

DIMENSION® PBX  
BACKUP LINE EXTENSION  
CROSS CONNECT

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1. GENERAL

- 1.1 This section provides installation information for Backup Line Extension for DIMENSION 400 and 2000 PBX.
- 1.2 Each DIMENSION 400 PBX at a branch location can have as many as four RLTs and four backup stations (one for each RLT). Each DIMENSION 2000 or Custom PBX at a branch location can have as many as 16 RLTs and 16 backup stations (one for each RLT). Each backup station line in a DIMENSION PBX is assigned a TOUCH-TONE® calling class of service and other features that permit the backup station to perform the same functions as a CAS attendant position.
- 1.3 Each backup control station is a 2514BM-type telephone set equipped with a 642A turn key and headset or handset with necessary cords and adapter as shown in Figure 1. The 642A turn key is used to switch modes of operation from the existing handset to the auxiliary handset or headset. The turn key is also used to generate the flash signal used to request a register or release a destination party. When the turn key is turned fully counterclockwise, the backup station is connected to the existing handset. When the turn key is turned fully clockwise, the backup station is connected to the auxiliary handset or headset. In this position, the station is in an off-hook condition; therefore, the existing handset should be left on-hook while the auxiliary handset or headset is being used. When fewer backup stations are attended than are provided, and the system is in backup mode, all unattended stations should be left off-hook.

PRIVATE

THE INFORMATION CONTAINED HEREIN SHOULD NOT BE DISCLOSED TO UNAUTHORIZED PERSONS. IT IS MEANT SOLELY FOR USE BY AUTHORIZED BELL SYSTEM EMPLOYEES.

**1. GENERAL (Cont'd)**

- 1.4 The backup station can dial activate any one of three modes of operation:
- CAS mode
  - Backup station mode
  - Trunk answer any station (TAAS) mode
- 1.5 The backup stations have associated 30A8 system status indicator(s) (see Figure 2). The first indicator, located near the backup stations, is a panel of eight lamps which provide a visual indication of:
- The busy/idle status of RLTs 1 through 4 (for DIMENSION 400 PBX)
  - The RLT mode of operation
  - Traffic overload
  - Alarm conditions (major or minor)

A DIMENSION 400 PBX has just the first indicator. A DIMENSION 2000 PBX may have one or two additional indicators. If needed, the eight lamps on the second indicator display the status of RLTs 5 through 12. The third indicator displays the status of RLTS 13 through 16 (see Figure 2). Table A provides a functional description of each lamp. For installation information of 30A8 (if required), see Section 250.22 of Handbook 282.

TABLE A  
SYSTEM STATUS INDICATOR (SSI) LAMP FUNCTIONS

	LAMP NUMBER	LAMP FUNCTION	LAMP STATUS
FIRST SSI	1	Status of RLT of No. 1	Dark = Idle RLT  Steady = Busy RLT - seized at both ends or trunk is active when in backup mode  Wink (at 30 ipm) = Maintenance busy
	2	Status of RLT of No. 2	
	3	Status of RLT of No. 3	
	4	Status of RLT of No. 4	
	5	Indicate either normal or backup mode of operation for RLTs	Steady = Normal operation  Blinking (at 30 ipm) = Backup mode or TAAS
	6	Traffic Overload Indicator	Dark = OK  Steady = Queue threshold exceeded
	7	Major Alarm	Dark = OK  Steady = Alarm
	8	Minor Alarm	
SECOND SSI	9 through 16	Status of RLTs 5 through 12  (DIMENSION 2000 and Custom PBXs only)	Same Lamp Status as RLTs 1 through 4
THIRD SSI	17 through 20	Status of RLTs 13 through 16  (DIMENSION 2000 and Custom PBXs only)	Same Lamp Status as RLTs 1 through 4
	21 through 24	Unused	

2. USEFUL DOCUMENTS (For Reference Only)

- 2.1 BSP 554-191-136 Centralized attendant service feature
- BSP 981-012-100 CAS general description information
- BSP 554-191-123 CAS with combined PBX/attendant concentration feature
- COD Customer Order Document

3. REQUIREMENTS

3.1 Material needed:

<u>Quantity</u>	<u>Item</u>	<u>Description</u>
1*	2514BM	Backup Telephone Set

\* For DIMENSION 400 PBX, as many as four backup stations (one for RLT). For DIMENSION 2000 PBX, as many as 16 backup stations (one per RLT).

4. PROCEDURE

- 4.1 For Backup Extension Line (RLT) assignment refer to System and Feature Summary Section of Customer Order Document.
- 4.2 Connect the 2514BM telephone set to the tip and ring leads like any ordinary station; for detail cross-connect information, see Line Carrier x-conn. section of COD.

