T-1125
ISSUE 2

STROMBERG-CARLSON

S-C 500 SERIES TELEPHONES

Installation and Maintenance

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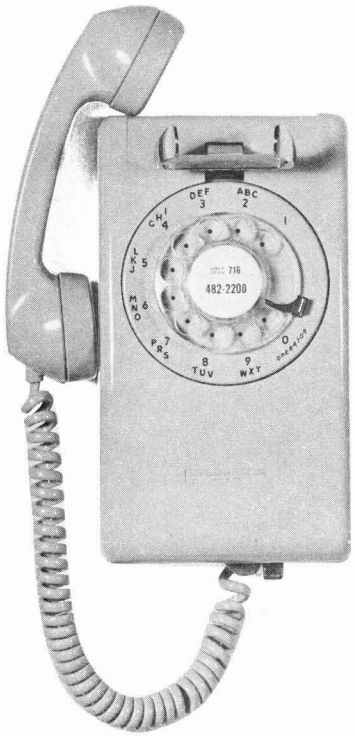
Desk Telephone



Handset at Rest

Wall Telephone

Figure 1. S-C 500 Series Desk and Wall Telephones.

SECTION I DESCRIPTION

1. GENERAL

Stromberg-Carlson 500 Series Telephones are available in desk and wall models to provide single- or 2-line service plus a variety of special service features. The S-C 500 Telephones and their component parts are electrically and mechanically interchangeable with all standard 500-type telephones. Additional holes are provided in the base of wall telephones to provide flexibility in mounting, thereby minimizing use of backboards; the telephone can be mounted directly over a conduit box.

2. SPECIAL SERVICE FEATURES

a. Lift-to-Talk.

When the lift-to-talk feature is provided, only the receiver is connected to the line when the handset is removed from the cradle. The user can then determine if the line is in use without interfering with dialing or talking by another party on the line. When the line is not in use, lifting the plunger (fig. 2 and 3) connects the dial and talk circuits to permit normal operation.

b. Private Conversation.

Operation of a switch permits temporary exclusion of other telephones on the same line, thus ensuring privacy. (When used on a party line, other parties are not excluded.) The switch is operated by lifting the plunger (fig. 2 and 3); the line is restored to normal when the handset is replaced in the cradle.

c. Line Hold.

Used with 2-line telephones to permit placing a hold on either line while the other line is being used to make or receive another call. A line is placed on hold by lifting the plunger (fig. 2 and 3); the hold is released by restoring the plunger to the off-hook position. If forgotten, the hold is released when the handset is replaced in the cradle.

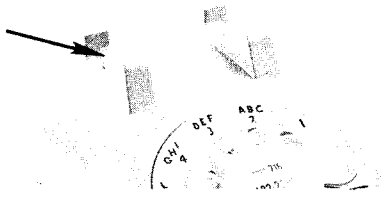


Figure 2.
Desk Telephone With Plunger for
Lift-to-Talk, Exclusion, or Hold.

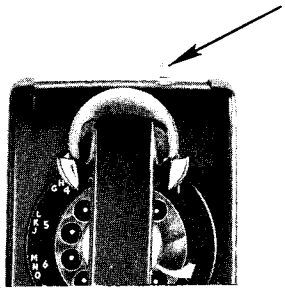


Figure 3.
Wall Telephone With Plunger for
Lift-to-Talk, Exclusion, or Hold.

d. Message Waiting.

A flashing lamp (fig. 4) on the telephone indicates to a hotel-motel guest that a message is waiting at the desk or switchboard. Calls for an absent guest are accepted by the desk clerk or PBX attendant who operates a switch, causing the lamp to flash. The message waiting feature is also useful in business establishments where the nature of the business requires people to be away from their telephone, and messages are accepted by a PBX attendant.

e. Pushbutton.

Telephones with a pushbutton (fig. 5 and 6) are used for various services such as secretarial signaling, door release, etc. A common application is to use the pushbutton for call transfer with PBX systems.

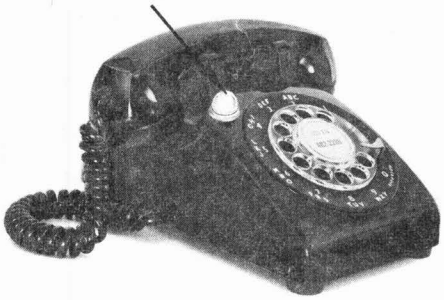


Figure 4.
Desk Telephone
With Message Waiting Lamp.

Figure 5.
Desk Telephone With Pushbutton
or Twist Key Pushbutton Combination.

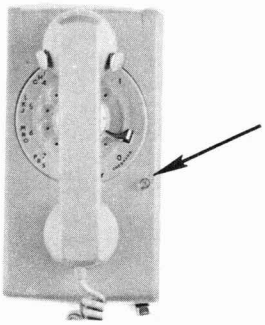


Figure 6.
Wall Telephone With Pushbutton
or Twist Key Pushbutton Combination.

3. SINGLE-LINE TELEPHONES

a. S-C 500D Desk Telephone and S-C 554B Wall Telephone.

The S-C 500D and S-C 554B Telephones are used to provide individual or party-line service with no special service features. A package assembly that can be used to adapt these telephones for A lead control or for separate talk and signal paths is available (par. 45).

b. S-C 500F Desk Telephone and S-C 554F Wall Telephone.

The S-C 500F and S-C 554F Telephones are equipped with a 2-step hookswitch to provide the lift-to-talk feature. This feature is suitable for party-line service and for installations having an extension telephone or telephones. A package assembly that can be used to adapt these telephones for A lead control or for separate talk and signal paths is available (par. 45).

c. S-C 500Y Desk Telephone and S-C 554Y Wall Telephone.

The S-C 500Y and S-C 554Y Telephones are equipped with a neon lamp to provide the message waiting feature. These telephones operate from a PABX on a 2- or 3-wire basis.

d. S-C 501D Desk Telephone and S-C 556B Wall Telephone.

The S-C 501D and S-C 556B Telephones are equipped with a 426A tube and a straight-line ringer to provide for superimposed ringing on party lines. A package assembly that can be used to adapt these telephones for A lead control or for separate talk and signal paths is available (par. 45).

e. S-C 502B Desk Telephone and S-C 552B Wall Telephone.

