

**"DATA-PHONE®" INTERCONNECTION ARRANGEMENT  
FOR TRUNK SIDE OF  
10-TYPE DATA LINE CONCENTRATOR SYSTEM (DATREX\*)  
SUMMARIZING SPECIFICATION**

**1. GENERAL**

**Scope**

**1.01** This specification, together with the supplementary information listed herein, summarizes for application and ordering purposes the product engineering requirements of the DATA-PHONE interconnection arrangement for the trunk side of the 10-type data line concentrator system (DATREX).

**Capacity**

**1.02** The trunk side of the DATA-PHONE interconnection arrangement provides DATREX stations with half-duplex (HDX) or full-duplex (FDX) access to DATA-PHONE stations via the alternate trunk group of the dual access 10B data line concentrator. Only DATREX stations equipped with Data Set 109 type and provided with rotary or TOUCH-TONE® dialing may connect to the trunk side interconnection arrangement.

**Description**

**1.03** The DATA-PHONE interconnection arrangement for the trunk side of the 10-type data line concentrator consists of the following.

ITEM	DESCRIPTION/USE	NUMBER REQUIRED
Data Set 108D-L1	FDX or HDX — ac Loop	1 per Trunk

ITEM	DESCRIPTION/USE	NUMBER REQUIRED
Data Set 109D-L1 or Data Set 109E-L1	HDX — dc Loop or FDX or HDX — dc Loop	1 per Trunk
AR72 Circuit Pack	Logic Interface Between Data Sets	1 per Trunk
AR73 Circuit Pack or AR74 Circuit Pack	Interface — Rotary Dialing or Interface — TOUCH-TONE Dialing	1 per Trunk
28A1 Data Mounting	Framework and Wiring	1 per 2 Trunks
KS-20575,L1 Rectifier	Power Unit	1 per 4 Trunks
209A Adapter	Cabling Interconnections	1 per 2 Trunks

**1.04** The data sets, circuit packs, adapter, and KS rectifier all mount either in or on the 28A1 data mounting. The 28A1 data mounting will accommodate up to two of these arrangements. At installations where only one arrangement is required, the P1 or P2 plug of the 209A adapter is not connected to its appropriate connector of the 28A1 data mounting. All arrangements are mounted on 23-inch or 25-inch racks.

\* Service mark of the Bell System.

**SECTION 591-811-184**

**1.05** The physical dimensions and weights of the apparatus are as follows:

UNIT	HEIGHT	WIDTH	DEPTH	WEIGHT	
	INCHES	INCHES	INCHES	POUNDS	OUNCES
Data Set 108D-L1	5.55	1.12	7.10	1	4
Data Set 109D-L1	5.55	0.56	7.10	-	8
Data Set 109E-L1	5.55	0.56	7.10	-	8
AR72 Circuit Pack	5.55	1.12	7.10	-	6
AR73 Circuit Pack	5.55	1.72	7.10	1	-
AR74 Circuit Pack	5.55	1.72	7.10	1	-
28A1 Data Mounting	6.0	25	10.5	15	-
KS-20575,L1 Rectifier	5.25	6	6.5	12	8

**2. SUPPLEMENTARY INFORMATION**

- A-157100 — Common Features Drawing for Printed Wiring Boards
- A-836330 — Terminal Area Configurations for Printed Wiring Boards
- 312-805-100 — Data Set 108D Type — Description
- 590-102-124 — 28A1 Data Mounting — Identification
- 591-029-101 — Data Set 109E Type — Description
- 591-036-100 — Data Set 109D Type — Description
- 591-811-104 — DATA-PHONE Interconnection Arrangement for Trunk Side of 10B Data Line Concentrator System (DATREX) — Description and Operation
- 591-811-204 — DATA-PHONE Interconnection Arrangement for Trunk Side of 10B Data Line Concentrator System (DATREX) — Installation

- 591-811-304 — DATA-PHONE Interconnection Arrangement for Trunk Side of 10B Data Line Concentrator System (DATREX) — Maintenance
- 591-811-504 — DATA-PHONE Interconnection Arrangement for Trunk Side of 10B Data Line Concentrator System (DATREX) — Tests
- 800-610-158 — Packaged Electronic Products — Wiring, Cabling, Numbering, and Lettering
- 800-610-159 — Printed Wiring Assemblies — General Equipment Requirements
- X-17428 — Plated-Through Holes on Printed Wiring Boards
- X-17626 — Manufacturing Testing Requirements

**3. DRAWINGS**

- SD-1D172-01 — Data Set 109D-L1 Schematic
- SD-1D176-01 — 28-Type Data Mounting Schematic
- SD-1D198-01 — Data Set 109E-L1 Schematic
- SD-1D201-01 — Data System Station DATREX/ DATA-PHONE Interconnection Circuit (Trunk Side) Schematic
- SD-73060-01 — Data Set 108D-L1 Schematic

**4. PRODUCT**

**TABLE OF AUTHORIZED ORDERABLE CODE NUMBERS**

APPARATUS	RATING
Data Set 108D-L1	AT&TCo Std
Data Set 109D-L1	AT&TCo Std
Data Set 109E-L1	AT&TCo Std
AR72 Circuit Pack	AT&TCo Std
AR73 Circuit Pack	AT&TCo Std
AR74 Circuit Pack	AT&TCo Std
28A1 Data Mounting	AT&TCo Std
209A Adapter	AT&TCo Std

**5. GENERAL NOTES**

- 5.01** When ordering apparatus, show full code.  
Example: Data Set 108D-L1  
AR72 Circuit Pack

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