DATA AUXILIARY SET 804A-TYPE

REFERENCE GUIDE

Data Auxiliary Set 804A3

1. GENERAL

1.01 Data auxiliary set (DAS) 804A-type is used to provide control functions and a subscriber telephone set for data sets not having integrated control features.

1.02 This section is reissued to add information on options U, ZK, ZL, and ZM to Table D, and to provide information on DAS 804A6 series 6 and 804A8 series 6.

1.03 DAS 804A-type is a common battery, illuminated-key, 6-button telephone set and control unit for use with DATA-PHONE® data sets in switched network or private line service.

1.04 DAS 804A1 and 804A2 are equipped with a rotary dial; DAS 804A3 and 804A4 are equipped with a TOUCH-TONE® dial. DAS 804A1, 804A2, 804A3, and 804A4 have been rated Manufacture

Discontinued (MD), and are superseded by the 804A5, 804A6, 804A7, and 804A8, respectively.

1.05 DAS 804A5, 804A6, 804A7, and 804A8 are equipped with a 3A2 data unit to provide operation with electronic central offices having long ring trip intervals and to provide greater ring detector sensitivity for operating on long Uniguage loops with standard signaling.

1.06 These auxiliary sets are self-contained for 2-wire service. In 4-wire service, external key telephone units (KTUs) are generally required for data switching.

1.07 DAS 804A5 and 804A7 are used in 2-wire only or 4-wire only service (no switching). DAS 804A6 and 804A8 provide switching between private line and DATA-PHONE services.

1.08 ▶DAS 804A6 series 6 provides features identical to those provided by all previous series of DAS 804A5 and 804A6. DAS 804A8 series 6 provides features identical to those provided by all previous series of DAS 804A7 and 804A8. In DAS 804A6 and A8 series 6, the 3A2 data unit has been replaced with a circuit pack and a terminal board on which options are strapped. In addition, the D50R mounting cord has been replaced by a 50-pin connector and an M50G mounting cord which provides the same interface as the D50R mounting cord. These sets are capable of providing 2-wire only or 4-wire only or 4-wire switched service on an option basis.◀

2. PHYSICAL AND ELECTRICAL CHARACTERISTICS

2.01 *All power requirements are supplied by the associated data set.*

2.02 These sets are supplied in a 2-tone gray finish and measure 8-3/4 inches wide, 8-3/4 inches deep, and 4-1/2 inches high overall, and weigh about 6 pounds.

3. OPERATION

3.01 The six keys provided and their functions are listed in Table A.

3.02 Operating procedures for DAS 804A-type vary with the service application. For more detailed information, refer to the practices covering the specific data set.

4. SERVICE ORDER INFORMATION

4.01 ▶Service orders for data services should describe the desired service by USOC (Uniform Service Order Code). Service orders *should not* specify data set codes. The *encoding* procedure to determine the appropriate USOC is described in Section 590-000-100. An explanation of features and options common to most data sets is given in Section 590-000-101. A rapid cross reference between USOCs, data sets, and reference guides is presented in Section 590-000-102. Intercity Service Manual (ISM) Section 87 gives customer billing nomenclature, shows tariff listings for data services, and provides general reference information.

4.02 The USOC *decoding* procedures are described in Section 590-000-100. Engineering or Plant Department personnel responsible for selecting data sets are not compelled to use any particular data set codes specified or suggested on the service order. To achieve maximum reuse of data set apparatus, the oldest apparatus that will perform the service as described by USOC should be utilized first.◀

4.03 Service offerings and customer options are outlined in Tables B and C, respectively. The ITEM column in Table C provides a reference to descriptive information contained in Section 590-000-101.

4.04 Telephone Company engineering options are listed in Table D.

5. SUBSTITUTE DATA AUXILIARY SETS

5.01 Data auxiliary sets listed in Table E may be substituted to supply the services previously described in this section. Customer and Telco options do not necessarily apply to the substituted auxiliary sets.

6. REFERENCES

6.01 The following references provide additional information on DAS 804A-type and associated equipment:

(a) PEL 7287, 7288, 7512

(b) BSP 598-030-100

(c) SD- and CD-1D041-01
     SD- and CD-1D061-01.

