Diversion, E and M Supervision or	4	3	
		TSPS Coin Trunks, With Coin Service Improvements (Dial Tone First), Hi-Lo Supervision or	4	4	
		TSPS Coin Trunks, With Automatic Coin Return, Without Dial Tone First, Hi-Lo Supervision or	4	5	
		TSPS Coin Trunks, Without Dial Tone First or Automatic Coin Return, Hi-Lo Supervision or	4	6	
		TSPS Coin Trunks, With Dial Tone First, E and M Supervision or	4	7	
		TSPS Coin Trunks, With Automatic Coin Return, Without Dial Tone First, E and M Supervision or	4	8	
		TSPS Coin Trunks, Without Dial Tone First or Automatic Coin Return, E and M Supervision or	4	9	
		CCSA Trunk With Repeated Supervision Arranged for AMA Traffic Sampling or	5	0	
		CCSA LONAL Circuit Arranged for AMA and Traffic Sampling	5	1	
		LLP — Trunk — 6-Digit Number	6	0	
	TIT and TIU	Trunk Information Tens and Units		TIT	TIU
		Outgoing Trunk to Synchronous Test Line, Crossbar, Panel Office or Continuity and Polarity Test or	0	0	
		Outgoing Trunk to Nonsynchronous Test Line, Panel Office or Continuity and Polarity Test With Reversed Tip and Ring	0	1	
		Outgoing Trunk to Step-by-Step Test Line, Step-by-Step Office or Outgoing Trunk to Manual Office (PCI) or Line Link Pulsing or	0	2	
		Intermarker Group Subscriber-to-Subscriber Trunk, Reverse Battery Supervision, Outgoing Junctor or	0	3	
		Intermarker Group to Marker Group 0 or	Subscriber-to-Subscriber Trunks	0	6
		Intermarker Group to Marker Group 100 or		0	7
		Intermarker Group to Marker Group 200 or		0	8
		Intraoffice Trunk or	0	5	
		Outgoing Intertoll Trunk to Code 103 Test Trunk in Distant Office or	0	9	



TABLE B (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUES 23 THROUGH 29)				PRIMING DIGIT	
		Trunk Information Tens and Units (Contd)				TIT	TIU
MARKER PRIMING	TIT and TIU (Contd)	CAMA Calls	TSPS Calls	Non-Bylink Incoming Trunk, Ground Shunt or	Trunks Using Recall Condition of Positive and Negative Potential or	1	0
				Non-Bylink Incoming Trunk, No Ground Shunt or	Trunks Using Recall Condition of Single Wink on M Lead or	1	1
				Bylink Incoming Trunk, E and M Lead Supervision or	Trunks Using Recall Condition of Multiple Winks or	1	2
				Bylink, Incoming Trunk, Loop-Signaling Over a 0- to 1750-Ohm Loop, 1000-Ohm Compensation Required or	Trunks Using Recall Condition of Flashes or	1	3
				Bylink, Incoming Trunk, Loop-Signaling Over a 1750- to 4200-Ohm Loop, 1000-Ohm Compensation Not Required or	Trunks Using Recall Condition of In-Band Signaling	1	4
				Bylink Incoming Code, Selector or Intramural Trunk (Distant Step-by-Step Office Within Same Building) or		1	5
				Intermarker Group Trunk or CAMA Junctor		1	6
		Outgoing Trunk to Synchronous Test Line, No. 4 Toll or Crossbar Tandem	1	9			
		Line Link Pulsing, Trunk Group Not Allotted Between Number Groups			0		
		Allotter Group and Route Advance					
		LLP Trunk Group Allotted Between Number Groups	Trunk Allotter Group	No. of Times Marker to Route Advance	ETS—Flexible Trunk Assignments—Trunk Block No. of Trunk		
		NGTA	—	—	1	1	
		NGTB	—	—	2	2	
		NGTC	—	—	3	3	
		NGTD	A or None	0	4	4	
		NGTE	A or None	1	5	5	
		NGTF	A or None	2	6	6	
		NGTG	B	0	7	7	
	NGTH	B	1	8	8		
	—	B	2	9	9		



TABLE B (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUES 23 THROUGH 29)		PRIMING DIGIT	
TRUNK PRIMING	CRG	Rate Treatment Class Group A** or		0	
		Rate Treatment Class Group B**		1	
	CRU	Rate Treatment Class Group Units**		0 Through 9	
	ITH	CAMA Intermarker Group Trunk Number Thousands Digit††		0 Through 3	
	IHT	CAMA Intermarker Group Trunk Number Hundreds Digit‡‡ or		0 Through 9	
		Line Link Pulsing, Tens Block Tens of Number Group‡‡			
	ITT	CAMA Intermarker Group Trunk Number Tens Digit‡‡ or		0 Through 9	
		Line Link Pulsing, Tens Block Units of Number Group‡‡			
	IUT	CAMA Intermarker Trunk Number Units Digit††		0 Through 9	
	FCTD§§	6 Digits in Called Office Code	Random Trunk Selection		0
			Trunk Link Frame Tens 0		1
			Trunk Link Frame Tens 1		2
			Trunk Link Frame Tens 2		3
		2 Digits in Called Office Code	Trunk Link Frame Tens 0		4
			Trunk Link Frame Tens 1		5
			Trunk Link Frame Tens 2		6
		3 Digits in Called Office Code	Trunk Link Frame Tens 0		7
			Trunk Link Frame Tens 1		8
			Trunk Link Frame Tens 2		9
			Random Trunk Selection		
FU§§		Trunk Link Frame Units or		0 Through 9	
	Filler Digit (CAMA Incoming Trunk)		0		

** Bypassed if rate treatment is not required (filler digit not required).

‡‡ Bypassed if not CAMA IMG or line link pulsing test (filler digit not required).

