

ELECTRONIC SWITCHING SYSTEM NO. 3  
OFFICE DATA TABLES LAYOUT SPECIFICATION  
FOR OFFICES EQUIPPED WITH THE 3E3  
GENERIC PROGRAM

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## ISSUE NOTES

ISSUE	CHANGE CLASS	APERCVAL		DESCRIPTION OF CHANGE
		ENGR	DATE	
1	-	DSA (7127)	11-1-79	Original Issue (including LDIs 1 to 5)
2	A	JRW (7414)	2-1-80	Additional changes per LDI 5 (on pg. 200-10, valid expansion entries for 2-pty lines added; on pg. 600-6, note for CCTBL corrected; on pg. 800-9, TLUID layout corrected). Other miscellaneous changes.
3	A	JRW (7414)	8-1-80	Additional changes per LDI 6. Editorial corrections to (sections 100, 200, 300, 500, 600, 700 & 800). Esign change to section 700. Add ANATID new identifier for AMARC. Add bit NW_ANA to OFF_DATA.

## SECTION INDEX

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GENERAL NOTES

1. MAIN STORE LAYOUT - The following figure shows the layout of MAIN STORE in a No. 3 BSS office equipped with the 313 Generic.

ADDRESS		SIZE (K=1024)
0	GENERIC	PROGRAM STORE 4K (4096)
4096	GENERIC ASSIGNED TEMPORARY STORE	TEMPORARY STORE 32K (32768)
29696	TRANSLATION ASSIGNABLE TEMPORARY STORE (7168)	
36864	GENERIC	PROGRAM STORE 100K (102400)
139264	MTI	TRANSLATION STORE
	VARIABLE DATA	120K MAX. (122880)
262143 MAX		

## GENERAL NOTES (continued)

2. TAPE LAYOUTS - Tape layouts describing the "TRANSLATION" file and REMARKS" file are controlled by J3H001T-1. The ODA must produce these two files.
3. SIZE OF 3E3 TRANSLATIONS - The maximum size of translations is 122,880-1 words, which is a tape limit. The number of spare words in the "SFARES" MTI plus the number of words used in translations cannot exceed the 122,800 -1 limit (120K = 122880). See also Figure 1, Note 10 and Figure 31D, Note 3.
4. ORDER OF ODA PROCESSING - The use of the ICS bit in CPF\_DATA (Fig. 23A) to determine the default condition in Speed Call change (Fig. 2C, Note 4, bits CHL & CHF, and Fig. 2C, Note 9) requires that OFF\_DATA be established by the ODA before line data is processed; e.g., ESS 3500 forms must be processed before ESS form 3100, 3105 or 3107 forms.
5. In this document, all numbers are given in decimal, unless otherwise qualified. The suffix K equals 1024 (as in 136K = 139,264).
6. In this document, whenever a BCD 0 is to be stored, it is stored as a binary 1010.

PA-38303

SECTION 100

NASIES TABLE INDEX

INDEX OF FIGURES

Figure 1 - NTI (Alphabetical, Sequential)

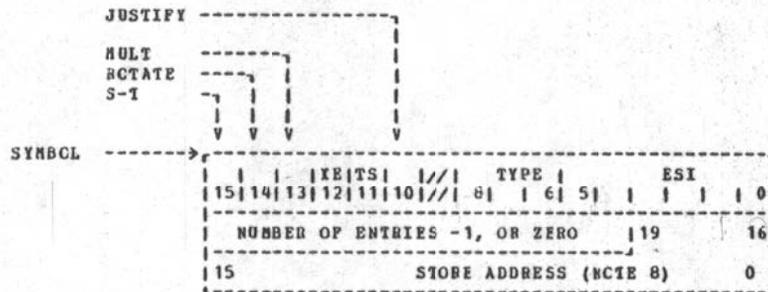
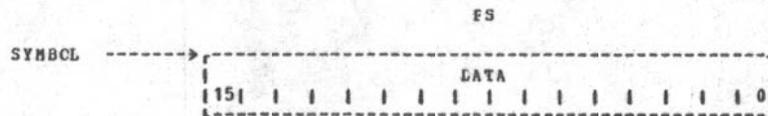
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PAGE 1

FIG. 1 MASTER TABLE INDEX (MTI)

TYPES OF MTI ENTRIES:



- ESI = Entry Size Indicator (see MULT below).
- JUSTIFY Used when ROTATE = 1.
  - = 0 Do not right justify the entry.
  - = 1 Right justify the entry.
- MULT = 0 If ROTATE = 0, then ESI =  $\log_2$  (no. of words per entry).
  - If ROTATE = 1, then ESI =  $\log_2$  (no. of entries per word).
 = 1 MULTIPLY - ESI = no. of words per table entry - 2.
- ROTATE See MULT above.
- S-I = 0 Translation Table - ESI = (see MULT above).
  - = 1 Search Table - ESI = no. of words per table entry.
- TYPE = Type of translation table. If there is only one type, TYPE = 1.
- TS = 0 Address points to program store.
  - = 1 Address points to temporary store.
- YE = 0 Translator is not defined.
  - = 1 Translator exists.
- \*NO. OF ENTRIES\* = Number of entries -1, if YE=1  
 = zero, if YE=0

FIG. 1 (continued) - MASTER TABLE INDEX (MTI)

## ALPHABETICAL LIST OF THE MTI:

<u>TRANSLATOR NAME</u>	<u>SIZE (WORDS)</u>	<u>STARTING LOCATION</u>	<u>SECT-FIG</u>	<u>NOTE</u>
ALITWRD	1	420075	700-25	
ANA_EOF	3	421124	700-24	
AMATID	2	421100	700-23D	
ARIEXP	3	421402	600-18A	
BOSCAN	1	420101	800-35A	
CALLBACK	3	421344	700-28B	
CCTBL	3	421333	600-16B	
CDIEXP	3	421371	600-16A	
CFLST	3	421322	300-8B	
CFTBL	3	421127	300-8A	
CHARGEIB	16	420102	600-19	
CKTSCAN	258	420122	800-34	3
CLSRV	8	420524	800-33A	
COLLST	3	421325	400-11B	
CCINSTAT	3	421135	300-9B	
COINTRIP	3	421405	300-9A	
CP_FEM	1	420534	800-35F	
CUTSTAY	3	421341	700-27	
DSYBLK	7	420535	800-33C	
DIDAETA	1	420544	700-23J	11
EQIOCHAN	3	420000	800-29B	2, 11
EQHISNCE	1	420074	800-29C	
EQPT_PE	32	420545	800-35E	
EXPTBL	3	421440	400-11A	
FATTBL	12	421355	600-16	
FETL	2	421073	700-23H	
GRSTAT	12	421140	500-13	
GRPTBL	12	421410	500-12A	
IBLK	3	420605	800-33B	
INTCHG	1	420610	600-19A	
LHPATBL	4	420611	700-22B	
JCT_BATZ	1	420076	700-26A	
LCCTBL	3	421336	700-21	
LOG_SCAN	1	420615	800-35B	
LSITSWBD	2	420011	800-31A	2

FIG. 1 (continued) - MASTER TABLE INDEX (MTI)

## ALPHABETICAL LIST OF THE MTI:

<u>TRANSLATOR NAME</u>	<u>SIZE (WORDS)</u>	<u>STARTING LOCATION</u>	<u>SIC-FIG.</u>	<u>NOTE</u>
MEHLST	12	421424	500-15	
MASTYPE (SPARE)	1	420616	800-35H	
MRTBL	3	421132	300-7	
MSGCL	46	420617	700-28A	
MT_FEM	1	420677	800-35G	
NETWEQPT	1	420700	800-35C	
NETWMT	1	420701	800-35D	
NOCBCD	8	420702	700-22A	
NOCD	24	421451	400-10A	
NCTEST	4	421066	700-23G	
NPAFAT	4	420712	700-22C	12
OFFICE	6	420721	700-23B	
OFF_DATA	3	420716	700-23A	
OIEXP	16	420731	200-2E	
RIEXP	3	421377	600-18	
SBILTBL	3	421330	200-2D	
SCHEDINH	16	420751	700-26D	11
SCRSIZE	1	420771	700-23E	
SC1LST	3	421314	300-5	
SC2LST	3	421317	300-6	
SCTBLS	3	421374	600-17	
SKEDBLK	15	420772	800-33E	
SPABES	3	421633	800-31D	7
SPDATA	16	421102	---	6
SPTBL	3	421443	200-2	
SPINPMII	90	421157	---	6
SFXLAMTI	90	421501	---	6
SIRLIM	(2)	421637	800-31B	5
SIRLMT	3	421636	800-31B	5
SVC_RATE	1	420077	700-26B	
SVCTBL	3	421446	200-4	4
SV_TBL	(2)	421447	200-4	4
TAPROPTS	1	420003	800-30A	

FIG. 1 (continued) - MASTER TABLE INDEX (MTI)

## ALPHABETICAL LIST OF THE MTI:

<u>TRANSLATOR NAME</u>	<u>SIZE (WORDS)</u>	<u>STARTING LOCATION</u>	<u>SECT-FIG</u>	<u>NOTE</u>
TAPEQUE	1	420004	800-30B	2
TAPEQUC	1	420005	800-30C	2
TAPETBL	3	420006	800-30D	2
TLTPL	2	421064	700-23F	
TLUID	16	421044	800-33D	
TOIANTBL	3	421347	500-12E	
TRAFD	27	421011	800-33F	
TRK_RATE	1	420100	700-26C	
TRKSCAN	(192)	420224	800-34	3
TSFABE	3	421311	800-31C	7
TUTTL	1	421072	700-23I	
→ TICPBS	33	420033	800-29A	
WEECW	3	421075	700-23C	
WPTBL	16	420013	800-32	
1DGIBL	3	421352	600-20	2
3PCSTAI	3	421154	500-14	

FIG. 1 (continued) - MASTER TABLE INDEX (MTI)

SEQUENTIAL MEMORY LAYOUT OF THE MTI: (NOTE 11)

<u>STARTING LOCATION</u>	<u>TRANSLATOR NAME</u>	<u>SIZE (WCDS)</u>	<u>NOTE</u>
420000	ECIOCHAN	3	2,11
420003	TAPECFIS	1	2
420004	TAPEQUE	1	2
420005	TAPEQUC	1	2
420006	TAPEEII	3	2
420011	LISTISABD	2	2
420013	WEIBL	16	2
420033	TICPEB	33	
420074	ECMISEPCD	1	
420075	ALITWEL	1	
420076	JCT_RATE	1	
420077	SVC_RATE	1	
420100	TBK_RATE	1	
420101	BCSCAN	1	
420102	CHARGITE	16	
420122	CRISCAN	258	3
420224	TBKSCAN	(192)	3
420524	CISBV	8	
420534	CE_PEP	1	
420535	ESYBLK	7	
420544	ETDACTA	1	11
420545	ECFT_EC	32	
420605	IELK	3	
420610	INTCHG	1	
420611	LINEATEL	4	
420615	LCG_SCAN	1	
420616	MASIVEE (SPARE)	1	
420617	MSGCL	48	
420677	MT_PEP	1	
420700	NETWECPT	1	
420701	NETWMT	1	
420702	NCCBCE	8	

CONTAINS  
DATA

FIG. 1 (continued) - MASTER TABLE INDEX (MTI)

## SEQUENTIAL MEMORY LAYOUT OF THE MII:

<u>STARTING ADDRESS</u>	<u>TRANSLATOR NAME</u>	<u>SIZE (WORDS)</u>	<u>NOTE</u>	
420712	NEAFAT	4	12	
420716	OFF_DATA	3		
420721	CIFFCI	8		
420731	CIEXP	16		
420751	SCHECINH	16		
420771	SCBSIZE	1	CONTAINS DATA	
420772	SFECBIK	15		
421011	TEAFE	27		
421044	TICID	16		
421064	TITPL	2		
421066	NCIEST	4		
421072	TUTL	1		
421073	FITL	2		
421075	WPCN	3		
421100	AMAIIE	2		
421102	SFDATA	18	6	
421124	AMA_BUF	3	CONTAINS TEMPORARY STORE ADDRESSES	
421127	CFIBL	3		
421132	MFIBL	3		
421135	CCINSTAT	3		
421140	GFESTAT	12		
421154	3FCSTAT	3		
421157	SFTRFRTI	90		6
421311	TSPARE	3		7
421314	SC1LS1	3		
421317	SC2LS1	3		
421322	CF1LS1	3		
421325	CC1LS1	3		
421330	SE1LTEL	3		
421333	CC1BL	3	CONTAINS PROGRAM STORE ADDRESSES	
421336	LCCTEL	3		
421341	CU1STAT	3		
421344	CALLBACK	3		
421347	TCTANTBL	3		
421352	1LCTEL	3		
421355	FATTEL	12		
421371	CDIEIF	3		
421374	SC1BL	3		

FIG. 1 (continued) - MASTER TABLE INDEX (MTI)

SEQUENTIAL MEMORY LAYOUT OF THE MTI:

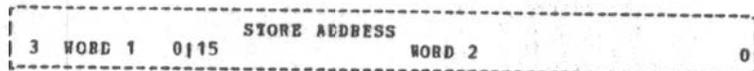
<u>STARTING LOCATION</u>	<u>TRANSLATOR NAME</u>	<u>SIZE (WORDS)</u>	<u>NOTE</u>
421377	SIEXE	3	
421402	AEIEXP	3	
421405	CCINTEIP	3	
421410	GRPIEL	12	
421424	RELSI	12	
421440	EXPIEL	3	
421443	SETBI	3	
421446	SVCTEL	3	4
421447	SV TEL	(2)	4
421451	KCCD	24	
421501	SEXLANTI	90	6
421633	SEABES	3	7
421636	STRIP	3	5
421637	STRIM	(2)	5

CONTAINS  
PROGRAM STORE  
ADDRESSES

FIG. 1 (continued) - MASTER TABLE INDEX (MTI)

## NOTES:

1. The Master Table Index (MTI) is a fixed area of program store which contains or provides linkage to the various parameters and translation data for the generic program. This area is used for the MTI entries listed or reserved for future MTI entries. This area may not be used for any other purpose.
2. These data words are generic defined and are not changeable through the recent change programs.
3. CKTSCAN includes the 192 words for TRKSCAN.
4. The 3 words for SVCTBL includes the 2 words for SV\_TBL.
5. The 3 words for SIBLMT includes the 2 words for SIBLIM.
6. There are 20 spare words of data, 30 spare 3 word MTI entries for temporary store and 30 spare 3 word MTI entries for translation store.
7. There are two 3 word MTI entries, (one for temporary store and one for translation store) giving the number of spare words in each store in the first word.
8. Twenty bits are required to address a word in Program store (PS) or Temporary Store (TS). Bits 0-3 of word 1 in the MTI entry are concatenated in front of word 2 to form the 20 bits of the store address. The address may not be 0. If the translator does not exist (XE=0), the address must point to where it would have pointed if the translator did exist (i.e., it points to the same location as the next existing MTI entry).



9. To satisfy "REALLOCATION" requirements, see Figure 1A.
10. The MTI must start on a 4K boundary. For JE3, the MTI starts at 136K (octal 420,000). The last word of TRANSLATION store is the last word of PHYSICAL store, or 256K-1 (octal 777777), whichever is less. See also Figure 31D and Section 000, Note 3.

(continued)

## FIG. 1 (continued) - MASTER TABLE INDEX (MTI)

## NOTES: (continued)

11. Data words are not Recent Changeable for 3E3. The data is inputted or changed by a translation overwrite.
12. Data used by Office Records only. Inputted by ODA or Recent Change.

## FIGURE 1A - STORE ORGANIZATION

## 1. Translation Store Organization

## A. General

Translation store consists of the Master Table Index (MTI), followed by variable length data tables pointed to by the MTI. The MTI is at a fixed location, and is of fixed length, for all offices or a given generic. The variable data tables (both quantity and size) depend on the data required by an individual office. Several different data structures can exist in the ESS. These are shown in Figure 1B.

The MTI contains either data (as in A and B), address pointers to Temporary Store (TS) (as in C), or address pointers to Program Store (PS) translators (as in D, E, F, and G). A PS translator may be either:

1. Data (as in H).
2. Vacant (as in E).
3. A head table containing FS increments to subtranslator(s) which contain the data (as in I, J, and K).
4. A head table containing FS increments pointing to subtranslator(s) which contain PS increments to sub-subtranslator(s). I is a head table with increments pointing to subtranslator M (with sub-subtranslators N and C) and to subtranslator P (with sub-subtranslators Q and F).

The lowest level subtranslator at any point always contains only data while higher level subtranslators contain PS increments and possibly some minor amounts of data.

B. Allocation Rules

To allow for proper reallocation, the rules for allocation of translators are as follows:

1. The MTI is organized with all data entries first, followed by all TS pointer entries, followed by all PS (translator) pointer entries.

## FIGURE 1A (continued)

2. Complete translators (as defined above) must be allocated in store in the same order as the MTI entries, beginning after the last MTI entry. All use of PS translation store must be contiguous.
3. Once allocation of a translator is started, it must be completed before another translator may be started. For example, H must precede I and all its subtranslators. Refer to Figures 1E and 1C.
4. All PS address pointers in the MTI must be nonzero. If the translator does not exist, (i.e., XE=0 in the MTI format), the address pointer must point to the location where the next existing (i.e., XE=1) translator resides (as in E).
5. Within a translator consisting of a head table and subtranslator(s), the PS increments in the head table must occur in increasing order, i.e., within a head table the second PS increment encountered must be larger than the first PS increment encountered, etc. This says that subtranslators must occur in the order in which they are referenced in the head table. For example, for translator G, the order must be L, H, N, C, F, G, and R.
6. Logically extending rule 5 to the case of sub-subtranslators pointed to by subtranslators yields the case that all sub-subtranslators of a subtranslator be allocated before the next subtranslator is allocated.

The above rules yield the following general rule:

As you progress through the MTI, all PS addresses encountered must be nonzero and be larger than the previous address encountered; and as you progress through the remaining translators, once a head table, subtranslator, or sub-subtranslator is started, all other translators at a lower level must be finished before moving on to another translator at that same level (see Figure 1C).

C. NOCD Translator

The only specific case of rule 6 above is the NOCD (4-digit) translator. A specific rule covering this translator follows:

Each Number Group Table (NGT) is followed by the first assigned Thousands Group Table (TGT). Each TGT is followed by the Hundreds Group Tables (HGT), maximum of 10 tables, associated with that TGT. After the HGT, the next assigned TGT follows with its associated (HGT). After the TG tables for the NGT, the next NGT follows with its TG and HG table.

## FIGURE 1A (continued)

D. Member List Indexes

The member list indexes must be in increasing order with respect to increasing group number for each group MTI. For unassigned groups the member list index must point to where the member list would start if the group existed, i.e., it points to the same PS location as the next assigned group.

2. Temporary Store OrganizationA. General

The TS pointed to by the MTI is all ODA assignable based on input data from ESS 3YYX fcras. To allow proper reallocation, the rules for allocation of TS are as follows:

1. All MTI pointers to temporary store must point to increasing TS address in the same order as the MTI entries are ordered. All use of TS translation store must be contiguous.
2. All TS address pointers in the MTI must be nonzero. If the TS area does not exist (i.e., YE=0 in the MTI format), the address pointer must point to the TS location where the next existing ODA assignable TS resides.

B. Selection Status Block Indexes

The selection status block indexes must be in increasing order with respect to increasing group number for each group MTI. For unassigned groups the selection status block index must point to where the selection status block would start if the group existed, i.e., it points to the same TS location as the next assigned group.

FIGURE 1B - TRANSLATION STRUCTURE TYPES

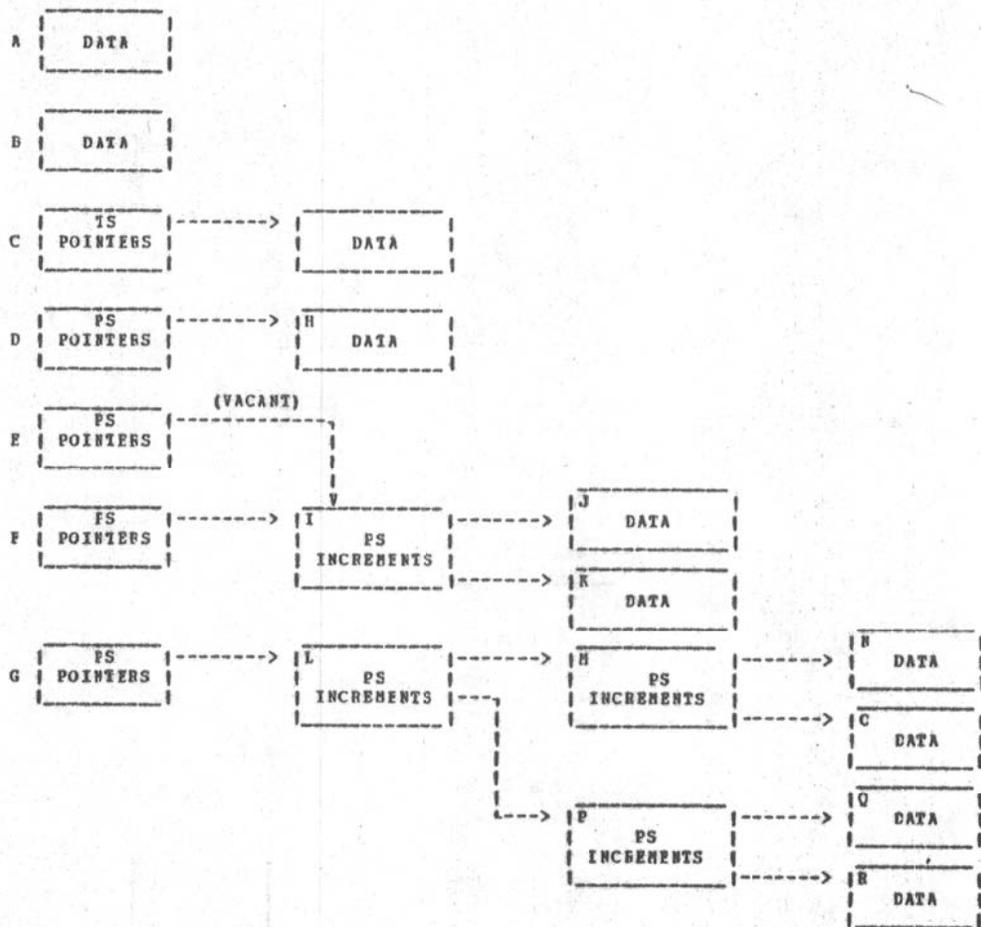
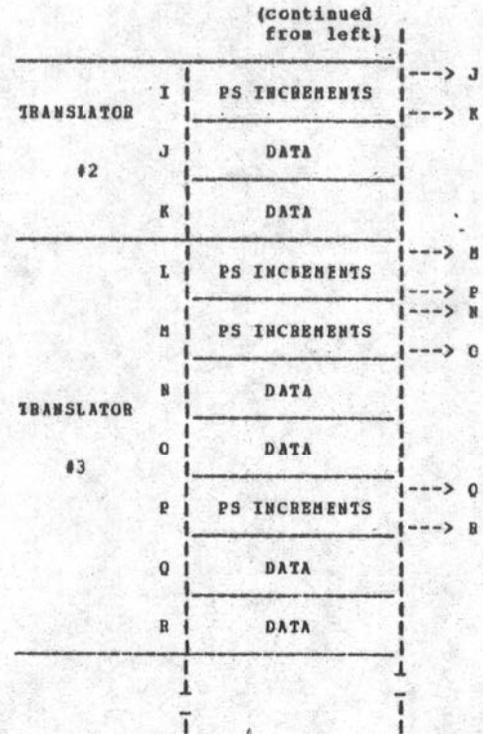
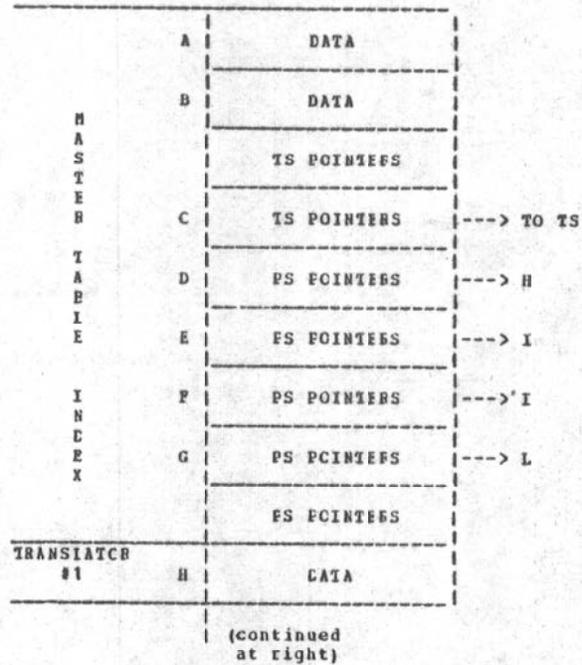


FIGURE 1C - TRANSLATION ORGANIZATION



SCAN POINT TRANSLATIONS

INDEX OF FIGURES

- Figure 2 - Scan Point Number Translation - Subtranslators  
Special Billing Table for WATS  
Office Index Expansion
- Figure 3 - (Unused)
- Figure 4 - SFN Translation - Service Circuit Table

FIG. 2 SCAN POINT NUMBER TRANSLATION

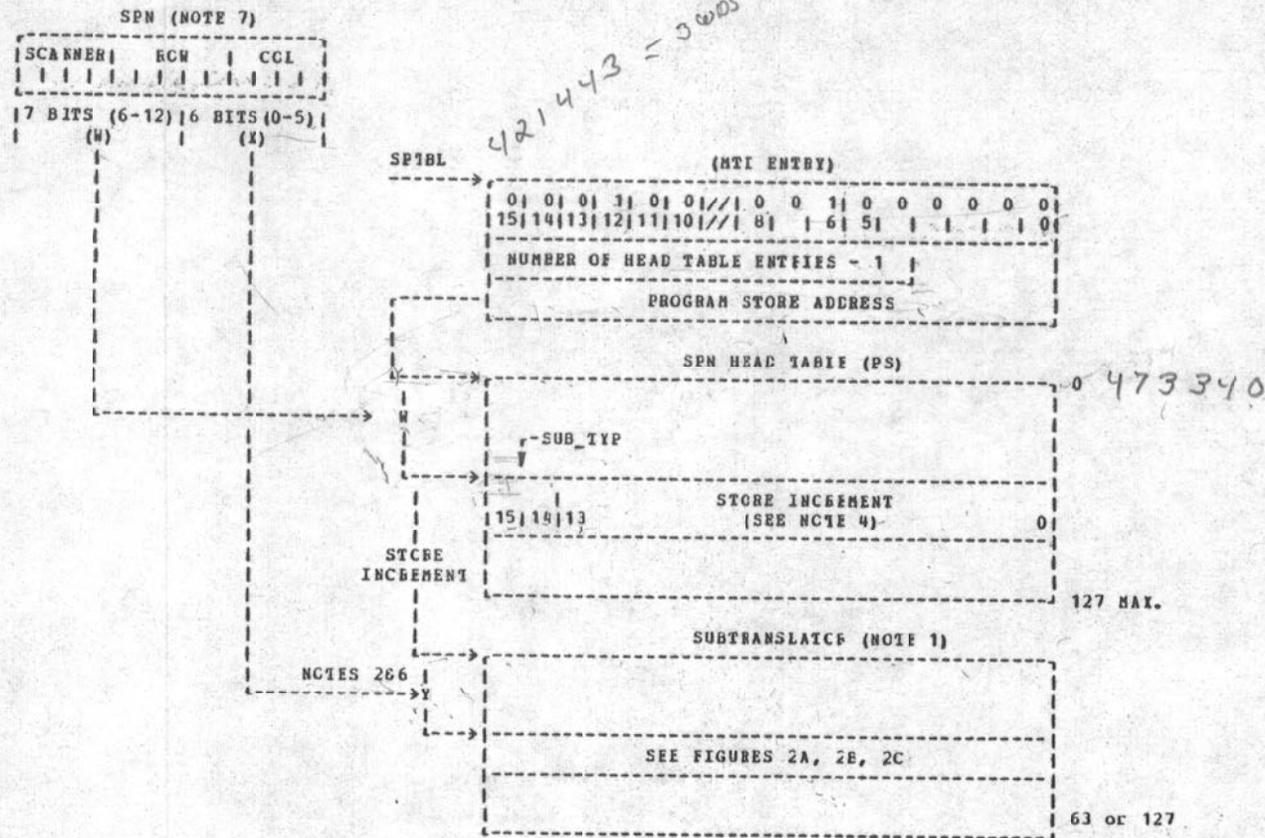


FIG. 2 (continued) - SCAN POINT NUMBER TRANSLATION

## NOTES:

1. The LINE and UNIVERSAL Subtranslators consist of 2-word entries. The MISC Subtranslator consists of 1-word entries.
2.  $Y=X$  for MISC Subtranslator.  
 $Y=2*X$  for LINE and UNIVERSAL Subtranslators.
3. SUB\_TYP (Subtranslator Type) identifies the type of subtranslator which is being addressed.  
SUB\_TYP = 0 Unassigned subtranslator  
          = 1 Miscellaneous subtranslator  
          = 2 Universal subtranslator  
          = 3 Line subtranslator
4. Words 4-6 in the SPN HEAD Table point only to MISC Subtranslator. Words 14,22,30,38,... in the SPN HEAD Table are associated with junctors which are not translated in this table and therefore are unassigned if they are allocated. All other words in the SPN Head Table point to either a LINE or UNIVERSAL Subtranslator.
5. There may be a maximum of 128 words in the SPN HEAD Table.
6. Address of subtranslator equals store address + W + store increment.
7. SCAN Point Number = Terminal Equipment Number for Networks 1 to 15. There are no TEN'S for scanner 0.

SPN	SCANNER			RCB			CCLUNN		
TEN	CG			SW	C		SWT		LVL
	12	9	8	17	16	5	13	2	0
OE	CG			C	SW		SWT		LVL

---Always stored in Translations

---Used on Recent Change and Input forms

LVL = Level (0-7)  
 SWT = Switch (0-7)  
 SW = Switch Group (0-2)  
 C = Concentrator (0,1)  
 CG = Concentrator Group (1-15) [Network]

8. Multiport rules for terminal equipment number. (See also Figure 12C, Notes 3 and 4)  
 Port 0, 1 and 2 TENs are identical except that:

PORT 0 must have C = 0  
 PORT 1 must have C = 1  
 PORT 2 must have C = 0 & SWT = (SWT of PORT 0 +1)

FIG. 2A SCAN POINT NUMBER TRANSLATION - MISCELLANECUS SUBTRANSLATOR

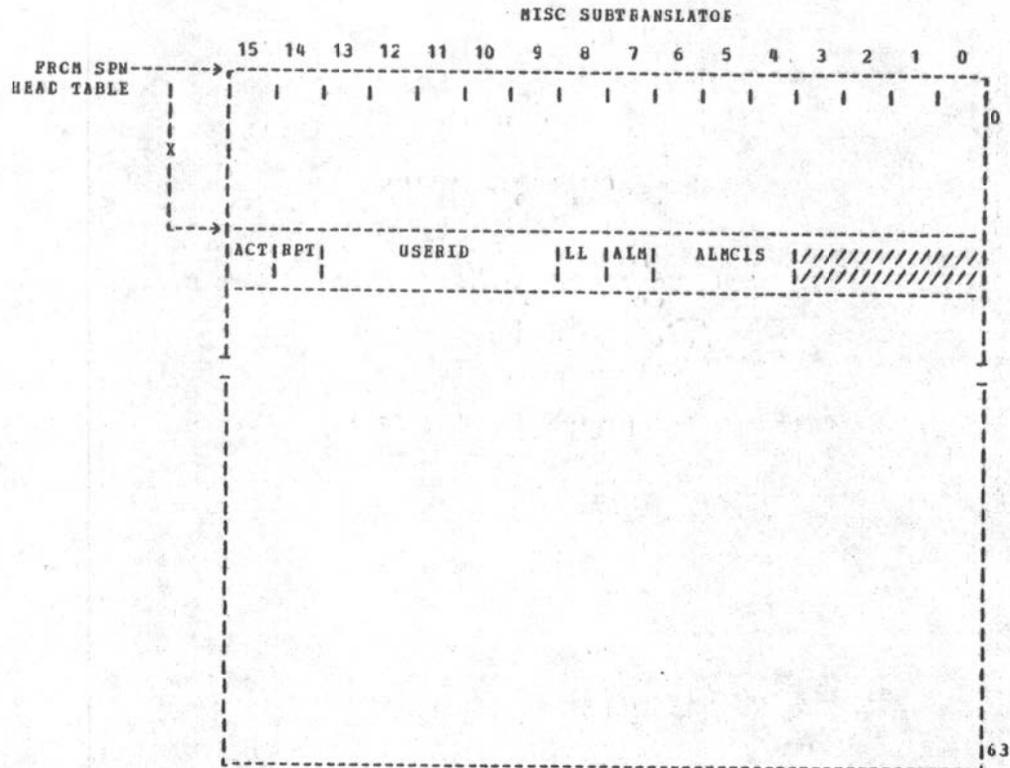


FIG. 2A (continued) - SCAN POINT NUMBER TRANSLATION - MISCELLANEOUS SUBTRANSLATOR.

