

## 500 TYPE TELEPHONE SETS

### 1. GENERAL

1.01 This Supplementary Addendum, which supplements Section C32.535, issue 2 and Addendum, issue C is issued to provide temporary information on several new 500 series telephone sets which are available. This Supplementary Addendum should be retained with subsequent issues of the section until notice is given covering its cancellation or reissue.

1.02 Paragraphs 1.05, 2.19, 2.20, 2.21 and 2.22 and Figures 3, 4 and 5 are added.

1.05 Several types of low demand 500 series sets have been made available, i.e.: 500E-3 and 500F-3, 500L-3 and 500M-3, 502A-3 and 502B-3 and 511A-3 and 511B-3. A brief description of each type is given below and circuits of three of the new sets are reproduced.

### 2. DESCRIPTION AND USE

2.19 The 500E-3 (manual) and 500F-3 (dial) sets will replace 302AA and AC sets respectively. These sets are equipped with a left-hand plunger switch to minimize interference, when the hand set is removed at one of the stations on the line when the line is already in use. When the hand set is first removed a low loss a-c bridge, including the receiver and dial filter, is placed across the line. If the line is not already in use, the subscriber pulls up the plunger switch which closes the talking and dialing circuits. Since demands for 302AA (manual) telephone sets have been at levels which do not appear sufficient to warrant the manufacture of comparable 500E-3 (manual) sets,

500E-3 sets will be available only by conversion.

Use of this type of set is limited to Public Emergency Reporting Service Stations.

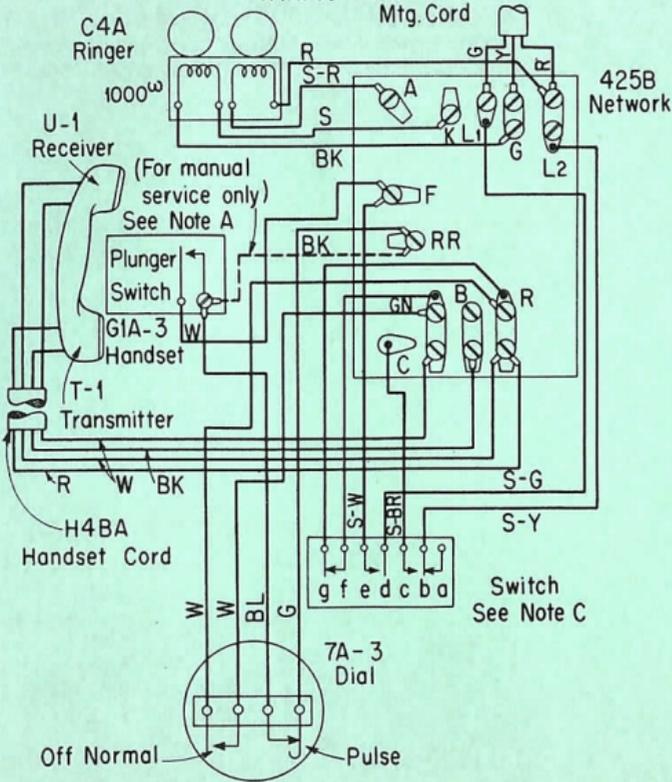
2.20 The 500L-3 (manual) and 500M-3 (dial) telephone sets do not replace any apparatus. These sets are similar to the 500C-3 and 500D-3 telephone sets except for an added terminal strip and a different switchhook circuit arrangement. These changes provide for separate talking and ringing circuits for use with 1A Telephone Answering Sets, 2B Key Telephone Systems and 507A and 507B P.B.X. attendant stations. They also permit the use of additional ringing bridges in specific instances when needed where a local ringing source is available. The 500L-3 (manual) set will be obtainable only by conversion.

2.21 The 502A-3 (manual) and 502B-3 (dial) telephone sets are similar in appearance to the 500C-3 and 500D-3 telephone sets except that they have been provided with the exclusion feature which permits the user to cut off an extension station to assure added privacy. This is brought about by a (left-hand) switchhook plunger. These sets are for use in 1A and 1A1 Key Telephone Systems where exclusion service is desired and also at attendants' positions. They will replace 402A and 402C telephone sets. Connection and circuit schematic information concerning these sets will be covered in SD-69209-01.

