

AUTOMATIC TELEPHONE ANSWERING AND RECORDING

1AA TELEPHONE ANSWERING SET

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1. INTRODUCTION

1.01 This addendum is issued to describe the more important changes which have been made in changing new production from the 1A to the 1AA telephone answering set. The 1AA replaces the 1A which has been rated "Manufacture Discontinued."

1.02 The two machines are very similar in appearance and operating characteristics, and in most cases they may be used interchangeably.

2. CHANGES INTRODUCED

2.01 The most important changes introduced in changing new production from the 1A to the 1AA telephone answering set are the following:

- (a) A new type of synthetic rubber, called Hypalon, has replaced wax-impregnated neoprene bands on both the announcement and incoming message recording drums. The new bands do not require wax as a lubricant nor are they affected appreciably with variations in temperature over the range for which operation is intended. This, along with other changes which have been introduced, will enable the machine to operate satisfactorily between about 10° and 120° F. The use of Hypalon also results in an improved signal-to-noise ratio.
- (b) Rubberized fabric belts have been used for both stages of the drive belt system in place of the nylon belts used in earlier production of the 1A set. The new belts have a higher coefficient of friction and are dimensionally more

stable with changes in temperature and humidity. Also, the first stage of the drive system employs a screw adjustment on the stationary idler, and a spring-loaded idler has replaced the stationary adjustable idler in the second stage. These changes will make the drive belts less likely to slip.

(c) Leads have been brought out to the terminal strip so that a high-impedance bridged connection can be provided in conjunction with a modified 531C subscriber's set. This has made a change in the terminal strip necessary, but normal installation connections are essentially the same as those used for the 1A telephone answering set, the extra terminals being provided for the high-impedance bridged connection, as described in appropriate sections of the C series of practices. In order to provide more space for telephone connections and cords, the terminal strip has been recessed and separate entrance holes have been provided for the two telephone cords.

(d) Facilities for the use of an external recorder have been omitted.

(e) The protective circuit for the erase coils will have thermistors included so it will not operate too quickly. This change will also insure operation over wider temperature and voltage ranges.

(f) The fusing circuit has been revised so as to provide better protection for the motor and rectifier circuits by using a 1-ampere Littelfuse No. 312001 or equivalent.

(g) The starting torque of the motor has been increased.

(h) A locking device has been provided which is designed to keep the magnetic heads secure during shipment.