## NOTES:

## 1. LIST OF ACRONYMS

ACRONYM	RC PROG	NO.	ESS ITEM		DESCRIPTION
			ITEM	COLUMN(S)	
ACT	RC:SP	3506	-	38	Active: ACT = 1 SPN is active
ALD	RC:SP	3506	-	26-33	Alarm indicator: ALD = 0 No alarm. Alarm class code not used. = 1 Alarm. Alarm class code is used.
ALMCLS	RC:SP	3506	-	26-33	ALM class (type): ALMCLS = 0 Alarm circuit = 1 Major = 2 Minor = 3 Major power = 4 Minor power = 5 Major fuse = 6 Minor fuse = 7 Critical
LL	RC:SP	3506	-	34-35	Last Look indicator: LL = 0 Normal state open = 1 Normal state closed
RPT	RC:SP	3506	-	36	Report: RPT = 1 Report SPN state change. This bit is the highest bit of the USERID. It will be set for USERIDS greater than 31.
USERID	RC:SP	3506	-	36-37	USER Identification number. 00-32 Type of fixed system scanpoint 42-44 Type of fixed system scanpoint 45-47 Assignable scanpoint 48-50 Type of fixed scanpoint 59 Assignable scanpoint 60-63 Type of fixed system scanpoint

2. A Miscellaneous Subtranslator contains data for 64 miscellaneous scan points in 4 consecutive rows. Each group of rows 16-19, 20-23 and 24-27 in MS00 require a Miscellaneous Subtranslator. Therefore, there can be a maximum of 3 Miscellaneous Subtranslators.

Each word in a Miscellaneous Subtranslator contains data associated with one miscellaneous scan point in MS00.



FIG. 2B (continued) - SCAN POINT NUMBER TRANSLATION - UNIVERSAL SUBTRANSLATOR.

## NOTES:

## 1. LIST OF ACRONYMS

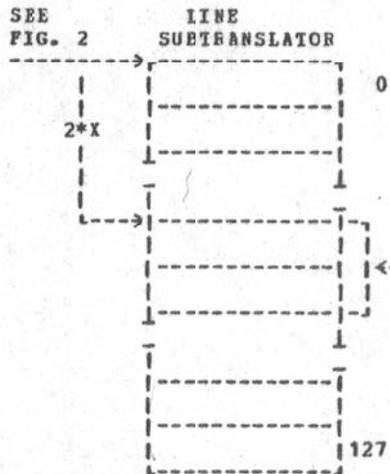
ACRONYM	RC	PRCG	NO.	ITEM	COLUMN(S)	DESCRIPTION
U_TYP						Universal Subtranslator Type U_TYP = 0 Unassigned = 1 Supervisory SPN entry for trunks and service circuits with a single terminal equipment no. (See Note 3) (See Figure 12C, Notes 3 and 4 for Milliwatt and Transmission Test Ckt.) = 2 Supervisory SPN entry for service circuits with 2 terminal equipment numbers. (See Note 3) = 3 Tone present SPN entry. = 4 Directed SPN entry. = 5 PBX Key SPN entry. = 6 Key SPN entry.
TERMINAL EQUIPMENT NO.	RC:CKT		3201	-	22-27	Office equipment number.
MEMBER NO.	RC:CKT		3201	-	40-42	Trunk group member number.
GROUP NO.	RC:CKT		3201	-	37-39	Trunk group number.
1ST TONE SPN	RC:CKT		3201	-	51-56	The SPN of the first directed scan point.
SUPERVISORY SPN	RC:CKT		3201	-	45-50	Supervisory SPN.
NUMBER OF LINES USING SPN	RC:LINE		3107	-	55-60	Indicates the number of lines associated with the same SPN.
PBX GROUP NO.	RC:HLBG		3576	-	28-30	PBX Group Number.
SKEY	RC:HLBG		3576	-	27	SPN Status Key Index. SKEY = 1 thru 7 Remote Make Busy Keys = 8 Night Stop Key = 9 Stop Hunt Key

FIG. 2B (continued) - SCAN POINT NUMBER TRANSLATION - UNIVERSAL SUBTRANSLATOR.

NOTES:

2. A Universal Subtranslator contains data associated with 64 scan points in 4 consecutive rows. Each scan point requires two words.
3. Tones, announcements and conference circuits are translated in Figure 2C.

FIG. 2C SCAN POINT NUMBER TRANSLATION - LINE SUBTRANSLATOR



POSSIBLE LINE ENTRIES (NOTE 1)

	15		0
UNASSIGNED	0		0
	0		0
NORMAL LINE WITHOUT EXPANSION	0   EL   GST   ///	ONAJ	TFC  SCR
	15   14   13   ///   11		7   6   5
	BILLING/DIRECTORY WORD (NOTE 2)		
NORMAL PBX/MLHG	1   0   0   0	TEF	6   5 BHL
	11		
	BILLING/DIRECTORY WORD (NOTE 2)		
ONE & ANN CIRCUITS	1   0   1   1	///	
		///	
	///	TER	8   7 GEF
	///   14		
THREE PORT CIRCUIT	1   0   1   1	///	
		///	
	///	MEMBER NUMBER	GROUP NUMBER
	///   14	8   7	
NON-LINE	1   0   1   0	///	
		///	
	SSP	SP/DSP	
	15	12	
NORMAL LINE WITH EXPANSION	1   1   1   1	TABLE NO.	ENTBY NO. (NOTE 5)
	11	7   6	
	BILLING/DIRECTORY WORD (NOTE 2)		

---> B (1,2, 4 or 8 word expansion)

(continued)

FIG. 2C (continued) SCAN POINT TRANSLATION - LINE SUBTRANSLATOR

		POSSIBLE LINE ENTRIES (continued)										
2 PARTY LINE	1   1   0   1	TABLE NO.				7   6	ENTRY NO. (NOTE 10)			0	-----> A (4 word expansion)	
	0	////////////////////////////////////// TT2 TT1  C DPR										
		//////////////////////////////////////  3   2   1   0										
4 PARTY LINE WITHOUT EXPANSION	0   E GSI ///	OHAJ				TTC	SCR			0	-----> F (4 word expansion)	
	15  14  13  /// 11					7   6   5						
8 PARTY LINE WITHOUT EXPANSION	1   /// SS  SOB	TABLE NO.					ENTRY NO. (NOTE 10)				-----> G (2 word expansion)	
	0   E GSI ///	CHAJ				TTC	SCR					
PBX/HING MEMBER WITH DIFFERENT DATA FROM GROUP DATA	1   1   1   1   0	TABLE NO.					ENTRY NO.				-----> C (1,2,4 or 8 word expansion)	
	BILLING/DIRECTRY WCFD (NOTE 2)											
NORMAL LINE AUTO CONNECT	0   E GSI ///	CHAJ				TTC	SCR			0	-----> J (4 word expansion)	
	1   /// ///	TABLE NO.					ENTRY NO. (NOTE 5)					
LINE EXPANSION AUTO CONNECT	1   1   1   1   1	TABLE NO.					ENTRY NO. (NOTE 10)				-----> H (2 word expansion)	
	15  14  13  12											
4 PARTY LINE WITH EXPANSION	1   /// ///	TABLE NO.					ENTRY NO. (NOTE 5)				-----> J (4 word expansion)	
	1   1   1   1   1	TABLE NO.					ENTRY NO. (NOTE 10)					
8 PARTY LINE WITH EXPANSION	1   /// SS  SOB	TABLE NO.					ENTRY NO. (NOTE 10)				-----> F (4 word expansion)	
	1   1   1   1   1	TABLE NO.					ENTRY NO. (NOTE 10)					
8 PARTY LINE WITH EXPANSION	1   /// SS  SOB	TABLE NO.					ENTRY NO. (NOTE 10)				-----> D (2 or 4 word expansion)	
	1   1   1   1   1	TABLE NO.					ENTRY NO. (NOTE 10)					
8 PARTY LINE WITH EXPANSION	1   /// SS  SOB	TABLE NO.					ENTRY NO. (NOTE 10)				-----> G (2 word expansion)	
	1   1   1   1   1	TABLE NO.					ENTRY NO. (NOTE 10)					

FIG. 2C (continued) SCAN POINT NUMBER TRANSIATION - LINE SUBTRANSLATE

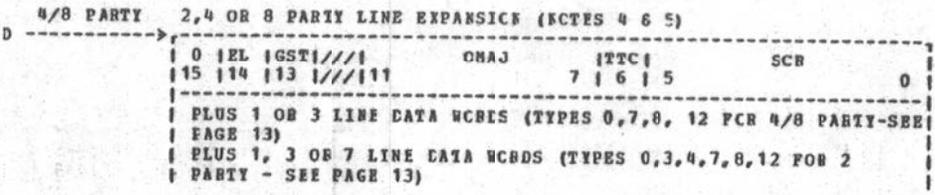
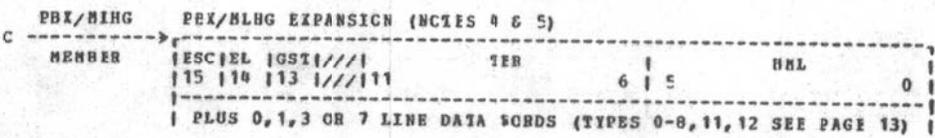
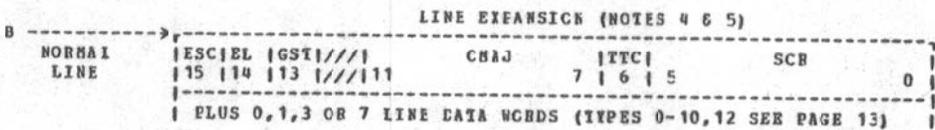
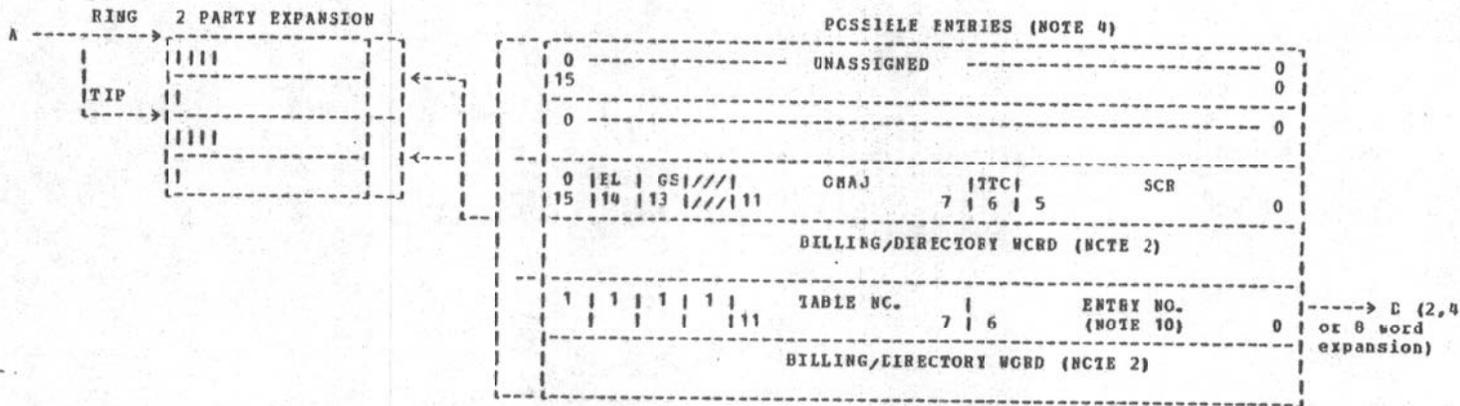
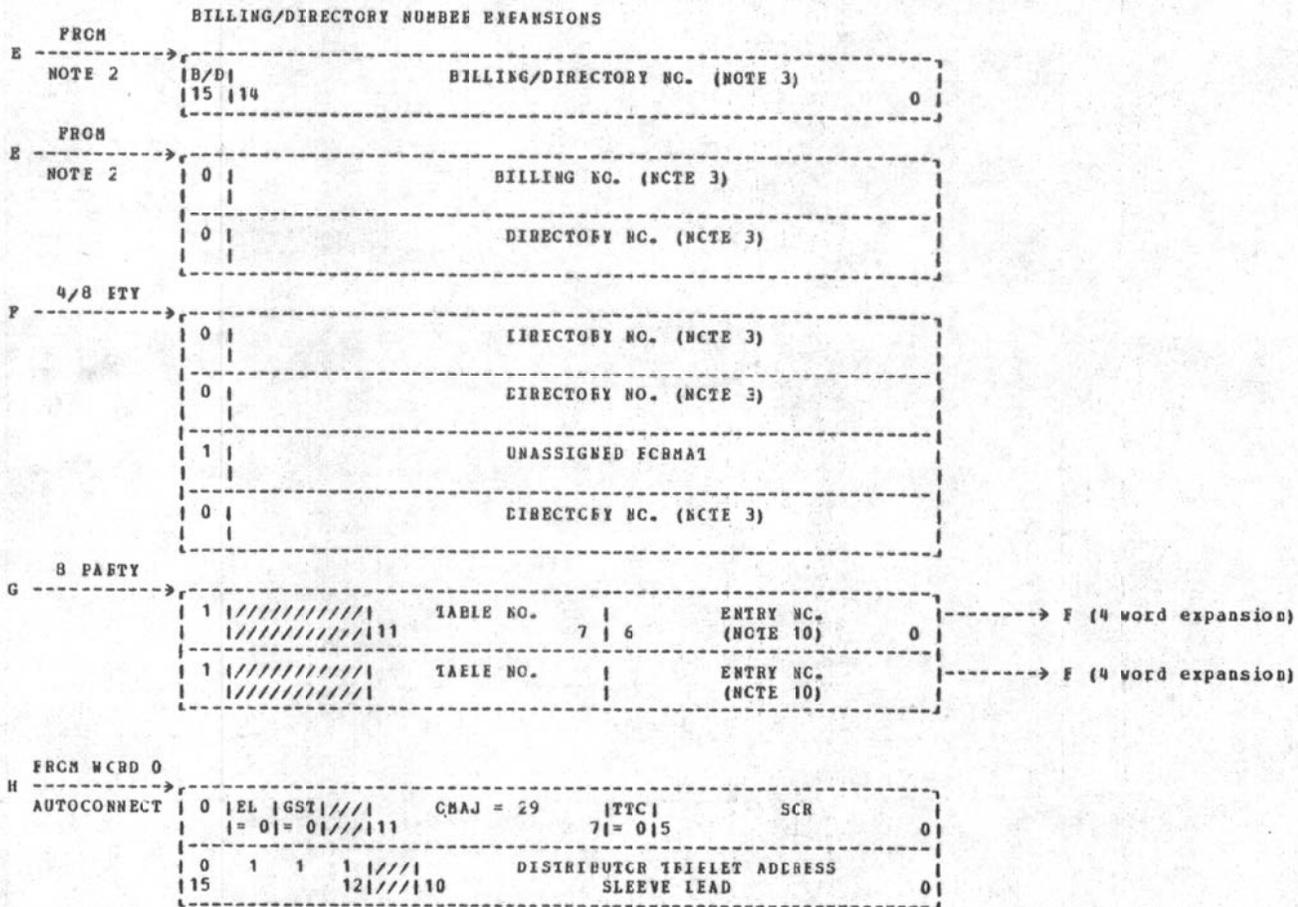


FIG. 2C (continued) SCAN POINT NUMBER TRANSLATION - LINE SUBTRANSLATOR



(continued)

FIG. 2C (continued) SCAN POINT NUMBER TRANSLATION - LINE SUBTRANSLATOR

FROM WORD 1	15.	14.	13.	12.	11.	10.	9.	8.	7.	6.	5.	4.	3.	2.	1.	0														
J AUTOCONNECT	0		FILLING NUMBER (NOTE 3)																											
	0		TRIGGER NUMBER 0 (NOTE 3,12)																											
	0		TRIGGER NUMBER 1 (NOTE 3,12)																											
	1	1	1	1		TABLE NO.			ENTRY NO.							0														
																11		716		(NOTE 5)										
																										K (4 word expansion)				
K EXPANSION	0		TRIGGER NUMBER 2 (NOTE 3,12)																											
	0		TRIGGER NUMBER 3 (NOTE 3,12)																											
	0		TRIGGER NUMBER 4 (NOTE 3,12)																											
	0		TRIGGER NUMBER 5 (NOTE 3,12)																											

FIG. 2C (continued) SCAN PCINT NUMBER TRANSLATION - LINE SUBTRANSLATOR

LINE DATA WORDS (NOTES 4 & 5)

0	0   0   0   0	VACANT	0	
1	0   0   0   1	TABLE NO.   ENTRY NO.	7   6	(NOTE 5)
2	0   0   1   0	ESH INDEX		(CALL FCWARDING)
3	0   0   1   1	ER INDEX		(SCF16ARE MSG REG)
4	0   1   0   0	DPH		(HAEWARE MSG REG DIA)
5	0   1   0   1	ESL INDEX		(SPEED CALL 8)
6	0   1   1   0	ESF INDEX		(SPEED CALL 30)
7	0   1   1   1	DP (NOTE 11)		(SLEEVE LEAD DIA)
8	1   0   0   0	DPU (NOTE 11)		(NOISE IMMUNITY LINE CIRCUIT DIA)
9	1   0   0   1	COIN TRIPLET INDEX		(FIG. 9A CR 9B)
10	1   0   1   0	TABLE NO.   ENTRY NO.	7   6	(NOTE 10)
11	1   0   1   1	CHAJ	7   6   5	SCF (NOTE 6)
12	1   1   0   0	////////////////////		ECH   AL

HOT (NOTE 7)			
DIG 0	DIG 1	DIG 2	DIG 3
15	12   11	8   7	4   3
	DIG 4	DIG 5	DIG 6
	DIG 7		
	DIG 8	DIG 9	DIG 10
			////////////////
			////////////////

LINE DATA WORD TYPE NUMBER

(2 or 4 word expansion)

FIG. 2C (continued) SCAN POINT NUMBER TRANSLATION - LINE SUBTRANSLATOR

NOTES:

1. KEYWORD CROSS-REFERENCE & DESCRIPTION FOR LINE SUBTRANSLATOR ENTRIES

ENTRY	DATA NAME	INPUT MESSAGE	ESS PCFM			DESCRIPTION
			KEYWORD	NO.	ITEM COLUMN	
NORMAL LINE	EL	RC:LINE	EL	3100-1	-- 36	Essential line (Class A service).
	GST	RC:LINE	GST	3100-1	-- 35	Ground Start Line.
	OMAJ	RC:LINE	LCC	3306-1	-- 25-26	Originating Major Class Code. See Note 13.
	TTC	RC:LINE	TTC	3100-1	-- 37	Touch Tone Calling.
	SCR	RC:LINE	LCC	3306-1	-- 29-30	Screening Class.
	TN	RC:LINE	TN	3100-1	-- 17-23	Telephone number (NOTE 2).
NORMAL PBX/MLHG	TER	RC:MTL	TER	3100-1	-- 48-49	Multi-Line hunt group terminal number.
	HNL	RC:MTL	HNL	3100-1	-- 46-47	Multi-line hunt group number.
	TN	RC:MTL	TN	3100-1	-- 17-23	Telephone number (NOTE 2).
TONE BANK CIRCUITS	TER	RC:CKT	TER	3201-1	-- 40-42	Trunk group terminal (member) number.
	GRP	RC:CKT	GRP	3201-1	-- 37-39	Trunk group number.
THREE PORT CIRCUIT	TER	RC:CKT	TER	3201-1	-- 40-42	Trunk group terminal (member) number.
	GRP	RC:CKT	GRP	3201-1	-- 37-39	Trunk group number.
	ECBT NO.	RC:CKT	ECBT NO	3201-1	-- 36	Port Number (0-2).
NGN-LINE	SSP		SSP			Supervisory scan point flag. SSP = 1 2nd word contains the circuit's Supervisory scan point number. SSP = 0 2nd word contains the circuit's directed scan point number.
	SP	RC:CKT	SP	3201-1	-- 45-50	Supervisory scan point number (SSF=1).
	DSP	RC:CKT	DSP	3201-1	-- 51-56	Directed scan point number (SSP=0).
LINE EXPANSION INCLUDING 4 & 3 PARTY LINES)	BLN	RC:LINE	BLN	3100-1	-- 45	Special Toll Billing (QZ billing).
		RC:HLHG				
		RC:MTL				
	SOB	RC:LINE	SOB			Service Observing feature. This bit is recent changeable only. It is not set by the CDA.
		RC:HLHG				
		RC:NFTY				
		RC:MTL				
		RC:TWOPTY				
	SS	RC:LINE	SS			Special studies feature. Recent changeable only.
		RC:NFTY				
		RC:MTL				
		RC:TWOPTY				
		RC:HLHG				

FIG. 2C (continued) SCAN POINT TRANSLATION - LINE SUBTRANSLATOR

NOTES (continued):

1. KEYWORD CROSS-REFERENCE & DESCRIPTICA FOR LINE SUBTRANSLATOR ENTRIES (continued)

ENTRY	DATA NAME	INPUT MESSAGE		ESS FORM			DESCRIPTION
		KEYWORD	NC.	ITEM	COLUMN		
2 PARTY LINE	C DPR	C DPR					Exit code that indicates the type of customer dial pulse receiver to connect to the two party line. 00 = Error 01 = Attach a Touch Tone receiver denied or one is unassigned and the other is denied.
	TTC	RC:TWOPTY	TTC	3100-1	--	37	Touch Tone service.
PBX/MLNG MEMBER WITH DIFFERENT DATA FROM GROUP DATA	TN	RC:MTL	TN	3100-1 3107	--	17-23 17-23	Directory number (NOTE 2)

2. For lines with expanded billing information entry contains table and entry number. The high bit (bit 15) indicates if the word contains the TN or a table and entry.

HIGH BIT = 0	word contains TN.	1	BLN	SS	SCB	TAELE NC.	7	6	ENTRY NO.	0	-->E (1 or 2 word ex- pansion)
= 1	word contains table and entry.	15	14	12	11				{NOTE 10}	0	
		0				PACKET FILLING NUMBER OR TN (NOTE 3)				0	
		15	14								

3. Packed billing or directory number. Office index = 0 is not used.

(FIG. 2E) <-----

OFFICE INDEX	100 + DIGIT 5 + 10 * DIGIT 6 + DIGIT 7
14	10   9   0

Packed special billing number. Office index = 31 is not expanded but indicates a special billing number (ie, for WATS).

(FIG. 2E) <-----

OFFICE INDEX = 31	SBINDX	SBILTBI (FIG. 2E)
14	10   9	0

## FIG. 2C (continued) SCAN POINT NUMBER TRANSLATION - LINE SUBTRANSLATOR

## NOTES (continued):

## 4. KEYWORD CROSS-REFERENCE &amp; DESCRIPTION FOR LINE SUBTRANSLATOR EXPANSIONS

EXPANSION	DATA NAME	INPUT MESSAGE		ESS PCFN			DESCRIPTION
		KEYWORD	NO.	ITEM	COL	LN	
2 PARTY EXPANSION	EL	RC:TWOPTY	EL	3100-1	--	36	Essential line (Class A service) (EL=1). Originating Major Class Code. See Note 13. Touch Tone Calling feature (TTC=1). Screening Class. Telephone Number (NOTES 2 & 3).
	OMAJ	RC:LINE	LCC	3306-1	--	25-26	
	TTC	RC:TWCPTY	TTC	3100-1	--	37	
	SCR	RC:LINE	LCC	3306-1	--	29-30	
	TN	RC:TWOPTY	TN	3100-1	--	17-23	
LINE EXPANSION (NOTE 5)	ESC	RC:LINE	ESC	3100-1	--	44	Three Way calling feature (ESC=1) Essential line (Class A service) (EL=1).  Ground Start line. Originating Major Class Code. See Note 13. Touch Tone Calling feature. Screening Class.
	EL	RC:LINE	EL	3100-1	--	36	
		RC:HPTY					
		RC:TWCPTY					
	GSI	RC:LINE	GSI	3100-1	--	35	
	OMAJ	RC:LINE	LCC	3306-1	--	25-26	
	TTC	RC:LINE	TTC	3100-1	--	37	
		RC:HPTY					
	RC:TWCPTY						
PBX/HLHG EXPANSION (NOTE 5)	ESC	RC:HLHG	ESC	3105-1	--	37	Three Way calling feature. Essential line (Class A service). Ground Start line. Multi-line hunt Group terminal (number number assigned to the telephone (directory) number). Multi-line Hunt group number.
	EL	RC:HLHG	EL	3105-1	--	31	
		RC:HIL		3100-1	--	36	
	GSI	RC:HLHG	GSI	3105-1	--	30	
		RC:HIL		3100-1	--	35	
	TER	RC:HIL	TER	3100-1	--	48-49	
	HML	RC:HLHG	HML	3105-1	--	20-21	
		RC:HIL		3100-1	--	46-47	
LINE DATA WCPDS (NOTE 5)	ESH INDEX	RC:LINE	ESH	3100-1	--	39	Call forwarding Index. Software message Register Index. Peripheral Decoder Triplet for hardware register.
		RC:HIL					
	MR INDEX	RC:LINE	MR	3107	--	72-75	
		RC:HIL					
	DPH	RC:LINE	DPH	3107	--	48-53	
		RC:HIL					
		RC:TWCPTY					
		RC:HIL					
		RC:TWOPTY					

FIG. 2C (continued) SCAN POINT NUMBER TRANSLATION - LINE SUBTRANSLATOR

NOTE (continued):

## 4. KEYWORD CROSS-REFERENCE &amp; DESCRIPTION FOR LINE SUBTRANSLATOR EXPANSIONS (continued)

EXPANSION	DATA NAME	INPUT MESSAGE		ESS FORM			DESCRIPTION
			KEYWORD	NO.	ITEM	COLUMN	
LINE DATA WORDS (continued)	CHI	RC:MLHG	CSL1	3105-1	-	35	Multi-line hunt group and lines are allowed to change speed call 8 list (CHI=1). See Note 8.
		RC:LINE	-	-	-	-	
ESL INDEX	ESL	RC:LINE	ESL	3100-1	-	43	Speed Calling - 1 digit service (8 nbr. list). Speed Call Index - SC8 Head Table (Program assigned).
		RC:MTL	-	-	-	-	
CHF	CHF	RC:MLHG	CSL2	3105-1	-	33	Multi-line hunt group and lines are allowed to change speed call 30 list (CHF=1). See Note 9.
		RC:LINE	-	-	-	-	
ESF	ESF	RC:LINE	ESF	3100-1	-	41	Speed Calling - 2 digit service (30 list) Speed Call Index - SC30 Head Table (Program assigned).
		RC:MTL	-	-	-	-	
ESF INDEX	ESF	RC:LINE	INFFY				
		RC:MTL	-	-	-	-	
DP	DP	RC:LINE	DP	3107-1	-	42-47	Peripheral decoder triplet to provide a sleeve lead.
		RC:MPTY	-	-	-	-	
DPU	DPU	RC:LINE	DPU	3107-1	-	42-47	Periph Decoder triplet for Noise Immunity line Circuit. Coin triplet index - Coin Triplet Address Table & Coin Triplet Status Table.
		RC:MTL	-	-	-	-	
CCIN TRIPLET INDEX	CCIN	RC:LINE	CCIN				
		RC:MTL	-	-	-	-	
TPT	TPT	RC:LINE	TPT	3107-1	-	53	Peripheral decoder point assigned to coin line.
		RC:MTL	-	-	-	-	
OMAJ	OMAJ	RC:LINE	ICC	3306-1	-	25-26	Originating major Class Code. See Note 13.
		RC:MTL	-	-	-	-	
TTC	TTC	RC:MLHG	TTC	3105-1	-	32	Touch Tone Calling feature (TTC=1).
		RC:MTL	-	-	-	-	
SCR	SCR	RC:LINE	LCC	3306-1	-	29-30	Screening class.
		RC:MTL	-	-	-	-	
B/D	B/D	RC:LINE	BTM	3107-1	-	35-41	Billing/Directory - For multi-line: = 0 if BTM not typed. Use MLHG group ETM. = 1 if BTM of member typed and same as TM of member. For non-multi-line: = 0 invalid state = 1 the directory number is used as the BTM.
		RC:MTL	-	-	-	-	
RCH	RCH	RC:LINE	RCH	3107-2	-	54	Inhibit RCH Tone on the line = 0 if not inhibited. = 1 if inhibited.
		RC:MTL	-	-	-	-	
AL	AL	RC:LINE	PLIT	3107-2	-	55	Prohibit Automatic Line Insulation Test = 0 if not prohibited. = 1 if prohibited.
		RC:MTL	-	-	-	-	

## FIG. 2C (continued) SCAN POINT NUMBER TRANSLATION - LINE SUPERTRANSULATOR

## NOTES (continued):

5. Expansion entries contain 1, 2, 4 or 8 line data words as indicated, via EXPTBL, Figure 11A. If several expansion entries are provided, they are linked by means of table and entry numbers. A table and entry number word, when provided, must be the last word of the 2, 4 or 8 word expansion.
6. This word can only be part of a PBX/ELHG expansion.
7. Telephone number is stored in BCD for hct line service, 1-8 digits require a 2-word expansion; 9-11 digits require a 4-word expansion.
8. If the ESL keyword is specified on a BC and the CSL1 keyword is not, CEI is determined by the ICS bit in OFF\_DATA (Fig. 23A).
9. If the ESF keyword is specified on a BC and the CSL2 keyword is not, CHF is determined by the ICS bit in OFF\_DATA (Fig. 23A).
10. Expansion entries contain 1, 2 or 4 words as indicated, via EXPTBL, Figure 11A.
11. EP & EPU are mutually exclusive on a line.
12. If any trigger number entry does not contain a trigger number, then the entry follows the "UNASSIGNED FORMAT" (see "F", page 11) for directory number expansions.