†† Bypassed if not CAMA IMG test (filler digit not required).

§§ FCTD and FU digits provide trunk link frame tens and units of APTT trunk link appearance for line link pulsing tests.



TABLE B (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUES 23 THROUGH 29)	PRIMING DIGIT
TRUNK PRIMING	TT	Trunk Tens 0 Within a Block (TB-) of 20 Trunks — First and Intermediate Trunk of Group or Line Link Pulsing Sleeve Lead Tens 0 or	0
		Trunk Tens 1 Within a Block (TB-) of 20 Trunks — First and Intermediate Trunk or Group or	1
		Trunk Tens 0 Within a Block (TB-) of 20 Trunks — Last Trunk in Group¶¶	2
		Trunk Tens 1 Within a Block (TB-) of 20 Trunks — Last Trunk in Group¶¶	3
		CAMA Trunks	
		Office Arranged for Less Than 500 CAMA Trunks, Maximum 2000 Trunk Numbers***	2
		Office Arranged for Less Than 500 CAMA Trunks, Maximum 4000 Trunk Numbers†††	
		Office Arranged for More Than 500 CAMA Trunks, Maximum 4000 Trunk Numbers†††	
		Office Arranged for More Than 500 CAMA Trunks, Maximum 2000 Trunk Numbers — Trunk Thousands 0	2
		Office Arranged for More Than 500 CAMA Trunks, Maximum 2000 Trunk Numbers — Trunk Thousands 1	3
	TU- SSN	Trunk Units Digit Within a Block (TB-) of 20 Trunks or CAMA Incoming or Intermarker Group, Access Switch Selecting Magnet Units Digit or Line Link Pulsing Sleeve Lead Units Digit	0 Through 9

¶¶ TT2 and TT3 are substituted for TT0 and TT1, respectively, for last trunk in a group to release the test frame.

*** The CAMA trunk thousands number is programmed as part of the access switch number (ASN) when circuit is arranged for less than 500 CAMA trunks and for a maximum of 2000 trunk numbers.

††† The CAMA trunk thousands number is programmed in incoming thousands (ITH) when circuit is arranged for a maximum of 4000 trunk numbers.



◆ TABLE C ◆

LINE DESIG		TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUE 30D AND LATER)	PRIMING DIGIT			
MARKER PRIMING	CRT LNF FIG	(Uppercase J) Carriage Return Line Feed Figures	Release Marker Priming To Set Typing Unit In Proper Condition To Receive Information			
	RET	Retest Digit*	0 Through 9			
	MKG	Marker Group Number	0 Through 2			
	TMT and TMU	Originating Calls	Translation Marks Tens and Units		TMT	TMU
			7-Digit Called Number, No Prefix (LT and OR Leads Grounded to Marker) or		0	0
			7-Digit Operator Assistance, TSP(S) 0 + 0 Filler Digits (LT and OR Leads Grounded to Marker) or		0	0
			10-Digit Called Number, No Prefix (LT and FAC Leads Grounded to Marker) or		0	1
			7-Digit Called Number With Prefix 1 or 11 (LT1 and OR Leads Grounded to Marker) or		0	2
			7-Digit Called Number 1+, TSP(S) (LT1 and OR Leads Grounded to Marker) or			
			10-Digit Called Number With Prefix 1 or 11 (LT1 and FAC Leads Grounded to Marker) or		0	3
			10-Digit Called Number 1+, TSP(S) (LT1 and FAC Leads Grounded to Marker) or			
			6-Digit Called Number, 2-Digit Office Code (2DT and OR Leads Grounded to Marker) or		0	5
			5-Digit Called Number, Centrex (FVD and OR Leads Grounded to Marker) or		0	6
			4-Digit Called Number, Centrex (X11 and OR Leads Grounded to Marker) or		0	7
			Home Office Test of Phase II Centrex Post-Transfer (Beta Circuits) (X11 and OR Leads Grounded to Marker) or			
7-Digit Called Number With Prefix 8 CCSA (LT3 and OR Leads Grounded to Marker) or			0	8		
7-Digit Called Number With 0+ Prefix TSP(S) (LT2 and OR Leads Grounded to Marker) or						
10-Digit Called Number With Prefix 8 CCSA (LT3 and FAC Leads Grounded to Marker) or		0	9			

* Retest digit is required when preparing tape to satisfy test circuit. (Digit 0 should be used.) Other digits will be perforated on retest tape as result of printout as determined by trouble or busy condition. Valid digits allowing for retest will be 0, 1, 2, 4, and 6.