The S-C 502B and S-C 552B Telephones are equipped with an exclusion switch to provide for privacy of conversation.

f. S-C 508B Desk Telephone and S-C 551B Wall Telephone.

The S-C 508B and S-C 551B Telephones are equipped with a pushbutton to provide for signaling, door release, call transfer, or similar service. A package assembly that can be used to adapt these telephones for A lead control or for separate talk and signal paths is available (par. 45).

4. 2-LINE TELEPHONES

a. S-C 510B Desk Telephone and S-C 553B Wall Telephone.

The S-C 510B and S-C 553B Telephones are equipped with a combination twist key and pushbutton. The twist key is used to select line 1 or line 2, and the pushbutton is used to provide for signaling, door release, call transfer, or similar service.

b. S-C 575B Desk Telephone and S-C 550B Wall Telephone.

The S-C 575B and S-C 550B Telephones are equipped with a switch and with a combination twist key and pushbutton. The switch, which is actuated by lifting the plunger, places one of the lines on hold. The twist key is used to select line 1 or line 2. and the pushbutton is used to provide for signaling, door release, call transfer, or similar service.

5. RINGERS

Two types of gong ringers are available for use with S-C 500 Series Telephones. These are the Stromberg-Carlson USI C4A Straight-Line Ringer and the Stromberg-Carlson USI Type Frequency-Selective Ringers.

a. Straight-Line Ringer.

The straight-line ringer is a single-coil ringer with two windings that can be wired for bridged ringing, for divided ringing with 2-party identification, for divided ringing without identification, or for superimposed ringing.

b. Frequency-Selective Ringers.

The frequency-selective ringers are single-coil ringers with two windings that can be wired for bridged ringing, for divided ringing with 2-party identification, for divided ringing

with 4-party identification, or for divided ringing without identification. These ringers, which are available in the harmonic, synchromonic, and decimonic series, are listed as follows.

Harmonic			Synchromonic			Decimonic		
Freq	With Volume Control	Without Volume Control	Freq	With Volume Control	Without Volume Control	Freq	With Volume Control	Without Volume Control
16-2/3	USI 10WE	USI 10NE	16	USI 10WR	USI 10NR	20	USI 10WI	USI 10NI
25	USI 10WN	USI 10NN	30	USI 10WK	USI 10NK	30	USI 10WK	USI 10NK
33-1/3	USI 10WF	USI 10NF	42	USI 10WL	USI 10NL	40	USI 10WQ	USI 10NQ
50	USI 10WG	USI 10NG	54	USI 10WM	USI 10NM	50	USI 10WG	USI 10NG
66-2/3	USI 10WH	USI 10NH	66	USI 10WP	USI 10NP	60	USI 10WJ	USI 10NJ

6. BRIDGED RINGING

To provide for bridged ringing, the ringer is connected across the tip and ring of the line, and ringing voltage is applied across the line. Straight-line ringers wired for bridged ringing are used in providing for private-line service. Frequency-selective ringers wired for bridged ringing can be used in providing for private-line service or for providing 2-, 4-, or 5-party service with selective ringing. Coils of ringers that are wired for bridged ringing are not used in providing automatic party identification; however, networks that provide for 2-party identification and networks that provide for 4-party identification are available. Refer to paragraph 9 for information concerning party identification.

7. DIVIDED RINGING

a. General.

To provide for divided ringing, the ringer is connected from one side of the line to earth ground. For ring parties, the ringer is connected from the ring side of the line to earth ground, and for tip parties, the ringer is connected from the tip side of the line to ground. Ringing voltage is applied between the ring side of the line and ground or between the tip side of the line and ground, depending on the party being called.

b. Straight-Line Ringer.

Straight-line ringers can be wired to provide 2-party service with selective ringing or to provide 4-party service with semiselective ringing. The ringer can be used in providing for automatic party identification (par. 9) on 2-party lines but not on 4-party lines.

c. Frequency-Selective Ringer.

Frequency-selective ringers can be wired to provide party-line service with selective ringing for up to 10 parties. The ringer can be used in providing for automatic party identification (par. 9) on 2-party lines, and the ringer and an identification assembly can be used in providing for automatic party identification on 4-party lines. Automatic party identification cannot be provided on 8-party semiselective lines.

8. SUPERIMPOSED RINGING

Straight-line ringers in conjunction with cold cathode tubes can be used to provide for 4-party service with selective ringing or to provide for 8-party service with semiselective ringing. (See fig. 7.) At present, automatic party identification cannot be provided with superimposed ringing.

Two types of cold cathode tubes are available: the 426A 3-element tube and the 425A 4-element tube. The 426A 3-element tube is used unless voltage induced from adjacent power circuits is excessive. If the induced voltage exceeds 20 to 30 volts ac between the telephone line and ground, use the 425A 4-element tube.

9. AUTOMATIC PARTY IDENTIFICATION

Some central offices have the capability of determining which party on a party line is originating a call. The central office can be equipped for 2-party identification or for 4-party identification.

With 2-party identification, each telephone set at a tip-party station must be wired to provide a tip-party identification mark while the telephone sets at the ring-party station provide no marking. The 2-party identification equipment identifies the calling station by testing for the presence or absence of the identification mark.

With 4-party identification, each telephone set at a station must be wired to provide an identification mark. The mark is different for each party, and it is used in identifying the calling party as the first, second, third, or fourth party. The 4-party identification equipment identifies the calling station by testing to determine the specific mark provided at the telephone set.

For 2-party service in central offices that are equipped for 4-party identification, each telephone set at the tip-party station must be wired as the first party, and each telephone set at the ring party station must be wired as the second party.