2.22 The 511A-3 (manual) and 511B-3 (dial) telephone sets are similar to the 510-type set, except that in addition to the single combination turn and pushbutton key, which permits the pickup of two lines plus the signaling feature, they are also provided with the switchhook plunger exclusion feature. They are intended for use in 1A Key Telephone Systems and will replace 410CA, CC, 411AA, AC, CA and CC Telephone sets. Connection and circuit schematic information for these telephone sets has been covered in SD-69208-01. Since the demand for manual sets of the

402, 410 and 411 types has not appeared to be of such proportions as to justify the manufacture of equivalent types in the 500 series and also because conversion to manual types can readily be made, both in the field and shop, the 502A-3 and 511A-3 telephone sets will be available only through conversion.

500E-3 & 500F-3 TELEPHONE SET  
WIRING DIAGRAM



Notes:

- A. 500E-3 (For Manual Service) same as 500F-3 except replace dial with apparatus blank and strap terminal on plunger switch to (RR) terminal on network with black lead as shown.
- B. When the handset is removed, contact, *gf*, breaks last.

CIRCUIT SCHEMATIC FOR  
500F-3 TELEPHONE SET

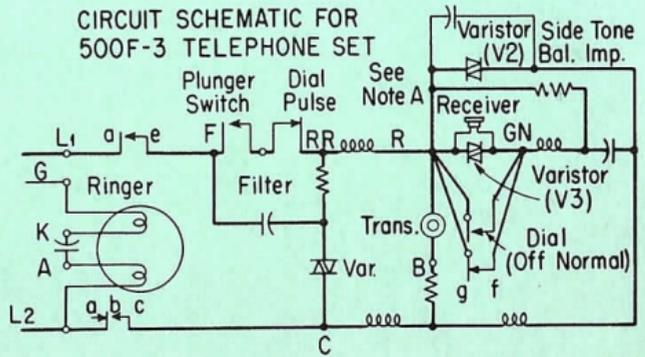
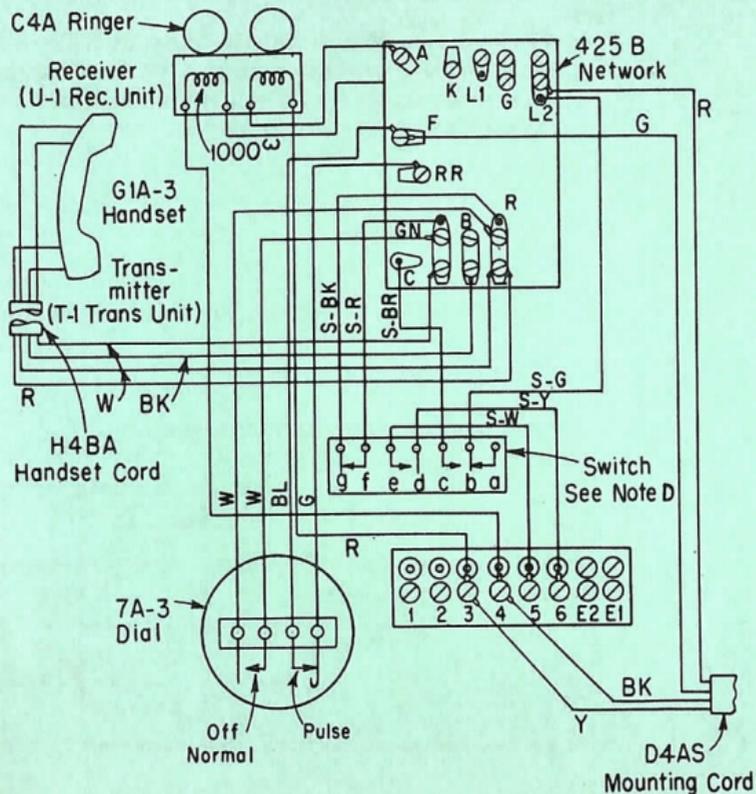


Figure 3

# 500 M-3 TELEPHONE SET

WIRING DIAGRAM FOR 500 M-3 TELEPHONE SET



Notes:

- A. For manual service: (500 L-3) same as 500 M-3 except replace dial with apparatus blank and transfer green lead from (F) to (RR) terminal on network.
- B. When ringer condenser is required in series with ringer, transfer slate ringer lead to (K) terminal on network.
- C. Contact sequence:  
 Removing handset- 1. de closes before cb  
                           2. fg opens  
 Restoring handset- 1. fg closes  
                           2. cb opens before de

