

DATA AUXILIARY SET 804K-TYPE IDENTIFICATION

1. GENERAL

1.01 This section provides a physical and functional description of Data Auxiliary Set 804K-type. It describes the general application of the data auxiliary set and provides a list of references for additional information on the data auxiliary set and associated equipment.

1.02 Data Auxiliary Set 804K-type exists as Data Auxiliary Set 804K1 or 804K2. The only difference between the two sets is that the 804K1 contains a rotary dial (35A3A) and the 804K2 contains a TOUCH-TONE® dial (9C58).

1.03 For more information on the Data Auxiliary set refer to SD and CD-1D109-01.

2. PHYSICAL DESCRIPTION

2.01 Data Auxiliary Set 804K-type is a panel type auxiliary set which contains a telephone handset on a cord reel, a 4010D telephone network, a dial and a field of 48 keys with associated status indicating lamps.

2.02 Four cords (two M50G—one 6 feet and one 18 feet and two M50F—one 6 feet and one 18 feet), are required for connecting the data auxiliary set to two 1B2 Data Mountings. The shorter cord is for interconnecting the DAS to the 1B2 Data Mounting at the front of the cabinet. The two longer cords are for interconnecting the DAS to a 1B2 Data Mounting at the rear of the cabinet. If a single 1B2 Data Mounting is used in conjunction with the auxiliary set only one of each of these cords are needed for the mounting. The auxiliary set weighs 25 pounds. Dimensions of the auxiliary set are shown in Fig. 1 and 2. Fig. 2 illustrates the rear of Data Auxiliary set 804K. The connectors for interconnecting the DAS and 1B2 Data mounting are located under the covers marked 1B, 2B and 1A, 2A.