TABLE C (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUE 30D AND LATER)	PRIMING DIGIT	
			TMT	TMU
MARKER PRIMING	TMT and TMU (Cont)	Translation Marks Tens and Units (Cont)		
		Originating Calls (Cont)	10-Digit Called Number With 0+ Prefix TSP(S) (LT2 and FAC Leads Grounded to Marker) or	0 9
		Incoming Calls	7-Digit Called Number (LT Lead Grounded to Marker) or	1 0
			10-Digit Called Number (TT Lead Grounded to Marker) or	1 1
			6-Digit Called Number (2DT Lead Grounded to Marker) or	1 2
			5-Digit Called Number LLP (FVD Lead Grounded to Marker) or	1 3
			Home Office Test of Phase III Centrex Post-Transfer (Beta Circuits) (FVD Lead Grounded to Marker) or	
			4-Digit Called Number LLP (OA Lead Grounded to Marker) or	1 4
			4-Digit Called Number LLP (OB Lead Grounded to Marker) or	1 5
			4-Digit Called Number LLP (PHC Lead Grounded to Marker) or	1 6
			4-Digit Called Number LLP (THC Lead Grounded to Marker) or	1 7
			7-Digit Called Number Toll (TT Lead Grounded to Marker) or	1 8
		7-Digit Called Number Centrex Intercom (2DT and FAC Leads Grounded to Marker)	2 0	
	A	1st Digit of Terminating Toll Center (TTC) for Intertoll Trunks Terminating in Home Numbering Plan Area (HNPA) or	0 to 1	
		1st Digit of Called Office Code for Local Trunks, CAMA Calls, or	2 Through 9	
		1st Digit of 3-digit Foreign Area Code (Non-CAMA Trunks) or		
		1st Digit of 5-Digit APTT Centrex Terminating Test Line Number (IAO Repeated Supervision Only [See TM 06]) or	2 Through 7	
		1st Digit of 5-Digit Station Number Served by Line Link Pulsing Trunk Under Test or		
		1st Digit of Intercepted Number AIS Service Call or		
		Operator Code — Home Office Test of Phase II Centrex Post-Transfer (Beta) Circuits (See TM 07)	0	
		Filler Digit for 4-Digit Called Number		
	B	2nd Digit of Called Office Code for Local Trunks or	0 Through 9	
		2nd Digit of TTC for Intertoll Trunks Terminating in HNPA or		
2nd Digit of 3-Digit Foreign Area Code (Non-CAMA Trunks) or				
Filler Digit for 4- and 5-Digit Called Numbers or		0		
2nd Digit of Intercepted Number AIS Service Call		2 Through 9		



TABLE C (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUE 30D AND LATER)						PRIMING DIGIT
		MARKER PRIMING	C	3rd Digit of Called Office Code for Local Trunks, CAMA Calls, or				
3rd Digit of TTC for Intertoll Trunks Terminating in HNPA or								
3rd Digit of 3-Digit Foreign Area Code (Non-CAMA Trunks) or								
3rd Digit of Intercepted Number AIS Service Call or								
OA or DDA	Filler Digit for 4-, 5-, and 6-Digit Called Numbers						0	
	1st Digit of Called Office Code in Foreign Numbering Plan Area (FNPA) or						2 Through 9	
	1st Digit of Calling Office Code for CAMA Calls or							
Filler Digit for 4-, 5-, 6-, and 7-Digit Called Numbers						0		
OB or DDB	2nd Digit of Called Office Code in FNPA or						2 Through 9	
	2nd Digit of Calling Office Code for CAMA Calls or							
	Filler Digit for 4-, 5-, 6-, and 7-Digit Called Numbers						0	
OC or DDC	3rd Digit of Called Office Code in FNPA or						0 Through 9	
	3rd Digit of Calling Office Code for CAMA Calls or							
	Filler Digit for 4-, 5-, 6-, and 7-Digit Called Numbers						0	
			Calls to Terminating Test Line Number (Last 4 Digits of Called Number) †	Code 10X Terminating Test Line (Tandem and Toll)	Automatic Intercept Calls Code 10X	Return Test Line No.		X
						4 6 7 or 10 Digit Calls	5 Digit Call	
NTH	Thousands		Hundreds	1	4th Digit Intept	Thousands	2nd Digit	0 Through 9
NH	Hundreds		Tens	0	Hundreds —	Hundreds	3rd Digit	
NT	Tens		Units	X	Tens 0	Tens	4th Digit	
NU	Units		Filler		Units X	Units	5th Digit	
X	Filler Digit for all Tests Except Line Link Pulsing, CAMA, Centrex, Home Office Test, and TSP(S)						0	
	CAMA	Home Office Test		Line Link Pulsing	Centrex			
	—	Test of Home Office Test Line ‡		—	—		3	

† When performing tests in ITDO class, these digits are required to reach a busy line, synchronous line, or nonsynchronous test line in a distance office. When performing test in which the circuit under test is terminated to the APTT terminating test line, these digits represent the number associated with the APTT test line.

‡ When testing Phase II centrex Beta or don't answer transfer units on home office test, use X digit 0 instead of 3.



