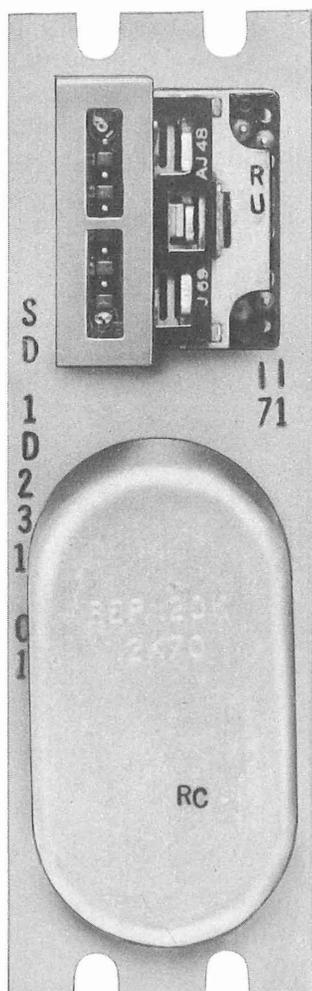


39A1 DATA UNIT IDENTIFICATION

1. GENERAL

1.01 This section covers the identification and operation of the 39A1 Data Unit. This unit, shown in Fig. 1, is initially for use as part of Data Auxiliary Set (DAS) 828C.



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Fig. 1—39A1 Data Unit

1.02 The functions of the 39A1 Data Unit are as follows:

- To provide a line-powered ring detector
- To provide a repeat coil to match the 600-ohm station line impedance to the 900-ohm line impedance.

2. PHYSICAL DESCRIPTION

2.01 This unit provides a repeat coil and ring detector circuit as shown in SD-1D231-01.

2.02 Mounting screws are not furnished since it is intended that two 39A1 Data Units will be assembled on hanger bars as a repeat coil and ring-up relay assembly for the 828C.

2.03 The 39A1 Data Unit consists of the following apparatus assembled on a 200-type key telephone unit and wired to a terminal panel:

- 1—542F capacitor
- 1—400E diode
- 1—KS-13490-L3A 68-ohm resistor
- 1—120W repeat coil (initial production uses 120K)
- 1—8A thermistor
- 1—317A varistor
- 1—AJ48 relay

2.04 The terminal panel consists of a group of 20 terminals arranged in 2 rows of 10 each, numbered 1 to 20.

2.05 The relay and repeat coil are mounted on the face of the 39A1 Data Unit.

2.06 The 39A1 Data Unit measures 2-5/32 inches wide, 6-15/16 inches high, and 6-27/32 inches deep.

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3. FUNCTIONAL DESCRIPTION

3.01 The repeat coil is used to provide an impedance match between a 600-ohm data set and a 900-ohm telephone line. The central office line current passes through the coil winding without affecting the impedance of the repeat coil.

3.02 The ringing detector circuit consists of the resistor, capacitor, varistor, thermistor, and diode. The ringing signal is rectified and supplied to the winding of the relay. This causes the relay to operate during the ringing period.

4. REFERENCES

4.01 The schematic drawing and circuit description covering the 39A1 Data Unit are SD- and CD-1D231-01.

4.02 More descriptive information on the 39A1 Data Unit associated with DAS 828C is covered in the following Bell System Practices:

SECTION	TITLE
598-080-101	Data Auxiliary Set 828C—Data Service Unit—Description and Operation
598-080-181	Data Auxiliary Set 828C—Data Service Unit—4-Wire Voiceband Data Transmission—Summarizing Specifications—Data Systems