2.03 Data Auxiliary Set 804K contains 635-type keys which contain indicating lamps. Four

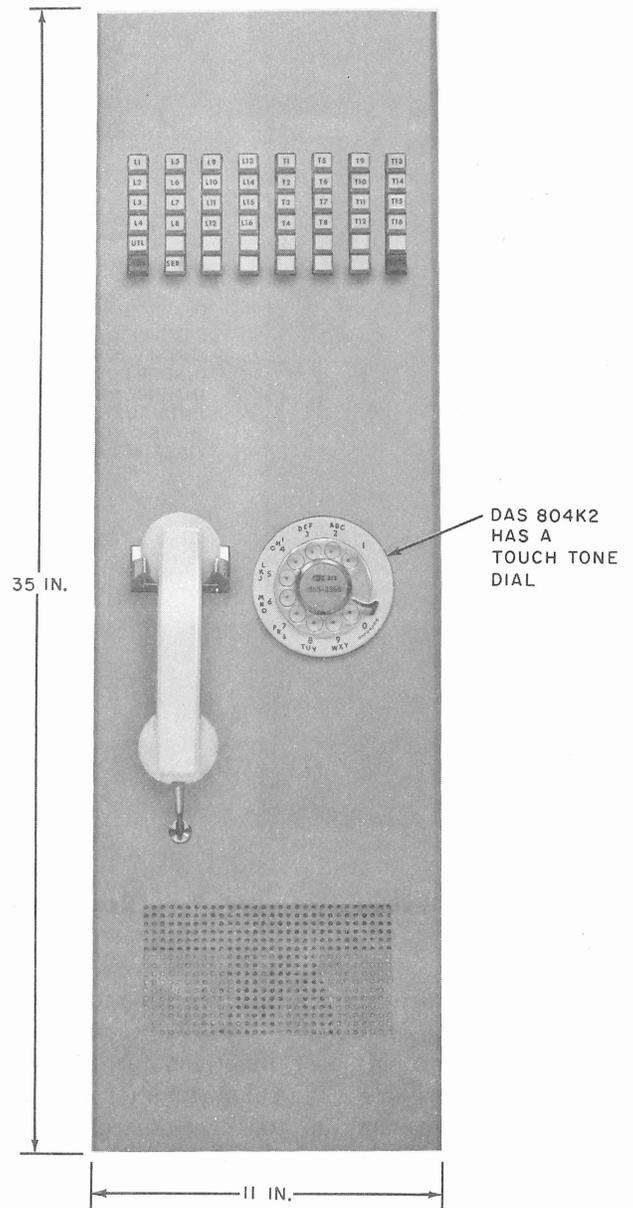


Fig. 1—Data Auxiliary Set 804K1 Front View

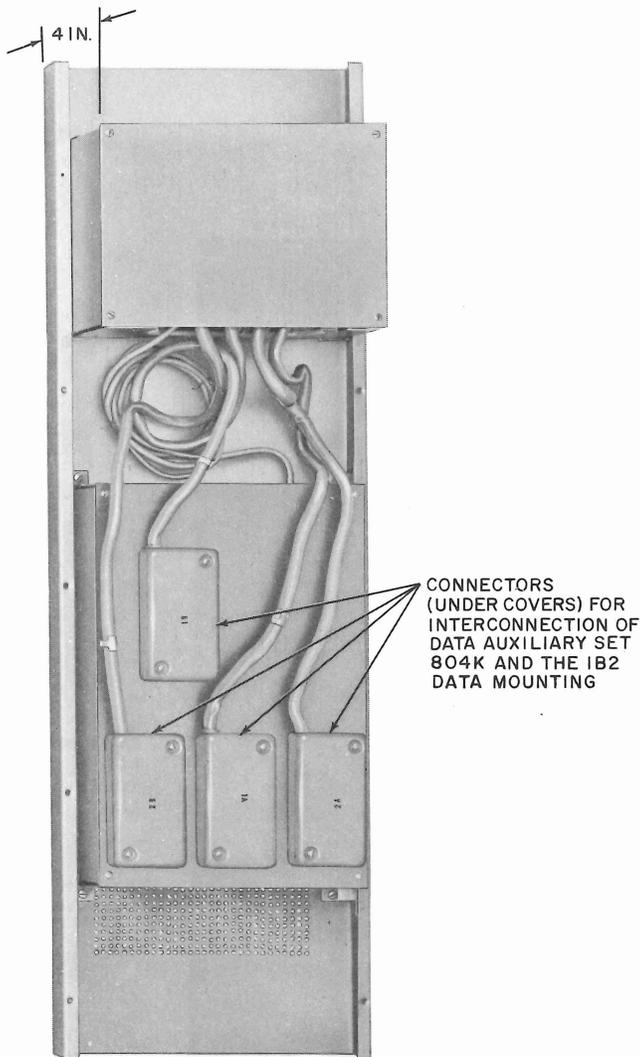


Fig. 2—Data Auxiliary Set 804K Type Rear View

of these keys provide line control functions for a maximum of 16 data sets. Another complement of four keys provide test functions for the same data sets. There are also pushbuttons for a service line, utility line, and up to three spare lines as required by the station. In addition buttons are provided for the hold and test release functions.

Note: The key field of Data Set 804K-type will always be supplied with a full complement of key designation even though the station may not have the complete complement of receivers.

2.04 Fig. 3 illustrates how the key field will be designated when received. If a data station

utilizes less than the full complement of receivers only the keys and lamps for that number of sets will be utilized.

2.05 The 16 line lamps show the status of the data sets with which they are associated. These lamps are under control of associated data sets and when the data sets are in the data mode these lamps are lighted continuously. Indication to an attendant to talk on a data line is exhibited by a flashing LINE lamp. The call on a data line can be placed into a "hold" condition which is indicated by a winking LINE and HOLD lamp.

2.06 The T1 through T16 lamps show the test mode status of the data sets. When one of these lamps is lighted continuously, it is an indication that the data set is in the test mode and has been transferred from the data line to the service line. A wink signal on one of these lamps indicates that the data set has been released from the test mode but is still transferred to the service line.

2.07 The spare line, utility line, and spare line buttons, and their lamps are associated with the KTUs in the 1B2 Data Mounting and function under their control. The lamps are lighted continuously in the talk condition, flash during the ringing condition, and wink during the holding condition.

2.08 The HOLD key places any of the data lines in the hold condition and winks when a data line is put in the hold condition. The HOLD key may also place the service, utility and spare lines (when provided) in the hold condition, and in this condition the LINE lamp winks, but the HOLD lamp does not.

3. FUNCTIONAL DESCRIPTION

GENERAL

3.01 Data Auxiliary Set 804K type may be described functionally in any one of three modes of operation (line intercept, test mode, telephone operation). All line keys, the SERVICE LINE key, the UTILITY LINE key and SPARE LINE keys are functionally alike in the talk mode.