TABLE C (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUE 30D AND LATER)				PRIMING DIGIT		
MARKER PRIMING	X (Cont)	Local Completion	—	Reverse Battery Supervision	IAO Trunk, No Transfer Feature (Used for Intra-centrex Service) Repeated Supervision Test	4		
		Tandem Completion	—	—	—	5		
		1011 Completion	—	—	—	6		
		—	—	E&M Lead Supervision	IAO Trunk — Centrex With Transfer Feature	7		
		TSP (S) Trunks				Non ANI	4	
						ANI	5	
		CCSA Trunks						
		CCSA Trunk Repeated Supervision			Local Originated	Tandem Originated		
					LT3	LT	4	
						TT	5	
						TT	6	
		CCSA Trunk No Repeated Supervision			LT3	LT	7	
						TT	8	
						TT	9	
CLT and CLU	Trunk Class Tens and Units				CLT	CLU		
	Test Call Originated From Toll Originating Test Line for: Intertoll Trunks or Toll Switching Trunk With Toll Appearance or Intermarker Group Trunk With Toll Appearance or				0	0		
	Outgoing or IAO Flat-Rate Trunk or				0	1		
	Outgoing or IAO Message Register Trunk§ or				0	2		
	Outgoing or IAO AMA Trunk Arranged to Initiate Disconnect Entry or				0	3		
	Outgoing or IAO Coin Trunk§ or				0	4		
	Outgoing or IAO Coin Trunk¶ or				0	5		
	Outgoing or IAO Message Register Trunk¶ or				0	6		
	Outgoing or IAO AMA Trunk Arranged to Omit Disconnect Entry or				0	7		
	Outgoing ANI Trunk or				0	8		

§ All nonwire-spring-relay type trunks and those wire-spring-relay type trunks associated with first 4-ipm interrupter.
¶ Wire-spring-relay type trunks associated with second 4-ipm interrupter.



TABLE C (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUE 30D AND LATER)	PRIMING DIGIT		
			CLT	CLU	
MARKER PRIMING	CLT and CLU (Cont)	Trunk Class Tens and Units (Cont)			
		Outgoing AMA Trunk for Subscriber Access to Intertoll Trunks or CCSA AMA Trunk, Subscriber Access, No Repeated Supervision to Local Customer or CCSA Off-Net Access Line (ONAL) or	0	9	
		Incoming CAMA Trunk, Operator Identified or	1	0	
		Incoming CAMA Trunk, Automatic Identification or	1	1	
		CAMA Junctor or	1	2	
		CAMA Intermarker Group Trunk Arranged to Initiate Disconnect Entry or	1	3	
		CAMA Intermarker Group Trunk Arranged to Omit Disconnect Entry or	1	4	
		Data AMA Operation or	1	5	
		Data Message Operation or	1	6	
		Line Link Pulsing Trunk or Home Office Test Line Test or	1	7	
		IAO Trunks Without Repeated Supervision, Transfer Test of Distant Office Incoming Centrex Trunks or Home Office Centrex Test Lines or	1	8	
		Outgoing Flat-Rate Trunk, Subscriber Access to Intertoll Trunk or CCSA Flat-Rate Trunk, Subscriber Access, No Repeated Supervision to Local Customer or	1	9	
		Centrex, Repeated Supervision IAO Trunk or	2	0	
		Tandem (Through-Switched) Operation (Test Call Originated From Tandem Originating Test Line) or	2	1	
		Automatic Intercept Service Trunk	2	7	
		CCSA Flat-Rate Trunk, Subscriber Access, Repeated Supervision to Local Customer or	2	8	
		CCSA AMA Trunk, Subscriber Access, Repeated Supervision to Local Customer or	2	9	
		CCSA Trunk or ONAL, Tandem Access (CCSA 103 Test Termination) or	3	0	
		CCSA Trunk, Repeated Supervision to Local Customer, Centrex Transfer Feature in Distant Office Trunk, Subscriber Access or	3	1	
		Junctor Circuit for Use as CCSA Off-Net Access Line (LONAL) or	3	2	
		Toll Through-Switched Operation to Centrex Transfer Test Line or	3	3	
		Coin Only Trunks to Centrex Transfer or Don't Answer Transfer Test Line or	3	4	
		Centrex, Repeated Supervision IAO Trunk Arranged for Disconnect Entry	3	5	
		Centrex, Repeated Supervision IAO Trunk Arranged to Omit Disconnect Entry	3	6	
		Centrex, Repeated Supervision IAO Trunk Flat Rate	3	7	