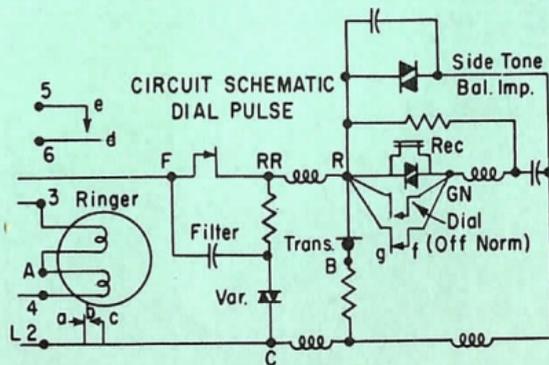
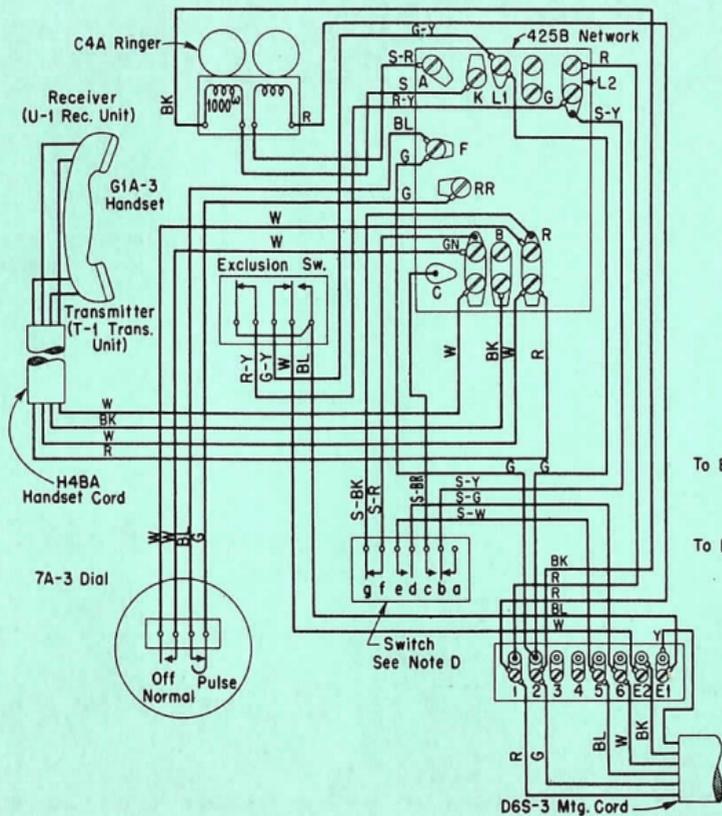


Figure 4

WIRING DIAGRAM FOR 502B-3 TELEPHONE SET



Notes:

- A. 502 A-3 (For Manual Service) Same as 502B-3 except replace dial with 95A-3 Apparatus Blank and transfer Green lead from (F) to (RR) terminal on network.
- B. To permanently silence ringer:  
Transfer Black ringer lead to (K) terminal on network.
- C. Ringer Cut-off control by customer:  
Bend stop next to detent on ringer volume control so that it completely clears the rim of the ringer frame. This provides a further position on volume control which prevents armature movement.
- D. Contact sequence:  
Removing Handset
  1. de closes before cb
  2. fg opens
 Restoring Handset
  1. fg closes
  2. cb opens before de

CIRCUIT SCHEMATIC FOR 502B-3 TELEPHONE SET

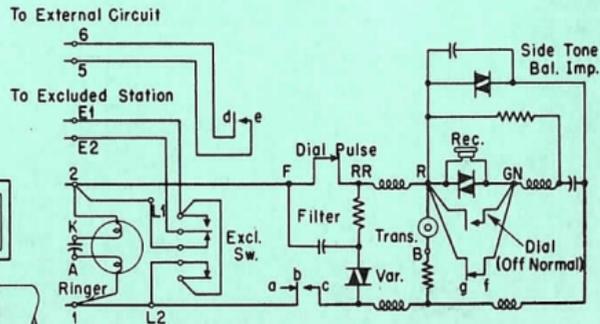


Figure 5