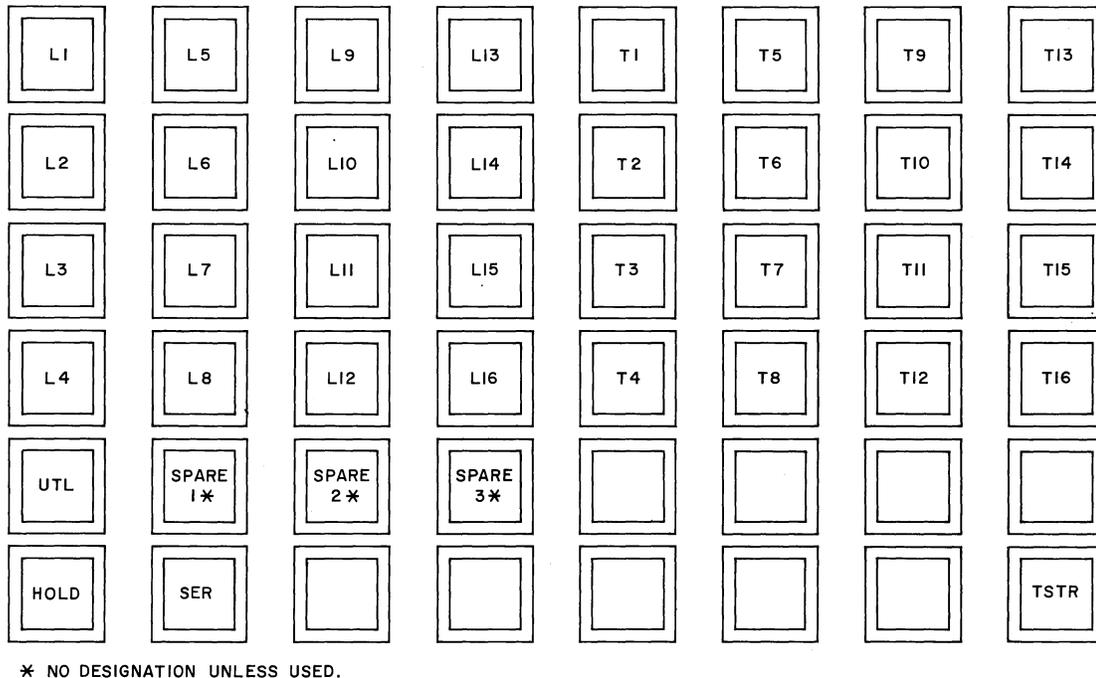


Fig. 3—Data Auxiliary Set 804K Key Designations

DATA MODE

3.02 This is the most common operating mode of the data set. Fig. 4 illustrated by the heavy weight lines that data entering on data line 1 is connected directly to Data Set 403D-type through T and R terminals of the 1B2 Data mounting. The data mode is indicated by the heavy weight line to the LINE lamp in Data Auxiliary Set 804K.

INTERCEPT FOR TALK

3.03 The Data Set 403E-type must contain either the E (attendant control) or B (machine control) option to provide the line intercept function. In cases where the business machine provides control the LINE lamp must flash before intercept may take place this is not necessary if the attendant control is provided.

3.04 The attendant at the receiving station, upon observing the flashing LINE lamp, removes the handset from the cradle of Data Auxiliary Set 804K-type and depresses the flashing line button (Fig. 4). This action causes the LINE lamp to go steady and causes the K7 relay to switch the data line from the data set to the data auxiliary set

(See heavy weight dash lines Fig. 4). If attendant control is provided it is not necessary for the LINE lamp to be flashing. Depressing the LINE key and removing the handset from the switch-hook cradle at any time will produce intercept for talk.

TEST MODE

3.05 Each data set is placed in the test mode and transferred to the service line by depressing its assigned key on Data Auxiliary Set 804K-type.

Note: since all 16 test keys function in a similar manner, T1 is chosen for this description.

3.06 The handset must be off-hook and the Service Line (SER) key must be depressed before momentarily depressing the nonlocking T1 key. This activates the test circuitry in the data set and places the data set in the test mode and transfers the input of the data set to the T and R terminals of the service line. (See heavy weight line Fig. 5.)

Note: No more than one data set should be tested at a time.