TABLE C (Cont)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUE 30D AND LATER)		PRIMING DIGIT			
				CLT	CLU		
MARKER PRIMING	CLT and CLU (Cont)	Trunk Class Tens and Units (Cont)					
		Centrex, Repeated Supervision IAO Trunk Transfer Test		3	8		
		Trunk Equipped With AMA for Traffic Sampling or		3	9		
		Outgoing Trunks to TSP(S)					
		TSPS Trunks, Non-Coin, Without Toll Diversion, Hi-Lo Supervision or		4	0		
		TSPS Trunks, Non-Coin, With Toll Diversion, Hi-Lo Supervision or		4	1		
		TSPS Trunks, Non-Coin, Without Toll Diversion, E and M Supervision or		4	2		
		TSPS Trunks, Non-Coin, With Toll Diversion, E and M Supervision or		4	3		
		TSPS Coin Trunks, With Coin Service Improvements (Dial Tone First), Hi-Lo Supervision or		4	4		
		TSPS Coin Trunks, With Automatic Coin Return, Without Dial Tone First, Hi-Lo Supervision or		4	5		
		TSPS Coin Trunks, Without Dial Tone First or Automatic Coin Return, Hi-Lo Supervision or		4	6		
		TSPS Coin Trunks, With Dial Tone First, E and M Supervision or		4	7		
		TSPS Coin Trunks, With Automatic Coin Return, Without Dial Tone First, E and M Supervision or		4	8		
		TSPS Coin Trunks, Without Dial Tone First or Automatic Coin Return, E and M Supervision		4	9		
		CCSA Trunk, Repeated Supervision Arranged for AMA Traffic Sampling or		5	0		
		CCSA LONAL Circuit for AMA Traffic Sampling		5	1		
		LLP Trunks — 6-Digit Number		6	0		
		TIT and TIU	Trunk Information Tens and Units		TIT	TIU	
	Test Line Test		Incoming Trunk Distant Office	Outgoing Trunks to Synchronous Test Line, Crossbar or Panel Offices or		0	0
				Outgoing Trunk to Nonsynchronous Test Line, Panel Office or		0	1
Outgoing Trunk to Step-by-Step Test Line, Step-by-Step Office or				0	2		
Home Office Test Line	Test of SD-27640-01 Synchronous Test Line (POTS) or Phase II or III Centrex Pretransfer (Alpha) Circuits or		0	0			
	Test of SD-25771-01 Synchronous Test Line (POTS) Only) or		0	2			
	Phase II or III Centrex Post-Transfer (Beta) Circuits or		0	4			



TABLE C (Contd)

LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUE 30D AND LATER)		PRIMING DIGIT				
	Trunk Information Tens and Units (Cont)		TIT	TIU			
MARKER PRIMING	TIT and TIU (Cont)	Return Test Line Test	Outgoing Trunks to Crossbar, Panel, or Step-by-Step Offices or	0	0		
			Intermarker Group, Subscriber-to-Subscriber Trunk, Reverse Battery Supervision, Outgoing Junctor or	0	3		
			Outgoing Trunk to Manual Office (PCI) or Line Link Pulsing Trunk or	0	4		
		Continuity and Polarity Test	Outgoing Trunk to Crossbar, Panel, or Step-by-Step Offices or	0	0		
			Outgoing Trunk to Manual Office (PCI) or	0	4		
		Continuity and Polarity Test Reversed Battery Supervision	Outgoing Trunk to Crossbar, Panel, or Step-by-Step Offices	0	1		
		Busy Line Test	Outgoing Trunk to Crossbar, Panel, or Step-by-Step Offices or	0	0		
			Intermarker Group, Subscriber-to-Subscriber Trunk, Reverse Battery Supervision, or Outgoing Junctor or	0	3		
		Intermarker Group to Marker Group 0 or	Subscriber-to-Subscriber Trunks	0	6		
		Intermarker Group to Marker Group 100 or		0	7		
		Intermarker Group to Marker Group 200 or		0	8		
		Intraoffice Trunk or		0	5		
		Outgoing Intertoll Trunks to Code 103 Test Trunk in Distant Office or		0	9		
		CAMA Calls	Non-Bylink Incoming Trunk Ground Shunt or	TSPS Calls	Trunks Using Recall Condition of Positive and Negative Potential or	1	0
			Non-Bylink Incoming Trunk, No Ground Shunt or		Trunks Using Recall Condition of Single Wink on M Lead or	1	1
			Bylink Incoming Trunk, E and M Lead Supervision or		Trunks Using Recall Condition of Multiple Winks or	1	2
Bylink, Incoming Trunk, Loop Signaling Over a 0- to 1750-Ohm Loop, 1000-Ohm Compensation Required or	Trunks Using Recall Condition of Flashes or		1		3		



TABLE C (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUE 30D AND LATER)				PRIMING DIGIT		
		Trunk Information Tens and Units (Cont)				TIT	TIU	
MARKER PRIMING	TIT and TIU (Cont)	CAMA Calls (Cont)	Bylink, Incoming Trunk Loop Signaling Over a 1750- to 4200-Ohm Loop, 1000-Ohm Compensation Not Required or Bylink, Incoming Code Selector, or Intramural Trunk (Distant Step-by-Step Office Within Same Building) or Intermarker Group Trunk or CAMA Junctor or	TSPS Calls (Cont)	Trunks Using Recall Condition of In-Band Signaling	1	4	
						1	5	
						1	6	
		Transmission Tests	Equivalent 104 Terminating Test Line or				1	7
			Equivalent 105 Terminating Test Line or				1	8
			Equivalent 102 Terminating Test Line or				1	9
			Equivalent 100 Combined Milliwatt-Balance Terminating Test Line or				2	0
		Incoming Trunk Distant Office (Special) 900-Ohm Trunk Test	To POTS Synchronized Test Line or				2	6
			To FTS Synchronized Test Line or				2	7
		Subscriber Class-Transmission Test To Code 10X Test Termination (FE digit determines which Test Termination is used)					2	9
	AGRA	Line Link Pulsing Trunk Group Not Allotted Between Number Groups					0	
		LLP Trunk Group Allotted Between Number Groups	Trunk Allotter Group	Number of Times Marker to Route Advance	ETS — Flexible Trunk Assignments — Trunk Blocking of Trunk			
		NGTA	—	—	1		1	
		NGTB	—	—	2		2	
		NGTC	—	—	3		3	
		NGTD	A or None	0	4		4	
		NGTE	A or None	1	5		5	
		NGTF	A or None	2	6		6	
NGTG		B	0	7		7		
NGTH		B	1	8		8		
—	B	2	9		9			