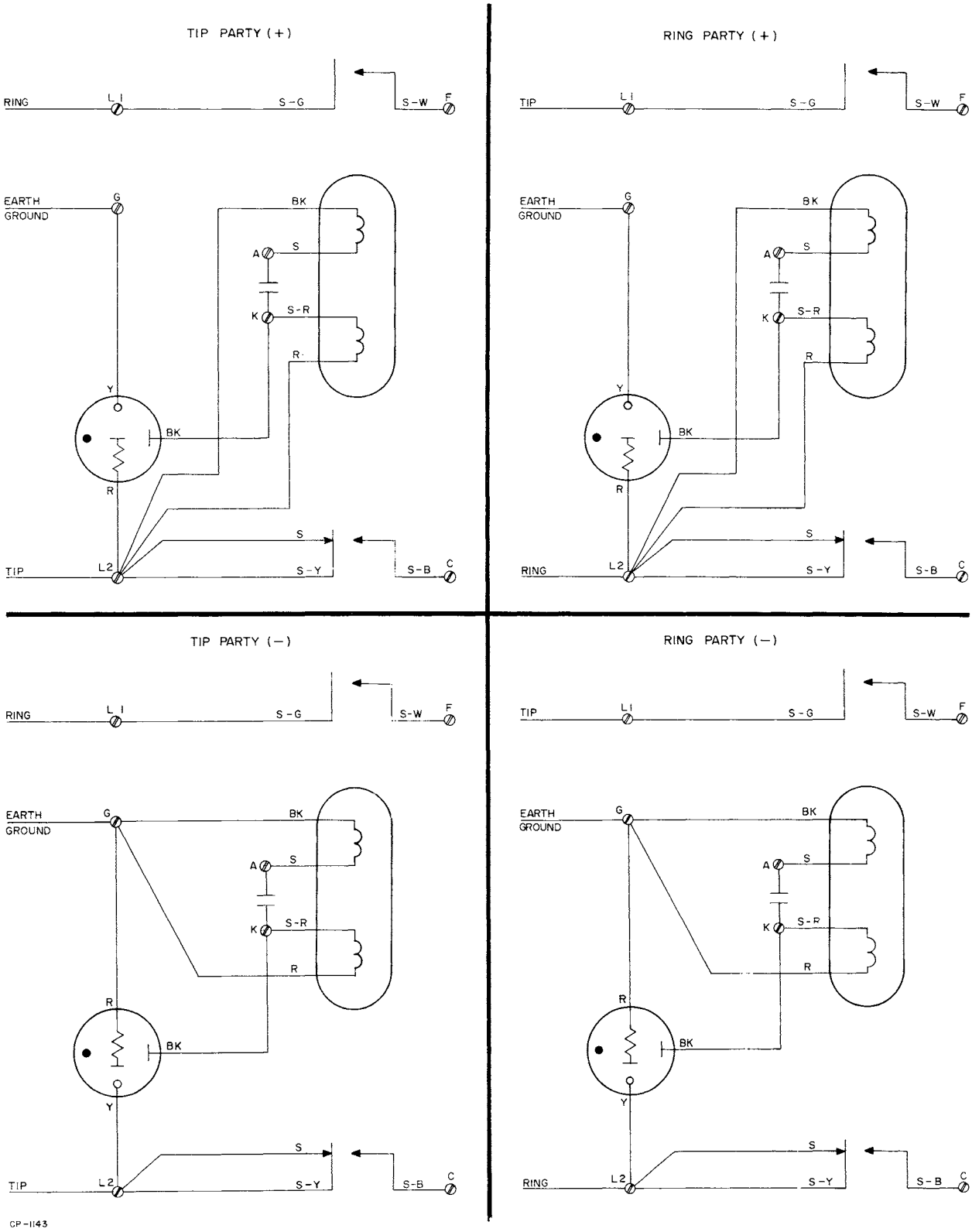


Figure 7. Superimposed Ringing, Schematic Diagram.

a. 2-Party Identification.

The 2-party identification equipment identifies the calling party of a 2-party line by testing for resistance that may or may not be connected between the tip side of the line and ground. If resistance ground (the identification mark) is detected, the calling party is identified as the tip party; if resistance ground is not detected, the calling party is identified as the ring party. One of the ringer windings or an identification assembly can be used in providing the identification mark required for tip-party identification. See paragraph (2) below.

(1) Tip-party identification using ringer coil.

Stromberg-Carlson Ringers are single-coil ringers with two windings. One winding has a resistance of 2650 ohms, and the other winding has a resistance of 1000 ohms. For 2650-ohm tip-party identification, the telephone set is wired so that the 2650-ohm winding is connected between the tip side of the line and ground when the hookswitch is in the off-hook position. (The ground also appears on the ring side of the line because the transmission loop is closed when the hookswitch is in the off-hook position.) For 1000-ohm tip-party identification, the telephone set is wired so that the 1000-ohm winding is connected between the tip side of the line and ground when the hookswitch is in the off-hook position. When the 2650-ohm winding is used, the possibility of noise being introduced into the line is reduced.

(2) Tip-party identification using identification assembly.

In some cases, tip-party identification is provided for by installing an identification assembly in the telephone set. For example, an identification assembly is required in tip-party extension telephones that are not equipped with a ringer. The identification assembly must also be installed in 500-type 2-line telephones that require tip-party identification. Use identification assembly 206012-543 for 2650-ohm identification and use identification assembly 206012-523 for 1000-ohm identification.

b. 4-Party Identification.

During the interdigital periods, the 4-party identification equipment performs a series of tests to identify the calling party of a 2- or 4-party line. The tests are made over the tip and ring of the line, and the marking wired into the telephone set determines whether the calling party on a 2-party line is identified as the tip party or the ring party, or it determines whether the calling party on a 4-party line is identified as the first, second, third, or fourth party. The frequency-selective ringer can be used in conjunction with identification assembly 206287-841 to provide the marking required for party identification. If the ringer winding is not used, identification assembly 206012-533 should be used to provide the marking.

(1) Party identification using ringer and identification assembly 206287-841.

Identification assembly 206287-841 consists of a diode and a resistor mounted on a terminal board. The diode, the resistor, and the 1000-ohm coil of the ringer can be wired in any one of four configurations (fig. 8), and each configuration presents a different picture to the line. When the hookswitch is in the off-hook position, earth ground through the ringer coil and identification assembly is connected to the transmission path. The identification equipment identifies the calling party as the first, second, third, or fourth party, depending on the specific configuration used.

(2) Party identification using identification assembly 206012-533.

Identification assembly 206012-533 is used in providing for party identification when ringer coil is not used for identification. For example, this identification assembly is used in telephones wired for bridged ringing or in extension telephones that are not equipped with a ringer.