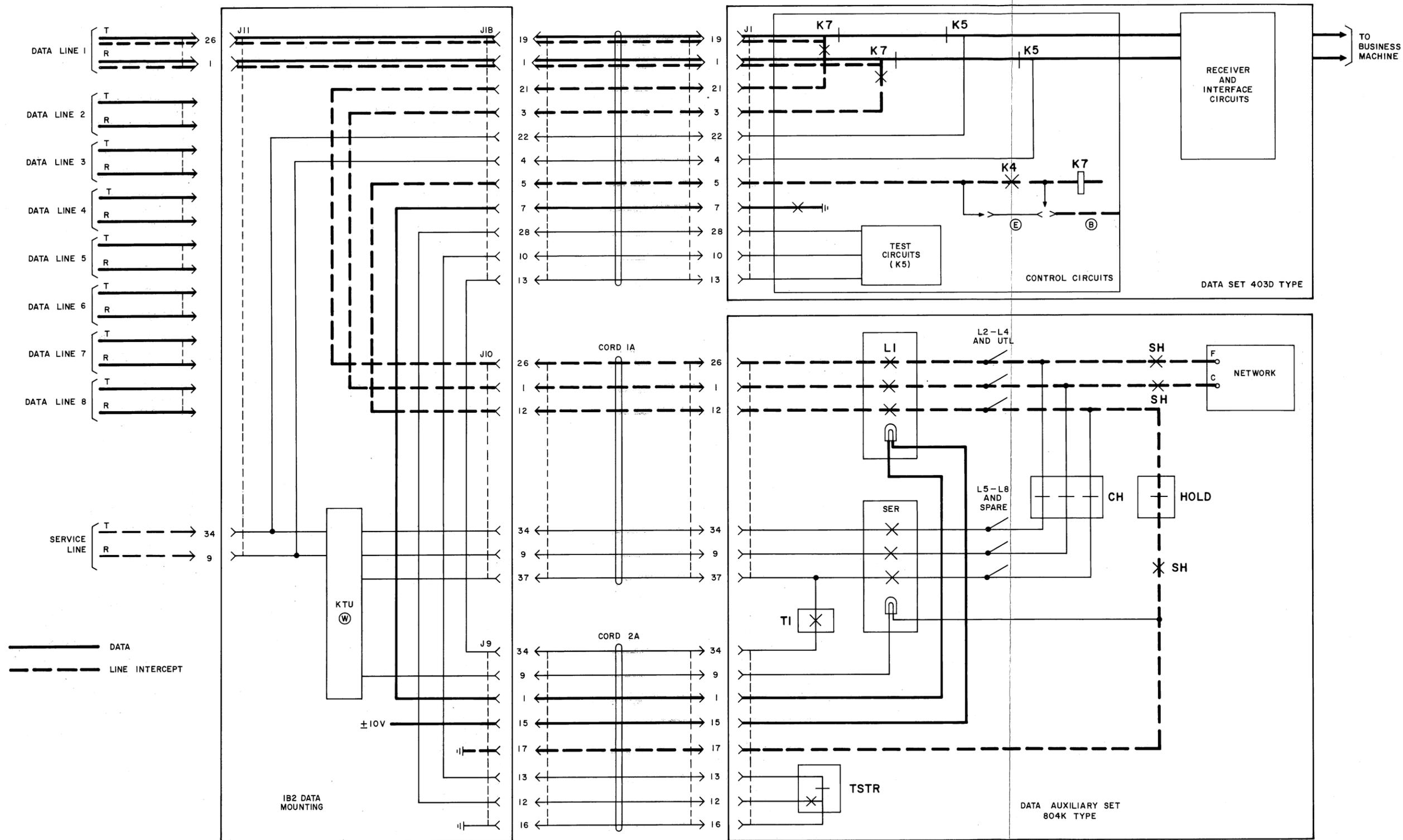


Fig. 4—Data Auxiliary Set 804K Type Functional Block Diagram of Data Line and Line Intercept

