

**ORIGINATING MARKER AND 3-DIGIT TRANSLATOR
CROSS CONNECTIONS
NO. 1 CROSSBAR OFFICES**

1. GENERAL

1.001 This addendum supplements Section 216-711-301 Issue 6.

1.002 This addendum is issued to add cross-connection information for access codes "0" and "1" and to revise Part 4, H, Class-of-Service Peg Count Punchings.

3. CROSS-CONNECTION FACILITIES

The following change applies to Part 3 of the section:

(a) Paragraph 3.03 — added

3.03 When the office is arranged for 0 and 1 access codes, an access code unit is provided. This unit may be mounted on a miscellaneous frame and consists of the AS0-AS3 (access screening) relays and the associated punchings for the AS 00-29 contacts and ASC 00-29 common contacts of the AS relays. Also, multiples of the following punchings appear on this frame: DRC, KP, NC, OT, RG, RRC, SC, TC, and Z (A-J).

4. ASSIGNMENTS AND EQUIPMENT ARRANGEMENTS

The following changes apply to Part 4 of the section:

- (a) Tables 1 and 2 — revised
- (b) Paragraph 4.31 — revised
- (c) Paragraph 4.76 subparagraph (l) — added
- (d) Paragraph 4.141 subparagraph (5) — added
- (e) Paragraph 4.185 — revised
- (f) Paragraphs 4.185.1 and 4.185.2 — added
- (g) Paragraph 4.186 — revised
- (h) Paragraph 4.186.1 — added
- (i) Paragraph 4.211 — revised
- (j) Paragraphs 4.223 through 4.230 — added
- (k) Figs. 25 and 26 — revised
- (l) Figs. 32 through 35 — added

TABLE 1

PCHG.	PARA.	TERMINAL STRIP LOCATED ON					NAME	CROSS-CONNECT TO PCHG.	PARAGRAPH NO.	TERMINAL STRIP LOCATED ON					ILLUSTRATION	CONDITION
		COMMON BAY	L.A. BAY *	E.A. BAY *	CLASS OF SERVICE BAY	ACCESS CODE UNIT				COMMON BAY	L.A. BAY *	E.A. BAY *	CLASS OF SERVICE BAY	ACCESS CODE UNIT		
ACS-(7,8,9,0)	4.225	A					Access Code Screening	ASW	4.229	A					Fig. 33	To associate access code condition with winding of screening relay.
ACS-6		A					Access Code Screening	11X	4.225	B					Fig. 35	To provide access to code points C110-C119.
ACT-	4.226	B					Access Code Translator	AT	4.226	B					Fig. 34	When connection to local area translator is required.
								IT	4.221	B						When connection to extended area or 3-digit individual translator is required.
								STS	4.212	B						When connection to 3-digit common translator is required.
AS-	4.228					A	Access Screen	DRC	4.97					B	Fig. 33	To divert call to operator, deny route, or other route, as desired.
								RRC	4.188					B		To permit coin classes to dial beyond the local area charges.
								KP	4.97					B		Denied route to keypulse operator.
								NC	4.97					B		If "no charge" condition is required.
								OT	4.97					B		If operator transmission is required.
								SC	4.94					B		To provide different routing according to originating class of service.
								TC	4.97					B		One message unit initial charge.
								Z-	4.97					B		To provide proper zone charge condition.
ASC-	4.227					A	Access Screen — Common	RG					A	Fig. 33	For connection of route relay winding to common contact of screening relays.	
ASW-	4.229	A					Access Screening Relay Winding	ACS	4.225	A					Fig. 33	To associate winding of screening relay with access code as required.
								NPD	4.229	A						No access code prefix required, sender recycle is required.
								PD1		A						Access code prefix "1", sender recycle.
C-110-119	4.230	D	RC				Codes 11X	RC	4.66	-	RC				Codes assigned to route relay or class-of-service treatment as required.	
								SC	4.94	C,D	SC					
RG	4.76 (I)				RG	A	Route Group	ASC R	4.227					A	Fig. 33	To connect common contact of access screen relay to route relay winding.
R	4.76		R	R	R		Route Relay	RG	4.76 (I)		RG	RG	RG	A	Fig. 33	To connect to access code screen relay ASC punching.

* L.A. Local Area Route Relay Bay.

* E.A. Extended " " " "

TABLE 2

ITEM NO.	INFORMATION REQUIRED	BSP PARA.	RELATED PUNCHING AND RELAY ASSIGNED	BSP PARA.
19	ACCESS CODE TREATMENT —Provided to screen calls for required routing according to access code prefixed to regular code, or for no access code.		PD1 and AS- relays. ACS, AS, ASC, ASW, NPD, RG, and PD1 punchings.	4.224

C (Code Point) Punchings

4.31 The C punchings represent the numerical codes which are dialed by the subscriber. The crossconnection from this punching will operate a route relay (R) which in turn provides information to the marker regarding the outgoing trunk location on the office frame. The marker is arranged for 800 C punchings numbering from 200 to 999 representing the home area codes. The marker may be arranged for an additional 800 C punchings if it is desirable to divide the home area into two parts, the local area and the extended area (extra charge call within the home area). Markers may be arranged for additional groups of 800 C punchings representing central office codes in foreign areas. If the marker is equipped for access code screening (prefix "0" and "1" dialing) C punchings for 3-digit codes 110 to 119 are also provided.