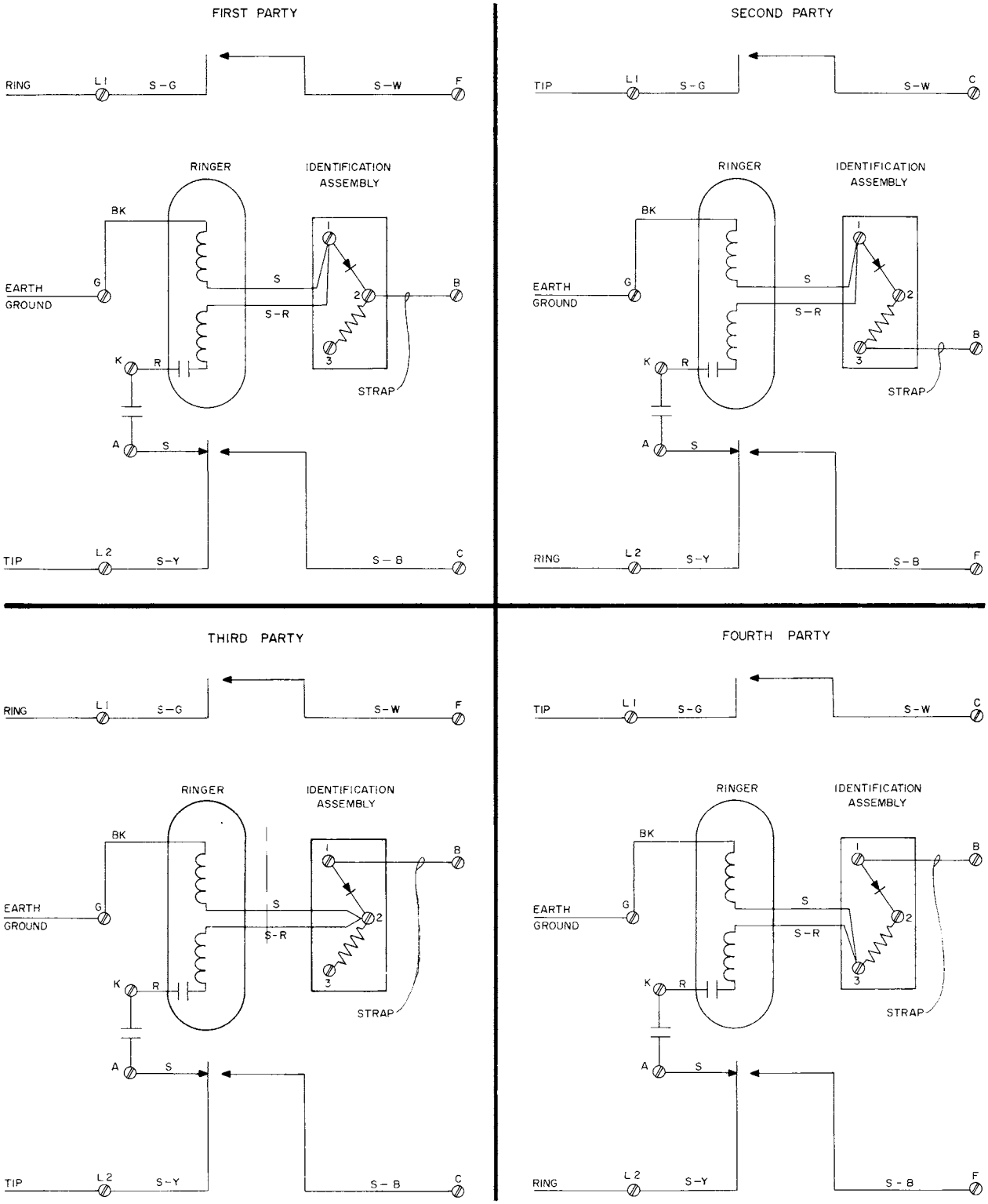
The identification assembly contains a coil, a diode, and a resistor, which can be wired in any one of four configurations (fig. 9), and each configuration presents a different picture to the line when the hookswitch is in the off-hook position. The identification equipment identifies the calling party as the first, second, third, or fourth party, depending on the specific configuration used.

WIRING PRECAUTIONS

When installing or maintaining telephones, take the following precautions.

a. Make certain that spade tips and skinned ends of wires contact only the terminal to which the connection is made. Electrical contact to the metal tabs of the network case can extend ringing current or dc line current to the metal finger stop or to the handset cradle of a wall telephone.

b. Make certain that line cord and leads of line cord are dressed so that they do not interfere with moving parts of the ringer or gong. Anchor the line cord beneath the stayhook located on the right rear corner of the base.



Notes. 1. If ringer is 30- or 33-1/3-cycle ringer, connect red lead of ringer to network terminal A (capacitor between network terminals A and K not required).

2. 16-, 16-2/3, 20-, and 25-cycle ringers are not equipped with capacitor.

Figure 8. 4-Party Identification With Divided Ringing, Schematic Diagram.