(continued on next page)

## FIG. 2C (continued) SCAN POINT NUMBER TRANSIATION - LINE SUBTRANSLATOR

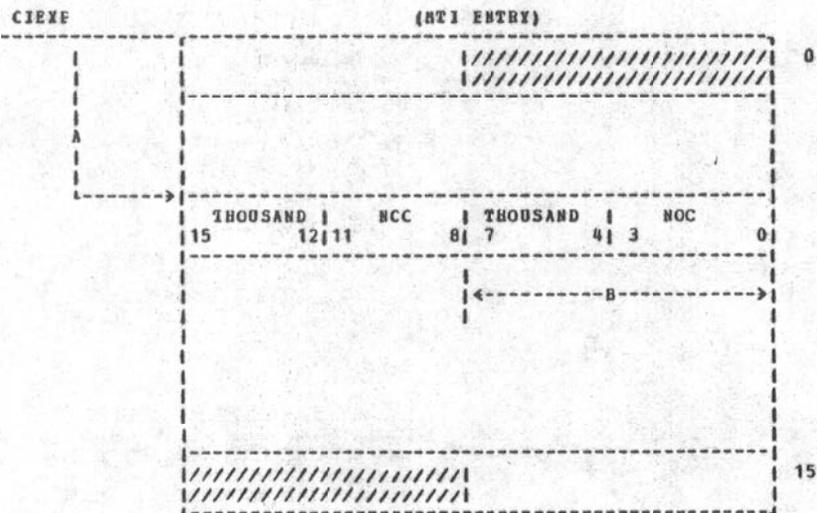
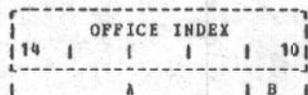
## NOTES (continued):

## 13. ORIGINATING AND TERMINATING MAJOR CLASSES

MAJOR CLASS	ASSIGNMENT	ORIGINATING	TERMINATING
0	UNASSIGNED	X	X
1			
2			
3			
4	TWO-PARTY RING	X	X
5	TWO-PARTY TIP	X	X
6	INDIVIDUAL - TRAFFIC	X	X
7	INDIVIDUAL - FREE		X
8	INDIVIDUAL	X	X
9	HOTEL-MOTEL	X	
10	MANUAL	X	
11	TSPS SELECTIVE CALL SCREENING	X	
12			
13			
14			
15			
16	MULTIPARTY PARTY 1	X	X
17	MULTIPARTY PARTY 2		X
18	MULTIPARTY PARTY 3		X
19	MULTIPARTY PARTY 4		X
20	MULTIPARTY PARTY 5		X
21	MULTIPARTY PARTY 6		X
22	MULTIPARTY PARTY 7		X
23	MULTIPARTY PARTY 8		X
24	COIN FIRST - CCIN	X	X
25	DIAL 1CNE FIRST - CCIN	X	X
26			
27			
28	INTERCEPT		X
29	AUTOCONNECT	X	X
30	DENIED SERVICE	X	X
31	SPECIAL ROUTING		X



FIGURE 2E OFFICE INDEX EXPANSION



NOTES:

1. OFFICE INDEX = 0 is not used. Valid office indices range from 1 to 30. Office index is a combination of NCC and thousands digit.

2. CROSS REFERENCE & DESCRIPTION FOR OFFICE INDEX EXPANSION

EXPANSION	INPUT MESSAGE	ESS FCEN			DESCRIPTION
		KEYWORD	NC.	ITEM	
OFFICE INDEX	RC:PTN	CCDE	3501-1	-	Office Code Thousands digit

PA-38303

SECTION 200

FIGURE 3 (UNUSED)

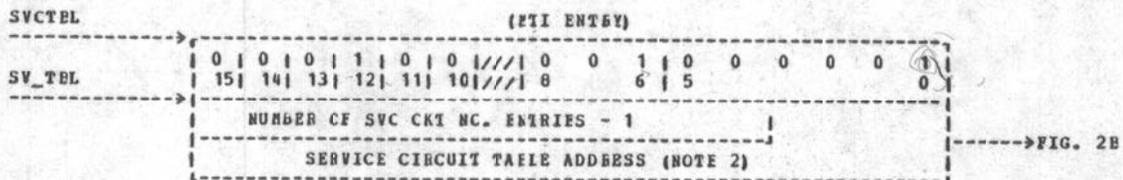
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FIG. 4 SCAN POINT NUMBER TRANSLATION - SERVICE CIRCUIT TABLE



NOTES:

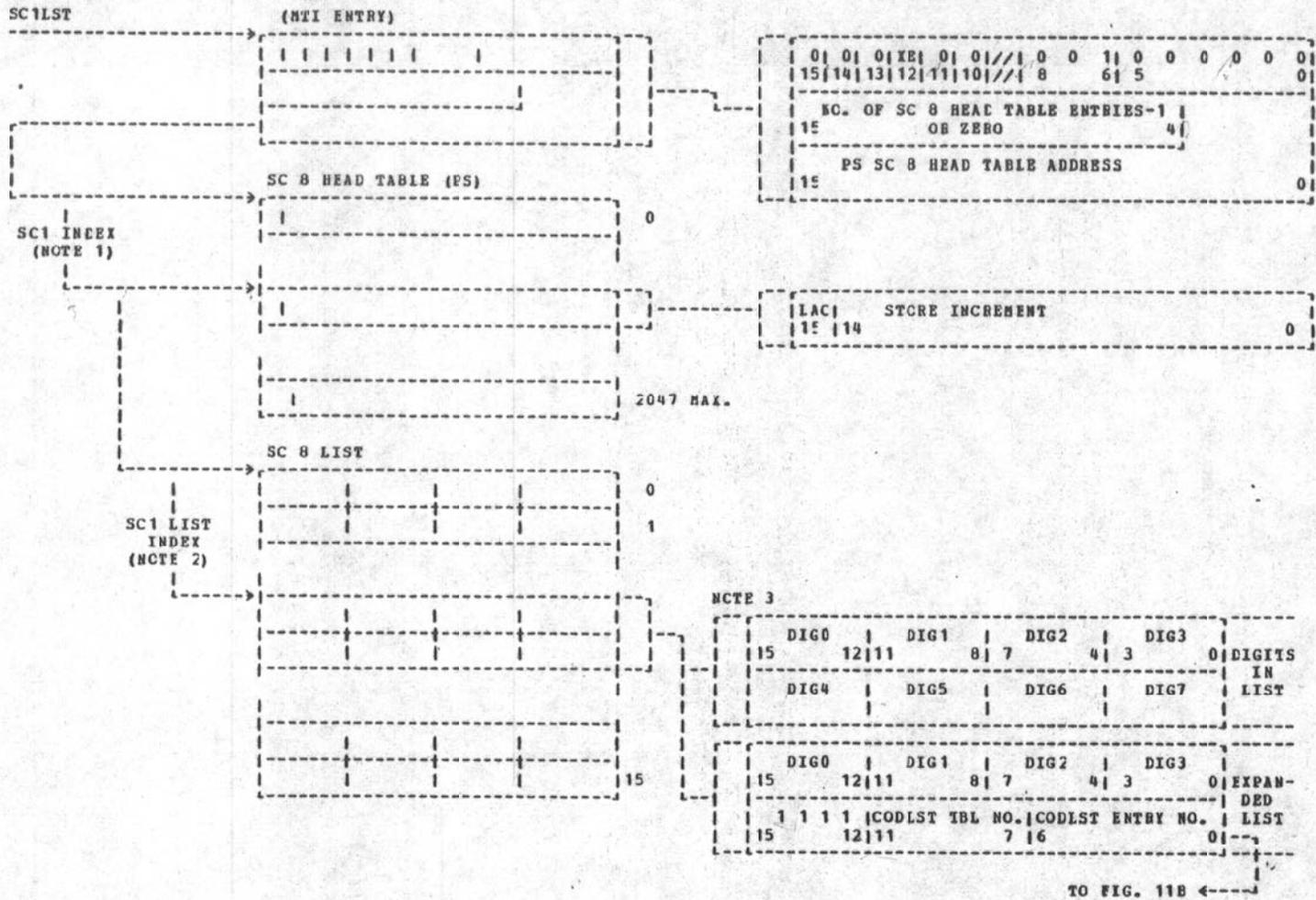
1. The Service Circuit Table is a Universal Subtranslator which contains the data for the 256 scan points in the first 16 rows (0-3) of MS00.
2. The Service Circuit Table address is the address for the SPN 0 entry.  
Service Circuit Table Address = Address of word 0 in the SPN HEAD Table + store Increment.

ORIGINATING LINE TRANSLATIONS

INDEX OF FIGURES

- Figure 5 - Speed Calling List (1-Digit)
- Figure 6 - Speed Calling List (2-Digit)
- Figure 7 - Message Register list
- Figure 8 - Call Forwarding Table
- Figure 9 - Coin Triplet Index Information

FIGURE 5 SPEED CALLING LIST - 1 DIGIT



TO FIG. 11B ←

FIGURE 5 (continued) SPEED CALLING LIST - 1 DIGIT

NOTES:

1. THE SC1 INDEX is stored in bits 0-10 of the LINE DATA WORD, Figure 2C, or the PBX/MLHG group table, Fig. 12B.
2. The index for the SC 8 List is a function of the dialed code;  $SC1\ LIST\ INDEI = 2 * CODE - 4$ .
3. The number of digits in the two wrd entry is eight. If more digits are needed, the second word of the entry contains a table and entry number needed to obtain an entry in the COLLST translator for the rest of the digits. The digits are stored in BCD.
4. List Availability Code (IAC):  
IAC = 0 Vacant  
      = 1 Assigned

FIGURE 6 SPEED CALLING LIST - 2 DIGIT

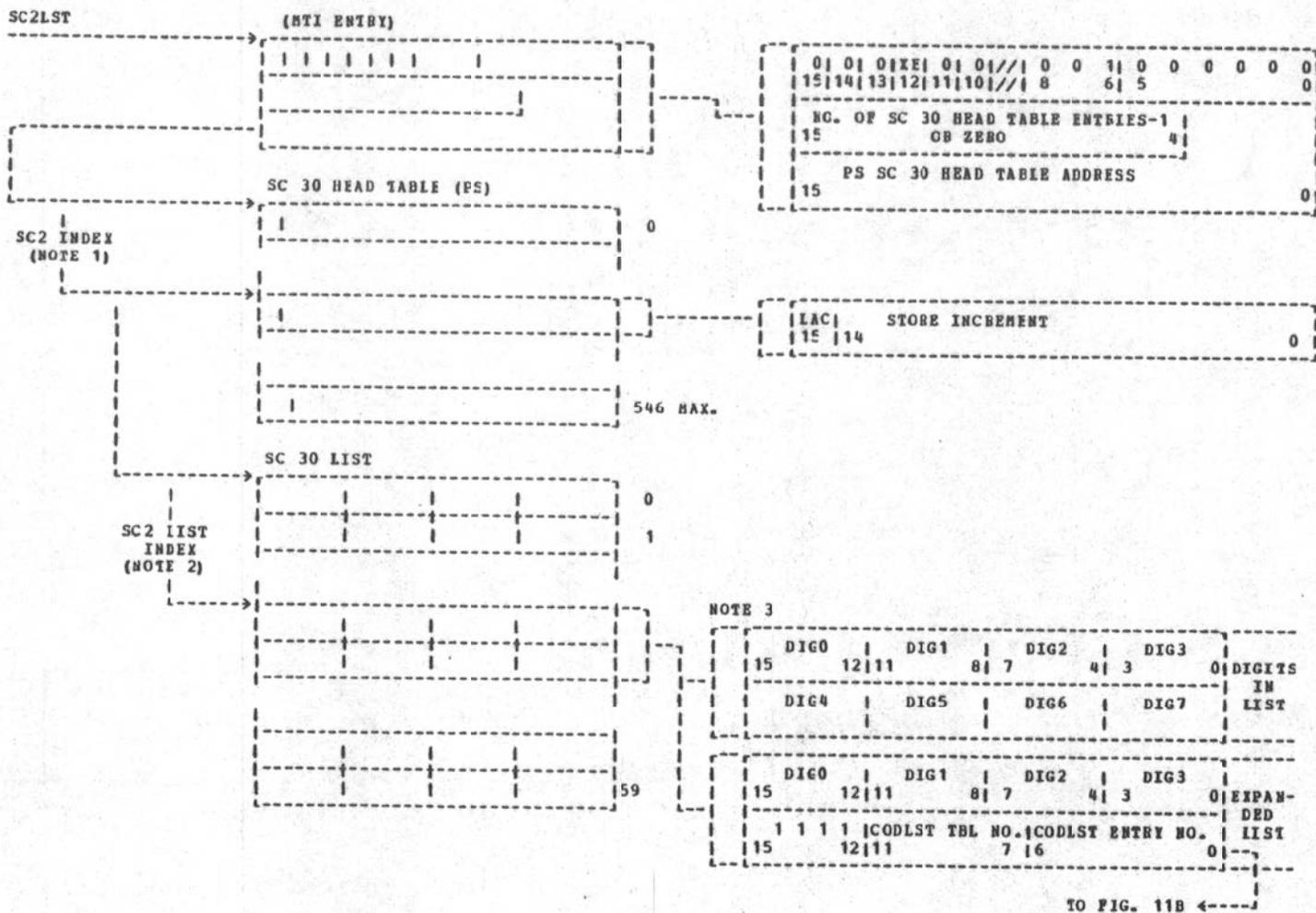


FIGURE 6 (Continued) SPEED CALLING LIST - 2 EIGHT

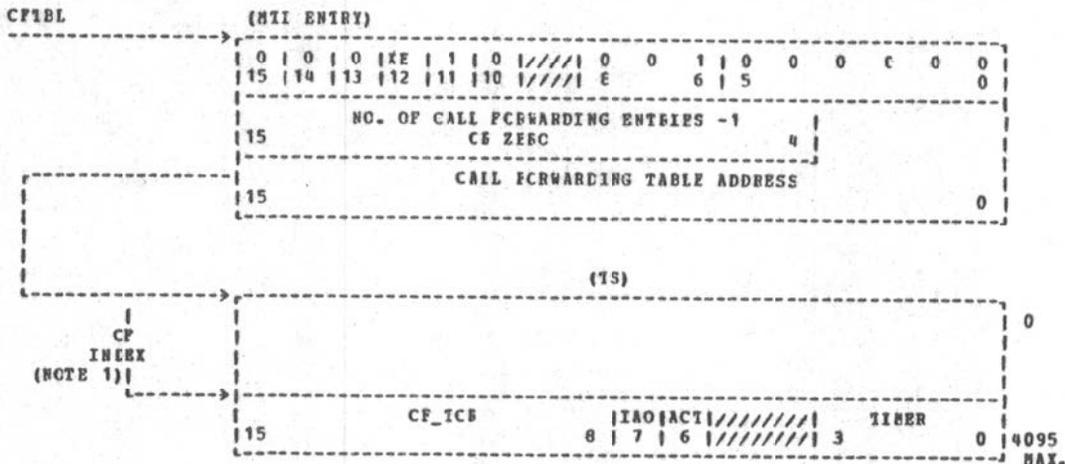
NOTES:

1. The SC2 INDEX is stored in bits 0-10 of the LINE DATA WORD, Figure 2C, or the PBX/HLBG group table, Fig. 12B.
2. The index for the SC 30 LIST is a function of the dialed code;  $SC2\ LIST\ INDEX = 2 * CODE - 40$ .
3. The number of digits in the twc word entry is eight. If more digits are needed, the second word of the entry contains a table and entry number needed to obtain an entry in the CODLSI translator for the rest of the digits. The digits are stored in BCD.
4. List Availability Code (LAC):  
LAC = 0 Vacant  
      = 1 Assigned

6 5 4 3 2 1 0  
1 1 1 1 1 1



FIGURE 8A CALL FORWARDING TABLE



NOTES:

1. CF INDEX is stored in bits 0-11 of a LINE DATA WORD. See Figure 2C.
2. ACT = Active entry
3. TIMER = 1 = 10 sec.
4. CF\_TCR = TCR number for CF activation.
5. IAO = 1 -IAO Activation in Progress.

FIGURE 8B CALL FORWARDING DIGIT LIST

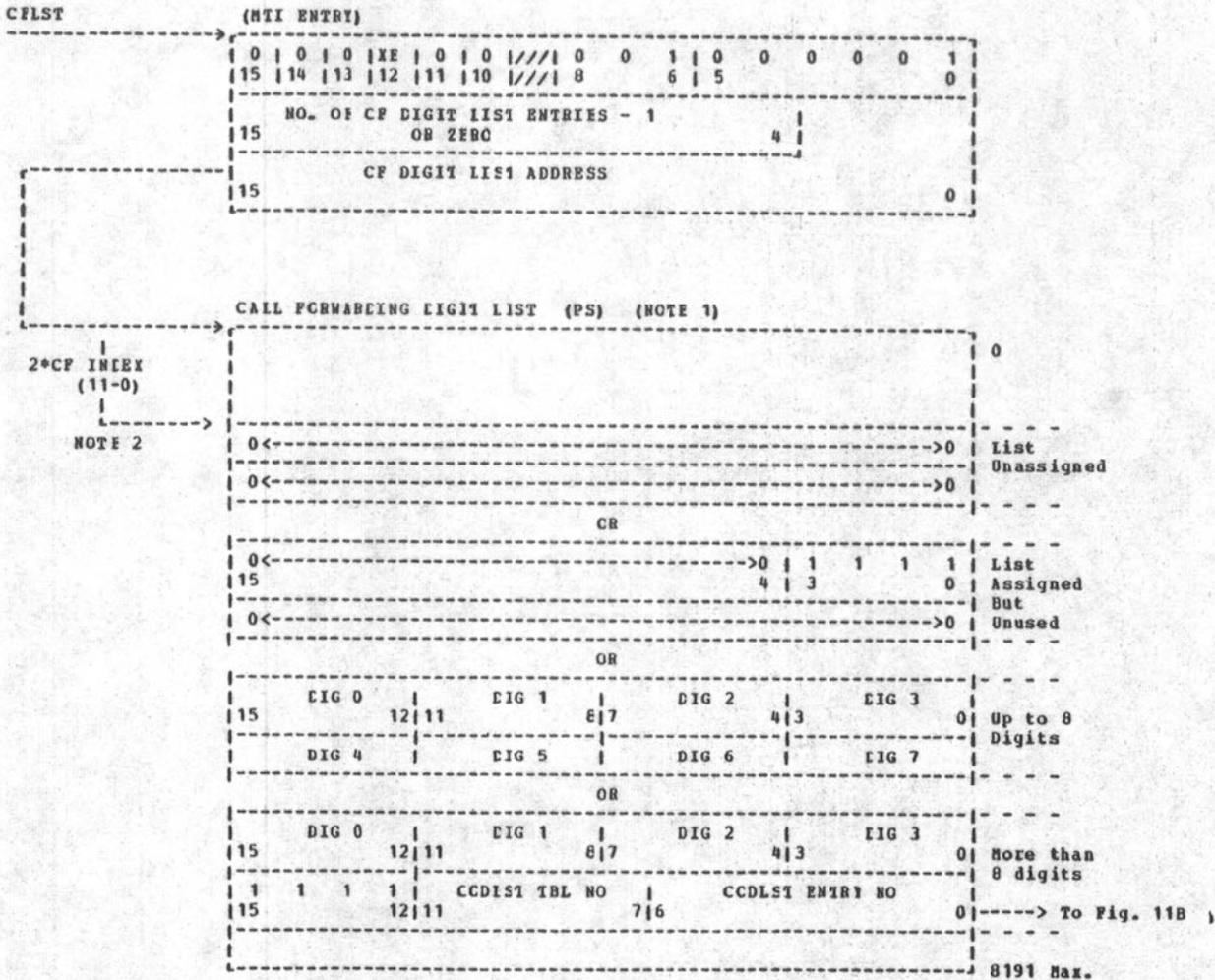


FIGURE 8B (continued) CALL FORWARDING DIGIT LIST

NOTES:

1. DIGn (n=0-7). BCD digits are the call forwarding number. If digit position 3 = 1111, the entry is assigned but unused. If digit position 4 = 1111, the rest of word 1 is a table and entry to a digit expansion area. (Fig. 11B).
2. CF index is stored in bits 0-11 of a line data word. See Figure 2C.



FIGURE 9A (Continued) COIN TRIPLET INDEX INFORMATION - COIN TRIPLET ADDRESS TABLE

NOTES:

1. The coin line circuit's TRIPLET INDEX is stored in a LINE DATA WORD. See Figure 2C.

2. KEYWORD CROSS-REFERENCE & DESCRIPTION FOR COIN TRIPLET ADDRESS TABLE

KEYWORD	INPUT MESSAGE	ESS FORM			DESCRIPTION
		NO.	ITEM	COLUMN(S)	
ASSIGN					Individual assigned points.
DPCN	RC:LINE	3107-1	--	48-52	Coin Triplet address (NOTE 3).

3. COIN TRIPLET ADDRESS:

TRIPLET	PEE	PD NO.
10 9   8   7		0

PPD - Peripheral Pulse Distributor.  
 PE - Peripheral Decoder.

FIGURE 9B COIN TRIPLET INDEX INFORMATICS - COIN TRIPLET STATUS TABLE



NOTES:

1. S2S1S0 - Status bits for the 3 peripheral decoder points in the triplet.

TERMINATING TRANSLATIONS

INDEX OF FIGURES

- Figure 10 - 4-Digit Translation
- Figure 11 - General Purpose and Code List Expansion Tables

FIGURE 10 FOUR DIGIT TRANSLATION

PECH TRANSIENT CALL RECORD (TCR)

NOC	THOUSANDS	HUNDREDS	TEES	UNITS
18	1	15	17	13

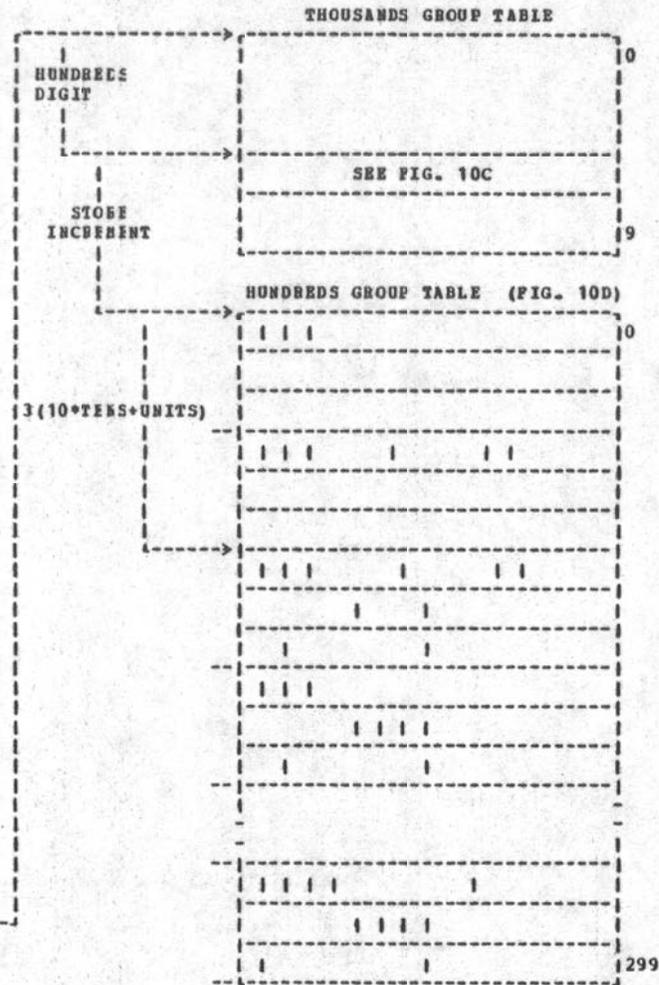
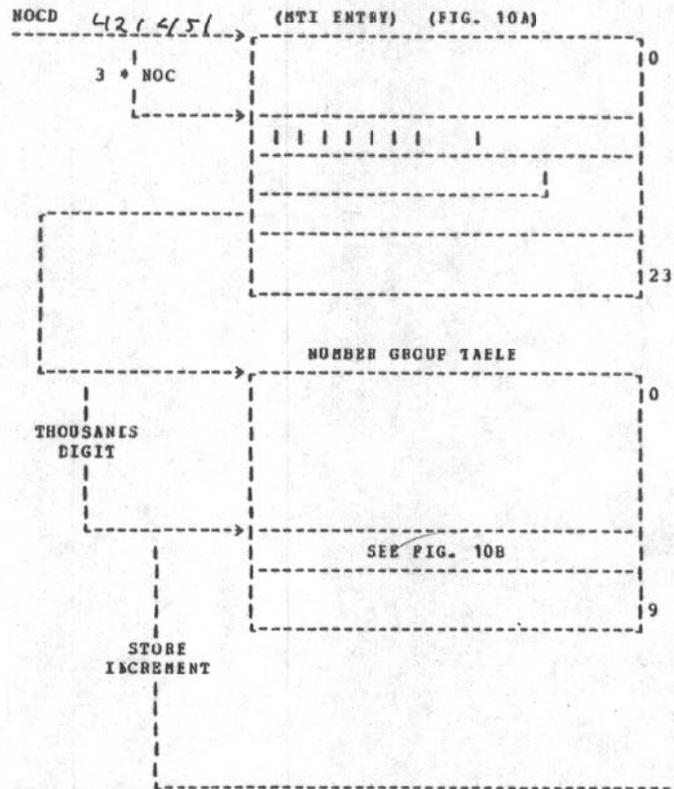








FIGURE 10E FOUR DIGIT TRANSLATION - HUNDREDS GROUP TABLE  
 POINTED TO BY THOUSANDS GROUP TABLE (FIG. 10C)

		HUNDREDS GROUP TABLE (NOTE 1)										
3(10*TEMS+UNITS)	UNASSIGNED	0   0   0   0	UNASSIGNED							0	0	
		15   14   13   12								0		
		//										
		//										
	UNASSIGNED WITH REMARKS	0   0   0   YR_IDX_RNK   MONTH_BK   IDI_RNK	9	8	5	3	(NOTE 4)				0	
		15   14   13   12										0
		//										
		//										
	INTERCEPT OR SPECIAL ROUTE LINE WITH REMARKS	1   1   0   YR_IDX_RNK   MONTH_BK   IDI_RNK	9	8	5	3	(NOTE 4)				0	
		15   14   13   12										0
		INCC = 28 OR 31		TRC		ROUTE INDEX						
		15	1110		7						0	
		TECALB		LCC INDEX								
15	14		7						0			
	NORMAL LINE	1   1   0	TERMINAL EQUIPMENT NUMBER							0		
		1     12								0		
		TERM NJ CI CD   TRC   ESX   OY	ROUTE INDEX									
		15	1110		9   8   7						0	
		TECALE		LCC INDEX								
15	14		7						0			
	LINE REQUIRING EXPANSION DATA	1   1   1	TABLE NO.	ENTRY NO.								
		1     11	(NOTE 3)	(NOTE 3)								
		2ND WORD OF NORMAL LINE										
		15								0		
		TECALE		LCC INDEX								
15	14		7						0			

--> (See Fig. 10E expansion entries)



FIGURE 10C (CONTINUED) FOUR DIGIT TRANSLATION - HUNDREDS GROUP TABLE

EXPANSION ENTRIES (SEE FIG. 11)	
LINE HAS A SERIES COMPLETION DIRECTORY NO.	0   1   1   1   15   14   13   12
	TERMINAL EQUIPMENT NUMBER 0
	SERIES COMPLETION DIRECTORY NUMBER (NOTE 2)
LINE HAS A KEY SCAN POINT NO.	1   0   0   1   
	TERMINAL EQUIPMENT NUMBER
	KEY SCAN POINT NUMBER
	TN // // // //   // // // //
LINE HAS BOTH A KEY SCAN POINT NUMBER AND A SERIES COMPLETION DIRECTORY NUMBER	1   0   1   1   
	TERMINAL EQUIPMENT NUMBER
	KEY SCAN POINT NUMBER
	TN // // // //   // // // //
	SERIES COMPLETION DIRECTORY NUMBER (NOTE 2)
	//////

## NOTES:

- There are 8 possible 3-word entries in the Hundreds Group Table.
- Series completion number entry contains the 7 digit telephone number in packed format. The Office Code is any MOC in the office. See Note 3 of Fig. 2C for format.
- Word points to a 2 or 4 word expansion via EXP1BL, Fig. 11A.
- IDX\_BNK (Expanded)
 

= 0 - Vacant	= 8 - Non-published
= 1 - Resident disconnect	= 9 - Manual line
= 2 - Business disconnect	= 10 - Intercept
= 3 - Resident change	= 11 - Dial long lines
= 4 - Business change	= 12 - Public coin
= 5 - Do not assign	= 13 - Semi-public coin
= 6 - Plant assignment	= 14 - Reserve
= 7 - Remark on tape	= 15 - (Spare)

## FIGURE 10E (CONTINUED) FOUR DIGIT TRANSLATION - HUNDREDS GROUP TABLE

## NOTES (CONTINUED):

## 5. DATA CROSS-REFERENCE AND DESCRIPTION

TABLE ENTRY	DATA NAME	INPUT MESSAGE		ESS FCRM		DESCRIPTION	
		KEYWORD	NO.	ITEM	COLUMN(S)		
UNASSIGNED WITH REMARKS	IDX_RNK	FC:LINE	FKR	3100-1	-	63-75	See Note 4
	MONTH_RNK	-	-	-	-	-	1-12 = Month of year
	YR_IDX_RNK	-	-	-	-	-	0-9 = Last digit of year 10-14 = Not used 15 = Entry older than 3 years
INTERCEPT OR SPECIAL ROUTING WITH REMARKS	IDX_RNK	RC:LINE	FKR	3100-1	-	63-75	See Note 4
	MONTH_RNK	-	-	-	-	-	1-12 = Month of year
	YR_IDX_RNK	-	-	-	-	-	0-9 = Last digit of year 10-14 = Not used 15 = Entry older than 3 years
NORMAL LINE	ROUTE INDEX	RC:LINE	FTI	3100-1	-	53-55	Special routing Route Index
	THCC	RC:LCC	THAJ	3306-1	-	27-28	Terminating Major Class Code. See Fig 2C, Note 8 26 = Intercept 31 = Special routing
	LCC INDEX	RC:LCC	-	-	-	-	Line Class Code Index (Program assigned)
	TRCALM	RC:LINE RC:MTL	TRC	3107-2	-	56-58	Trace & Alarm 0 = No trace 1 = Major alarm on trace 2 = Minor alarm on trace 3 = No alarm on trace
	TERMINAL EQUIPMENT NUMBER	RC:LINE	CE	3109-1	-	24-29	Office equipment number.
	TER NJ CL CD	RC:LCC	THAJ	3306-1	-	27-28	Terminating major class code. See Fig 2C, Note 8
	TBC	RC:LINE	TBC	---	-	-----	Call trace feature.