TABLE C (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUE 30D AND LATER)		PRIMING DIGIT	
MARKER PRIMING	CRG**	Rate Treatment Class Group A Tens or		0	
		Rate Treatment Class Group B Tens		1	
	CRU**	Rate Treatment Class Units		0 Through 9	
		Toll or Tandem Testing			
	CST††	Non-CAMA Trunks, Outgoing Junctors, and CAMA Junctors — Class-of-Service Tens (Local Originating Test Line)		0 Through 9	
		Trunk No. Thousands Digit of APTT Appearance of Toll and Tandem Originating Test Line Office Arranged for a Maximum of:		Class Group Lead Grounded to Marker	
			2000 Trunk Numbers	4000 Trunk Numbers	
		0	Trunk Number for Toll and Tandem Testing is Hard- Wired When a Maximum of 4000 Trunk Numbers is Provided		TCA 0
					TCB 1
					TCC 2
		1			TCA 3
					TCB 4
				TCC 5	
	CSU††	Non-CAMA Trunks, Outgoing Junctors, and CAMA Junctors — Class-of-Service (Local Originating Test Line) or		0 Through 9	
		Toll or Tandem Testing or		0	
		TAN Class Lead Grounded to Marker or			
		TAN 1 Class Lead Grounded to Marker or		1	
		TAN 2 Class Lead Grounded to Marker or		2	
TAN 3 Class Lead Grounded to Marker or		3			
TAN 4 Class Lead Grounded to Marker or		4			
TOL Class Lead Grounded to Marker or		5			
INC Class Lead Grounded to Marker or		6			
PCR Class Lead Grounded to Marker or		7			
PCD Class Lead Grounded to Marker or		8			
PCD 1 Class Lead Grounded to Marker		9			

** Bypassed if rate treatment is not required (filler digit not required).

†† CST, CSU not used when testing CAMA incoming or intermarker trunks (filler digit not required).

CST, CSU is part of trunk priming for CAMA junctors; for all non-CAMA trunks, CST, CSU is marker priming.



TABLE C (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUE 30D AND LATER)					PRIMING DIGIT		
TRUNK PRIMING	ASN††	CAMA Incoming and CAMA Intermarker Group Testing							
		Trunk No. Thousands Digit Office Arranged for			CAMA Access Switch No.				
		2000 Trunk Nos. Max.		4000 Trunk Nos. Max.	Circuit Arranged for up to 500 CAMA Trunks	Circuit Arranged for up to 1000 CAMA Trunks			
		500 Max. Trunks	1000 Max. Trunks	500 Max. Trunks				1000 Max. Trunks	
		When Trunk No. Thousands Digit is 0	Thousands Digit is Programmed as Part of TT Digit When Arranged for More Than 500 CAMA Trunks and a Maximum of 2000 Trunk Numbers	Thousands Digit is Programmed in ITH Digit When Arranged for a Maximum of 4000 Trunk Numbers		0		0	0
					1	1		1	
					2	2		2	
					3	3		3	
					4	4		4	
					0	5		5	
					1	6		6	
					2	7		7	
			3	8	8				
		4	9	9					
	ASH	CAMA Incoming and CAMA Intermarker Group Access Switch Hold Magnet Number				0 Through 9			
TRANSMISSION PRIMING	FET†††	Far End Equipment — Combined Milliwatt and Balance Termination Test Line				0			
		Far End Equipment — Milliwatt Supply				2			
		Far End Equipment — Transmission Measuring and Noise Checking Circuit (SD-95698-01)				4			
		Far End Equipment — Automatic Transmission Measuring System Responder				5			
	TPL†††	No Test Pad Required				0			
		2dB Test Pad Required				2			
	DBH†††	Estimated Measured Loss Tens		For All Transmission Tests Except 104 Types, EML Range is 0.0dB to 11.3dB in Steps of 0.1dB. For 104 Types, EML Range is 0.0dB to 5.6dB in Steps of 0.1dB. (Cue 2 Indications may occur with EML above 3.8dB.)		0, 1			
	DBT†††	Estimated Measured Loss Tenths							
	DBU†††	Estimated Measured Loss Units							
	LDT†††	Loss Deviation Tenths							
LDU†††	Loss Deviation Units				0 Through 9				

†† ASN, ASH are entered only when testing CAMA incoming or intermarker group trunks. The CAMA trunk thousands number is programmed as part of the access switch number (ASN) when circuit is arranged for less than 500 CAMA trunks and as part of the trunk tens (TT) digits when arranged for more than 500 CAMA trunks.
 ††† Bypassed for non transmission testing (used only to prime ATMS for transmission tests).