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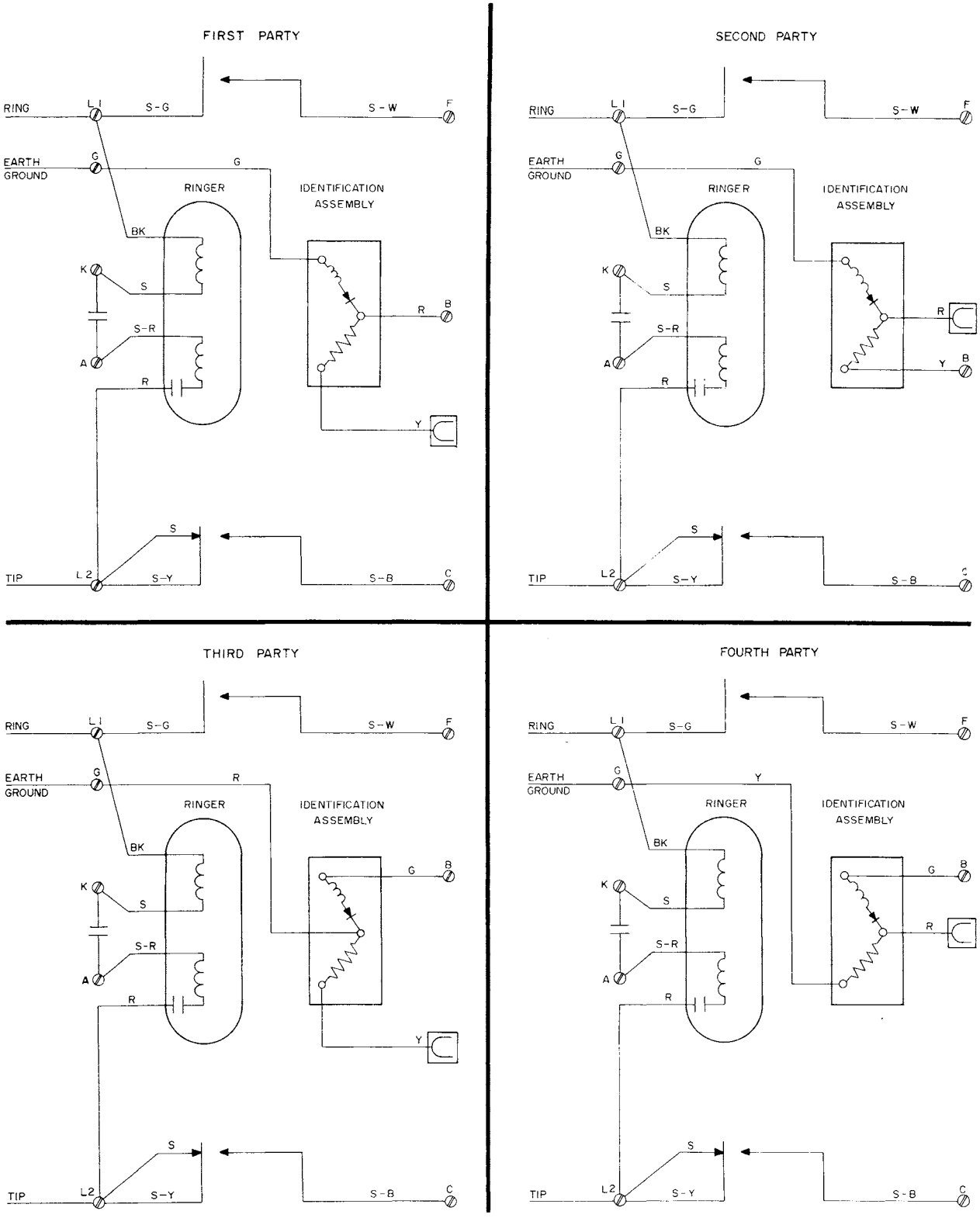


CP-1145

Notes. 1. If ringer is 30- or 33-1/3-cycle ringer, connect slate lead of ringer to network terminal A (capacitor between network terminals A and K not required).

2. 16-, 16-2/3, 20-, and 25-cycle ringers are not equipped with capacitor.

Figure 9. 4-Party Identification With Bridged Ringing, Schematic Diagram.

10. INSTALLING DIAL NUMBER CARD

To install the dial number card, proceed as follows:

a. Remove fingerwheel as follows.

(1) Rotate fingerwheel clockwise as far as possible.

(2) Insert end of paper clip (or suitable tool) in tab release hole (fig. 10).

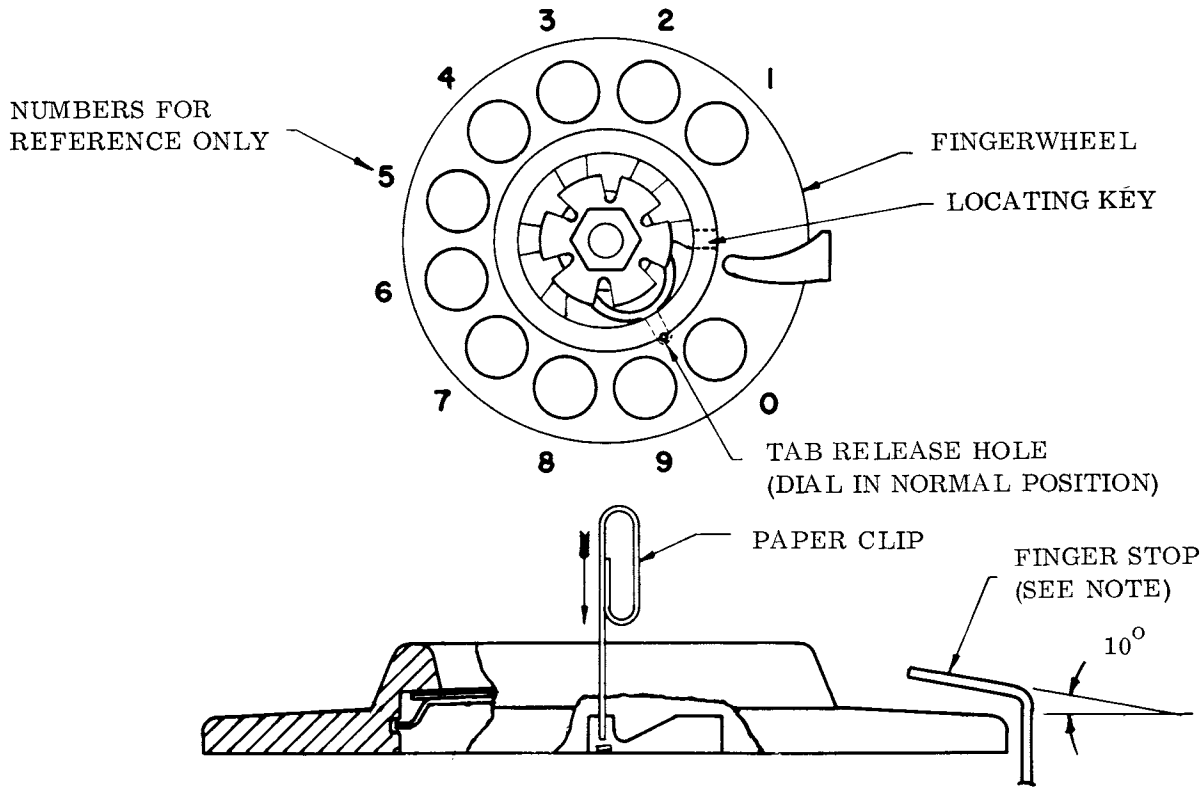
(3) Press down with paper clip to release locking tab while continuing to rotate fingerwheel clockwise. Fingerwheel will release and allow dial to return to normal.

b. Place number card in fingerwheel; make certain that the card is properly indexed.

c. Reassemble fingerwheel to dial as follows.