(continued)

## FIGURE 10C (CONTINUED) FOUR EIGHT TRANSIATION - HUNDREDS GROUP TABLE

NOTES (CONTINUED):

## 5. DATA CROSS-REFERENCE AND DESCRIPTION

TABLE ENTRY	DATA NAME	INPUT MESSAGE		ESS FORM			DESCRIPTION
		KEYWORD	NO.	ITEM	COLUMN(S)		
NORMAL LINE (continued)	OX	RC:LINE	GST	3100-1	-	35	If OX = 1, the Line Subtranslator has terminating translation data.  1. Ground start.  2. Call forwarding index.  3. Sleeve lead distributor triplet address.  4. Noisy line circuit distributor triplet address.
		RC:LINE	ESH	3100-1	-	39	
		RC:LINE	DF	3107-1	-	42-47	
		RC:LINE	DPU	3107-1	-	42-47	
	ROUTE INDEX	RC:LINE	RTI	3100-1	-	53-55	Route Index.
	ESX	RC:LINE	ESX	3100-1	-	38	Call waiting feature.
	LCC INDEX	RC:LCC	-	-	-	-	Line Class Code Index (Program assigned).
	TRCALM	RC:LINE RC:MTL	TFC	3107-2	-	56-58	Trace & Alarm. 0 = No trace 1 = Major alarm on trace 2 = Minor alarm on trace 3 = No alarm on trace
LINE REQUIRING EXPANSION DATA	TER HJ CL CE	RC:LCC	TMAJ	3306-1	-	27-28	Terminating major class code. See Fig. 2C, Note 8
	TRC	RC:LINE	TFC	----	-	-----	Call trace feature.
	ESX	RC:LINE	ESX	3100-1	-	38	Call waiting feature.
	LCC INDEX	RC:LCC	-	-	-	-	Line Class Code Index (program assigned).
	TRCALM	RC:LINE RC:MTL	TFC	3107-2	-	56-58	Trace & Alarm. 0 = No trace 1 = Major alarm on trace 2 = Minor alarm on trace 3 = No alarm on trace

(continued)

FIGURE 101 (CONTINUED) FOUR DIGIT TRANSLATION - HUNDREDS GROUP TABLE

NOTES (CONTINUED):

## 5. DATA CROSS-REFERENCE AND DESCRIPTION

TABLE ENTRY	DATA NAME	INPUT MESSAGE		ESS FORM		DESCRIPTION	
		KEYWORD	NO.	ITEM	COLUMN(S)		
LINE REQUIRING EXPANSION DATA (continued)	ROUTE INDEX OX	RC:LINE	R11	3100-1	-	53-55	Route Index. If OX = 1, the Line Subtranslator has terminating translation data.
		RC:LINE	GS1	3100-1	-	35	1. Ground start
		RC:LINE	ESP	3100-1	-	39	2. Call forwarding index
		RC:LINE	DP	3107-1	-	42-47	3. Sleeve lead distributor triplet address
		RC:LINE	DPU	3107-1	-	42-47	4. Noisy line circuit distributor triplet address
NORMAL LINE AUTOCONNECT	TERMINAL EQUIPMENT NUMBER	RC:LINE	OE	3100-1	-	24-29	Office equipment number.
	TER MJ CL CD	RC:LCC	THAJ	3306-1	-	27-28	Terminating Major Class Code. See Fig. 2C, Note 8 29 = Autoconnect
	RETURN TRIGGER INDEX	-	-	-	-	-	Return Trigger Index into the Callback Number translator.
	LCC INDEX	RC:LCC	-	-	-	-	Line Class Code Index (Program assigned).
PBX/HLHG	PBX/HLHG NUMBER	RC:LINE RC:NTI	TBC	3107-2	-	56-58	Trace & Alarm. 0 = No trace 1 = Major alarm on trace 2 = Minor alarm on trace 3 = No alarm on trace
		RC:NTL	BNI	3100-1	-	46-47	Multi-line group number.
	1ST HUNT MEMBER NO.	RC:NTL	TEB	3100-1	-	48-49	First hunt multi-line hunt group terminal (member) number. First hunt number is the member number for this IV.
(continued)							

FIGURE 10E (CONTINUED) FOUR DIGIT TRANSLATION - HUNDREDS GROUP TABLE

NOTES (CONTINUED):

## 5. DATA CROSS-REFERENCE AND DESCRIPTION

TABLE ENTRY	DATA NAME	INPUT MESSAGE	ESS FCBE			DESCRIPTION
			KEYWORD	NC.	ITEM   COLUMN(S)	
PBX/MLHG (continued)	TER MJ CL CD	RC:LCC	TEAJ	3306-1	- 27-28	Terminating major class code. See Fig.2C, Note 8
	TRC	RC:MTL	TBC	---	-	Call trace feature.
	OX					If OX = 1, the Line Subtranslator has terminating translation data.
		RC:MTL	GSI	3100-1	- 35	1. Ground start
		RC:MLHG	GSI	3105-1	- 30	
		RC:MTL	ESP	3100-1	- 39	2. Call forwarding index
		RC:MTL	DP	3107	- 42-47	3. Sleeve lead distributor triplet address
		RC:MTL	DFC	3107	- 42-47	4. Noisy line circuit distributor triplet address
	LAST HUNT MBR NO.	RC:MTL	LHI	3100-1	- 50-51	Last hunt multi-line hunt group terminal (member) number.
	LCC INDEX	RC:LCC	-	-	-	Line Class Code Index (Program assigned).
TRCALM	RC:LINE RC:MTL	TBC	3107-2	- 56-58	Trace & Alarm. 0 = No trace 1 = Major alarm on trace 2 = Minor alarm on trace 3 = No alarm on trace	
PBX/MLHG MEMBER DENIED TERMINATION	PBX/MLHG NUMBER	RC:MTL	HPI	3100-1	- 46-47	Multi-line hunt group number.
	1ST HUNT NO.	RC:MTL	TEF	3100-1	- 48-49	First hunt multi-line hunt group terminal (member) number.
	TER MJ CL CD	RC:LCC	TNAJ	3306-1	- 27-28	Terminating major class code. See Fig.2C, Note 8 30 = Denied

(continued)

FIGURE 101 (CONTINUED) FOUR DIGIT TRANSLATION - HUNDREDS GFCUF TABLE

## NOTES (CONTINUED):

## 5. DATA CROSS-REFERENCE AND DESCRIPTION

TABLE ENTRY	DATA NAME	INPUT MESSAGE	ESS FCPE			DESCRIPTION
			KEYWORD	RC.	ITEM COLUMN(S)	
PBX/PLW MEMBER DENIED TERMINATION (continued)	ROUTE INDEX	RC:RTI	RTI	3100-1	- 53-55	Route Index.
	LCC INDEX	RC:LCC	-	-	-	Line Class Code Index (Program assigned).
EXPANSION ENTRIES	TERMINAL EQUIPMENT NUMBER	RC:LINE	OF	3100-1	- 24-29	Office equipment number.
	SERIES COMPLETION NUMBER	RC:LINE	SEF	3100-1	- 56-59	The series completion number entry contains the 4-digit station number in BCE. The MCC is the same as the entry MCC.
	KEY SCAN POINT NUMBER	RC:LINE	SP	3107-1	56-60	A scan point entry is required for the following type of lines: 1. Individual lines requiring the remote make busy feature. 2. Mobile radio lines. 3. TA Concentrator lines. 4. Group alerting lines. 5. Subscriber loop multiplexer lines.
	TOPE (TN)	RC:LINE	BSY	3107-1	- 55	tone 0 = Reorder 1 = Busy

FIGURE 11 EXPANSION TABLES

FIGURE 11A GENERAL PURPOSE EXPANSION TABLES

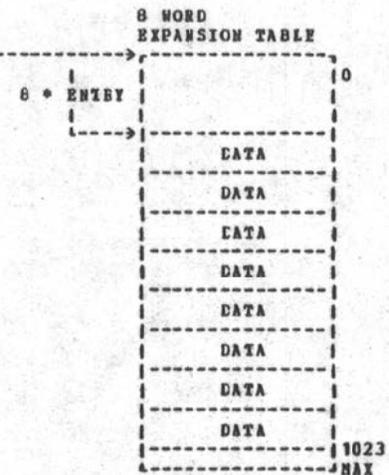
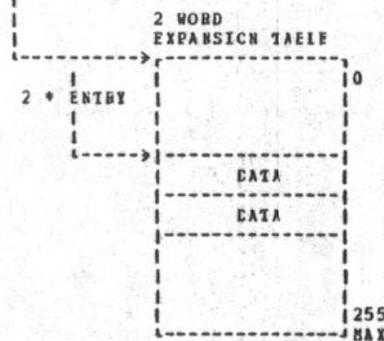
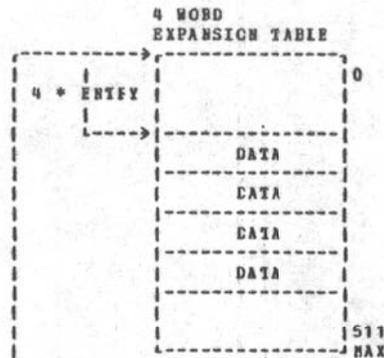
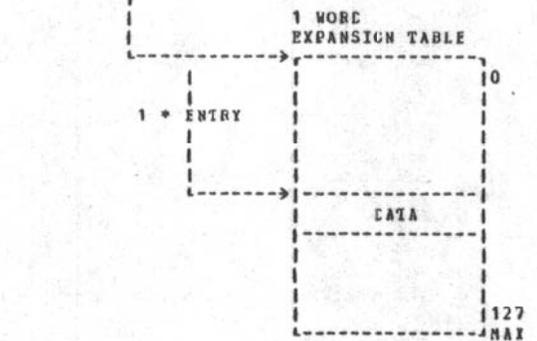
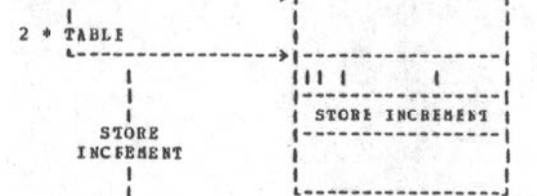
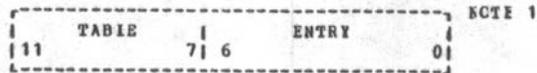


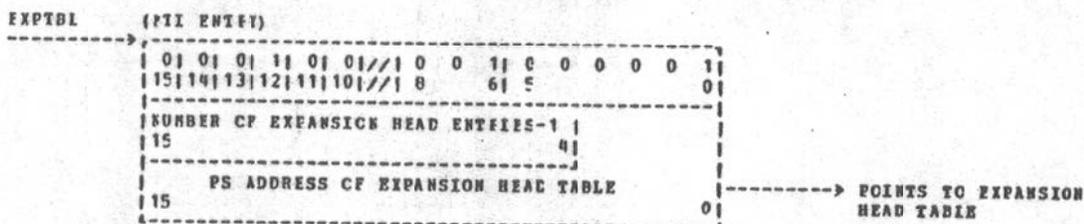
FIGURE 11A (CONTINUED) GENERAL PURPOSE EXPANSION TABLES

NOTES:

1. The following tables require General Purpose Expansion Tables:

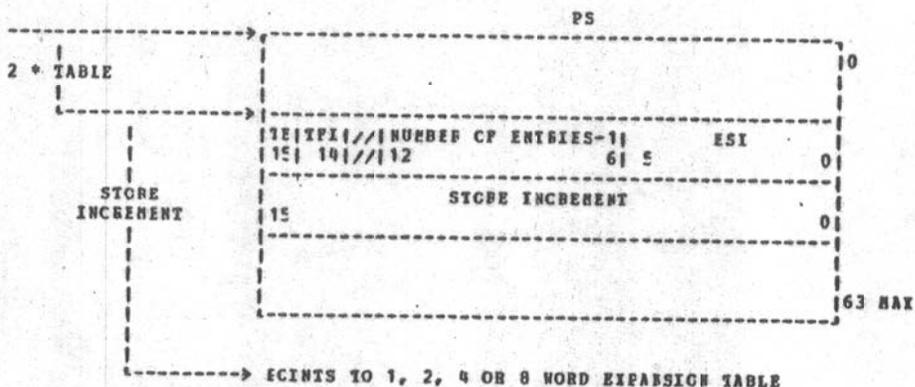
- a) Line Subtranslator,
- b) Hundreds Group Table, and
- c) Route Index Expansion Table.

2. Master Table Index Entry



3. EXPANSION HEAD TABLE

POINTED TO BY  
MTI ENTRY

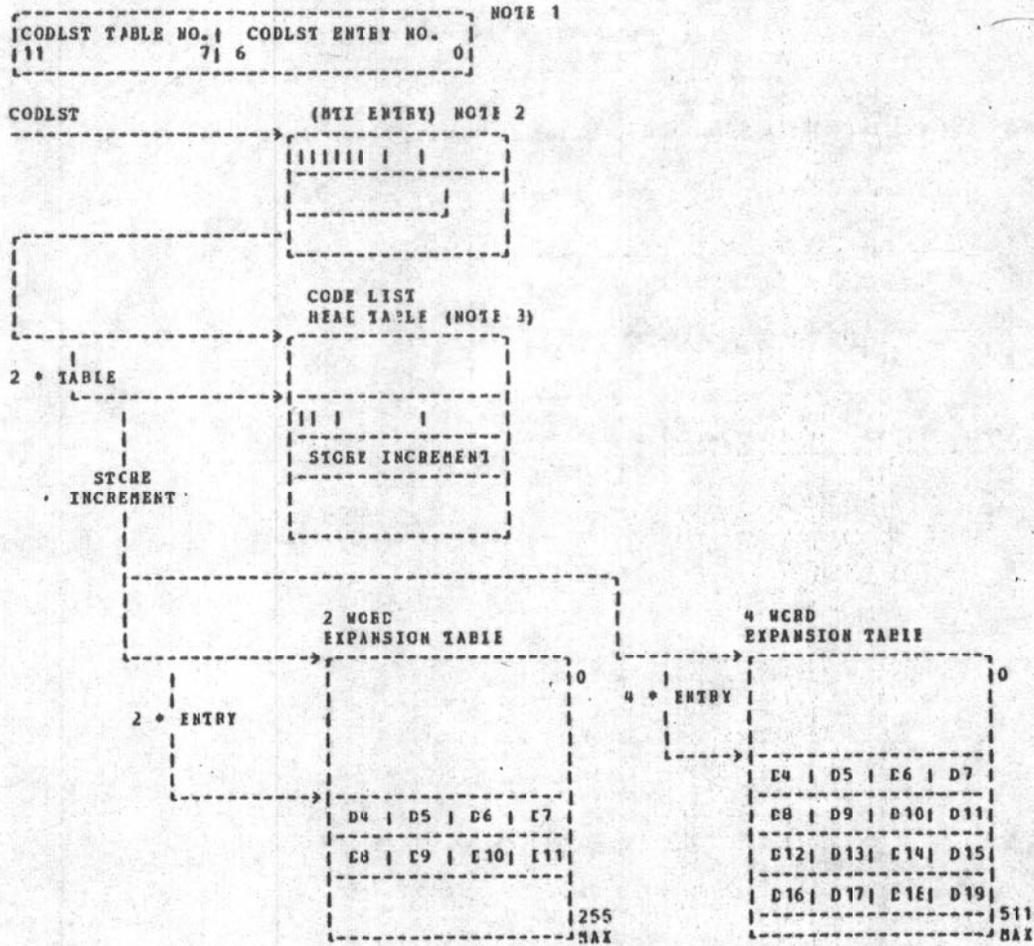


ENTRY SIZE INDICATOR (ESI) = LOG (NO. OF WORDS IN ENTRY). The valid values for ESI are 0, 1, 2 & 3 for 1, 2, 4 & 8 word entries, resp.

If TE = 1, then the Table Exists.

If TFI = 1, then the Table is full (all entries are used).

FIGURE 11B CODE LIST EXPANSION TABLES







GRCUP TRANSLATIONS

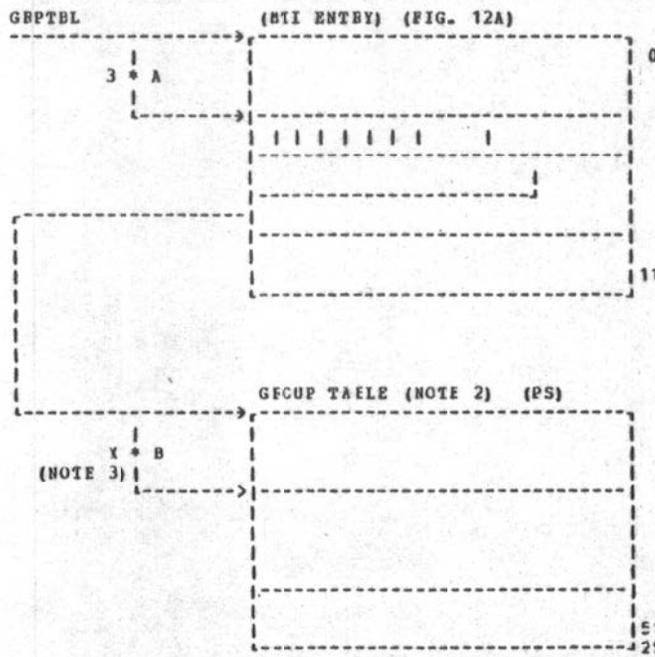
INDEX OF FIGURES

- Figure 12 - Group Translation - PBX/NLHG, Service Circuits, Trunks
- Figure 13 - Selection Status Elcks
- Figure 14 - 3-Port Status Bits
- Figure 15 - Nester Lists

FIGURE 12 GROUP TRANSLATION 421410

(NOTE 1)

GROUP NUMBER	
71615	0
A	B



NOTES:

1. The GROUP NUMBER is from the Universal Subtranslator (SPN Translation Fig. 2B) or from the Route Index Translator (Fig. 18).
2. There are 3 types of group tables:
  - a) PBX/HLHG Group Table (Fig. 12B).
  - b) Service Circuit Group Table (Fig. 12C).
  - c) Trunk Group Table (Fig. 12D).
3. X = 8 for PBX/HLHG and Trunk Group Tables.  
X = 4 for Service Circuit Group Table.

FIGURE 12A GROUP TRANSLATION - MTI ENTRY

GRPTBL

(RTI ENTRY)

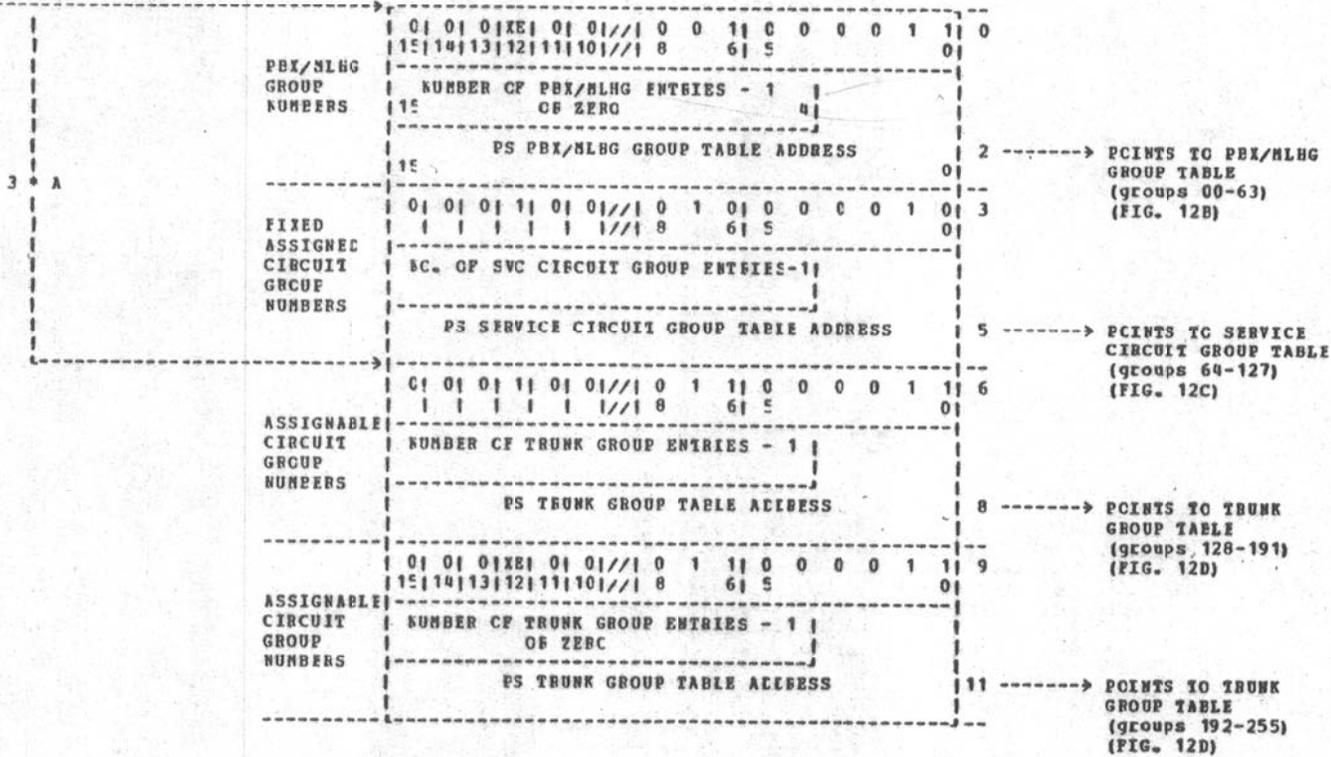


FIGURE 12B GROUP TRANSLATION - PBX/MLHG GROUP TABLE

POINTED TO BY MTI ENTRY		PBX/MLHG GROUP TABLE (PS)		
8 + E				0
ESC	EL	GST	CRIG MAJOB CLASS	SCREENING CLASS
15	14	13	7 6 5	0
GPS=00		SELECTION STATUS BLOCK INDEX (TS)		0
15 14 13		(See Fig. 1A, para. 2B)		0
GPM=00		MEMBER LIST INDEX		0
15 14 13		(See Fig. 1A, para. 1D)		0
0		FILLING NUMBER		0
14		(SEE FIG. 2 NOTE 3)		0
///	BLN	SS	SOB	CHL
///	14	13	12	11 10
		SPEED CALL 8 INDEX		0
ICC INDEX		SPEED CALL 30 INDEX		0
15		12 11 10		0
FE	TRAP SCHE	HURT SIZE	HIGHEST MEMBER NUMBER	0
15	14	12 11	6 5	0
SEE NOTE 2				
1511 MAX				

(continued)

FIGURE 12E (CONTINUED) GROUP TRANSLATION - FBI/NLPG GROUP TABLE

EXPANSION ENTRIES (NOTE 3)

2, 4 or 8 WORD EXPANSIONS

//////	NIGHT STOP MEMBER NO.   STOP HUNT MEMBER NO.	0
//////	11   6   5   0	0
//////	KEY SPN	0
//////	12	1
//////	KEY SPN	
//////	KEY SPN	3
//////	KEY SPN	
SEE NOTE 4		1, 3 or 7

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2, 4 or 8 WORD EXPANSIONS

//////	KEY SPN	0
//////	12	0
//////	KEY SPN	1
//////	KEY SPN	
//////	KEY SPN	1, 3 or 7

FIGURE 12B (CONTINUED) GROUP TRANSLATION - PBX/MLHG GECUE TABLE

## NOTES:

## 1. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INPUT MESSAGE	ESS FORM		DESCRIPTION
		KEYWORD	NUMBER COLUMN(S)	
ESC	RC:MLHG	ESC	3105-1 37	Threeway calling feature
EL	RC:MLHG	EL	3105-1 31	Essential line (Class A line)
GST	RC:MLHG	GST	3105-1 30	Ground start.
ORIG MAJOR CLASS	RC:MLHG	LCC	3105-1 27-29	Originating major class code. See Fig. 2C, Note 8.
TTC	RC:MLHG	TTC	3105-1 32	Touch-Tone calling feature.
SCREENING CLASS	RC:MLHG	LCC	3105-1 27-29	Screening class.
GPS	RC:MLHG	HML	3105-1 20-21	High 2 bits of group number (GPS = 00)
GPM	RC:MLHG	HML	3105-1 20-21	High 2 bits of group number (GPM = 00)
BLN	RC:MLHG	BLN	3105-1 38	Special toll billing (Q2 billing, CHN).
SOE	RC:MLHG	SOB	----	Service observing feature.
CHL	RC:MLHG	CHL	3105-1 35	If CHL = 1, the MLHG lines are allowed to dial in direct changes to the group's speed call 1-digit list.
CHF	RC:MLHG	CHF	3105-1 33	If CHF = 1, the MLHG lines are allowed to dial in direct changes to the group's speed call 2-digit list.
SPEED CALL 8 INDEX	RC:MLHG	ESL	3105-1 36	Used to index the SC 8 HEAD TABLE (FIG. 5). The index is program assigned when speed call 1-digit service is given. The index must be $\geq 1$ , if assigned.
SPEED CALL 30 INDEX	RC:MLHG	ESP	3105-1 34	Used to index the SC 30 HEAD TABLE (FIG. 6). The index is program assigned when speed call 2-digit service is given. The index must be $\geq 1$ , if assigned.

FIGURE 12B (CONTINUED) GROUP TRANSLATION - PEX/MLHG GROUP TABLE

## NOTES:

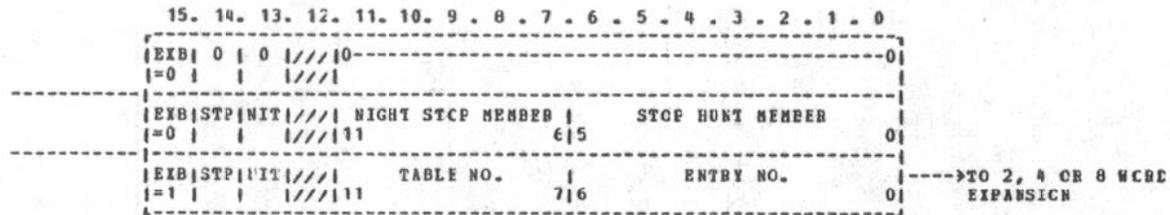
## 1. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INPUT MESSAGE	ESS FORM		DESCRIPTION
		KEYWORD	NUMBER CLUB(S)	
PE				If PE = 1, the PEX/MLHG exists.
TRAF SCHED	RC:MLHG	SCHED	3105-1 50	Traffic schedule: If TRAF SCHED = 000, no schedule (reserved). = 001, no schedule (reserved). = 010, h schedule. = 011, c schedule. = 100, d schedule.
HUNT SIZE	RC:MLHG	HSZ	3105-1 24-25	Last huntable terminal for the group.
HIGHEST MEMBER NUMBER	DIST:GRP	-	3105-1 22-23	Highest member number in group, including spares.
STP	RC:MLHG	EHT	3105-1 48-49	If STP = 1, the PEX/MLHG has a stop hunt feature.
NIT	RC:MLHG	NST	3105-1 46-47	If NIT = 1, the PEX/MLHG has the night stop feature.
NIGHT STOP MEMBER NO.	RC:MLHG	NSI	3105-1 46-47	Last terminal to be hunted when the night stop feature exists (NIT = 1).
STOP HUNT MEMBER NO.	RC:MLHG	EHT	3105-1 48-49	Last terminal to be hunted when the stop hunt feature exists (STP = 1).
SS	RC:MLHG	SS	-- --	Special studies feature. Recent changeable only.
EXB		-	-- --	If EXB = 1, the PEX/MLHG has SPNS assigned for remote wake busy, stop hunt and/or night stop and the SFNs are in an expansion entry. SEE NOTE 2.
EE		-	-- --	If EE = 1, the PEX/MLHG has another expansion entry. SEE NOTE 4.
KEY SPN	RC:MLHG		3576 20-25	Key Scan Point Number used for night stop key, stop hunt key, and the 7 remote wake busy keys. SEE NOTE 3.
LCC INDEX	RC:LCC	-	-- --	Line Class Code Index (program assigned).

FIGURE 12E (CONTINUED) GROUP TRANSLATION - PBX/HLHG GROUP TABLE

NOTES: (CONTINUED)

- Word 7 of the PBX/HLHG group data can take on either of 3 formats. The second format is used when the PBX/HLHG has night stop and/or stop hunt members, but not SEN keys. The third format is used when the PBX/HLHG has SEN keys.



- The SPNs in the expansion entries are stored sequentially as they are inputted. The size of the expansion needed is dictated by the quantity of scan point keys.
- The last word of the 2, 4 or 8-word expansion entry can take on either of 2 formats. The second format is used when the key SPN data needs more than a 2-word entry (more than 1 PBX key), or a 4-word entry (more than 3 PBX keys), or an 8-word entry (more than 7 PBX keys). The maximum number of KEY SPNs is 5.

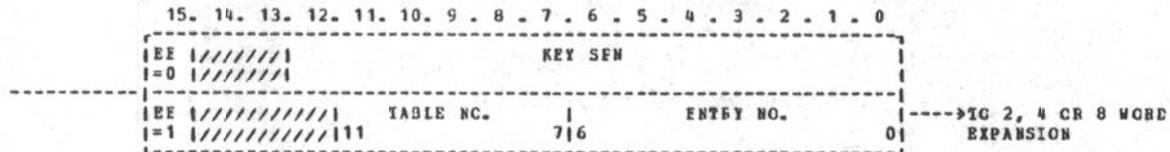
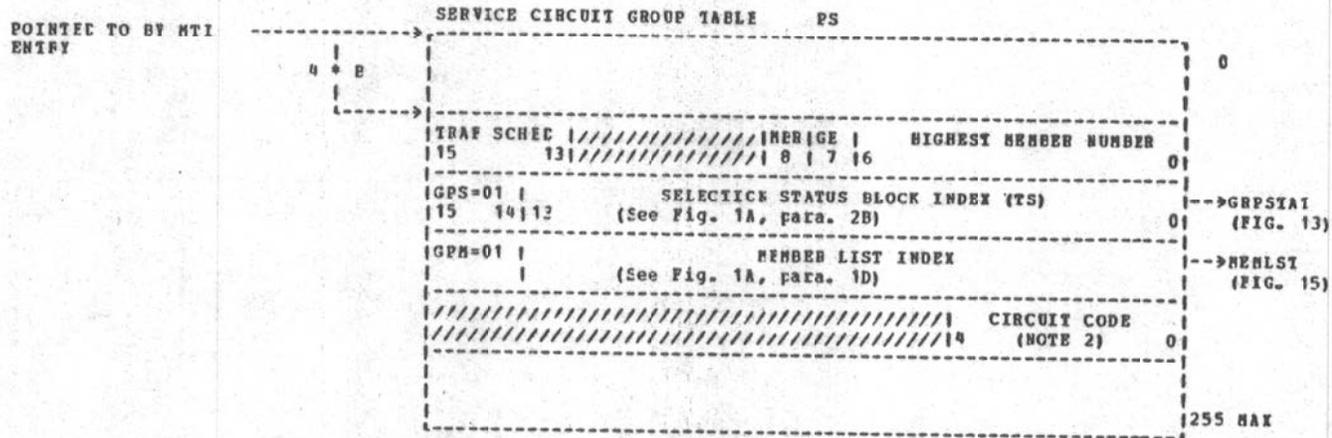


FIGURE 12C SERVICE CIRCUIT GROUP TABLE



NOTES:

1. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INPUT MESSAGE	ESS FCBF		DESCRIPTION
		KEYWORD	NUMBER   COLUMN(S)	
TRAF SCHED	RC:GRP	SCHED	3201-1   25	Traffic schedule; If TRAF SCHED = 000, no schedule (reserved). 001, no schedule (reserved). 010, H schedule 011, C schedule 100, D schedule
MBR	RC:CKI	TER	3201-1   40-42	If MBR = 1, the group has at least one member.
GE	DIST:GRP	GBP	3202-1   22-24	Group exists flag.
HIGHEST MEMBER NUMBER	DIST:GRP	-	3202-1   26-28	Highest member number in group, including spares.

FIGURE 12C (continued) SERVICE CIRCUIT GROUP TABLE

NOTES (continued):

## 1. DATA CROSS-REFERENCE AND DESCRIPTION (continued)

DATA	INPUT MESSAGE		ESS FORM		DESCRIPTION
	KEYWORD	NUMBER	COLUMN(S)		
GPS	RC:GRP	GRP	3202-1	22-24	High 2 bits of group number (GPS = 01).
GPH	RC:GRP	GRP	3202-1	22-24	High 2 bits of group number (GPH = 01).
CIRCUIT CODE	RC:GRP	CKT	3202-1	43-44	Circuit code (NOTE 2).