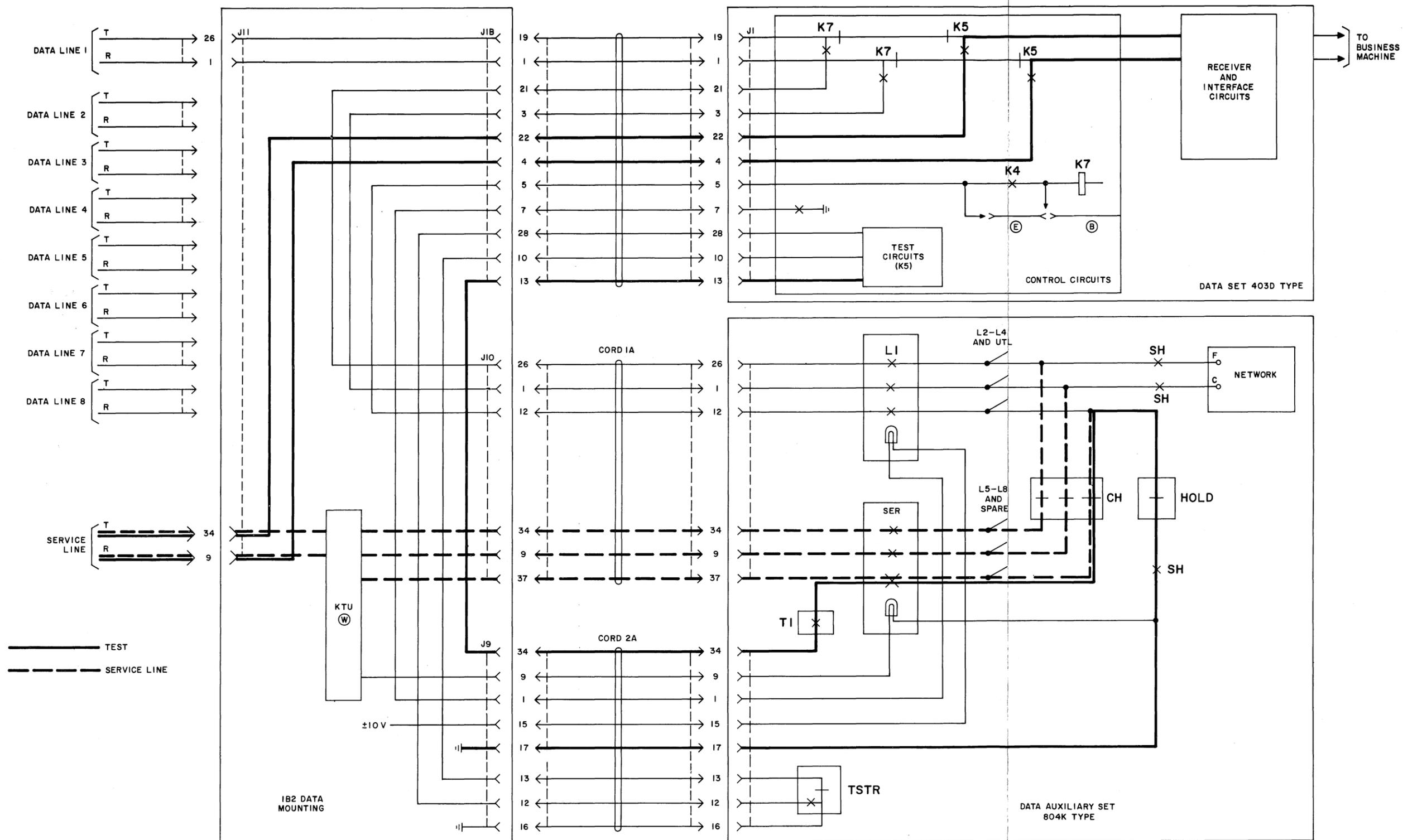


Fig. 5—Data Auxiliary Set 804K Type Functional Block Diagram of Test and Service Line

TEST RELEASE

3.07 The TSTR key is used for releasing the data set from the test mode and from the service line. While the data set is in the test mode, ground appears on terminal 13 of cable 2A. Momentarily depressing the TSTR key removes the ground on terminal 13 and grounds terminal 12 of cable 2A. This action removes the data set from the service line and releases the data set from the test mode.

HOLD FUNCTION

3.08 The heavy weight dashed lines Fig. 5 illustrates functionally the talk function of the service line.

3.09 To utilize the service line in the talk function the attendant must lift the handset from the cradle and depress the SER key which connects ground through the switchhook, the SER key and to the KTU on the 1B2 Data Unit to provide "A" lead control.

3.10 The chaining switch is closed and the SER line tip and ring are connected through the KTU of the 1B2 Data Mounting through the SER key, through the closed switchhook contact to terminals F and C of the network. At this point the data set may be used as a telephone.

Note: Hold can only be activated from the talk condition for any line.

3.11 A data line that is in the intercept talk condition, and all voice lines (service, utility, etc) may be placed in the hold condition by activating the HOLD key. Momentarily depressing the HOLD key opens the ground path without opening the path between tip and ring of the network, thus placing the line on hold. Release of the HOLD key releases the depressed LINE key. When data sets are placed on "hold" the lamp under the HOLD key "winks".

4. REFERENCES

4.01 For more information on Data Auxiliary Set 804K-type and associated equipment refer to the documents listed below.

- Data Set 403D-type Multiple Data Set Station Identification and Operation (594-025-101)
- Data Set 403D-type Multiple Receiver Station Installation and Connections (594-025-201)
- Data Set 403D-type Multiple Data Set Station Maintenance (594-025-301)
- Data Set 403D-type Multiple Data Set Station Test Procedures (594-025-501)