(1) With dial in the normal position, place fingerwheel on dial with the number 0 OPERATOR hole opposite the number 9 figure on the number plate.

(2) Press down lightly on the fingerwheel while rotating it counterclockwise until locking tab snaps into place.



Note. When replacing flat fingerwheel with curved top fingerwheel, bend finger stop approximately 10° as shown, or replace with bent up finger stop, part no. 207155-119.

Figure 10. Removing Fingerwheel.

11. HOUSING REMOVAL AND REPLACEMENT

a. Desk Telephone.

To remove the housing from a desk telephone, loosen the two base screws and lift the housing away from the base.

To replace the housing proceed as follows:

(1) Align the front of the housing with the base and seat the front of the housing on the base.

(2) Lower the rear of the housing into place; if the telephone is equipped with a plunger cam (S-C 500F, S-C 502B, and S-C 575B), lift the plunger cam while lowering the rear of the housing; after the rear of the housing is seated on the base, depress the plunger cam into position.

(3) Tighten base mounting screws.

b. Wall Telephone.

To remove the housing from a wall telephone, push in on housing, depress tab of housing clip located in cord slot (see fig. 11 and 12) and, while clip is depressed, lift the lower part of the housing outward and upward, releasing catch and disengaging latch located at top of housing from spring clip on base.

To replace housing, slip housing over hookswitch and dial, place the latch (fig. 13) over the spring clip, and press firmly on lower part of housing to engage housing clip and catch; if telephone is equipped with a twist key or pushbutton (S-C 551B, S-C 553B, and S-C 550B), reach in between the housing and the dial number plate and raise twist key or pushbutton until it engages hole in housing (if necessary, use a loop of wire or similar device for raising pushbutton); then, press firmly on lower part of housing to engage clip and catch.

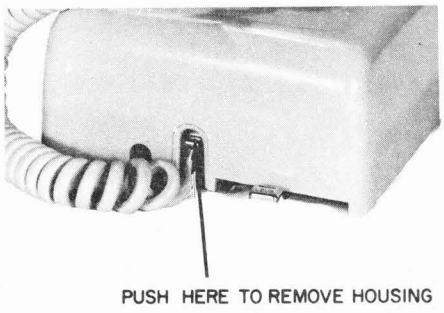


Figure 11. Removing Housing of Wall Telephone.

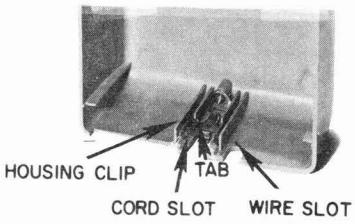


Figure 12. Housing Clip.

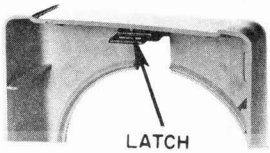


Figure 13. Replacing Housing of Wall Telephone.

12. RINGER AND IDENTIFICATION ASSEMBLY CONNECTIONS, BRIDGED AND DIVIDED RINGING WITH OR WITHOUT-TIP PARTY IDENTIFICATION

Use figure 14 to select the wiring diagram applicable to the telephone set, type of ringing (bridged or divided), and type of tip-party identification (none, 2650-ohm or 1000-ohm). Figures 14-1 through 14-7 are located on pages 16 through 18.

Note. If central office is equipped for 4-party identification, 2-party lines must be wired the same as the first and second party of a 4-party line (par. 13).

Telephone Set	Bridged Ringing		Divided Ringing			
	No Ident See Fig.	Tip-Party Ident See Fig.	Ring Party See Fig.	Tip-Party No Ident See Fig.	2650-Ohm Tip-Party See Fig.	1000-Ohm Tip-Party See Fig.
S-C 500D	14-1	14-1 & 7	14-1	14-1	14-2*	14-3*
S-C 554B	14-4	14-4 & 7	14-1	14-1	14-2*	14-3*
S-C 500F	14-1	14-1 & 7	14-1	14-1	14-2*	14-3*
S-C 554F	14-4	14-4 & 7	14-1	14-1	14-2*	14-3*
S-C 500Y	14-4	-	-	-	-	-
S-C 554Y	14-4	-	-	-	-	-
S-C 502B	14-5	14-5 & 7	14-6	14-6	14-2*	14-3*
S-C 552B	14-5	14-5 & 7	14-6	14-6	14-2*	14-3*
S-C 508B	14-4	14-4 & 7	14-1	14-1	14-2*	14-3*
S-C 551B	14-4	14-4 & 7	14-1	14-1	14-2*	14-3*
S-C 510B	14-5†	14-5 & 7	14-6	14-6	-	-
S-C 553B	14-5†	14-5 & 7	14-6	14-6	-	-
S-C 575B	14-5	14-5 & 7	14-6	14-6	-	-
S-C 550B	14-5	14-5 & 7	14-6	14-6		

* If ringer is not used in providing the tip-party identification mark, connect identification assembly as shown on figure 14-7.

† When telephone is used for locking call transfer, connect ringer as shown in figure 14-4.

Figure 14. Ringer and Identification Assembly Connections, Bridged and Divided Ringing With or Without Tip-Party Identification.

13. RINGER AND IDENTIFICATION ASSEMBLY CONNECTIONS, 4-PARTY IDENTIFICATION

When the central office is equipped for 4-party identification all telephone sets used on party lines must be equipped with an identification assembly. With divided ringing, the ringer coil can be used in conjunction with identification assembly 206287-841 to provide the identification mark; with no ringing or with bridged ringing, identification assembly 206012-533 can be used to provide the identification mark.

Use figure 15 to select the wiring diagram applicable to the telephone set, type of ringing (divided or bridged), and party (first, second, third, or fourth). For 2-party lines, wire the tip party as the first party and wire the ring party as the second party. Figures 15-1 through 15-8 are located on pages 18 through 20, figure 14-1 is located on page 16, and figures 14-4 and 5 are located on page 17.