TABLE C (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUE 30D AND LATER)		PRIMING DIGIT
TRANSMISSION PRIMING	NRT¶¶	Noise Reference Tens	Noise Maintenance Limits Range is 20dBrnc to 48 dBrnc in 1 dB Steps.	0 Through 9
	NRU¶¶	Noise Reference Units		
	NDL¶¶	Noise Deviation Limits	Noise Deviation Limit -0 dB is the Only Value Approved for Use.	
	ANT¶¶	Absolute Noise Tens	Noise Immediate Action Limits Range is 30 dBrnc to 48 dBrnc in 2 dB Steps.	
	ANU¶¶	Absolute Noise Units		
	DR¶¶	Do Not Peg ATMS Deviation Registers		0
	Peg ATMS Deviation Registers		1	
TRUNK PRIMING	ITH§§	CAMA Intermarker Group Trunk Number Thousands Digit		0 Through 3
	IHT§§	CAMA Intermarker Group Trunk Number Hundreds Digit or		0 Through 9
		Line Link Pulsing — Tens Block of Number Group		
	ITT§§	CAMA Intermarker Group Trunk Number Tens Digit or		0 Through 9
		Line Link Pulsing — Tens Block Units of Number Group		
	IUT§§	CAMA Intermarker Group Trunk Number Units Digit		0 Through 9
	TH	Traffic Assigned Number, Thousands Digit***, †††		0 Through 9
	HN	Traffic Assigned Trunk Number, Hundreds Digit***, †††		0 Through 9
	TEN	Traffic Assigned Trunk Number, Tens Digit***, †††		0 Through 9
	UNT	Traffic Assigned Trunk Number, Units Digit***		0 Through 9
	FTCD†††	Trunk Link Frame Tens Digit		0 Through 2
		Trunk Link Frame Tens Digit of APTT Trunk Link Appearance for Line Link Pulsing or Home Office Test or		
		Filler Digit for CAMA Incoming Tests		
	FU†††	Trunk Link Frame Units Digit or		0 Through 9
		Trunk Link Frame Units Digit of APTT Trunk Link Appearance for Line Link Pulsing or Home Office Test or		
Filler Digit for CAMA Incoming Tests				

¶¶ Bypassed for non transmission testing (used only to prime ATMS for transmission tests).

§§ Bypassed if not CAMA IMG test (filler digit not required).

*** Refer to circuit record card or trunk layout card for trunk number.

††† If traffic assigned trunk number is less than 4 digits, use an uppercase M (.) as a filler digit.

††† Bypassed on remote office test or on random selection calls (filler digit not required).



TABLE C (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUE 30D AND LATER)		PRIMING DIGIT
TRUNK PRIMING	TT†††, §§§	Trunk Tens 0 Within a Block (TB-) of 20 Trunks or Line Link Pulsing Sleeve Lead Tens Digit 0 or		0
		Trunk Tens 1 Within a Block (TB-) of 20 Trunks		1
		CAMA Trunks		0
		Office Arranged for Less Than 500 CAMA Trunks, Maximum 2000 Trunk Numbers††††		
		Office Arranged for Less Than 500 CAMA Trunks, Maximum 4000 Trunk Numbers****		
		Office Arranged for More Than 500 CAMA Trunks, Maximum 4000 Trunk Numbers****		0
		Office Arranged for More Than 500 CAMA Trunks, Maximum 2000 Trunk Numbers — Trunk Thousands 0		
		Office Arranged for More Than 500 CAMA Trunks, Maximum 2000 Trunk Numbers — Trunk Thousands 1		1
		TU†††, §§§ or SSN	Trunk Units Digit Within a Block (TB-) 20 Trunks or	
	CAMA Incoming or CAMA Intermarker Group Trunk, Access Switch Selecting Magnet Units Digit or			
	Line Link Pulsing Sleeve Lead Units Digit			
	RDA††††	No. 5 Crossbar ROTL		Step-by-Step ROTL
		Transmission Test With ATMS		Transmission Test With ATMS
		Operational Test		Operational Test
	RDB††††	Trunk Link Frame Units		0 Through 9

††† Bypassed on remote office test or on random selection calls (filler digit not required).

§§§ Bypassed on home office test line test (filler digit not required).

†††† The CAMA trunk thousands number is programmed as part of the access switch number (ASN) when circuit is arranged for less than 500 CAMA trunks and for a maximum of 2000 trunk numbers.

**** The CAMA trunk thousands number is programmed in incoming thousands (ITH) when circuit is arranged for a maximum of 4000 trunk numbers.

†††† Information digits outputted to the ROTL, not put on tape for non-ROTL (filler digit not required).



TABLE C (Contd)

	LINE DESIG	TRUNK SELECTING AND CONTROL INFORMATION (APTT WITH TAPE SIMPLIFICATION, ISSUE 30D AND LATER)			PRIMING DIGIT	
		Trunk Link Frame Tens	Trunk Tens — Within Block of 20 Trunks	Route Translation Tens		
TRUNK PRIMING	RDC††††	0	0	0	0	
		1	0	0	1	
		0	1	0	2	
		1	1	0	3	
		0	0	1	4	
		1	0	1	5	
		0	1	1	6	
		1	1	1	7	
					Test Selector Vertical Level	0 Through 9
	RDD††††	Trunk Units — Within Block of 20 Trunks			Test Selector Horizontal Terminal	0 Through 9
	RDE††††	Route Translation Units				0 Through 9
					Prepare to Outpulse	2

†††† Information digits outputted to the ROTL, not put on tape for non-ROTL (filler digit not required).