## 2. CIRCUIT CODE DESCRIPTION AND SERVICE CIRCUIT GROUP CROSS-REFERENCE (See Note 5)

CIRCUIT CODE	GROUP NO.	DESCRIPTION	SE	CPS-FB
0	77	Local Overtime Coin and/or Stuck Coin Announcement	3H411	383
	78	Dial Tone First Coin Announcement		
	79	Permanent Signal Announcement		
	80	Partial Dial Announcement		
	81	No "1+" dialing error announcement		
	82	Extra "1+" dialing error announcement		
	83	Vacant code and no such number announcement		
	84	Custom calling error announcement		
	85	Remote recording announcement		
	91	Test group for tone and announcement circuits		
103	92	Receiver off-hook tone	99392	--
	93	Busy tone		
	94	High tone		
	95	Low tone		
	96	Call waiting tone		
	97	Loop Check Generator tone		
	103	ROTL Control Circuit		
8	65	Customer Dial Pulse Receiver	3H410	367
9	64	Touch-Tone Receiver - includes: Customer Dial Pulse Receiver and Touch-Tone Calling Detector	3H410	367
			3H401	
10	66	Multifrequency Receiver	3H402	
			3H404	
11	67	Multifrequency Transmitter	3H404	

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## FIGURE 12C (continued) SERVICE CIRCUIT GROUP TABLE

NOTES (continued):

## 2. CIRCUIT CODE DESCRIPTION AND SERVICE CIRCUIT GROUP CROSS-REFERENCE

CIRCUIT CODE	GROUP NO.	DESCRIPTION	SD	CPS-PB
12	68	Dial Pulse Transmitter	3H403	403
13	69	Regular Ringing (See Figure 34, Note 8 for Scan Rate)	3H410	358
14	70	Superimposed Ringing (See Figure 34, Note 8 for Scan Rate)	3H406	375, 376
15	71	Coin Control	3H411	423
16	104	Conference Circuit	3H230	427
18	110	Station Ringer Test	3H520	521, 522
19	111	Other test circuits (NOTE 3).		

## 3. Other test circuits are included in one service circuit group with fixed member number assignments. (See Note )

CIRCUIT CODE	GROUP NO.	MEMB NO.	ASSIGNED MEMBERS FOR GROUP 111	SD	CPS-PB
		0	Tone Presence Detector		516, 517
		1	Milliwatt and Transmission Environment Test - Port 0 (Note 4)		505-509
		2	Continuity and Clarity Test		500
		3	Loop Environment Test		510
19	111	4	Milliwatt and Transmission Environment Test - Port 1 (Note 4)	3H520	505-509
		5	Dial Pulse Receiver Test		501, 502
		6	Transmission Test Termination		504
		7	Line Insulation Test		669
		8	Touch-Tone Receiver Test		526-529

## 4. This test circuit does not follow the multiport rules given in Section 200, Note 8. Each port has its own SFF, TEN and follows the universal subtranslator type 1.

FIGURE 12C (continued) SERVICE CIRCUIT G6COP TABLE

NOTES (continued):

5. SERVICE CIRCUIT CODE DEFINITION TABLE.

CKT CODE	DESCRIPTION	# OF PORTS	# OF S SPN	# OF D SPN	# OF TP SPN	# OF DTA
0	TONE & ANNOUNCEMENT CKTS	1	1	0	0	0
8	CUSTOMER DIAL PULSE RECEIVER CKT	1	1	0	0	1
9	TOUCH-TONE RECEIVER - INCLUDES: CUSTOMER DIAL PULSE RECEIVER CKT	1	1	0	0	1
	TOUCH-TONE CALLING DETECTOR CKT	0	0	8	1	0
10	MULTIFREQUENCY RECEIVER CKT	1	1	6	1	1
11	MULTIFREQUENCY TRANSMITTER CKT	1	1	2	0	3
12	DIAL PULSE TRANSMITTER CKT	1	1	1	0	1
13	REGULAR RINGING CKT	1	1	1	0	1
14	SUPERIMPOSED RINGING CKT	1	1	1	0	2
15	CCIN CONTROL CKT	1	1	0	0	2
16	CONFERENCE CKT	3	0	0	0	0
18	STATIC FINGER TEST CKT	2	1	8	1	1
19	OTHER TEST CIRCUITS:					
	CONTINUITY & POLARITY TEST	1	1	0	0	1
	DIAL PULSE RECEIVER TEST	1	1	0	0	2
	TRANSMISSION TEST TERMINATION	1	1	0	0	1
	RW & TRANSMISSION ENVIRONMENT TEST	2	2	0	0	2
	LOOP ENVIRONMENT TEST	1	1	1	0	2
	TONE PRESENCE DETECTOR	1	1	0	0	1
	LINE INSULATION TEST	1	1	2	0	4
	TOUCH-TONE RECEIVER TEST	1	1	0	0	5

FIGURE 120 TRUNK GROUP TABLE

POINTED TO BY NTI ENTRY		TRUNK GROUP TABLE										PS						
6	TRAFFIC SCHEM	//////////////////////										NUMBER   GE   HIGHEST MEMBER NUMBER						
	15	13	//////////////////////										8	7	6	0		
1	GPS	SELECTION STATUS BLOCK INDEX (TS)										11-->GRPSTAT						
	15	14	13	(See Fig. 1A, para. 2B)										0	(FIG. 13)			
2	GPN	MEMBER LIST INDEX										12-->MEMLIST						
		(See Fig. 1A, para. 1D)										0	(FIG. 15)					
3	//////////////////////										CIRCUIT CODE (NOTE 2)							
	//////////////////////										4	0						
4	DISC	BYLK	LID	NT	EN	2WAY	LP	OLP	START	CHF	GCE	CTYP						
	15	14	13	12	11	10	9	7	6	5	4	3	2	1	0			
5	CHGE	//////////////////////										ID_XLN		ID_AUX				
	15	//////////////////////										9	7	6	0			
	//////////////////////										EBS		STP		AODB		SIG	
	//////////////////////										5	3	2	1	0			
	NC_DGN	//////////////////////										TOTANI						
	DGN	//////////////////////										5	0					
											511 HAX							

FIGURE 12D (continued) TRUNK GROUP TABLE

## NOTES:

## 1. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INPUT MESSAGE		ISS FORM		DESCRIPTION
	KEYWORD	NUMBER	COLUMN(S)		
TRAFFIC SCHED	RC:GRP	SCHED	3202-3	25	Traffic schedule: If TRAFFIC SCHED = 000, no schedule (reserved) 001, no schedule (reserved) 010, H schedule 011, C schedule 100, D schedule
MBR	RC:CKT	TEP	3201-1	40-42	If MBR = 1, the group has at least one member.
GE	DIST:GRP	GRP	3202-3	22-24	If GE = 1, the group exists.
HIGHEST MEMBER NUMBER	DIST:GRP	-	3202-3	26-28	Highest member number in group, including spares.
GPS	RC:GRP	GRP	3202-3	22-24	High 2 bits of grctf number (GPS > 01).
GPM	RC:GRP	GRP	3202-3	22-24	High 2 bits of grctf number (GPM > 01).
CIRCUIT CODE	RC:GRP	CKT	3202-3	22-24	Circuit code (NCTE 2).
DISC	RC:GRP	DISC	3204-1	30-33	Type of disconnect supervision required. DISC = 00, regular hold - standard disconnect procedures are used. = 01, joint hold - both parties must go on-hook (trunks to recording completing operator). = 10, service hold - disconnect when distant party goes on-hook (Toll Switch, TSPS, or No-Test). = 11, customer hold - disconnect when calling party goes on-hook. If this disconnect supervision is specified, AUDB is not allowed (CAMA and non-operator intercept trunks; i.e., answer supervision is not expected).
BYLK	RC:GRP	BYLK	3204-1	53	Bylink trunk from SIS office. (See Figure 34, Note 8 for Scan Rate)
LTD	RC:GRP	CKT	3202-3	22-24	If LTD = 1, the trunk is from or to a local test desk for circuit code = 17 (See Figure 34, Note 8 for Scan Rate)
NT	RC:GRP	NT	3204-1	56	If NT = 1, the trunk is a Nc Test Trunk.

## FIGURE 12D (continued) TRUNK GROUP TABLE

## NOTES (continued):

## 1. DATA CROSS-REFERENCE AND DESCRIPTION (continued)

DATA	INPUT MESSAGE	FSS FOR		DESCRIPTION
		KEYWORD	NUMBER COLUMN(S)	
EM	RC:GRP	EM	3204-1 29	Type of trunk supervision: If EM = 0, loop supervision is used. EM = 1, E & H supervision is used.
ZWAY	RC:GRP	DR	3204-3 40-42 3204-1 25-27	If ZWAY = 0, the traffic on the trunk is in one direction only. = 1, the traffic on the trunk is in both directions.
LP	RC:GRP	LP	3204-1 42	If LP = 1, long loop pulsing is required.
OLP	RC:GRP	OLP	3204-1 41	If CLP = 1, overlap outpulsing is permitted.
START	RC:GRP	ST	3204-1 49 3204-1 48	Start dial, specifies when to begin outpulsing on the outgoing trunk. START = 00: Immediate start (by-link) - specifies that outpulsing is to begin after the trunk is seized, or no outpulsing is required. = 01: Delay dial - specifies that outpulsing is to be delayed until the signal which is received from the distant office at seizure time, changes to on-hook. = 10: Wink start - wait 350 msec for end of wink. If a two-way trunk, a wink duration of greater than 350 msec assumes a glare situation and to let the other office win. = 11: Wink start (2-way only) - wait 1000 msec for end of wink.
OMF	RC:GRP	OMF	3204-1 39	If OMF = 1, MF outpulsing is required and ODP must be zero, except for trunks to SIS CANA, in which case both OMF & OFE must = 1. For this case, OTYP must = 01.
ODP	RC:GRP	ODP	3204-1 40	If ODP = 1, DP outpulsing is required and OMF must be zero, except for trunks to SIS CANA, in which case both OMF & OFE must = 1. For this case, OTYP must = 01.
OTYP	RC:GRP	OTYP	3204-1 34 3204-1 35 3204-1 36 3204-1 37	Outgoing trunk type. OTYP = 00: Regular trunk group. = 01: CANA trunk group. = 10: TSP trunk group or DAC on TSPS trunk group. = 11: TSPS trunk group.

FIGURE 12D (continued) TRUNK GROUP TABLE

NOTES (continued):

## 1. DATA CROSS-REFERENCE AND DESCRIPTION (continued)

DATA	INPUT MESSAGE	ESS FORM			DESCRIPTION
		KEYWORD	NUMBER	COLUMN(S)	
CHGE	RC:GRP	CHGE	3204-1	56	Charge: specifies that calls to a free termination line from this trunk are to be given answer supervision. This allows charging on incoming calls even if it is to a free termination, and also for proper operation of operator cord lamps. This bit should be set for all incoming operator and toll completing trunks. CHGE = 0 if free terminating line should not return answer supervision.
RTEQ	RC:GRP	RTEQ	3204-1	57	Remote Test Equipment Facilities: If RTEQ = 0, dedicated facilities are provided for local test desk. If RTEQ = 1, remote test equipment facilities (SD-99311-01) are provided for local test desk. Autoconnect procedures are used.
ID_XLN	RC:GRP	DR	3202-3	40	Incoming digit translation code which directs the initial translation as follows: ID_XLN = 000; trunk is 1 way outgoing.  = 01; NDE = 4, the 4 digits of the station number are expected. These digits are used in the four-digit translator specified in ID_AUX area. = 010; NDE = 5, five digits are expected. Ignore the first digit and use the last four in the 4-digit translator specified in the ID_AUX area. = 011; use one-digit translation on first digit received. = 100; Use 3-digit translation of first 3 digits received. = 101; the last 3 digits of the station number are expected. Form a 4-digit number from most significant (1000's) digit provided by ID_AUX and 3 received digits, then use 4-digit translation.
			3204-1	25	
		NDE	3202-3	38	
		CODE	3202-3	35-37	
		NDE	3203-3	38	
		CODE	3203-3	35-37	
		TBL	3203-3	31-32	
		SCR	3203-3	33-34	
NDE	3203-3	39			
CODE	3203-3	35-37			
THDIG	3203-3	39			



FIGURE 12D (continued) TRUNK GROUP TABLE

NOTES (continued):

## 1. DATA CROSS-REFERENCE AND DESCRIPTION (continued)

DATA	INPUT MESSAGE	ESS FORM		DESCRIPTION
		KEYWORD	NUMBER COLUMN(S)	
SIG	RC:GRP	SIG	3204-1 44,45	Type of signalling - for toll switch, recording completing operator, 2-way operator-office, TSPS, and Verification (No-test) trunk groups: 00 = MF Inband or Multiwink signalling are not used. 01 = MF Inband signalling. 10 = Multiwink signalling used for TSP or TSPS. 11 = Expanded MF Inband signalling used for TSPS. Codes 10 & 11 provide for use of the "operator attached" and "detached" signals from TSP(s) with DTF coin, as well as the "ring-back", "coin collect", and "coin return" functions normally provided by code 01. (See Figure 34, Note 8 for Scan Rate)
TOTANI	RC:GRP	TOTANI	3202-3 29-30	Terminal Office Test Access Number Index. A one or 2 digit test access number index. Range 1 through whatever the maximum defined index is for this office (maximum of 31). See TCIANTBI (MTI). The access number index must be an assigned number. A TCTANI can not be specified for TSP, TSPS, or operator trunks.
NO_DGN	RC:GRP	IDGN	3204-1 63	NO_DGN = 0, run diagnostics via daisy chain. = 1, do not run diagnostics via daisy chain.
DGN	RC:GRP	OTC	3204-1 62	Type of diagnostics during daisy chain. DGN = 0, continuity test only. = 1, run diagnostics per the TCTANI index (office to office test)

## FIGURE 12D (continued) TRUNK GROUP TABLE

## NOTES (continued):

## 2. CIRCUIT CODE DESCRIPTION AND TRUNK GROUP CROSS-REFERENCE (See Note 3)

CIRCUIT CODE	TRUNK GROUP NO.	DESCRIPTION	SE	CPS-PB
1		Two-way EGM Lead Trunk with Type 2 Interface	3H220	382
1		Two-way EGM Lead Trunk with Type 3 Interface		391
1		D4 Direct interface circuit	3C304	3C328
2		Spare		
3		Incoming Reverse Battery Trunk (wink or immediate)/911 Trunk		371
4	129- 255	Incoming Reverse Battery Trunk (delay dial)	3H220	370
5		Outgoing Reverse Battery High-Low Trunk		399
6		Spare		
7		Office to Office Test Trunk		429
17		Incoming Local Test Desk (No. 14 & 16)	3H520	519
--	128	Holding group for spare trunks of indicated types	3H220	370, 371, 382, 391, 399, 429,

PA-3H303

SECTION 500

FIGURE 12D (continued) TRUNK GROUP TABLE

NOTES (continued):

1. TRUNK CIRCUIT CODE DEFINITION TABLE

CKT CODE	DESCRIPTION	# OF PORTS	# OF S SPM	# OF D SPM	# OF 1P SPM	# OF DIA
1	TWO-WAY ECH LEAD TRUNK	1	1	0	0	1
1	TWO-WAY ECH TRUNK WITH TYPE 2 INTERFACE	1	1	0	0	1
1	TWO-WAY ECH TRUNK WITH TYPE 3 INTERFACE	1	1	0	0	1
2	SPARE					
3	INCOMING REVERSE BATTERY TRUNK (WINK OR IMMEDIATE)	1	1	0	0	1
4	INCOMING REVERSE BATTERY TRUNK (DELAY DIAL)	1	1	0	0	1
5	OUTGOING REVERSE BATTERY HIGH-LOW TRUNK	1	1	0	0	1
6	SPARE					
7	OFFICE TO OFFICE TEST TRUNK	1	1	0	0	1
17	INCOMING LOCAL TEST DESK (NO. 14 & 16)	1	1	4	0	1



FIGURE 12E (continued) TERMINAL OFFICE TEST ACCESS NUMBER TRANSLATOR

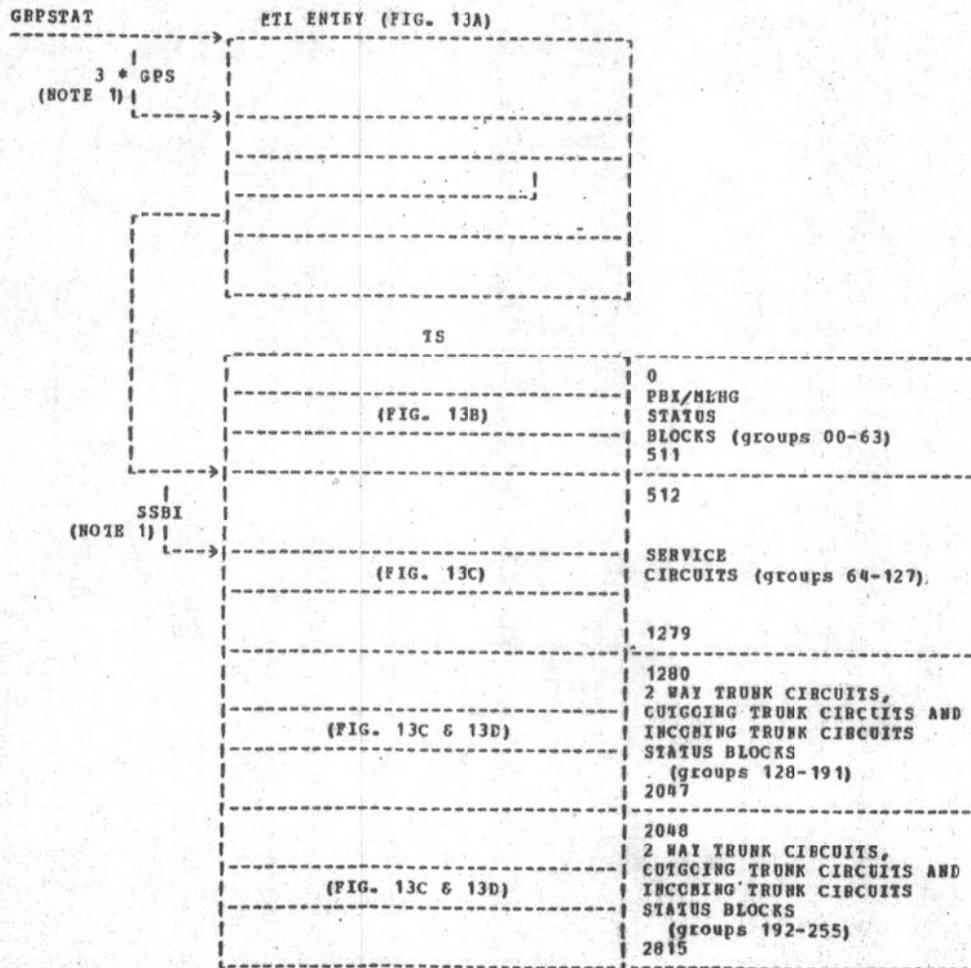
NOTES (continued)

## 3. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INPUT MESSAGE		ESS FCN			DESCRIPTION
	KEYWORD	NUMBER	ITEM	COLUMN		
TL1A-G	-	-	-	-	-	Permanent busy test line number. Digits are stored in ECD.
TL2A-G	-	-	-	-	-	Operational test line number. Digits are stored in ECD.
TEX	-	-	-	-	-	= 1 Entry exists.
SYN	TGTANI	SYNC	3505-1	-	42	= 0 Non-synchronous operational test. = 1 Synchronous operational test.
OPT	TGTANI	OPTN	3505-1	-	35-41	= 1 Operational test provided.
PBT	TOTANI	PBTN	3505-1	-	28-34	= 1 Permanent busy test provided.
APT	TGTANI	APT	3505-1	-	24	Automatic progression test code. = 0 No test is to be performed. = 1 Permanent busy test. = 2 Operational, synchronous test. = 3 Operational, non-synchronous test.
ACI	-	-	-	-	-	Area code index for NPA's. Addresses words 1-3 of this table.

4. TOTANIDX is from trunk group data table (See Figure 12D).

FIGURE 13 SELECTION STATUS BLOCKS



NOTES:

1. The Selection Status Block Index (SSBI) & GPS are from the Group Table (Fig. 12). See also Fig. 1A, para. 2B
2. The maximum number of words is determined as follows:
  - a) There may be a maximum of 8 words in each PBI/HLHG status block depending upon the number of members in each group. One PBI/HLHG status block is required for each PBI/HLHG. There may be a maximum of 64 PBI/HLHG. Therefore, there may be a maximum of 512 words in the PBI/HLHG status blocks.
  - b) There may be a maximum of 12 words in each trunk and service circuit status block depending upon the number of members in each group. One status block is required for each trunk or service circuit group. There may be a maximum of 192 trunk and service circuit groups. Therefore there may be a maximum of 2304 words in the trunk and service circuit status blocks.

2016 WORDS MAXIMUM (NOTE 2)

FIGURE 13A SELECTION STATUS BLOCKS - MII ENTRY

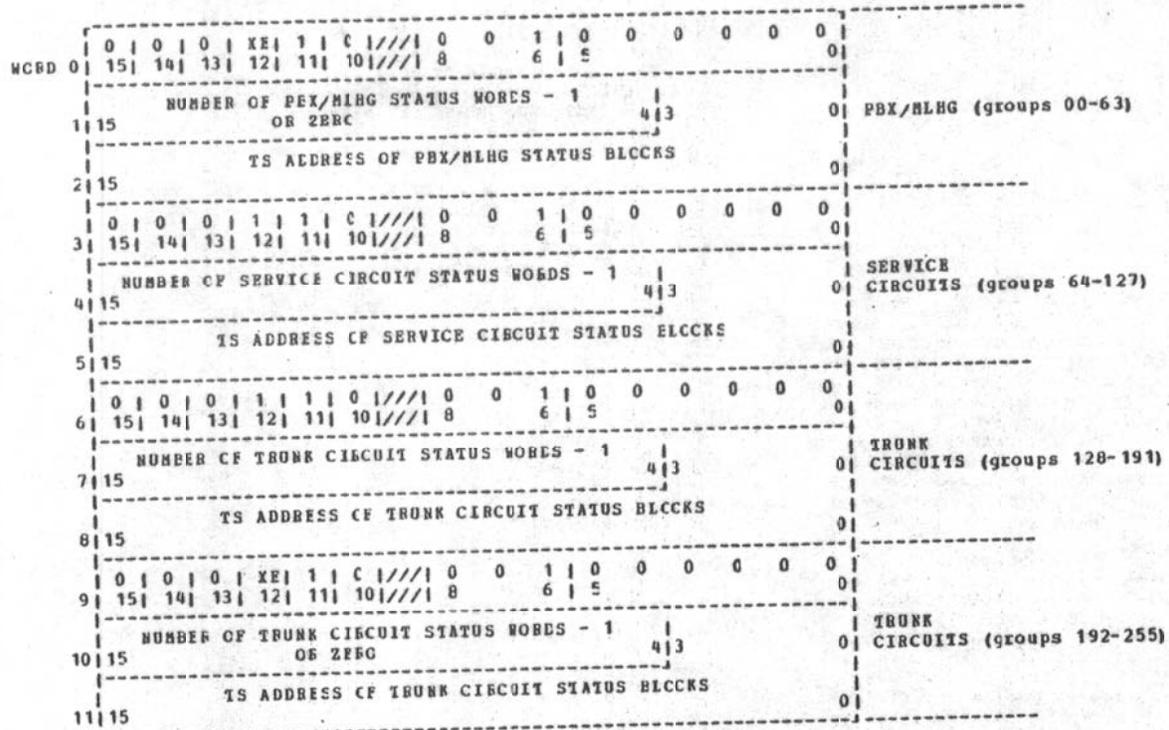


FIGURE 13E SELECTION STATUS BLOCKS - PEX/NIBG STATUS ELCCB  
TE

WORD	ACB	SH	NMB	RMB STATUS	1
0	15	9	18	17	1
	GROUP PEG COUNT				0
1	15				0
	GROUP USAGE COUNT				0
2	15				0
	CVERFLCN COUNT				0
3	15				0
	SELECTION STATUS BITS (MEMBERS 0 TO 15)				0
4	15				0
	SELECTION STATUS BITS (MEMBERS 16 TO 31)				0
5	15				0
	SELECTION STATUS BITS (MEMBERS 32 TO 47)				0
6	15				0
	SELECTION STATUS BITS (MEMBERS 48 TO 63)				0
7	15				0

OPTIONAL,  
DEFENDING  
ON HIGHEST  
MEMBER NO.

NOTES:

1. DATA DESCRIPTION

WORD	DATA	DESCRIPTION
0	ACB	ALL Circuits Busy. If ACB = 1, then all circuits are busy.
	NMB	Status of Night Make Busy key.
	RMB	Remote Make Busy keys.
	SH	Status of Stop Hunt key.

FIGURE 13 C SELECTION STATUS BLOCKS - SERVICE CIRCUITS, 2 WAY AND GIGGING TRUNK CIRCUITS  
TS

WORD 0	ACB NIS	MAINT BUSY CCUMTER	LAST CKT IDLEC	0
	15  14 13	7 6		
1	15	GRDUE FEG CCUMT		0
2	15	GRDUE USAGE CCUMT		0
3	15	CVEEFLCH COUNT		0
4	15	CIRCUITS SELECTION STATUS BITS (CKTS 0 TO 15)		0
5	15	CIRCUITS SELECTION STATUS BITS (CKTS 16 TO 31)		0
6	15	CIRCUITS SELECTION STATUS BITS (CKTS 32 TO 47)		0
7	15	CIRCUITS SELECTION STATUS BITS (CKTS 48 TO 63)		0
11	15	CIRCUITS SELECTION STATUS BITS (CKTS 112 TO 127)		0

OPTIONAL,  
DEPENDING  
ON  
HIGHEST  
MEMBER  
NUMBER

NOTES:

1. DATA DESCRIPTION

WORD	DATA	DESCRIPTION
0	ACB	All Circuits Busy. If ACB = 1, then all circuits are busy.
	NIS	Not In Service. If NIS = 1, then group is not in service.

FIGURE 131 SELECTION STATUS BLOCKS - INCOMING TRUNK CIRCUITS

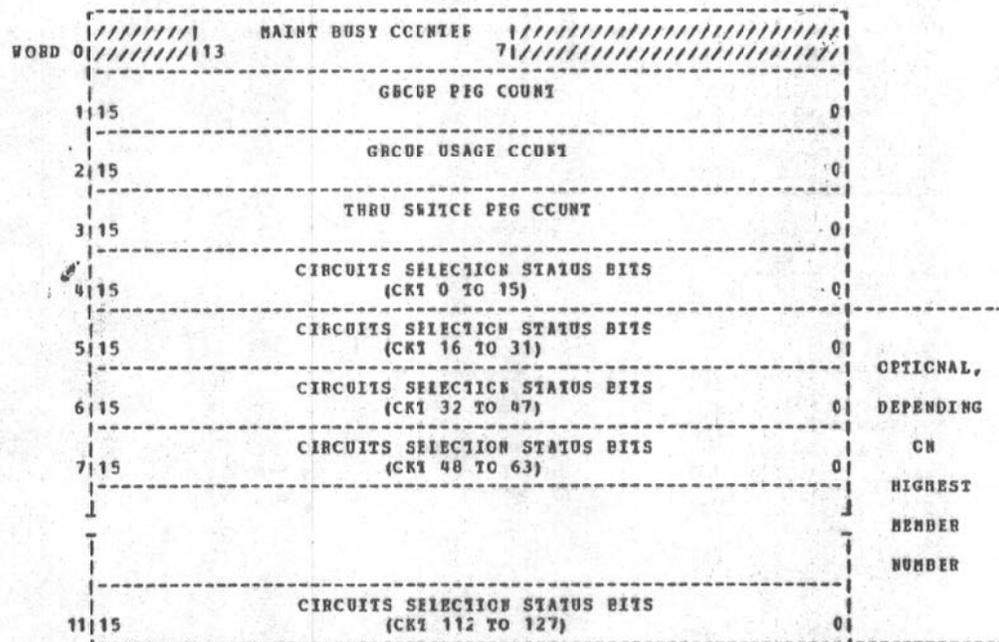
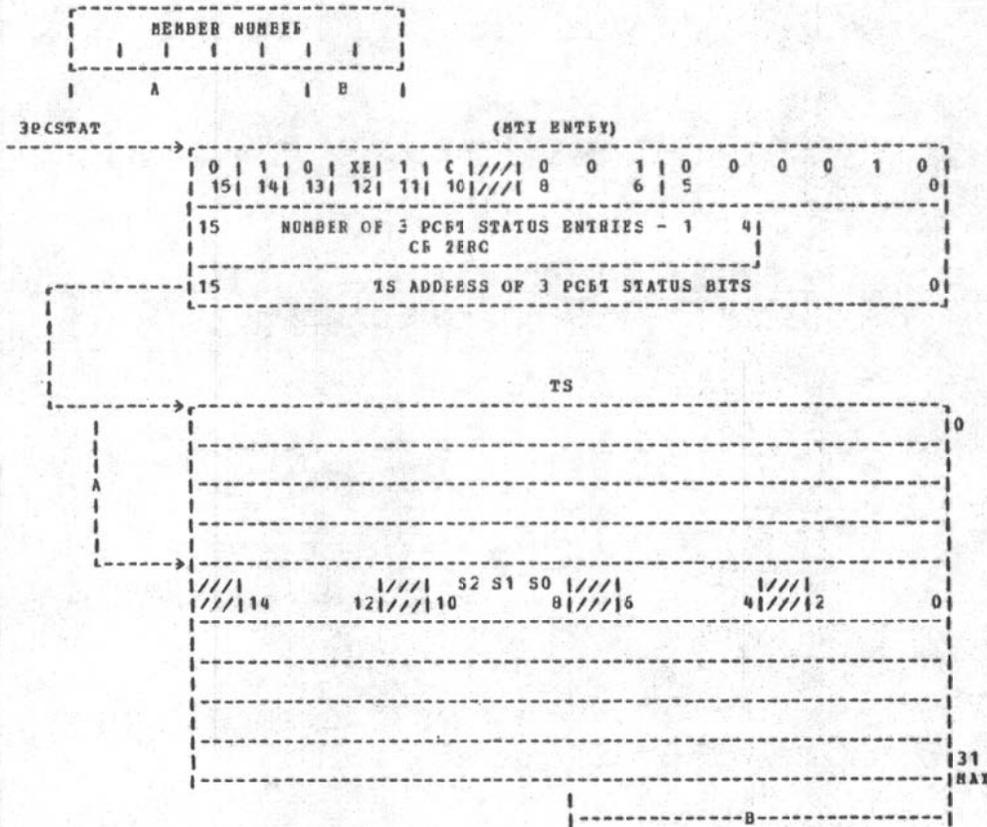


FIGURE 14 THREE PORT STATUS BITS



NOTES:

1. S2 S1 S0 - Status bits for the 3 ports of each Conference Circuit.

FIGURE 15 MEMBER LISTS

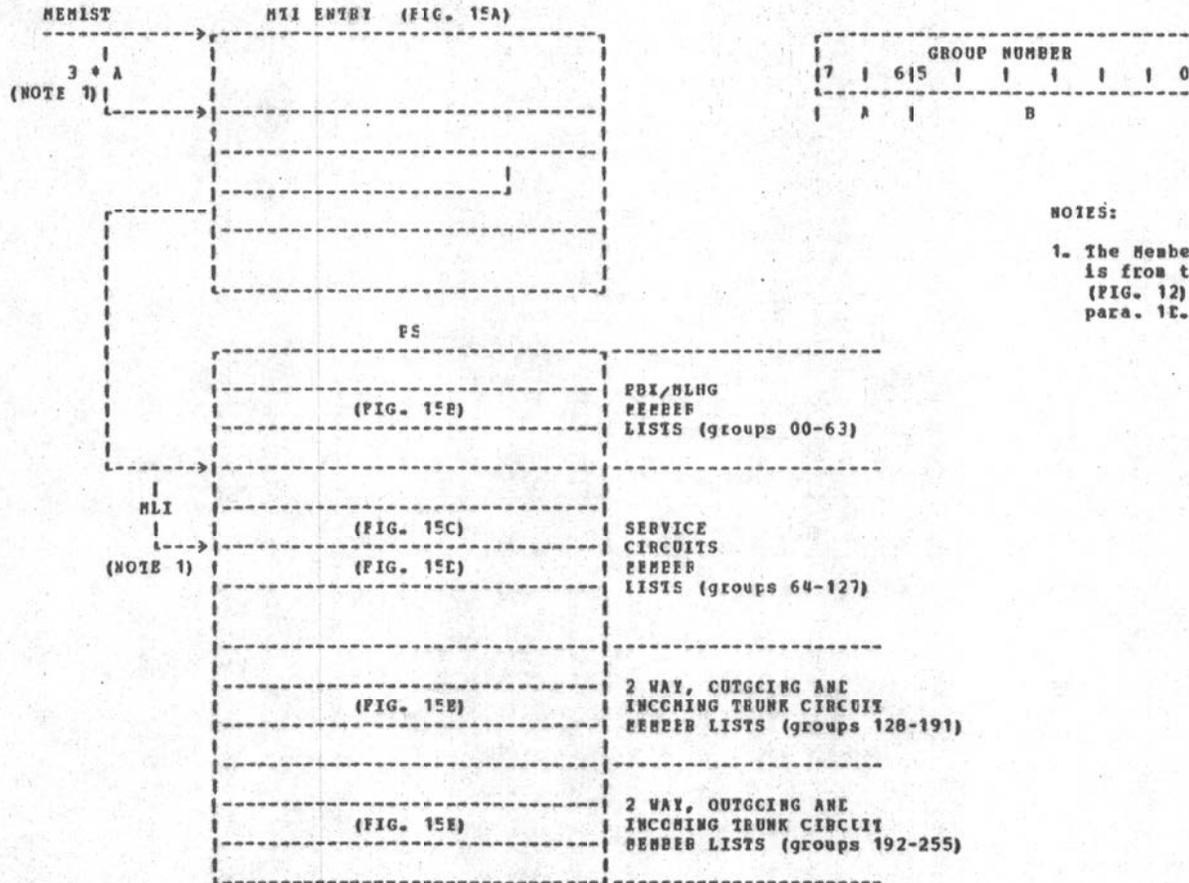


FIGURE 15A MEMBER LISTS - MTI ENTRY

WORD 0	0 1 0 1 0 1 XE 0 1 0 1 // 0 0 1 0 0 0 0 0 0	
	15 14 13 12 11 10 // 8 6 5	
1 15	NUMBER OF PEX/MLHG MEMBER LIST WORDS - 1 OR ZERO	4 3 0 PBX/MLHG
2 15	PS ADDRESS OF PEX/MLHG MEMBER LISTS	0
3	0 1 0 1 0 1 1 1 0 1 0 1 // 0 0 1 0 0 0 0 0 0	
	15 14 13 12 11 10 // 8 6 5	
4 15	NUMBER OF SVC CKT MEMBER LIST WORDS - 1 OR ZERO	4 3 0 SERVICE CIRCUITS
5 15	PS ADDRESS OF SERVICE CIRCUIT MEMBER LISTS	0
6	0 1 0 1 0 1 1 1 0 1 0 1 // 0 0 1 0 0 0 0 0 0	
	15 14 13 12 11 10 // 8 6 5	
7 15	NUMBER OF TRUNK CIRCUIT MEMBER LIST WORDS - 1 OR ZERO	4 3 0 TRUNK CIRCUITS
8 15	PS ADDRESS OF TRUNK CIRCUIT MEMBER LISTS	0
9	0 1 0 1 0 1 XE 0 1 0 1 // 0 0 1 0 0 0 0 0 0	
	15 14 13 12 11 10 // 8 6 5	
10 15	NUMBER OF TRUNK CIRCUIT MEMBER LIST WORDS - 1 OR ZERO	4 3 0 TRUNK CIRCUITS
11 15	PS ADDRESS OF TRUNK CIRCUIT MEMBER LISTS	0

FIGURE 15E PBX/MLHG MEMBER LISTS (FORMAT "00")

	0 15	0 14	1 13	NUMBER OF MEMBERS (INCLUDING SPARES)	7 16	NUMBER OF SPARES	0 0
MEMBER +1	15	RNB	13	TEN (MEMBER 0)			0
	15	RNB	13	TEN (MEMBER 1)			0
	15	RNB	13	TEN (MEMBER 2)			0
	15	RNB	13	TEN (MEMBER N)			0
				SPARE			
							64 MAX.

(See NOTES following Figure 15E)



FIGURE 15C SERVICE CIRCUIT MEMBER LIST (FORMAT "01") TONE AND ANNOUNCEMENT CIRCUIT AND CONFERENCE CALLING CIRCUIT

	0	1	NUMBER OF MEMBERS (INCLUDING SPARES)		7	6	NUMBER OF SPARES	0	0
	15	14	13						
	/////////////////				TEN (CRT 0)			0	
	/////////////////			12				0	
	/////////////////				TEN (CRT 1)			0	
	/////////////////			12				0	
MEMBER +1	/////////////////				TEN (CRT 2)			0	
	/////////////////			12				0	
	/////////////////				TEN (CRT 3)			0	
	/////////////////			12				0	
	/////////////////				TEN (CRT 4)			0	
	/////////////////			12				0	
	/////////////////								
	/////////////////								
	/////////////////				TEN (CRT 8)			0	
	/////////////////			12				0	
					SPARE				
									MAX. 128

(See NOTES following Figure 15E)

FIGURE 15E TRUNK CIRCUIT MEMBER LIST (FORMAT "11")

	1	1	NUMBER OF MEMBERS	1	NUMBER OF SPARES	
	15	14	(INCLUDING SPARES)	7		0 0
					SEN (TRK 0)	0
						0
(2 * MEMBER) + 1	15		CKTCODE	11	DIA (TRK 0)	0
				10		
					SEN (TRK 1)	0
						0
	15		CKTCODE	11	DIA (TRK 1)	0
				10		
					SEN (TRK 2)	0
						0
	15		CKTCODE	11	DIA (TRK 2)	0
				10		
					SEN (TRK N)	0
						0
	15		CKTCODE	11	DIA (TRK N)	0
				10		
					SPARE	
						MAX. 256

## NOTES:

## 1. DATA DESCRIPTION

DATA	DESCRIPTION
RNB	Remote Make Busy key affecting this member (Max. of 7 RNE keys per group)
TEN	Terminal Equipment Number
DTA	Distributor Triplet Address
SPN	Scan Point Number
SVCNBE	Service Circuit Number SPN for Service Circuits: SPN bits (7-0) = SVCNBE SEN bits (12-8) = 0
CKTCODE	Circuit Code (See Fig. 12C, Note 2 & 12D, Note 2 for numbers)



ROUTING AND SCREENING TABLES

INDEX OF FIGURES

- Figure 16 - 3-Digit Translations and IDDD (Country Code Table) Translator
- Figure 17 - Screening Tables
- Figure 18 - Route Index Expansion
- Figure 19 - Charge Index Information
- Figure 20 - 1-Digit Translation





FIGURE 16 THREE DIGIT TRANSLATION (continued)

## NOTES:

1. Dialed 11X Codes are converted to 111.
2. If a 3 digit match is not found, then the code index located in the last entry is used.
3. The local area translator is usually a full translator and not a search table.
4. FAT 0 is always required.
5. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INPUT MESSAGE		ESS FORM			DESCRIPTION
	KEYW	CBC	NUME	ITEN	COLUMN	
CCDE INDEX	RC: DIG	CEI	3300-1	-	24-26	Code Index
			3300-2	-	27-29	



FIGURE 16A (continued)

CODE INDEX EXPANSION (continued)

15	0 PREFIX CODE INDEX	1019	SCB TEL	413	TYPE = 3	0
15	1 PREFIX CODE INDEX	817	DIRECT ROUTE INDEX			0
////////////////////			PEG COUNTER		TYPE = 7	
////////////////////			NUMBER			
////////////////////			CODE INDEX			0
////////////////////					TYPE = 5	
////////////////////						
////////////////////					FAT	0
////////////////////					TYPE = 6	
15	AREA CODE INDEX	817	OFFICE CODE INDEX			0,511 MAX.

NOTES:

1. Entries pointed to by "0" prefix code indexes must be defined in the first 64 entries. The following code indexes must be defined in each office:
  - 0 - Vacant Code treatment
  - 1 - "Dial 0" Operator treatment
2. "0" Prefix Code Indexes need not be defined if "0+" is not allowed for this office.

(continued)

FIGURE 16A (continued)

## NOTES (continued):

## 3. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INPUT MESSAGE	ESS F0RE			DESCRIPTION	
		KEY/CRD	NUMBER	ITEM		COLUMN
SCR TBL	RC:CDI	SCRIBI	3304-1	-	36-37	Screening table number
TYPE	RC:CDI	EIYP	3304-1	-	20	Identifies Code Index Entry: 0 - Vacant entry 1 - Ignore any prefixing 2 - "1" prefix normally received. Code indexes are provided to allow or to deny a "0" prefix or a "ac" prefix. 3 - Normally no prefix is received. Code indexes are provided to allow or to deny a "0" prefix or a "1" prefix. 4 - Ignore a "1" prefix. A code index is provided to allow or to deny a "0" prefix. 5 - Foreign Area Translation required on next 3 digits. 6 - Conflict between Area code and office code. 7 - Preroute peg count desired.
DIRECT ROUTE INDEX	RC:CEI	RTI	3304-1	-	39-41	Direct route index
0 PREFIX CODE INDEX	RC:CDI	P0CI	3304-1	-	27-29	0 Prefix code index (normal)
NO PREFIX CODE INDEX	RC:CEI	NPCI	3304-1	-	21-23	No prefix code index (normal)
1 PREFIX CODE INDEX	RC:CDI	P1CI	3304-1	-	24-26	1 Prefix code index (normal)
PEG COUNTER NUMBER	RC:CDI	PRC	3304-1	-	42	Preroute peg counter
CODE INDEX	RC:CDI	CDI	3304-1	-	17-19	Code index
FAT	RC:CDI	FAT	3304-1	-	38	Foreign area translator (0 = local; 1-3 = foreign)
AREA CODE INDEX	RC:CDI	ACDI	3304-1	-	30-32	Area code index (conflict)
OFFICE CODE INDEX	RC:CEI	OCDI	3304-1	-	33-35	Office code index (conflict)

FIGURE 16E COUNTRY CODE TABLE

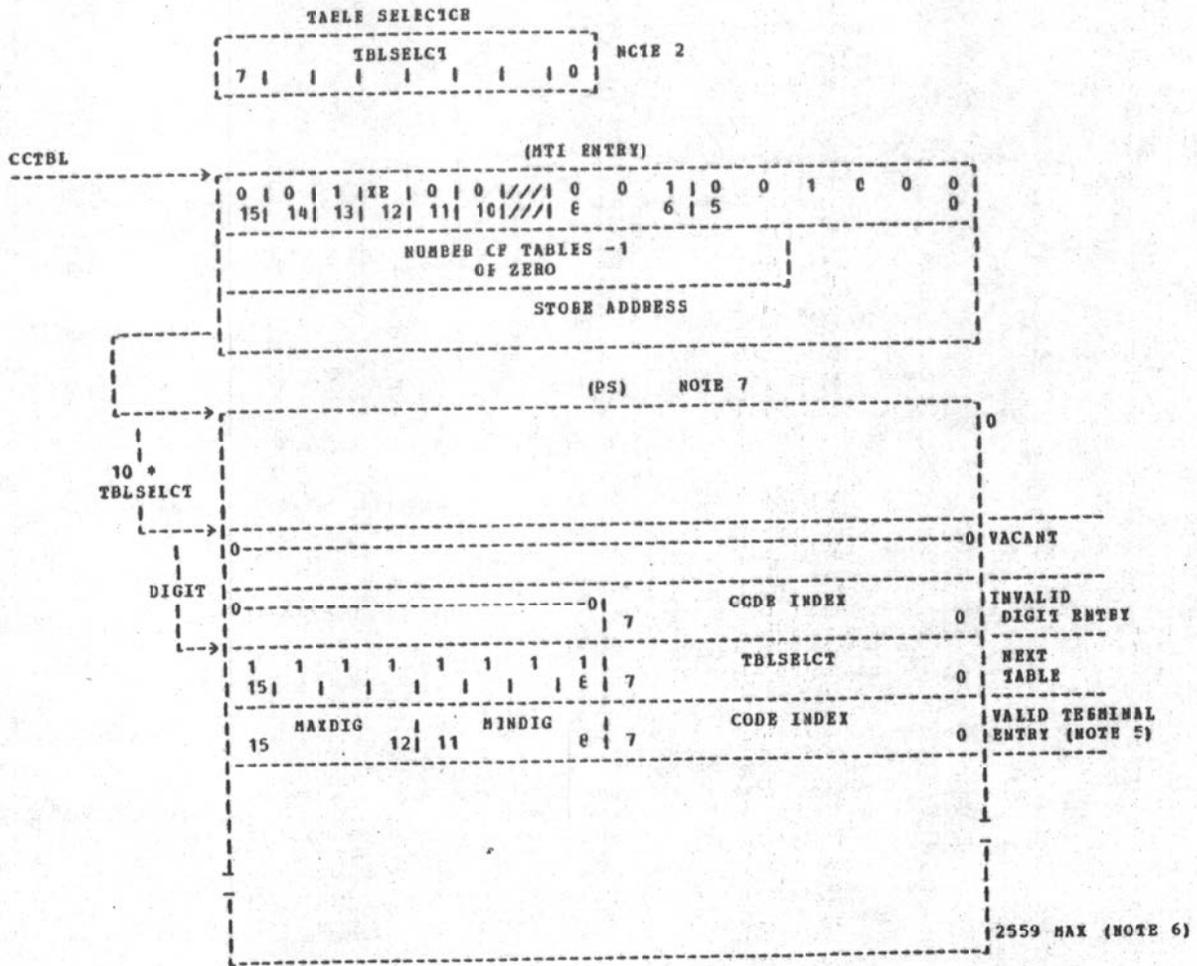
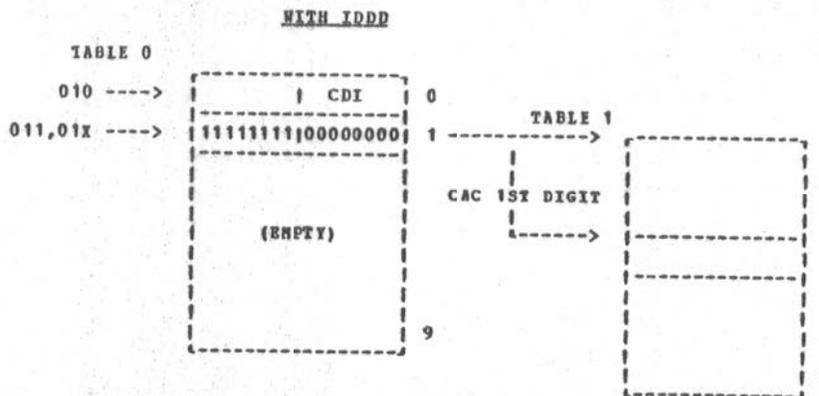
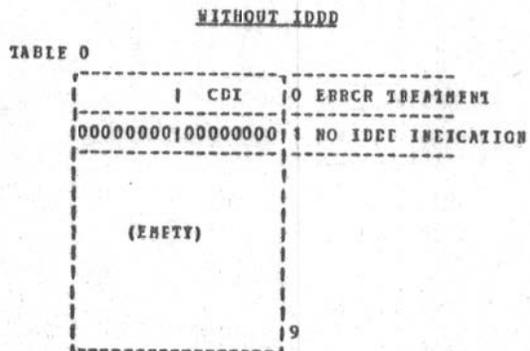


FIGURE 16E (continued) COUNTRY CODE TABLE

NOTES:

1. TABLE SELECT - Table number to SELECT the next table.
2. The first digit of the Country Access Codes (CAC) is used with TABLE SELECT = 1. After that, TABLE SELECT comes from previous digit. (See Note 6)
3. MAXDIG - MAXimum number of DIGits dialed for country code.
4. MINDIG - MINimum number of DIGits dialed for country code.
5. If the number of digits are exact for a country code, then MAXDIG equals MINDIG.
6. Current assignments require approx. 28 tables, 280 words.
7. The translator exists regardless of whether IDDD screening is done or not. Without IDDD screening, only one table of 10 words is in the translator. With IDDD screening the translator is at its full size. Table zero contains different data in each case. The Table 0 Digit 0 entry is used in routing to the error return when IDDD screening is not done. With IDDD, Table 0 Digit 0 entry is used in routing operator calls (010), and Table 0 Digit 1 entry is used to access Table 1 (TABLE SELECT = 1).



010 = equivalent of 0- calls  
 011 = equivalent of 0+ calls (followed by CAC)  
 01X = equivalent of 1+ calls (X = 1st digit of CAC)

FIGURE 17 SCREENING TABLES

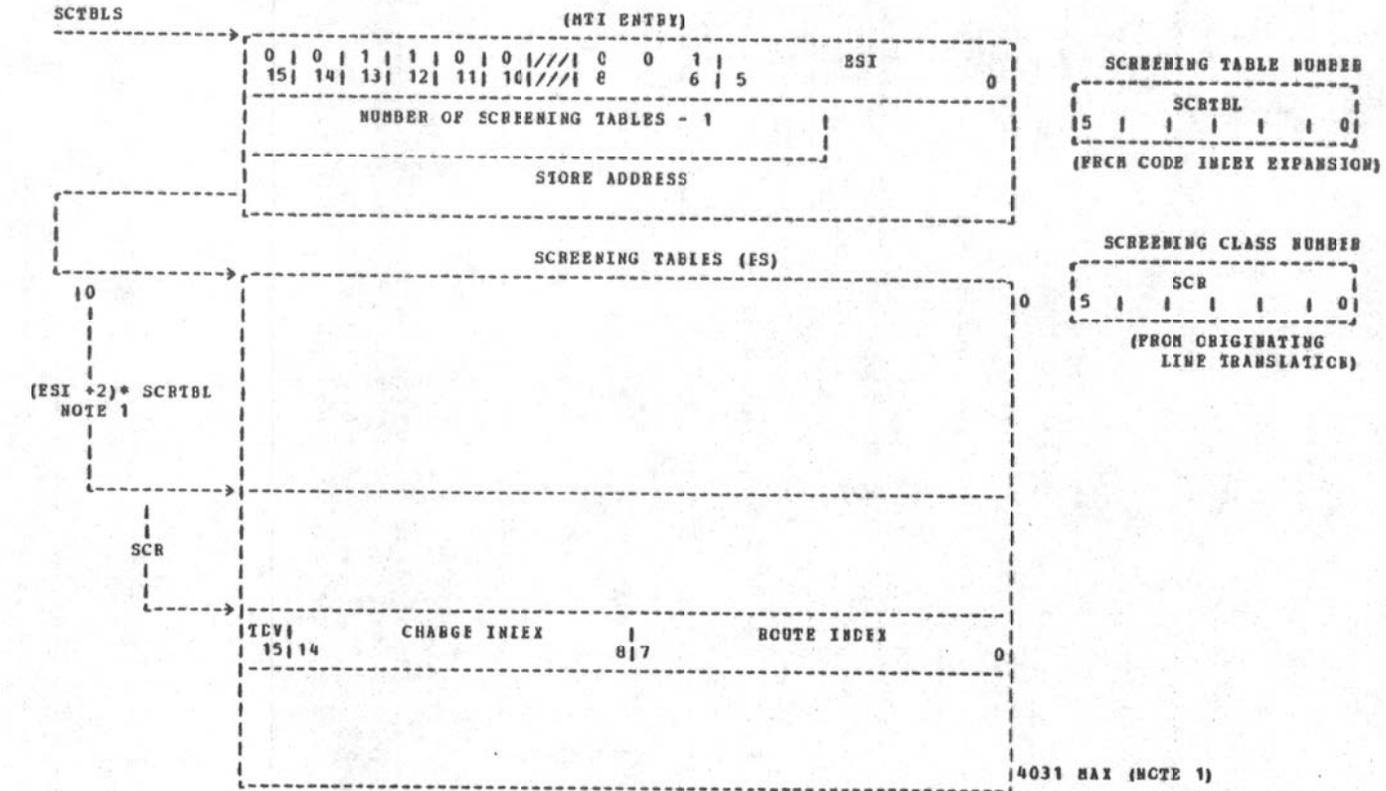


FIGURE 17 SCREENING TABLES (continued)

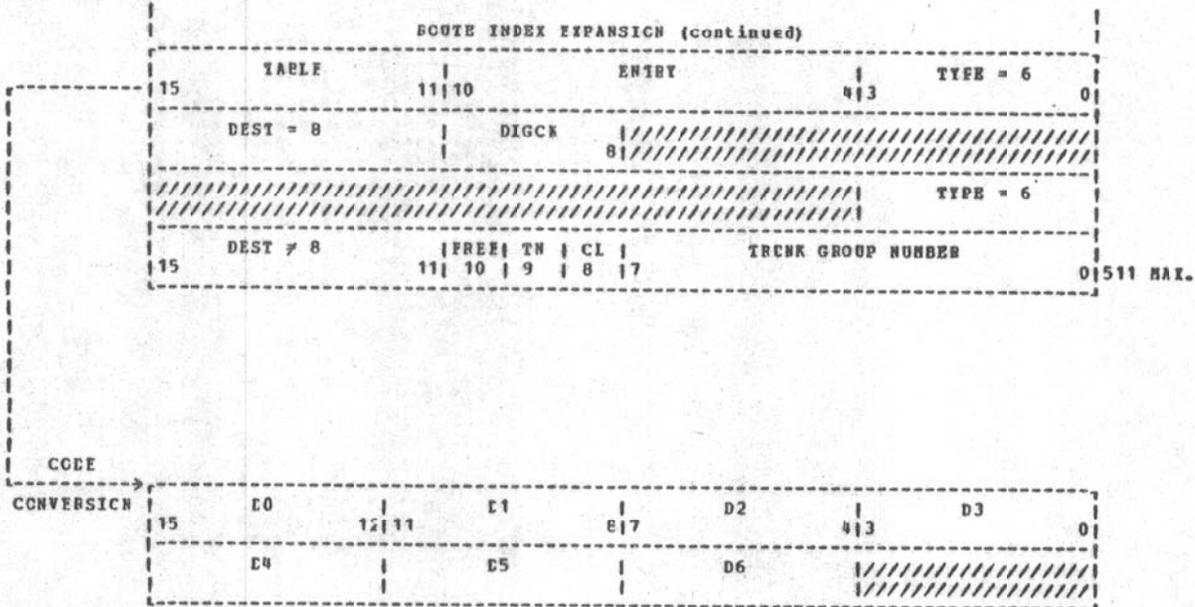
## NOTES:

1. Maximum screening table size is 63. All screening tables must be the same size. A screening class of 63 indicates that no screening is to be performed, and is not entered in the screening table. Maximum size is therefore 64 tables \* 63 entries = 4032.
2. ESI = Entry size indicator (from word 0 of MII entry). See Fig. 1 for details.
3. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INPUT MESSAGE	ESS FORM			DESCRIPTION	
		KEYWORD	NUMBER	ITEM		COLUMN
TEV	RC:SCR	TD	3301-1	-	28, etc	Toll diversion (MIG only)
CHARGE INDEX	RC:SCR	CBI	3301-1	-	23-24	Charge index
ROUTE INDEX	RC:SCR	RTI	3301-1	-	25-27	Route index



FIGURE 18 (continued)



NOTES:

1. APP = 1 - Alternate Route Index provided.
2. CCRI = 1 - Cutover route index present.
3. TYPE = 0 Unassigned
  - = 1 Intraoffice (ROUTE INDEX = NOC)
  - = 2 10 digit interoffice (no overlap outpulsing)
  - = 3 10 digit interoffice (overlap outpulsing permitted)
  - = 4 7 digit interoffice (no overlap outpulsing)
  - = 5 7 digit interoffice (overlap outpulsing permitted)
  - = 6 Destination determined by the "DEST" code in the route index expansion entry.
  - = 7 Interoffice (outpulse received digits)

(continued)

## FIGURE 18 (continued) ROUTE INDEX EXPANSION

## NOTES (continued)

4. CL = 1 - Class of service tone to recording completing operator.

## 5. DEST - Destination code:

- 0 - Vacant circuit group
- 1 - Vacant code operator - no outpulsing trunk group (connect trunk after timeout on received digits) cut thru based on FREE bit or answer supervision received
- 2 - Recording completing operator - No outpulsing trunk group - (connect trunk immediately) cut thru based on FREE bit or answer supervision received.
- 3 - Tones which timeout
- 4 - Tones with no timeout
- 5 - Announcement local
- 6 - Route to reorder
- 7 - Station ringer test
- 8 - Convert dialed digits to a 4, 5, 6 or 7 digit number
- 9 - Balance test line
- 10 - Interrupted milliwatt test line
- 11 - Synchronous test line
- 12 - Loop around test line 0
- 13 - Loop around test line 1
- 14 - Short circuit test line
- 15 - Open circuit test line
- 16 - Charge test line
- 17 - Continuous milliwatt test line
- 18 - AC/DC open circuit test line
- 19 - Spare
- 20 - Autoconnect
- 21 - RCTL input terminal

## 6. Assigned Route Indexes

<u>Route Index</u>	<u>Description</u>
8	Discontinued or changed number
9	Trouble intercept
10	Blank 4-digit number & unassigned number
11	Manual line
12	Denying custom calling services
13	Permanent signal announcement
14	Permanent signal tone
15	Permanent signal operator (non-ccin)
16	Permanent signal operator (coin)
17	Partial dial announcement
18	Invalid 1-digit translation error
19	Auto-connect busy tone
20	Auto-connect high tone
21-31	Reserved

## FIGURE 18 (continued) ROUTE INDEX EXPANSION

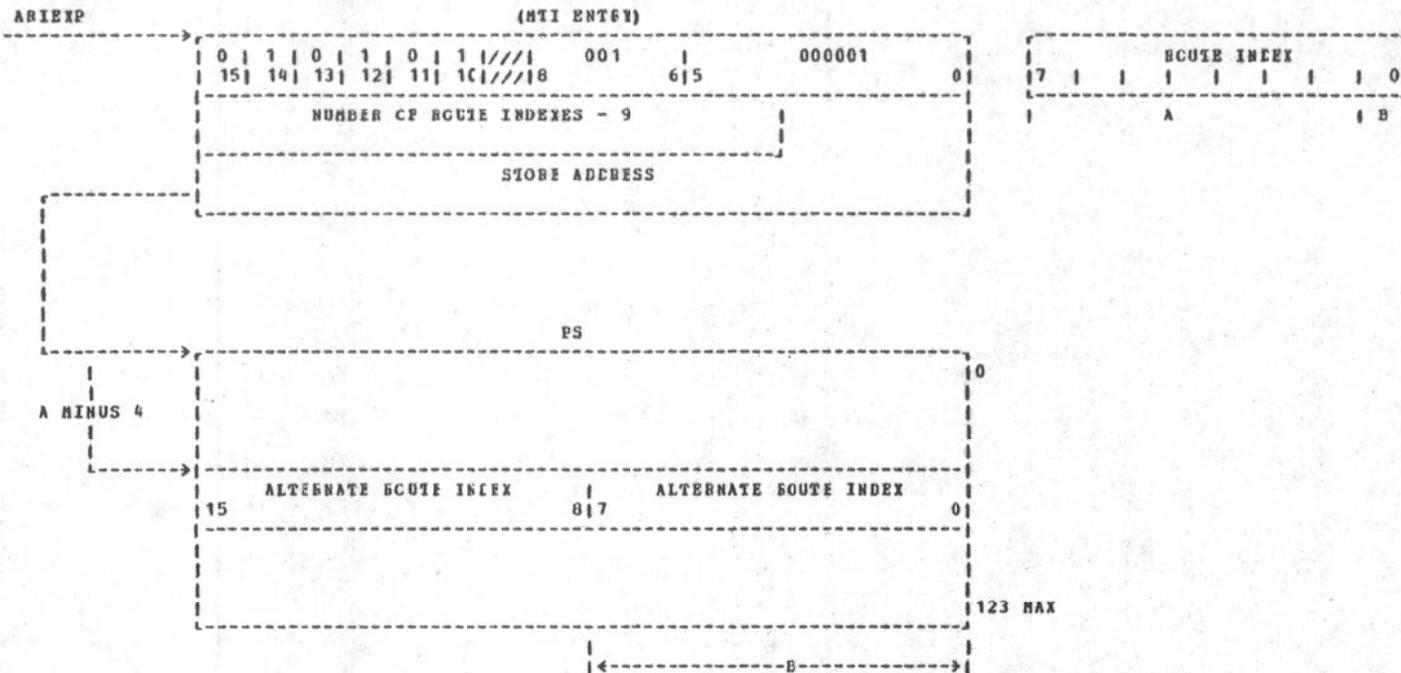
## NOTES (continued):

7. ICP\_RTI = The Route Index to be used when a line is assigned to intercept by Recent Change. If not specified (i.e., ICP\_RTI = 0), RI = 8 will be assumed by the program.