Telephone Set	Divided Ringing and Identification Assembly 206287-841				Bridged Ringing and Identification Assembly 206012-533			
	1st Party See Fig.	2nd Party See Fig.	3rd Party See Fig.	4th Party See Fig.	1st Party See Fig.	2nd Party See Fig.	3rd Party See Fig.	4th Party See Fig.
S-C 500D & 500F	15-1	15-2	15-3	15-4	14-1 & 15-5	14-1 & 15-6	14-1 & 15-7	14-1 & 15-8
S-C 554B 554F, 508B, & 551B	15-1	15-2	15-3	15-4	14-4 & 15-5	14-4 & 15-6	14-4 & 15-7	14-4 & 15-8
S-C 502B & 552B	15-1	15-2	15-3	15-4	14-5 & 15-5	14-5 & 15-6	14-5 & 15-7	14-5 & 15-8
S-C 510B 553B, 575B, & 550B	-	-	-	-	14-5 & 15-5	14-5 & 15-6	14-5 & 15-7	14-5 & 15-8

Figure 15. Ringer and Identification Assembly Connections, 4-Party Identification.

14. RINGER AND TUBE CONNECTIONS, SUPERIMPOSED RINGING

Use figure 16 to select the wiring diagrams applicable to the telephone set, party polarity (+ or -), and tube (426A or 425A). Figures 16-1 through 16-11 are located on pages 20 through 22.

Party	Ringer Connection		426A 3-Element Tube Connection		425A 4-Element Tube Connection	
	Single-Line* See Fig.	2-Line See Fig.	Single-Line* See Fig.	2-Line See Fig.	Single-Line* See Fig.	2-Line See Fig.
Tip Party (+) Ring Party (+)	16-1	16-2	16-3	16-4	16-5	16-6
Tip Party (-) Ring Party (-)	16-7	16-7	16-8	16-9	16-10	16-11

* Not applicable to S-C 500Y and S-C 554Y Telephones (message waiting).

Figure 16. Ringer and Tube Connections, Superimposed Ringing.

15. LINE CONNECTIONS

a. Single-Line Telephones.

Use figure 17 to select the wiring diagram applicable to the telephone set, type of ringing (bridged or divided), and party. Figures 17-1 through 17-14 are located on pages 23 through 26.

Telephone Set	Bridged Ringing, See Fig.	Divided or Superimposed Ringing	
		Ring, Second, or Fourth Party, See Fig.	Tip, First, or Third Party, See Fig.
S-C 500D	17-1	17-2	17-3
S-C 554B	17-4	17-5	17-6
S-C 500F	17-1	17-2	17-3
S-C 554F	17-4	17-5	17-6
S-C 500Y	17-1 (2-wire) 17-2 (3-wire)	- -	- -
S-C 554Y	17-5 (3-wire) 17-7 (2-wire)	- -	- -
S-C 501D	-	17-2	17-3
S-C 556B	-	17-5	17-6
S-C 502B	17-8	17-9	17-10
S-C 552B	17-11	17-12	17-13
S-C 508B	17-2	17-2	17-3
S-C 551B	17-5	17-5	17-6

Figure 17. Line Connections, Single-Line Telephones.

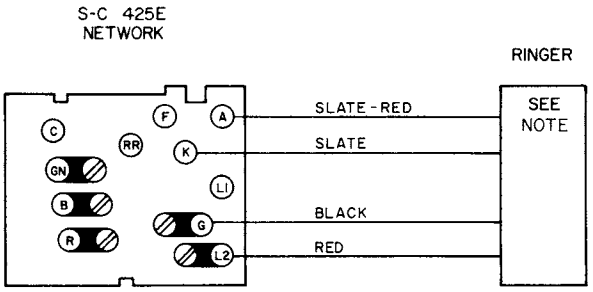
b. 2-Line Telephones.

Use figure 18 to select the wiring diagram applicable to the telephone set and type of service. Figures 18-1 through 18-15 are located on pages 26 through 30.

Type of Service	Telephone Set			
	S-C 510B See Fig.	S-C 553B See Fig.	S-C 575B See Fig.	S-C 550B See Fig.
Bridged Ringing; Divided Ringing, Ring Party*; and Superimposed Ringing, Ring Parties.	18-1	18-2	18-3	18-4
Divided Ringing, Tip Party; Bridged Ringing With 4-Party Identification, All Parties; and Superimposed Ringing, Tip Parties.	18-5	18-6	18-7	18-8
Locking Call Transfer	18-9	18-10	-	-
Pushbutton Call Transfer	18-11	18-12	18-14	18-13
Manual Intercom	-	-	18-15	-

* Not applicable to ring parties with 4-party identification.

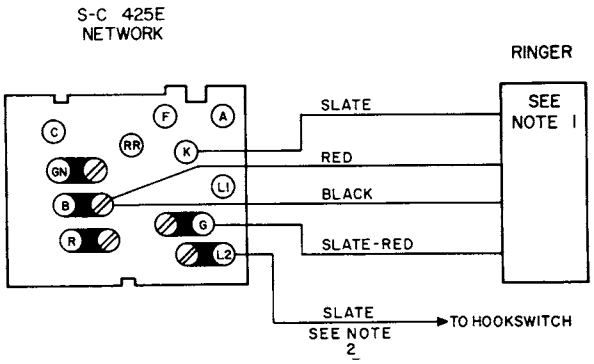
Figure 18. Line Connections, 2-Line Telephones.



Note. If ringer is 30- or 33-1/3-cycle ringer, connect slate lead to network terminal A (capacitor between network terminals A and K not required).

Figure 14-1. Ringer Connections, No Identification: S-C 500D and S-C 500F, Bridged and Divided Ringing; S-C 554B, S-C 554F, S-C 508B and S-C 551B, Divided Ringing.

CP-1147

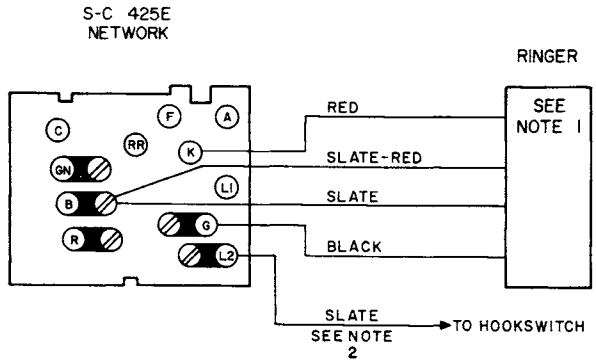


Notes. 1. If ringer is 30- or 33-1/3-cycle ringer, connect red lead of ringer to network terminal A (capacitor between network terminals A and K not required).