TABLE D

TELETYPEWRITER CONTROL CHARACTER DEFINITIONS

< (Carriage return)	These are used wherever they are needed to control teletypewriter functions. (See dual usage of \uparrow , figures shift.)
\equiv (Line feed)	
\uparrow (Figures shift)	
— (Uppercase A)	ROTL responder trunk group signal. Precedes each responder trunk group having same transmission characteristics. Prepares the self-check signal to ATMS at beginning of each responder group.
? (Uppercase B)	ROTL responder trunk group signal. Clears previously stored marker and/or transmission priming, and prints and stores digits for new ROTL responder group.
# (Uppercase H)	Start copy signal. Permits preamble or caption information to be perforated and printed on tapes. This information will appear on page printout but will not prime the test circuit.
// (Uppercase Z)	Stop copy signal. Removes the teletypewriter from the copy mode. Information then perforated and printed on tapes will contain machine instructions, which will be absorbed by the APTT, and priming information for the test circuit.
∇ (Uppercase J)	Clears previously stored MARKER PRIMING information and prints and stores the following digits. (This is only a control character when the teletypewriter is <i>not</i> in the copy mode.)
\uparrow (Figures shift)	When the teletypewriter is <i>not</i> in the copy mode, this character unlocks the steering chain. It must immediately precede the digits to be registered (MARKER PRIMING, TRANSMISSION PRIMING, TRUNK PRIMING). In addition, it causes a symbol or number to be printed. For example, upper case H = #.
< \equiv \uparrow	This combination will normally precede the digits of a new priming entry; it serves to columnize printout on copying and the \uparrow character unlocks the chain.
((Uppercase K)	Clears previously stored TRANSMISSION PRIMING information and stores the following digits. (This is only a control character when the teletypewriter is <i>not</i> in the copy mode.)
• (Uppercase M)	Trunk Priming. Trunk Number, Issue 30D and later — Use in leading positions when traffic assigned trunk number is less than 4 digits, eg, .45.

Summation:

Before preamble, caption, or subcaption: # < \equiv

At end of preamble, caption, or subcaption: //

Before MARKER PRIMING: ∇ < \equiv \uparrow Before TRANSMISSION PRIMING (following MARKER PRIMING): (\uparrow Before each trunk entry: < \equiv \uparrow When changing TRANSMISSION PRIMING only, before new digits: (< \equiv \uparrow















TAPE PREPARATION WORKSHEET
 NO. 5 CROSSBAR APTT FRAME
 SD - 25938 - 01, ISSUE 30 AND LATER, WITH TAPE SIMPLIFICATION

BSP 218 - 220 - 301
 218 - 220 - 303
 800 - 102 - 100

E - 6122 (11/73)
 Sheet 1 Of 1
 Date 6-29-77
 Tape Type OP2

GROUPING METHOD			
F	TF	✓	T

TEST GROUP FACILITY

TEST LINE TYPE
103

ACCESS MODE

CAPTION INFORMATION																													
TTY		ORIGINATING OFFICE								TERMINATING OFFICE								TRUNK TYPE		TTY									
↑	*	TOWN	STATE	BLDG	UNIT	PULSING	TOWN	STATE	BLDG	UNIT	TRAFFIC CLASS	OFFICE CLASSES	TRAFFIC USE	MODIFIER			<	≡											
↑	#	M	I	A	M	FL	4	A	4	A	T	MM	M	I	A	M	FL	M	A	6	4	2	DF	3	5	T	C	<	≡
TTY		TEST GROUP	FACILITY IDENTIFICATION								FACILITY TERMINAL				TTY														
<	≡	FACILITY	NUMBER	TYPE				TOWN	STATE	BLDG.	↑	*	<	≡															

INDICATES SPACE

TTY		MARKER PRIMING																										
↑	'	RET	MKG	TMF	TMU	A	B	C	OA/DBA	OB/DBB	OC/DBC	NTH	NH	NT	NU	X	CLT	CLU	TIT	TIV	AG-RA	CRG	CRU	CST	CSU			
↑	'	<	≡	↑	∅	∅	1	∅	6	4	2	4	2	8	1	∅	3	∅	4	∅	∅	∅	9	7	∅	∅	∅	∅

TTY		TRANSMISSION PRIMING											
↑	<	FE	TPL	EML	LOSS DEV	NOISE M.L.	NDL	NOISE I.A.L.	DR				
↑	<	≡	↑	∅	∅	∅	∅	∅	∅				

TTY		TRUNK PRIMING															
<	≡	ASN CST	ASH CSU	ITH	IHT	ITT	IUT	TRUNK NUMBER	FT/RDA	FU/RDB	TY/RDC	TU/RDD	RDE	#	CHAN NO.	KT	
<	≡	↑	∅	4				•••	9	∅	∅	∅	2				
<	≡	↑	∅	5				••	1	6	∅	∅	∅	3			

TTY		TRUNK PRIMING															
<	≡	ASN CST	ASH CSU	ITH	IHT	ITT	IUT	TRUNK NUMBER	FT/RDA	FU/RDB	TY/RDC	TU/RDD	RDE	#	CHAN NO.	KT	
<	≡	↑															

NOTE: INFORMATION IN SHADED AREAS SHALL NOT BE PERFORATED ON THE TAPE

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Fig. 7