## 8. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INPUT MESSAGE	ESS FORM			DESCRIPTION	
		KEYWORD	NUMBER	ITEM		COLUMN
CUTOVER ROUTE INDEX	RC:RTI	CRTI	3303-1	-	23-25	Cutover route index
OTO-TEST-RI	RC:RTI	ORTI	3303-1	-	26-28	Office to office test route index
PREFIX DIGIT	RC:RTI	PPX	3303-2	-	26-28	Prefix digit
DLT	RC:RTI	DLT	3303-2	-	25	Number of digits to delete (1-7, but not all)
FREE	RC:RTI	FREE	3303-2	-	36	Free calls; no charge over this route
DC-D6	RC:RTI	DIGIT	3303-2		29-32	Conversion digits - stored in BCD
DIGCN	RC:RTI	DIG	3303-2		29-32	Conversion digits count
TN	RC:RTI	TONE	3303-2		37	Tone (when CI = 1) TN = 0 - use Low Tone TN = 1 - Use High Tone

FIGURE 18A ALTERNATE ROUTE INDEX EXPANSION

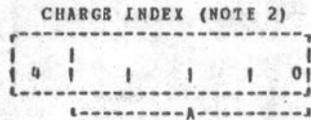


NOTES:

1. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INPUT MESSAGE		ESS FORM			DESCRIPTION
	KEYWORD	NUMBER	ITEM	COLUMN		
ALTERNATE ROUTE INDEX	RC:RTI	ARTI	3303-2	-	33-35	Alternate route index

FIGURE 19 CHARGE INDEX INFORMATION



SEE TABLE ON NEXT PAGE USING ENTIRE CHARGE INDEX

CHARGE TABLE (MII ENTRY)

CHARGE	TYPE	CVEFFIME						INITIAL								
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		15	14	13		11	10			7	6		4	3		0
A	0 1	TIME						CHARGE = 0								
	1 0	TIME						CHARGE								
		0	0													15

NOTES:

1. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INPUT MESSAGE	ESS FORM			DESCRIPTION	
		KEYWORD	NUMBER	ITEM		COLUMN
TYPE	RC:CHI	ETYP	3302	-	19-20	Charge index entry number = 00 vacant entry = 01 coin entry (CH) = 10 message rate entry (MR)
INITIAL TIME	RC:CHI	ITM	3302	-	21	Initial time = 0 local untimed call = 1 to 7 minutes - local timed coin or timed MR call
INITIAL CHARGE	RC:CHI	ICU	3302	-	22-23	Initial charge units = 0 - fixed initial charge determined by coin phone (5-45¢) = 1 to 15 message units - timed or untimed MR
OVERTIME TIME	RC:CHI	OTM	3302	-	24	Overtime = 1 to 7 minutes - local timed coin or timed MR call
OVERTIME CHARGE	RC:CHI	OCU	3302	-	25-26	Overtime charge units = 0 - coin overtime charge is 5¢ = 1 to 15 message units - MR

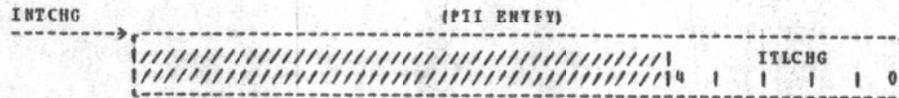
CHARGE INDEX INFORMATION FOR FIGURE 19  
(SEE NOTE 2)

CHARGE INDEX	BILLING TYPE	
0	Illegal	
1	Free	
2	AMA - WATS Band 0 Special	
3	AMA - WATS Band 1 Interstate	
4	AMA - WATS Band 2 Interstate	
5	AMA - WATS Band 3 Interstate	
6	AMA - WATS Band 4 Interstate	
7	AMA - WATS Band 5 Interstate	
8	AMA - WATS Band 6 Special	
9	AMA - WATS Band 7 Interstate	
10	AMA - WATS Band 8 Intrastate	
11	AMA - WATS Band 9 Intrastate	
12	AMA - USRP	
13	AMA - Reserved	
14	AMA - Unused	
15	AMA - Toll call	
CHARGE INDEX	AMA IN OFFICE AND NOT A COIN CALL	(1) CCIN CALL (2) SOFTWARE M.R. (3) HARDWARE M.R.
16	AMA WITH MBI 0	
17	AMA WITH MBI 1	
18	AMA WITH MBI 2	USE
19	AMA WITH MBI 3	
20	AMA WITH MBI 4	CHARGE
21	AMA WITH MBI 5	
22	AMA WITH MBI 6	FCR CCIN
23	AMA WITH MBI 7	
24	AMA WITH MBI 8	CHARGES AND
25	AMA WITH MBI 9	
26	AMA WITH MBI 10	MESSAGING RATE
27	AMA WITH MBI 11	
28	AMA WITH MBI 12	PEGGING
29	AMA WITH MBI 13	
30	AMA WITH MBI 14	
31	AMA WITH MBI 15	

## NOTES: (continued)

2. When an office has AMA for message rate calls, an MBI (Message Billing Index) is used and the CHARGE is used if there is also a hardware message register to be pegged.

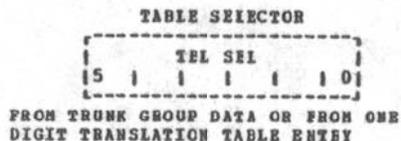
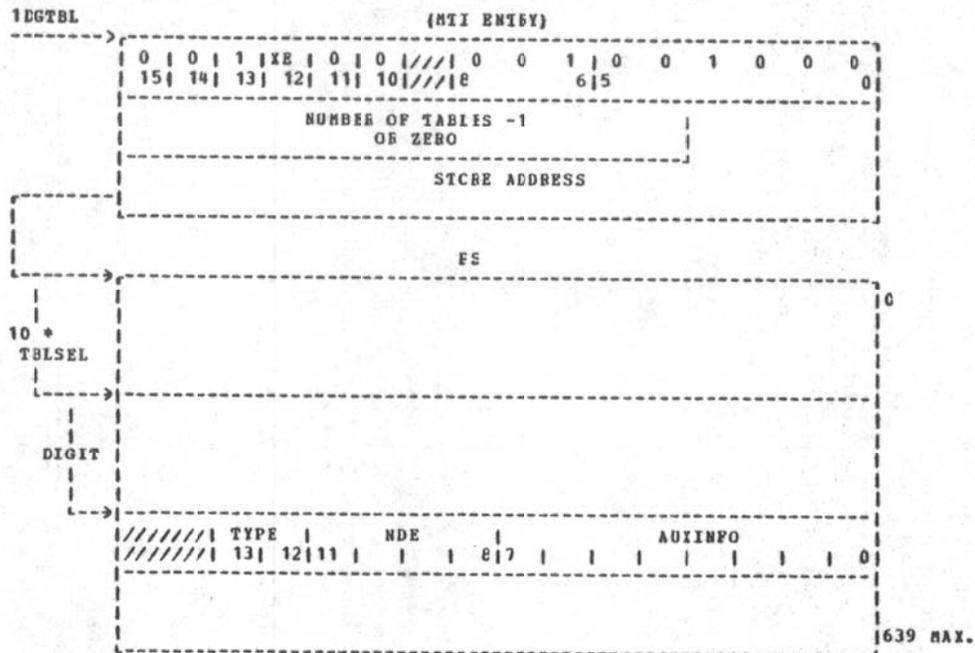
FIGURE 19A INITIAL CHARGE



NOTES:

1. ITLCHG = Increment on initial charge for Hotel-Motel hardware message registers.

FIGURE 20 ONE DIGIT TRANSLATION (INCCHING TRUNKS)



NOTES:

1. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INPUT MESSAGE	ESS FORM			DESCRIPTION	
		KEYWCFD	NUMBER	ITEM		COLUMN
NDE	RC:ODIG	NCE	209-1	-	24	Number of digits expected over this trunk (type 2 & 3)

(continued)

FIGURE 20 (continued) ONE DIGIT TRANSLATION

NOTES (continued)

- 2. TYPE = 0 Error, Invalid digit  
Auxinfo = 0 (in program, route index of 18 is supplied).
- = 1 Inconclusive:  
Auxinfo = Table selector number for another table to be used in translating the next digit.  
NEE = 0
- = 2 Locally terminating call  
Auxinfo = Normalize office code (NOC).
- = 3 Tandem call  
Auxinfo = Route index

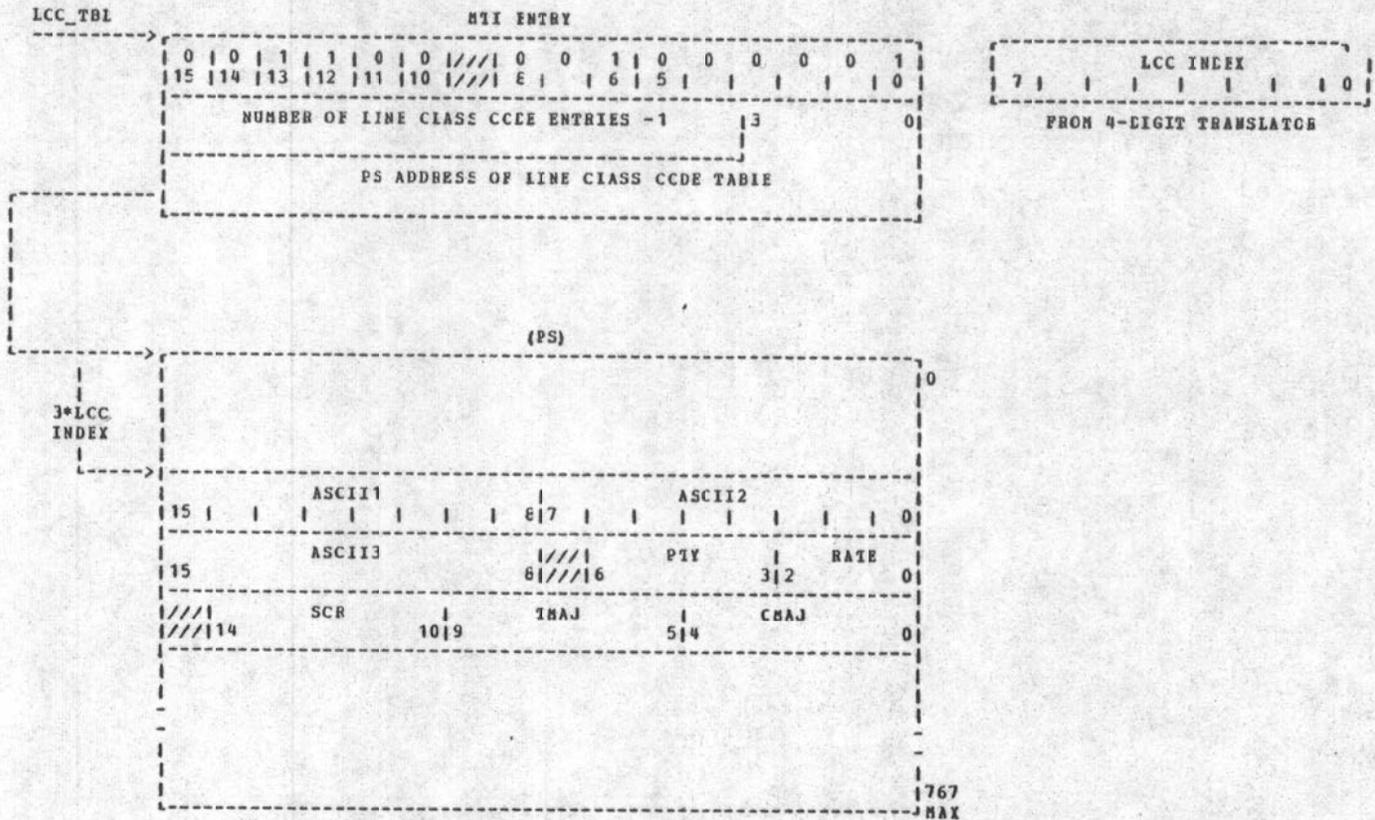


MISCELLANEOUS AND DIAGNOSTIC INFORMATION

INDEX OF FIGURES

- Figure 21 - ICC Translation
- Figure 22 - NCC & KFA conversion Table
- Figure 23 - Miscellaneous Office Parameters
- Figure 24 - AFA Buffer Table
- Figure 25 - Automatic Line Insulation Test
- Figure 26 - Maintenance Information
- Figure 27 - Frequency Translation Table
- Figure 28 - Autoconnect Translation Table

FIGURE 21 LINE CLASS CODE TRANSLATION



## NOTES:

## 1. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INLET MESSAGE	ESS FORM				DESCRIPTION
		KEYWORD	NUMBER	ITEM	COLUMN	
ICC INDEX	RC:LCC	LCI	3306-1	-	17-19	line class code index
ASCII 1 to 3	RC:LCC	LCC	3306-1	-	20-22	3 character line class code used by TELCC's (see Note 2)
PTY	RC:LCC	PTY	3306-1	-	23	Party number
FATE	RC:LCC	RAX	3306-1	-	24	Fate class for charging
SCR	RC:LCC	SCR	3306-1	-	29-30	Screening class number
TMAJ	RC:LCC	TMAJ	3306-1	-	27-28	Terminating major class (See Figure 2C, Note 8)
CMAJ	RC:LCC	OMAJ	3306-1	-	25-26	Originating major class (See Figure 2C, Note 8)

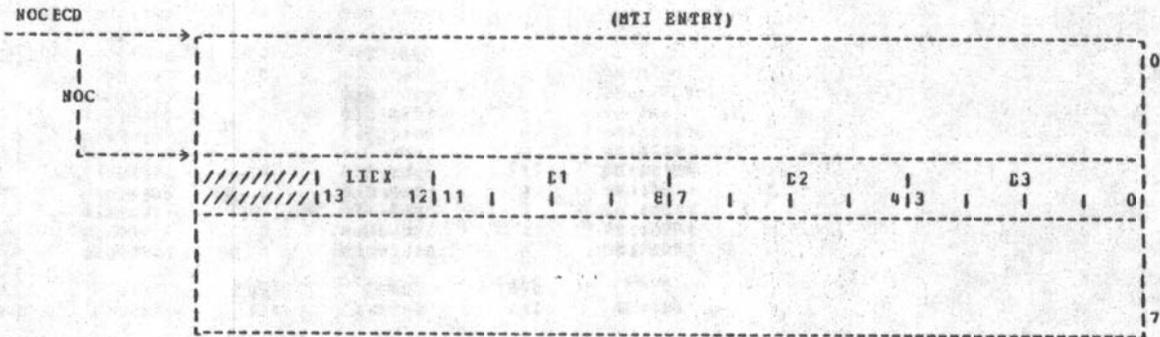
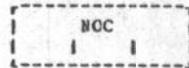
2. The following table is used for coding or decoding 8-bit ASCII TTY codes; the eighth bit (parity) is always zero:

TTY CHAR	BINARY CODE	TTY CHAR	BINARY CODE	TTY CHAR	BINARY CODE
A	01000001	N	01001110	0	00110000
B	01000010	C	01001111	1	00110001
C	01000011	P	01010000	2	00110010
D	01000100	G	01010001	3	00110011
E	01000101	R	01010010	4	00110100
F	01000110	S	01010011	5	00110101
G	01000111	T	01010100	6	00110110
H	01001000	U	01010101	7	00110111
I	01001001	V	01010110	8	00111000
J	01001010	W	01010111	9	00111001
K	01001011	X	01011000		
L	01001100	Y	01011001		
M	01001101	Z	01011010		

FIGURE 22 NCC & NPA CONVERSION TABLES

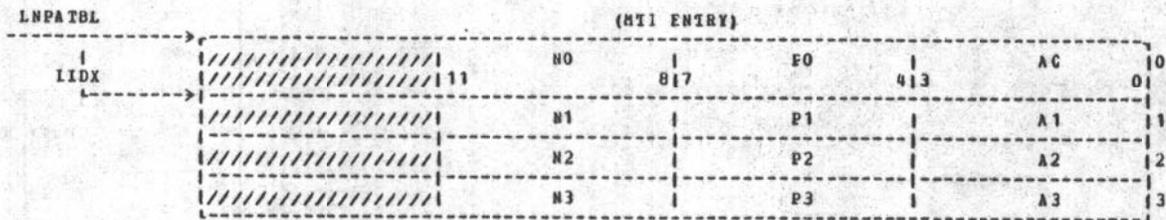
FIGURE 22A NCC TO OFFICE CODE CONVERSION TABLE

NORMALIZED OFFICE CODE



- NOTES:
1. LIDX = Local NPA index.
  2. D1, D2, D3 = NXX in BCD corresponding to NCC.

FIGURE 22B LOCAL NPA TABLE



- NOTES:
1. N, P, A = NPA in BCD.

FIGURE 22C NPA FOREIGN AREA TABLE

NPAFAT	(NOTE 3)	(HTI ENTRY)					
FAT		FN0	617	FP0	413	FA0	01
NCTE 1		FN1		FP1		FA1	1
		FN2		FP2		FA2	2
		FN3		FP3		FA3	3

NOTES:

1. See Figure 16
2. FNn, FPn, FAn = NFA in ECD
3. NPAFAT is only accessed by office records to output NPA on 3300 Form



FIGURE 23D ABA TERMINAL IDENTIFIER

ABATID

421100

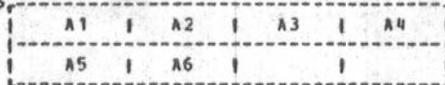


FIGURE 23E NUMBER OF SCREENING CLASSES

SCRSIZE (MTI ENTRY)



FIGURE 23F TEST PANEL ASSIGNMENTS

TLPL (MTI ENTRY)

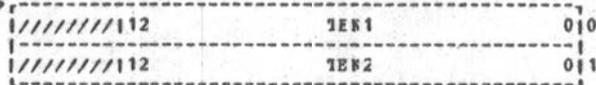


FIGURE 23G NO TEST TENS

NOIEST (MTI ENTRY)

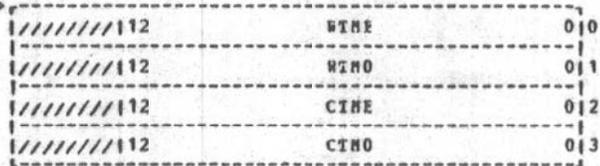


FIGURE 23H FAR END TEST LINES (BCTI)

FELL (MTI ENTRY)

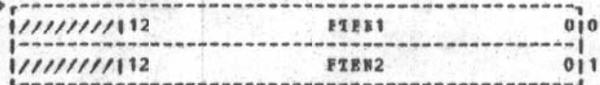
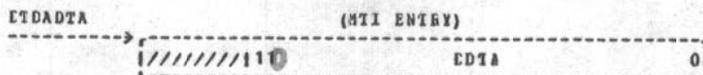


FIGURE 23I TRUNK UNDER TEST TERMINAL (BOTI)

TUTT (MTI ENTRY)



FIGURE 23J DIAL TONE DETECTOR ALARM LTA



## NOTES:

## 1. DATA CBCSS-REFERENCE AND DESCRIPTION

DATA	INPUT MESSAGE		ESS FORM			DESCRIPTION
	KEY	WCB	NUMBER	ITEM	COLUMN	
EPG	RC:OFFICE	DPG	3500-1	20	21-22	Dial Pulse receiver Group 0 = Dial pulse receivers are not provided 1 = Dial pulse receivers are provided
NOT	RC:OFFICE	NCT	3500-1	23	21-22	Negative 130 volts (-130V) 0 = Use +130V for coin collect; use -130V for coin return 1 = Use -130V for coin collect; use +130V for coin return
ZPLUS	RC:OFFICE	ZELUS	3500-1	21	21-22	ZERO+ dialing 0 = 0+ calls not allowed 1 = 0+ calls allowed
SUP	RC:OFFICE	SUP	3500-1	22	21-22	Superimposed ringing 0 = Office has AC-DC ringing 1 = Office has superimposed ringing
ICF	RC:OFFICE	-	-	-	-	Print CFV Changes 0 = Printing of customer dialed CFV changes not inhibited 1 = Printing of customer dialed CFV changes inhibited
EC	RC:OFFICE	PRE CUT	-	-	-	Precut state 1 = Office is in precut state
FV	RC:OFFICE	AVS911	3500-1	40	21-22	Reverse tip & ring for 911 service 1 = Reverse tip & ring
IAMA	RC:OFFICE	IAMA	3500-1	36	21-22	Automatic Message Accounting 0 = Office does not have IAMA - software message registers may be used 1 = Office has IAMA - software message registers are not used.
NW_ANA	RC:OFFICE	SET RESET	- -	- -	- -	Network Analysis 1 = Perform network analysis 0 = DC NCT perform network analysis

(continued)

## NOTES: (continued)

## 1. DATA CBCSS-REFERENCE AND DESCRIPTIONS (continued)

DATA	INPUT MESSAGE		ESS FORM			DESCRIPTION
	RC:OFFICE	KEYWORD	NUMBER	ITEM	COLUMN	
SLU	RC:OFFICE	SLU	-	-	-	Subscriber Line Utilization 0 = Pre-USFF study is not invoked 1 = Pre-USFF study is invoked
TS	RC:OFFICE	TRF	-	-	-	Traffic sampling 0 = Traffic sampling is not invoked 1 = Traffic sampling is invoked
CO	RC:OFFICE	CMPOBS	-	-	-	Complaint Observing 0 = Complaint observing is not invoked 1 = Complaint observing is invoked
H1 to H14	RC:OFFICE	OID	3500-2	00	19-32	1 to 14 alpha-numeric office identifier (ASCII code See Figure 2) Note 2)
TEN1	RC:LINE	EIYP	3500-2	-	19	= 32, 1st TEN assigned to TLP1 (access Trk 0)
TEN2	RC:LINE	EIYP	3500-2	-	19	= 33, 2nd TEN assigned to TLP1 (access TRK 1)
WTNE	RC:OE	EIYP	3500-2	-	19	= 2, Notest wire test multiple - even TEN
WTNO	RC:OE	EIYP	3500-2	-	19	= 3, Notest wire test multiple - odd TEN
CTNE	RC:CE	EIYP	3500-2	-	19	= 4, Notest circuit test multiple - even TEN
CTNO	RC:OE	EIYP	3500-2	-	19	= 5, Notest circuit test multiple - odd TEN
A1 to A6	RC:OFFICE	ANAID	3500-2	05	19-26	Eight character identification number (BCD code)

NOTES: (continued)

## 2. DATA DESCRIPTION

DATA	DESCRIPTION
HIT	0 = HIT timing not active (Note 4) 1 = Do HIT timing on EP incoming trunks
ICS	(0,1) = Set the default for the CSL1 & CSL2 keyboards on RC:LINE & RC:ML to (yes,no) (Note 4)
M1 TO M6	Six character identification number (ASCII Code - see Fig. 21, Note 2)
SCRSIZE	Number of screening classes provided

## NOTES: (continued)

## 2. DATA DESCRIPTION

DATA	DESCRIPTION
FTEN1	1st terminal equipment number assigned to BOTL 105 test lines
FTEN2	2nd terminal equipment number assigned to FCTL 105 test lines
TTEN	Terminal equipment number assigned to FCTL trunk under test terminal
EDTA	Distributor triplet address for dial tone detector alarm

## 3. ASSIGNED SCAN POINT NUMBERS

SCAN POINT NUMBER	SPN FOR
(0,19,14)	False cross and ground circuit 0
(0,20,14)	Power cross circuit 0
(0,21,12)	False cross and ground wire 0
(0,22,12)	Power cross wire 0
(0,23,10)	False cross and ground circuit 1
(0,24,10)	Power cross circuit 1
(0,25,08)	False cross and ground wire 1
(0,27,07)	Power cross wire 1
(0,21,14)	Ringin g & tone plant interrupter test 0
(0,27,11)	Ringin g & tone plant interrupter test 1

4. Bit may be set or reset by using "SET" or "RESET" keyword in EC:OFFICE.

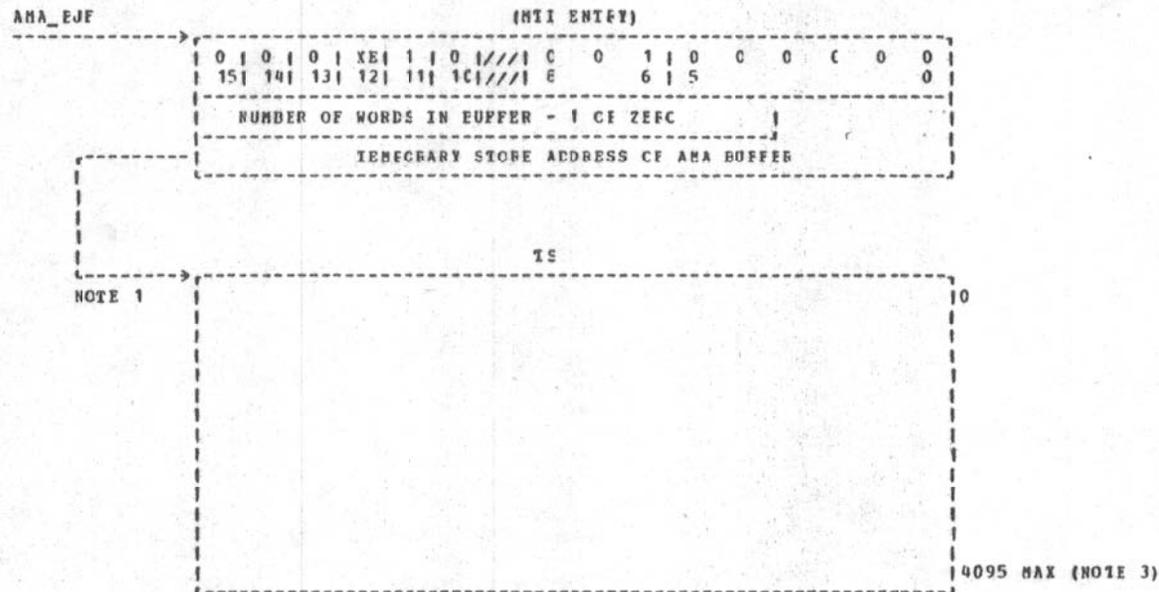
(continued)

NOTES: (continued)

## 5. ASSIGNED DISTRIBUTOR TRIPLET ADDRESSES

LIST TRIPLET ADDRESS	DISTRIBUTOR TRIPLET ADDRESS FOR:	DIST TRIPLET ADDRESS	DISTRIBUTOR TRIPLET ADDRESS FOR:
(3,0,254)	Circuit test vertical points	(0,0,006)	Trunk & line test panel triplet address No. 0
(3,1,254)	Circuit test vertical points	(1,0,006)	Trunk & line test panel triplet address No. 1
(3,0,252)	Wire test vertical points	(2,0,006)	Trunk & line test panel triplet address No. 2
(3,1,252)	Wire test vertical points	(3,0,006)	Trunk & line test panel triplet address No. 3
(0,0,255)	Circuit test multiple even/odd select	(0,0,007)	Trunk & line test panel triplet address No. 4
(0,0,253)	Wire test multiple even/odd select	(0,0,224)	Remote recording announcement circuit
(1,0,255)	Circuit test multiple test circuit point	(1,0,031)	Battery boost DTA for Network Frame 1
(1,0,253)	Wire test multiple test circuit point	(1,0,047)	Battery boost DTA for Network Frame 2
(0,0,250)	Interrupter circuit for RT0	(1,0,063)	Battery boost DTA for Network Frame 3
(0,0,248)	Interrupter circuit for RT1	(1,0,079)	Battery boost DTA for Network Frame 4
(1,0,250)	GDT tree for RT	(1,0,095)	Battery boost DTA for Network Frame 5
(2,0,250)	Marginal check circuits for RT	(1,0,111)	Battery boost DTA for Network Frame 6
(1,0,248)	Activate RT	(1,0,127)	Battery boost DTA for Network Frame 7
(2,0,248)	Overload announcement circuit for RT	(1,1,015)	Battery boost DTA for Network Frame 8
(3,0,248)	+24 volt power alarm test	(1,1,031)	Battery boost DTA for Network Frame 9
(3,0,255)	+3 volt power alarm test for CFO	(1,1,047)	Battery boost DTA for Network Frame 10
(3,0,253)	00S lamps for CFO	(1,1,063)	Battery boost DTA for Network Frame 11
(3,0,250)	Ringin & tone plant CCS lamps	(1,1,079)	Battery boost DTA for Network Frame 12
(3,1,255)	+3 volt power alarm test for CF1	(1,1,095)	Battery boost DTA for Network Frame 13
(3,1,253)	00S lamps for CF1	(1,1,111)	Battery boost DTA for Network Frame 14
		(1,1,127)	Battery boost DTA for Network Frame 15

FIGURE 24 AMA BUFFER TABLE



NOTES:

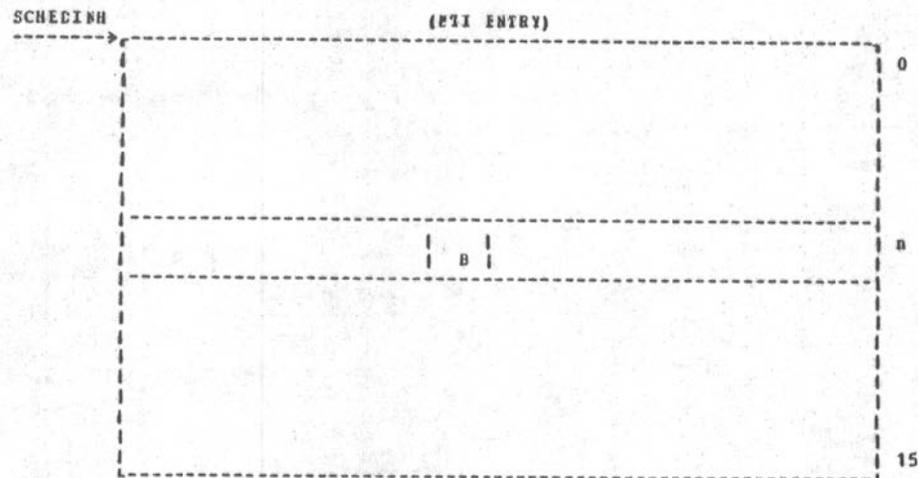
1. The AMA buffer has 3 basic entries - Initial, Answer and Disconnect - With a number of other entries. The entries are byte oriented and need not start on a word boundary. The buffer is only accessed for data by the AMA programs.
2. XE = 1 if AMA in OFF\_DATA = 1
3. The size is fixed at 2800 words based on current fixed engineering rules, except when initially testing AMA capability in an existing office with Software Message Registers, in which case the size may be smaller (typically 100 words).
4. On the initial run of an office either the office will have the AMA buffer allocated or the Software Message Registers allocated, but not both.





FIGURE 26 MAINTENANCE INFORMATION (continued)

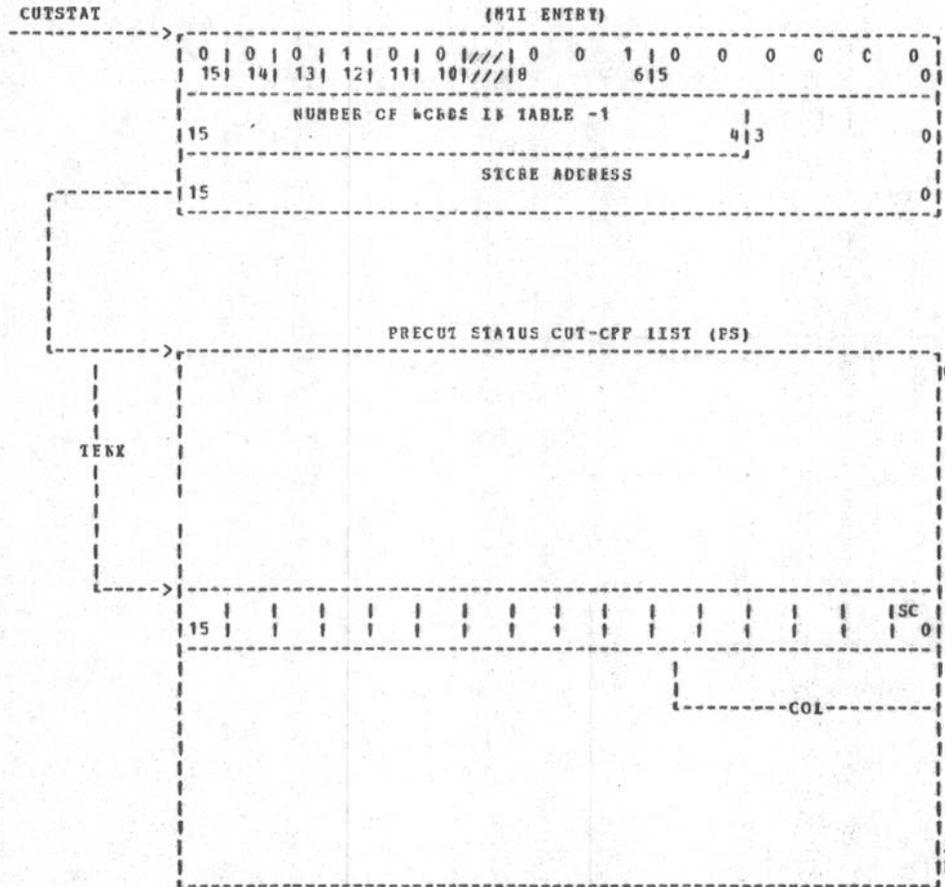
FIGURE 26D GENERAL SCHEDULER MAJOR SEQUENCE TABLE INHIBITS



NOTES:

1. A "1" in any bit position B of word n inhibits the general scheduler from executing that function. A "0" allows that function.
2. This table is loaded by the CIA to all zeros. It is not Recent Changeable. Bits may be set in this table only upon explicit instructions from Bell Labs or from Western Electric FECC.

