

58A CONTROL UNIT IDENTIFICATION

1. INTRODUCTION

1.01 This section identifies the 58A control unit.

1.02 This section is reissued to remove the line holding feature and to renumber the section.

1.03 Installation and connections are shown in sections covering data sets using this control unit.

2. GENERAL

2.01 The 58A control unit is designed for use in various types of data sets that receive calls over the switched network.

2.02 Feature provided are:

- Automatic answer of data line
- Answer-back signal and timing

- Transfer from talk to data mode
- Transfer from data to talk mode
- Match data set impedance to a 600- or 900-ohm line
- Protection of data set from electrical disturbances on *telephone line*
- Disconnect line at end of data transmission.

3. DESCRIPTION

3.01 The control unit consists of an answer-back frequency generator (2025 cps), control relays, and associated circuit components. Schematic information may be found in CD- and SD-1D032-01.

3.02 All components are arranged on two printed wiring boards which are mounted on a metal framework (Fig. 1).

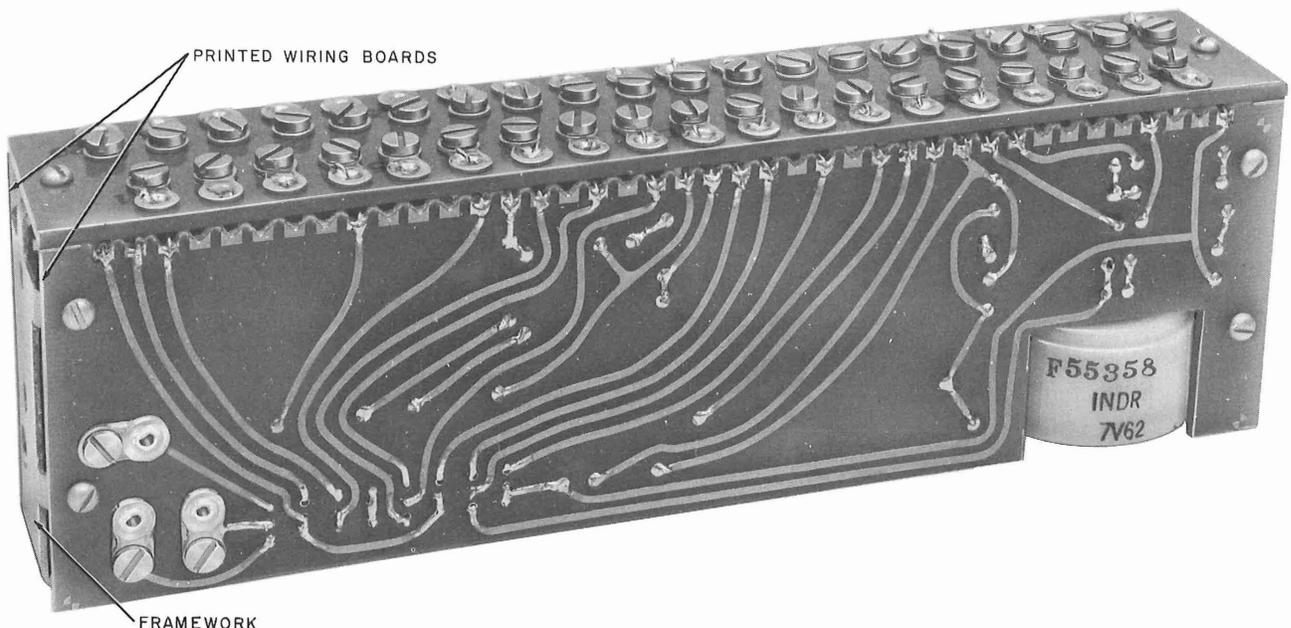


Fig. 1 — 58A Control Unit

SECTION 590-100-100

3.03 The unit is designed for mounting inside an associated data set. Power for the unit is received from the data set.

3.04 A terminal strip, equipped with screw terminals, is provided for connections to data set wiring. Three additional terminals are located on one of the printed boards.

3.05 The output level of the answer-back frequency may be adjusted to meet requirements of each installation. Method of making this adjustment will be specified in the section covering connections for the data set involved.

3.06 Operation of relays and use of relay contacts are determined by the associated data set and business machine.

3.07 When data set and control unit are arranged for automatic answer, do not connect additional ringing bridges on data line.

3.08 Three limiting varistors prevent data set damage from lightning or other electrical disturbances.

3.09 Field repair of control unit *should not be attempted*. If data set tests indicate trouble in control unit, replace the unit.