TABLE A

KEY FUNCTION

KEY NUMBER (left to right)	KEY DESIGNATION		FUNCTION
	804A1 804A3 804A5 804A7	804A2 804A4 804A6 804A8	
1	Dial Tone	— —	Nonlocking key used to manually originate a call on a ground-start line when ACU (automatic calling unit) requires ground start operation.
	— —	AUX*	Nonlocking key used to operate relays in external equipment when provided.
2	DD1	DD1*	Additional nonlocking keys used to operate relays in external equipment when provided.
3	DD2	DD2*	
	AUTO	AUTO	Locking key used to provide automatic answer of incoming data calls.
4	TEST	TEST	Nonlocking key used to place data set in test mode.
5	TALK	TALK	Locking key used to connect telephone set to data line for talking.
6	DATA	DATA	Nonlocking key used to shift from talk to data mode.

* When both DD1 and DD2 keys are used to transfer from 2- or 4-wire private lines to 2-wire DDD backup lines, the AUX key is used to hold the first DDD line until the second line is picked up.

TABLE B

SERVICE OFFERINGS

CURRENT STANDARD MODELS

MODEL	FEATURE	USOC
804A5	Rotary dial DAS providing control function keys and telephone handset for nonintegrated data sets. For 2-wire only or 4-wire only service.	(Note)
804A6	Rotary dial DAS providing control function keys and telephone handset for nonintegrated data sets. Equipped for switching from private line to DATA-PHONE service.	
804A7	TOUCH-TONE dial DAS providing control function keys and telephone handset for nonintegrated data sets. For 2-wire only or 4-wire only service.	
804A8	TOUCH-TONE dial DAS providing function keys and telephone handset for nonintegrated data sets. Equipped for switching from private line to DATA-PHONE service.	

Note: No USOC codes have been assigned to DAS 804A-type . These sets provide voice capability and automatic answer for use with certain data sets. USOC information is included in the code for the basic data set.

TABLE C

CUSTOMER OPTIONS

DECISION	OPTION	DESIGNATION	ITEM
A	Auto. answer key-controlled Auto. answer permanently wired	E or B,G B	B3
B	With automatic calling unit Without automatic calling unit	T Remove T	B1

TABLE D

TELCO ENGINEERING OPTIONS

OPTION	DESIGNATION	ITEM
Permits operation of DASs 804A5, 804A6, 804A7, and 804A8 with data set having ±12 volt power supply.	A	
Connects TALK lamp to T relay for data set 402D-type.	F	
Balanced pair to data set. Single signal lead to data set; ground common.	H (Note) K (Note)	
2-wire only service ⎫ 4-wire only service ⎭ (DASs 804A5 and 804A7 only). 4-wire relay (switched 4-wire) (DAS 804A6 and 804A8 only).	J M U	
Ring detector connected to ring R and ring T on 4-wire lines Ring detector connected to 2-wire switched network lines	N Q	
Ground start dial tone key — required for ACU operation	T	B1
600-ohm terminal impedance 900-ohm terminal impedance	V W	C1

Answer-back tone level   −3 dBm
    −7 dBm
    −12 dBm
	Z
	Y
	X
		C4

Permits operation of DAS 804A5, 804A6, 804A7, and 804A8 with data sets having an 18-volt power supply.	ZA	
Switchhook contact (not compatible with option A)	ZK	
Data set 203-type compatibility IN (must use option ZA in conjunction) Data set 203-type compatibility OUT	ZL ZM	

Note: Determined by type of data set used.

◆TABLE E◆

SUBSTITUTE DATA AUXILIARY SETS

CURRENT STANDARD	SUBSTITUTE
804A5	804A1 (Notes 1 and 2)
804A6	804A2 (Notes 1 and 2)
804A7	804A3 (Notes 1 and 2)
804A8	804A4 (Notes 1 and 2)
804A6 Series 6 (Note 3)	804A5 and A6
804A8 Series 6 (Note 3)	804A7 and A8

Note 1: These sets have 3A1 data units and are not suitable for use with ESS offices having long ring trip intervals or on long Unigauge loops.

Note 2: Apparatus option ZF (answer-back power level) may not be incorporated in these sets. Data auxiliary sets 804A1 and 804A2 which have apparatus option ZF applied will be identified on the nameplate as series 3 or higher. DAS 804A3 and 804A4 which have apparatus option ZF applied will be identified on the nameplate as series 2 or higher. Earlier models have answer-back power level options of -3, -6, and -9 dBm and may require external padding to meet the -12 dBm signal level requirement at the serving central office.

Note 3: Option J, M, or U must be specified.