FIGURE 27 PRECUT TRANSLATION TABLE



NOTES:

1. SC - Status of the line cut-off.
2. Relationship of TENV and TEN

TEN	CG	RCW	CCI
12	918	413	01

(Also, see FIG. 2, NOTE 7)

$$TENV = (CG-1) * 24 + RCW$$

3. Table size is a function of the number of logical scanners. Size = LOGSCAN (Fig. 35B) Number \* 24.

FIGURE 2E AUTOCONNECT TRANSLATION TABLES

FIGURE 29A MESSAGE CLASS TABLE

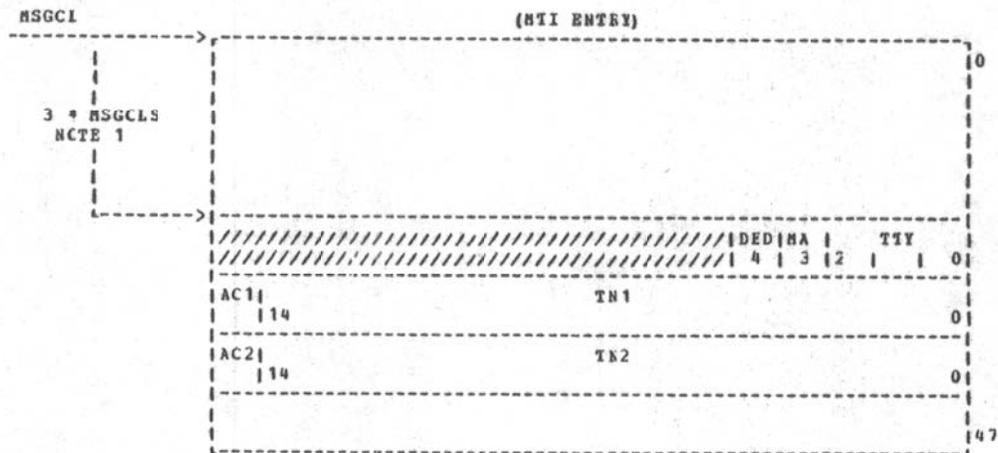


FIGURE 28B CALL BACK NUMBER TRANSLATOR

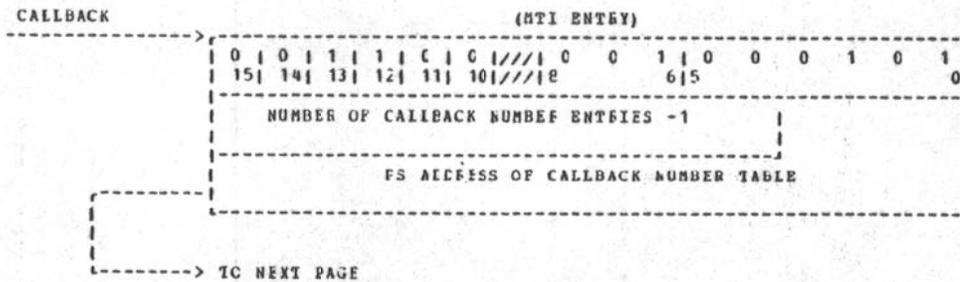


FIGURE 28B CALIBACK NUMBER TRANSLATION (continued)

F&CN FREVICUS PAGE											
7 * BTI											
CA	15	14						8	7	0	
MSGCL				11	10		9	8	7	0	
FUNCTION		= 0,3		4		13		1		0	
TERMINAL EQUIPMENT NUMBER											
E0		E1		D2		D3				0	
D4		D5		D6		D7					
D8		D9		D10		D11					
D12		D13		D14		SIGDIG					
NOTE 3											
CA	15	////////////////////						INITE	HER	1	0
FUNCTION		= 8		7		4		2		0	

(continued)



NCIES: (continued)

## 4. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INLET MESSAGE	ESS FCEN			DESCRIPTION	
		KEYWORD	NUMBER	ITEM		COLUMN
MSGCLS	RC:LINE	CLS	-	-	-	Message class number 0 = maintenance 1 = backup maintenance 2 = service orders 3 = traffic 4 = repair service bureau 5 = office recrds 6 = regional accounting office 7 = spare 8 = ABA primary 9 = ABA backup 10 = SCTI data 11-15 = spare
TTYC	RC:LINE	TTYC	-	-	-	TTY physical controller number
TTYE	RC:LINE	PORT	-	-	-	TTY physical port number
STONE	RC:LINE	STONE	-	-	-	Defines the carrier tone of the data set 03 = high tone (no timing) 01 = 2025 hz (time 30 sec) 10 = 2225 hz (time 30 sec)
NDB	RC:LINE	NDB	-	-	-	No dial back 0 = call return number 1 = use dedicated
ADO	RC:LINE	AUTO	-	-	-	Automatic dialup option 0 = feature not desired 1 = feature desired
PRIORITY	RC:LINE	PRIOR	-	-	-	To be used in the event that an incoming trigger number needs any of the existing autoconnect facilities that are in service.
NITE	RC:LINE	NIGHT	-	-	-	Night desk 0 = day ITE 1 = night ITE

(continued)

NOTES: (continued)

## 4. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INPUT MESSAGE	ESS FORM				DESCRIPTION
		KEYWCFD	NUMBER	ITEM	COLUMN	
FUNCTION	RC:LINE	ETYE	-	-	-	User function 0 = TTY 1 = reserved 2 = reserved 3 = ROTL data 4-7 = spare 8 = lccal test desk trunk 9 = remote record overload announcement 10 = ROTL security 11-15 = spare
TEN	RC:LINE	ICE	-	-	-	Terminal equipment number.
CO TO D14	RC:LINE	RTM	-	-	-	Callback number in BCD (zero = 1010)
MBR	RC:LINE	TER	-	-	-	Member number in the trunk group for FUNCTION = 8 BCTL user identity digit for FUNCTION = 10

## 5. DATA DESCRIPTION

DATA	DESCRIPTION
MA	Miscellaneous AC controller 0 = TTYC is not a miscellaneous AC controller 1 = TTYC is a miscellaneous AC controller
DED	Dedicated AC controller (See Note 2) 0 = TTYC is not a dedicated AC controller 1 = TTYC is a dedicated AC controller
CA	1 = callback number entry active
SIGDIG	Number of digits in entry
RAHL	BCTL Automatic maintenance limit 0 = can remove up to the out of service limit of trunks in a group 1 = can remove more than the out of service limit of trunks in a group

EQUIPMENT AND TRAFFIC INFORMATION

INDEX OF FIGURES

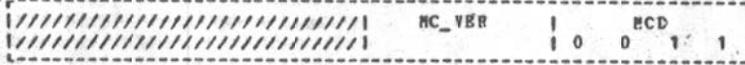
- Figure 29 - Office Definition Data
- Figure 30 - Tape Definition Data
- Figure 31 - Store Address
- Figure 32 - Write Protect Table
- Figure 33 - Traffic Data
- Figure 34 - Scan List
- Figure 35 - Growth Parameters



FIGURE 29C EQUIPPED MICROSTORE

EQMISMOE

(MII ENTRY)



. 7 . 6 . 5 . 4 . 3 . 2 . 1 . 0 .

NOTES:

1. There are six possible TTY controllers and 2 spare entries.
2. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INPUT MESSAGE	ESS FORM			DESCRIPTION	
		KEYWORD	NUMBER	ITEM		COLUMN
HSP	RC:TTY	HS	3500-3	-	2E	1 = TTY controller is arranged for a high speed printer
CP	RC:TTY	PAR	3500-3	-	25	Parity check 0 = no 1 = yes
CPENON	RC:TTY	RO	-	-	-	Monitor flags for ports 0-3. Port is used as a monitor port.
CPWRU	RC:TTY	WRU	3500-3	-	26	WRU test flags for ports 0-3. 1 = do WRU test on port.
MC_VER	RC:OFFICE	MICRO	3500-1A	45	22	The type of EE circuit packs the microstore is equipped with: <u>LDIS to SD-1C9 10-02</u> <u>Type of EE Packs</u> 0 = none 1 = none 2 = 8A,8B 3 = 8A 4 = 8A 5-15 (future) 4C062 to 65,68,69(S) 4C156 to 159(D) 4C200 to 203(D) 4C068,69(S) & 4C200,201(D) 4C158,159,200,201(D)

## NOTES: (continued)

## 3. DATA DESCRIPTION

DATA	DESCRIPTION
CPEENT	Number of TTY controller parameter block entries -1
MSGCLS	Message for autoconnect on this TTY controller. See definition in Figure 28, Note 4.
CPEEQ	Equipped flags for ports 0-3. 1 = port equipped.
NSICHM	Total number of standard equipped main I/C channels (1 or 2)
NCHN	Total number of equipped main I/C channels (1 or 2)
C	Channel 0 = standard channel 1 = special channel
CNE	Channel number
IOC	Address of main channel (3 out of 6 code) (See FIG. 30 Note 5)
MOD	Each bit is an equipped module of microstore. Each mod is 1024 words.

FIGURE 30 TAPE DEFINITION DATA

FIGURE 30A TAPE OPTIONS

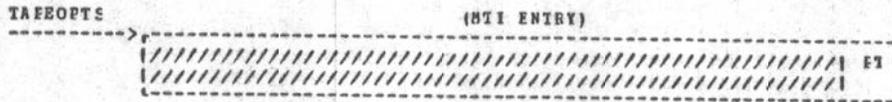


FIGURE 30B EVEN TDCS

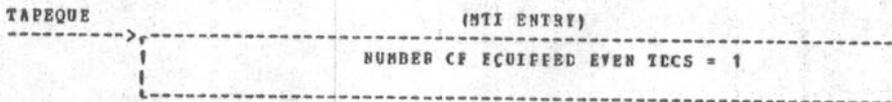


FIGURE 30C ODD TDCS

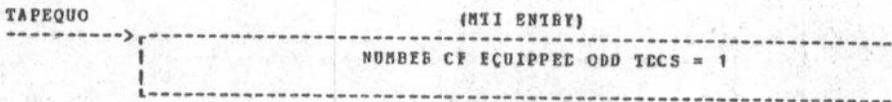
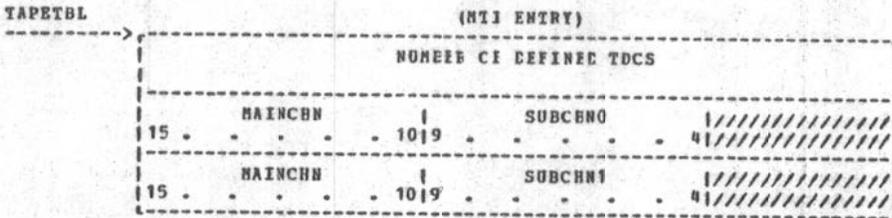


FIGURE 30D I/C ADDRESS DEFINITION FOR ALL TDCS



NOTES:

1. PT = Preferred tape data controller.
2. MAINCHN = Main channel address = 0. (3 out of 6 code) (see note 5)
3. SUBCHNO & 1 = Subchannel address for:  
TDC0 = 2  
TDC1 = 3  
(3 out of 6 code) (see note 5)
4. TDCS = Tape data controllers.
5. 3 out of 6 code table.

NUMBER	BINARY CODE	NUMBER	BINARY CODE
0	000111	10	100011
1	001011	11	100101
2	001101	12	100110
3	001110	13	101001
4	010011	14	101010
5	010101	15	101100
6	010110	16	110001
7	011001	17	110010
8	011010	18	110100
9	011100	19	111000

FIGURE 31 STORE ADDRESS

FIGURE 31A

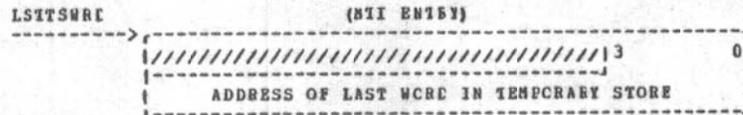


FIGURE 31B

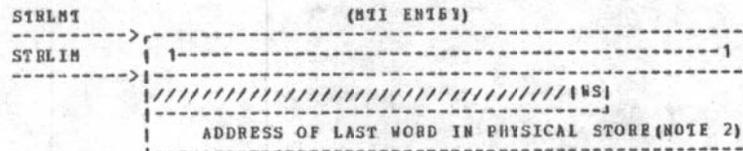
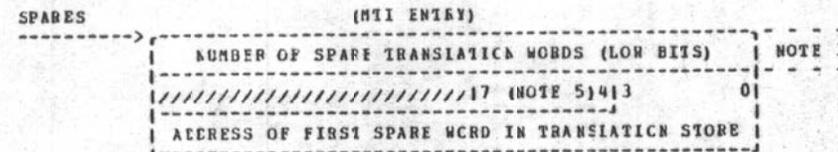


FIGURE 31C



FIGURE 31D



NOTES:

1. WS = Wide Store  
= 0 For No. 3 ESS
2. This address is the address of the last word in physical store. It may be equal to or larger than the last word of translation store. (See Figure 1, Note 10)
3. The number of spare translation words is: the address of the last word in translation store (see Figure 1, Note 10) minus the address of the first spare word in translation store (see SPARES). This implies that the last word in translation store can never be used.
4. Means spare "translation assignable" temporary store words.
5. Bits 4 to 7 of word 2 (Fig. 31D) are for the number of spare translation words (HIGH BITS). See NOTE 3.

FIGURE 32 WRITE PROTECT TABLE

WPTBL → (811 ENTRY)

1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0
15																	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15																	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15																	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15																	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15																	15

NOTES:

- Map of which 4K store blocks are write protected (16 words allowing 1024K).
    - 0 = Writeable store
    - 1 = Write protected
- If 4K is not provided, then bit is set

FIGURE 33 TRAFFIC DATA

FIGURE 33A CLASS OF SERVICE

CLSRV	(HTI ENTRY)				
15	MAJ3	MAJ2	MAJ1	MAJ0	0
	MAJ7	MAJ6	MAJ5	MAJ4	1
	MAJ11	MAJ10	MAJ9	MAJ8	2
	MAJ15	MAJ14	MAJ13	MAJ12	3
	MAJ19	MAJ18	MAJ17	MAJ16	4
	MAJ23	MAJ22	MAJ21	MAJ20	5
	MAJ27	MAJ26	MAJ25	MAJ24	6
	MAJ31	MAJ30	MAJ29	MAJ28	7

FIGURE 33B INCOMING & INTRAOFFICE INTERCEPT BLOCK

IBLK	(HTI ENTRY)	
	RI1	0
	RI2	1
	RI3	2

(See NOTES following Figure 33F)

FIGURE 33C NIGHTLY ROUTINE SCHEDULING FIGCH

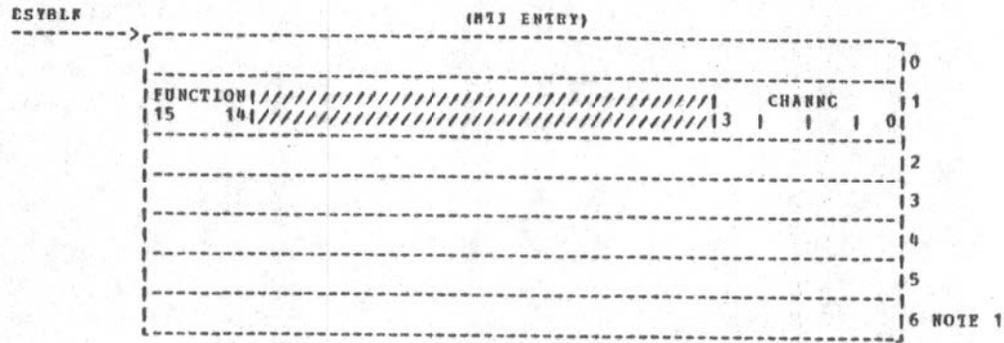
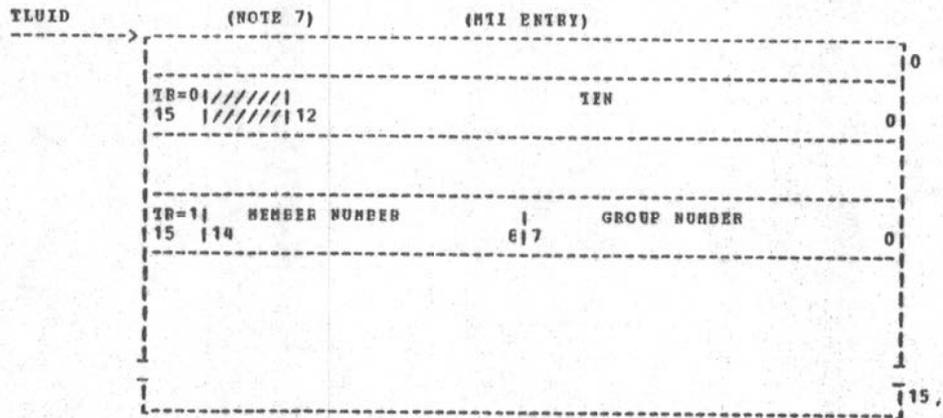


FIGURE 33D TERMINAL USAGE IDENTIFIER



[See NOTES following Figure 33F]

FIGURE 33E SCHEDULE BLOCK

SKEDBLK										(M11 ENTRY)					
NOTE 2										10					
										BUSY					
										HOUB					
										END					
HR7	HR6	HR5	HR4	HR3	HR2	HR1	HR0			BUSY					
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
HR15	HR14	HR13	HR12	HR11	HR10	HR9	HR8			HOUR					
										BEGIN					
HR23	HR22	HR21	HR20	HR19	HR18	HR17	HR16								
										C					
										SCHEDULE					
										END					
										C					
										SCHEDULE					
										BEGIN					
										WEEKLY					
										SCHEDULE					
										14					

(See NCIES following figure 33f)



FIGURE 33 TRAFFIC DATA (continued)

## NOTES:

1. In Figure 33C, word references are:
- |                               | value of FUNCTION set by ODA are: | value of CHANNO set by ODA are: |
|-------------------------------|-----------------------------------|---------------------------------|
| 0 = Daily                     | 01                                | 0011                            |
| 1 = Traffic busy hours        | 01                                | 0011                            |
| 2 = Message registers         | 01                                | 0000 (note 6)                   |
| 3 = Out of service report     | 01                                | 0000                            |
| 4 = Set selection status bits | 01                                | 0000                            |
| 5 = Unused                    | 00                                | 0000                            |
| 6 = Unused                    | 00                                | 0000                            |
2. In Figure 33E, all 5 schedules have the same layout. The weekly schedule shows the beginning time. It ends one half hour later.
3. In Figure 33F, words 7-26 are header words which control the printing of the traffic counts. Of the three fields, NAME and LENGTH are given predefined values by CEA and SCH is given predefined and default values by CDA. The default values are recent changeable by the RC:SCHED message for the header words marked with \*. Following are the values set up by CDA.

WORD	NAME	SCH	LENGTH	TYPE OF COUNTS
7	16**	0	0	Starts table
8	14	0	16	Quarter hour 45 min. ago
9	14	0	16	Quarter hour 30 min. ago
10	14	1	16	Quarter hour 15 min. ago
11	14	0	16	Present Quarter hour
12	1	2	1	Cycle count for busy hour
13	1	3	1	Cycle count for non-busy hour
14	1	4	1	Cycle count for daily
15	1	5	1	Cycle count for weekly
16	2	2*	86	Office totals
17	3	4	4	Division of revenue
18	4	0	0	Starts the groups' (MLH,SVC,TRK) counts
19	5	0*	4	Exeroute
20	6	0*	5	Class of service
21	7	5*	31	A-Link usage
22	8	5*	3	E-Link usage
23	9	0*	16	Terminal life usage
24	15	6	63	Flant
25	16	0	6	AMA
26	0	0	0	Ends table

\*\* indicates start of table, not AMA.

4. This table is searched by the program. (Figure 33F)

(continued)

## FIGURE 33 NOTES (continued)

5. Nightly routine is a schedule of sequential events. The events are:
1. Office record printout (2 hours and 15 minutes before the HOURS and MINUTES)
  2. Daily printout of D, W & F schedules.
  3. Busy-hour printout from tape of E schedule.
  4. Message register printout.
  5. Set spare selection status bits.
  6. Nightly schedule (includes update of translation file on tape and diagnostics).
6. The value of CHANNO for word 2 (Message Register) is Recent Changeable by the RC:REPT message.
7. This table (Figure 33D) is loaded by Recent Change only, and not by the ODA.
8. Set by the RC program, which subtracts 2 hours and 15 minutes from HOURS and MINUTES.

## 9. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INPUT MESSAGE	ESS FORM				DESCRIPTION
		KEYWORD	NUMBER	ITEM	COLUMN	
HAJO to 31	RC:CLS	CLS	-	-	-	The 32 major classes of service all assignable to the class of service registers. 0000 = class not assigned to a register 0001 = class assigned to originating CLS Register 1 0010 = class assigned to originating CLS Register 2 0100 = class assigned to originating CLS Register 3 1000 = class assigned to originating CLS Register 4 1111 = class assigned to terminating CLS register and to originating CLS Register 4
BI1 to 3	RC:INCP	RTI	-	-	-	Route index (Max 3) counts are taken on the route indexes stored in IEIK only when accessed thru the 4-digit translator
HRO to 23	RC:REPT	SCHED	-	-	-	Hour of day to control collection of traffic data 01 = on the hour 10 = on the half hour 11 = on the hour & half hour (for weekly schedule only)
DED	RC:QH	DED	3400-1	-	33-34	= 1 - dedicated traffic channel
CH	RC:QH	MAINT	3400-1	-	37-38	= 1 - print Q schedule on maintenance TTY
QT	RC:QH	TRF	3400-1	-	35-36	= 1 - print Q schedule on traffic TTY

(continued)

FIGURE 33 NOTES (continued)

## 10. DATA DESCRIPTION

DATA	DESCRIPTION
FUNCTION	00 = not done at all 01 = nightly routine function
CHANNO	Channel number data is printed out on
TEN	Terminal equipment number being counted for usage
HOURS	Hour of begin of nightly routine in BCD (See Note 5)
HOURSOPR	Hour of begin of office record in BCD (See Note 5,8)
MINUTES	Minutes of begin of nightly routine in BCD (See Note 5)
MINUTESOPR	Minutes of begin of office record in BCD (See Note 5,8)
NAME	5 bit code identifying the traffic measurement (See Note 3) 0 = Reserved (ends search) 1 = Cycle Counts 2 = Office Totals 3 = Division of Revenue 4 = Groups 5 = Preroute 6 = Class of Service 7 = A Link 8 = B Link 9 = Terminal usage 10 = Reserved 11 = Reserved 12 = Reserved 13 = Reserved 14 = Quarter hour 15 = Plant 16 = ADA
SCH	Schedule the traffic measurement prints on (See Note 3) = 0 not scheduled = 1 quarter hour = 2 busy hour = 3 non-busy hour = 4 daily = 5 weekly = 6 plant

## FIGURE 33 NOTES (continued)

## 10. DATA DESCRIPTION

DATA	DESCRIPTION
LENGTH	Number of registers (words) associated with traffic measurement
IR	Trunk or line indicator 0 = line 1 = trunk or service circuit
GROUP NUMBER	Trunk or service circuit group number being counted for usage.
MEMBER NUMBER	Trunk or service circuit member number being counted for usage.

FIGURE 34 SCAN LIST (NOTE 1)

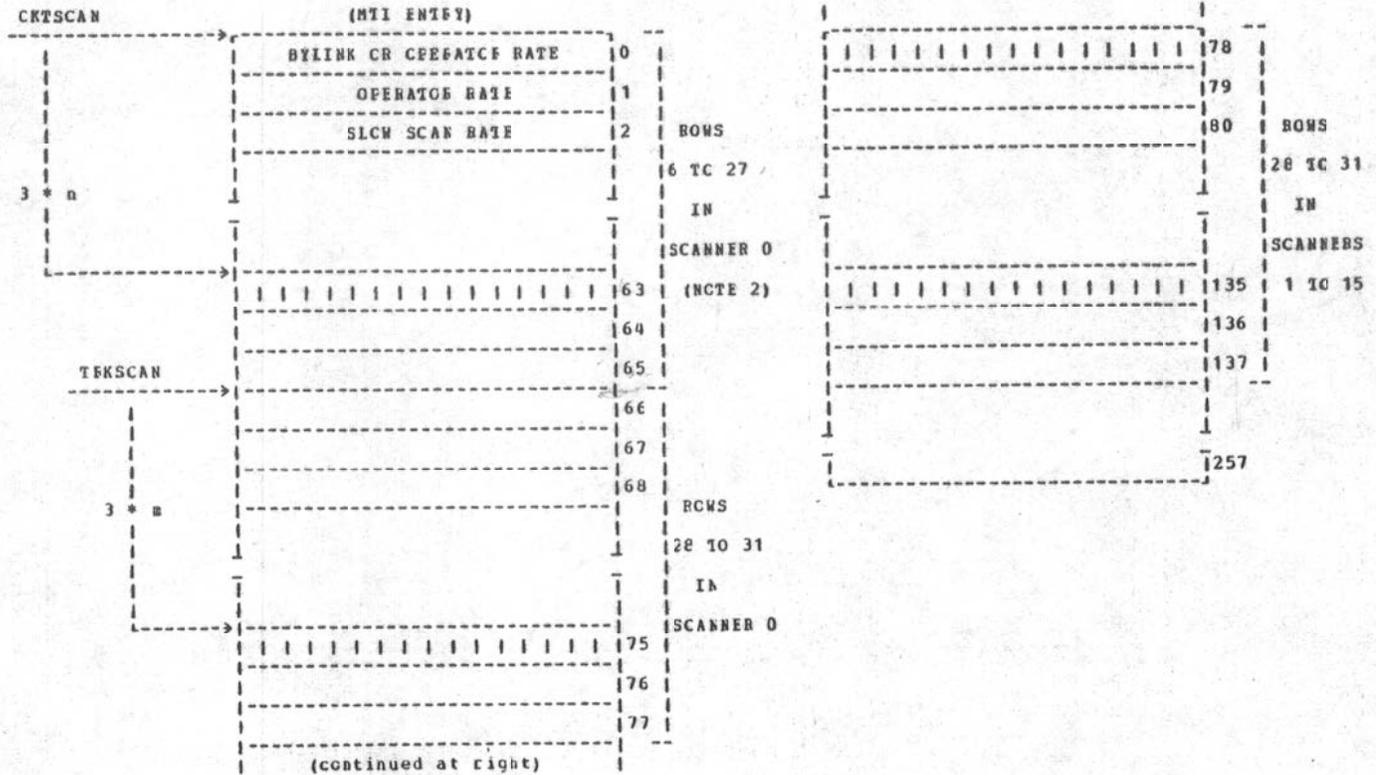


FIGURE 34 (CONTINUED)

## NOTES:

1. This scan list is three scan lists in one: a by-link trunk scan list for by-link trunks; an operator trunk scan list for operator trunks; and a slow scan list for other trunks and service circuits. Scan points in the by-link or operator scan list are scanned every fourth interrupt. The slow scan list is scanned every cycle of the base level.
2. Three words per scan row - one bit per word per scan point. Bit = 1 scan points at rates specified.
3.  $n = \text{Row} - 6$  for service circuits and LII trunk (rows 6-27).
4.  $m = 4 \text{ times scanner number} + (\text{row} - 28)$  for trunk circuits (rows 28-31, scanners 0-15).
5. Bylink or operator = Bylink or operator scan points.
6. Operator = Operator scan points.
7. Slow scan = Slow scan points.
8. Scan Rate Table for Trunks and Service Circuits

TRUNK OR SERVICE CKT	WORD 0 BYLINK OR OPERATOR SCAN	WORD 1 OPERATOR SCAN	WORD 2 SLOW SCAN	NO WORD NO SCAN
Service Ckts by Ckt Codes: 13,14 0-12 15,16,18,19			X	X X
Trunk Ckts by Group data: EYLK ITD EBS SIG = 1 = 2 = 3	X   X	   X	  X X  X	
If none of the above conditions match			X	



FIGURE 35E EQUIPPED PERIPHERAL DECODER (continued)

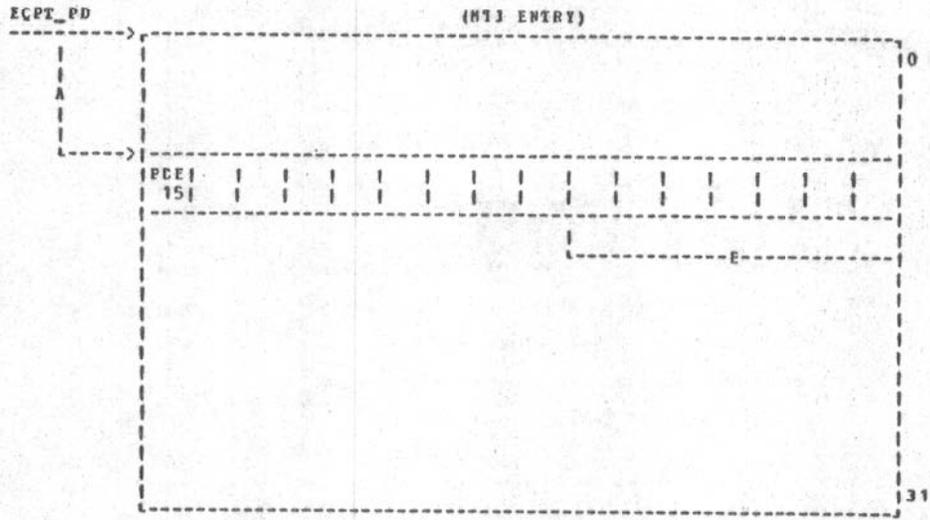


FIGURE 35F FRAMES EQUIPPED MASK - CALL PROCESSING

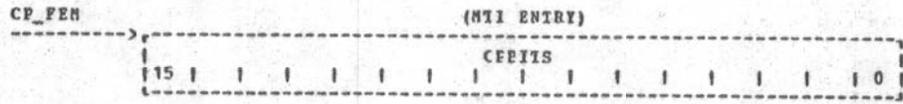


FIGURE 35G FRAMES EQUIPPED MASK - MAINTINANCE

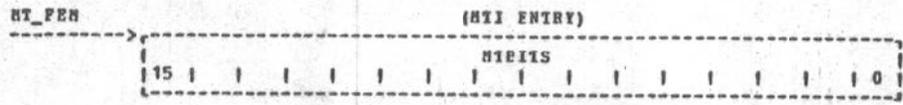


FIGURE 35H MAIN STORE TYPE



NOTES:

1. DATA CROSS-REFERENCE AND DESCRIPTION

DATA	INPUT MESSAGE				ESS FCRM			DESCRIPTION
	KEY	WCR	RE		NUMBER	ITEM	COLUMN	
NETS	RC:OFFICE	NETS	-	-	-	-	-	Defines the number of network control frames 0 = Control frame 0 - network frames 1-7 1 = Control frame 1 - network frames 8-15

2. DATA DESCRIPTION

DATA	DESCRIPTION
BOSCAN	Number of last logical scanner that contains scan points assigned to by-link and/or operator trunks
LCGSCAN	Last equipped logical scanner number
NETW	Highest equipped network controller number
PE	Peripheral decoder of ETA
PDE	Peripheral decoder board is equipped
CPBITS	Each bit indicates which networks are equipped for access by call processing. Bit 0 is always set and indicates the presence of Master Scanner.
MTBITS	Each bit indicates which networks are equipped for access by maintenance. Bit 0 is always set and indicates the presence of Master Scanner.
TRIE	Triplet of Distributor triplet Address (DTA) (Not used in EQPT_FD table)
PPD	Peripheral pulse distributor of ETA.
m(n)	0 = Main store (n) is equipped with J1-2 packs (4K EIE memory devices) 1 = Main store (n) is equipped with J1-16 packs (16K EIE memory devices) Each main store is 256K.