R (Route Relay) Punchings

4.76 R punching (Fig. 7) is assigned to:

(1) **RG punching** for access code screening.

The RG is an interconnect between the access code unit and the route relay bays. The other end of this interconnect is also designated RG. It should be connected to the ASC punching.

Class of Call Information — Class of Call Punchings (CL) and Route Auxiliary Punchings (RA)

4.141 (5) For zero operator trunks when any of the associated trunks are connected to the auxiliary multi-line service observing circuit.

Class-of-Service Peg Count Punchings

4.185 When the class-of-service peg count feature is provided and the marker is not arranged for AMA, the CPC punching (see Fig. 21) is assigned to an SC punching. The associ-

ated S punchings of classes not equipped with message registers nor with ground on the line message register terminals are assigned to the CSP0 to 9 punchings. The associated S punchings of classes equipped with message registers or grounded MR leads are not assigned. The RMR punching is assigned to another SC punching. The associated S punchings of classes not equipped with registers or grounded MR leads are assigned to the PMR punching. The associated S punchings of classes equipped with registers or grounded MR leads are assigned to the CSP0 to 9 punchings. The MR punching is assigned to the ZMR punching.

4.185.1 When the class-of-service peg count feature is provided and the marker is arranged for AMA, the RMR punching is assigned to an SC punching. The associated S punchings are assigned to CSP0 to CSP9 punchings.

4.185.2 As only 10 CSP punchings are provided, only 10 classes may be assigned at a time. By rotating assignments, all classes may be covered over a period of time. Different classes in different markers may be assigned at the same time, each marker having its own set of CSP0 to 9 punchings. The LC1 punching is a cable terminal and is not assigned. The 10 equipments, associated with the CSP0 to 9 punchings of each marker, must be assigned to the proper traffic registers and cross-connected at the traffic register distributing frame.

4.186 When the class-of-service feature is not furnished and the marker is not arranged for AMA, assign the RMR punching to an SC punching. Assign the associated S punchings of classes not equipped with message registers nor arranged with ground on the line message register terminals to the ZMR punching. The associated S punchings of other classes are not assigned.

4.186.1 When the class-of-service peg count feature is not furnished and the marker is arranged for AMA, none of the cross connections described in 4.185 and 4.186 are required.

Intersender Timing Announcement and Nonannouncement Punchings

4.211 The RA punchings of the overflow and announcement route relays (Figure 23B) are cross-connected to operate a register, to record the number of calls where the sender requests a routing to overflow or announcement as follows:

Prefix Digits "0" and "1" Access Code Punchings

4.223 For markers arranged to provide separate routing for person-to-person and extra charge station-to-station calls, access code screening relays and associated punchings are provided.

4.224 On the marker common bay, terminal strip A, there are appearances of the ACS (6, 7, 8, 9, 0), ASW (0-3), NPD, and PD1 punchings. On terminal strip B are the ACT (0-9), AT, and 11X punchings, together with multiples of IT, STS, DRC, KP, NC, OT, RRC, SC, TC, and Z (A-J) punchings. On terminal strip D are the code points C110-C119, and these are multiplexed to the RC terminal strip of route relay bay 0. The ASC punchings (00-29, common to all AS relays) and AS punchings (00-29, one set for each AS relay) appear on the ASL and the A terminal strip, respectively, of the access code unit.

4.225 ACS (7, 8, 9, 0) punchings are assigned to ASW- punchings to operate an AS (access screening) relay as required. The ACS6 punching is assigned to 11X to operate the 11X and 11X' relays. The operation of relays 11X and 11X' connects C110-C119 to the code receiving relays.

4.226 ACT0 punching should be connected to AT when Figs. 55 and 62 are provided. ACT (0-9) punchings are assigned to:

- (a) AT when required to connect local area translator.
- (b) IT when required to connect extended area translator or 3-digit individual translator.
- (c) STS when required to connect 3-digit common translator.

4.227 ASC (00-29) punchings are assigned to RG punchings for connection to R (route relay) as required for access code treatment.

4.228 AS (00-29) punchings are assigned to:

- (a) SC when the associated destination code is to be given different routing according to the originating class of service.
- (b) DRC or RRC to divert the call to operator, or to other route, as required for access code.
- (c) KP, NC, OT, TC, Z (A-J) as required. See Paragraph 4.97.

4.229 ASW (0-3) punchings are assigned to:

- (a) ACS7 for calls prefixed with access code "0".
- (b) ACS8 for calls prefixed with access code "1", if sender recycle is not required.
- (c) ACS9 for calls originating from keypulse operator.
- (d) ACS0 for calls not requiring access code prefix and sender recycle is not required.
- (e) NPD for calls not requiring access code but sender recycle is required.
- (f) PD1 for calls prefixed with access code "1" and sender recycle is required.

4.230 C (110-119) punchings are assigned to an RC or SC punching as determined locally.