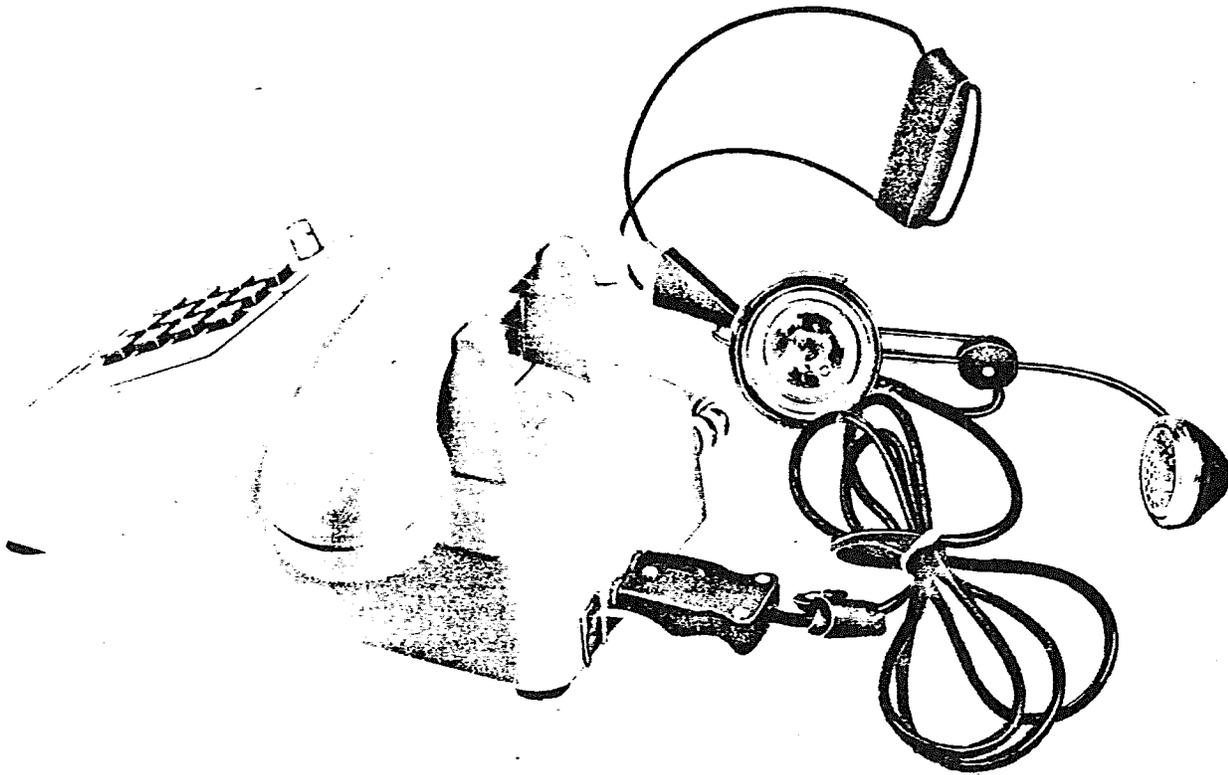
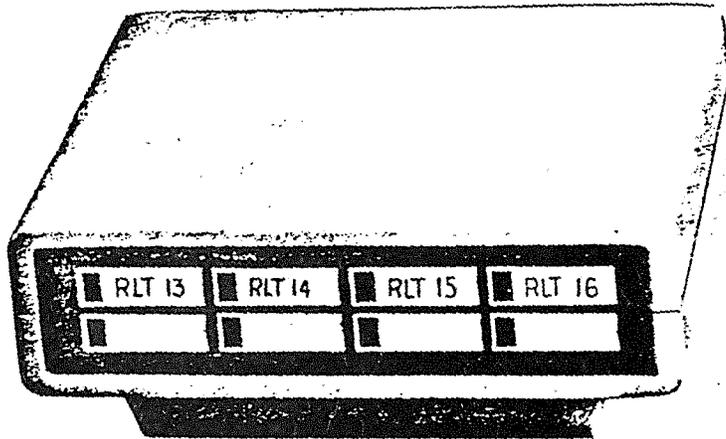


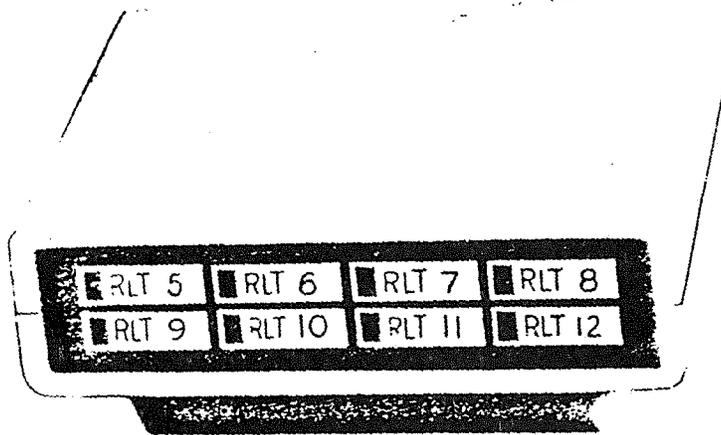
FIGURE 1 - 2514BM TELEPHONE SET EQUIPPED WITH A SUPPLEMENTARY HEADSET

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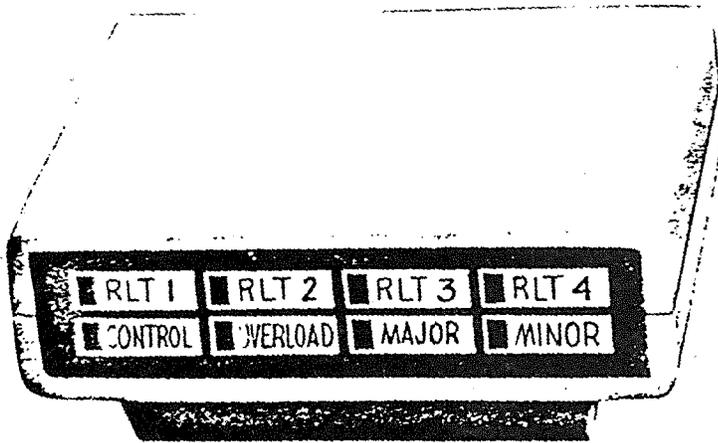
6.



SSI-3



SSI - 2



SSI-1

NOTE:  
DIMENSION® 2000 PBX USES UP  
TO THREE SSI's, DEPENDING ON  
THE NUMBER OF RLT CIRCUITS.  
SSI - 3 DOES NOT USE THE LAST  
FOUR (LOWER) LAMPS.

Fig. 2 -30A8 System Status Indicators

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Reason for Issue:  
New Section

Manager, Denver PBX PECC