2. Move slate lead of hookswitch from network terminal L2 to network terminal A.

Figure 14-2. Ringer Connections, 2650-Ohm Tip-Party (AT) Identification: S-C 500D, S-C 554B, S-C 500F, S-C 554F, S-C 502B, S-C 552B, S-C 508B, and S-C 551B.

CP-1148

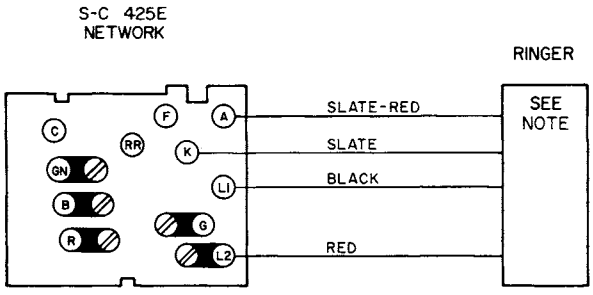


Notes. 1. If ringer is 30- or 33-1/3-cycle ringer, connect red lead to network terminal A (capacitor between network terminals A and K not required).

2. Move slate lead of hookswitch from network terminal L2 to network terminal A.

Figure 14-3. Ringer Connections, 1000-Ohm Tip-Party (Dial Message Rate) Identification: S-C 500D, S-C 554B, S-C 500F, S-C 554F, S-C 502B, S-C 552B, S-C 508B, and S-C 551B.

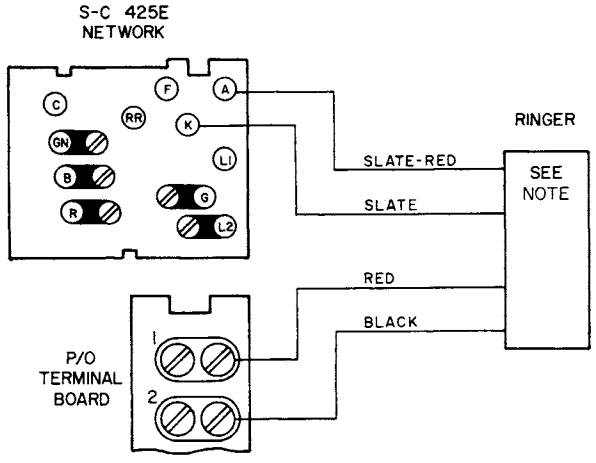
CP-1149



Note. If ringer is 30- or 33-1/3-cycle ringer, connect slate lead to network terminal A (capacitor between network terminals A and K not required).

Figure 14-4. Ringer Connections, Bridged Ringing: S-C 554B, S-C 554F, S-C 500Y, S-C 554Y, S-C 508B, and S-C 551B; S-C 510B and S-C 553B Locking Call Transfer.

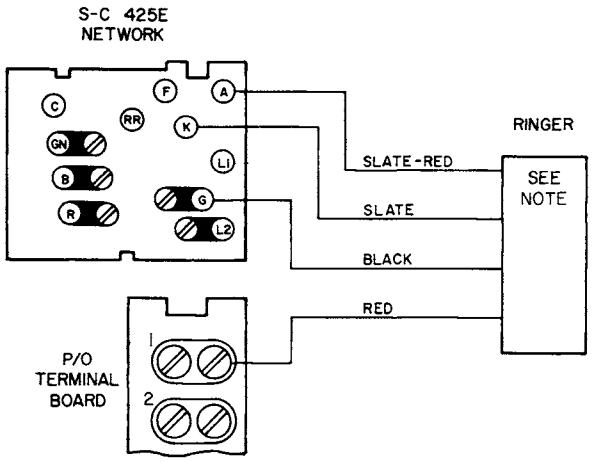
CP-1150



Note. If ringer is 30- or 33-1/3-cycle ringer, connect slate lead to network terminal A (capacitor between network terminals A and K not required).

Figure 14-5. Ringer Connections, Bridged Ringing: S-C 502B, S-C 552B, S-C 510B, S-C 553B, S-C 575B, and S-C 550B.

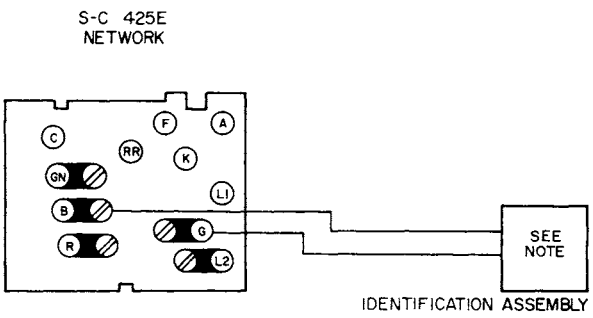
CP-1151



Note. If ringer is 30- or 33-1/3 cycle ringer, connect slate lead to network terminal A (capacitor between network terminals A and K not required).

Figure 14-6. Ringer Connections, Divided Ringing No Identification: S-C 502B, S-C 552B, S-C 510B, S-C 553B, S-C 575B, and S-C 550B.

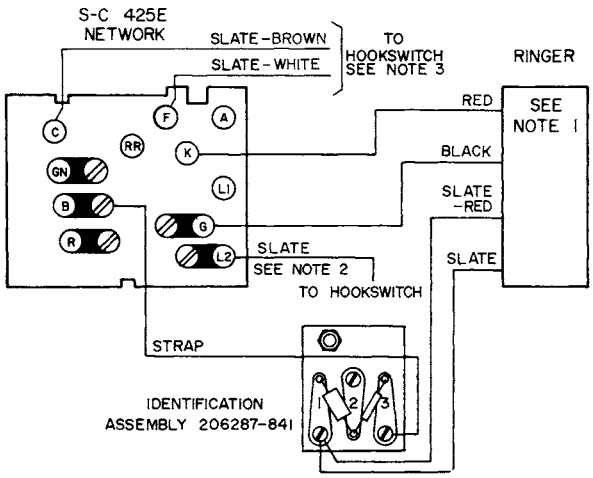
CP-1152



Note. For 2650-ohm identification, use identification assembly 206012-543, for 1000-ohm identification, use identification assembly 206012-523.

Figure 14-7. Identification Assembly Connections, Tip-Party Identification: S-C 510B, S-C 553B, S-C 575B, and S-C 550B.

CP-1154

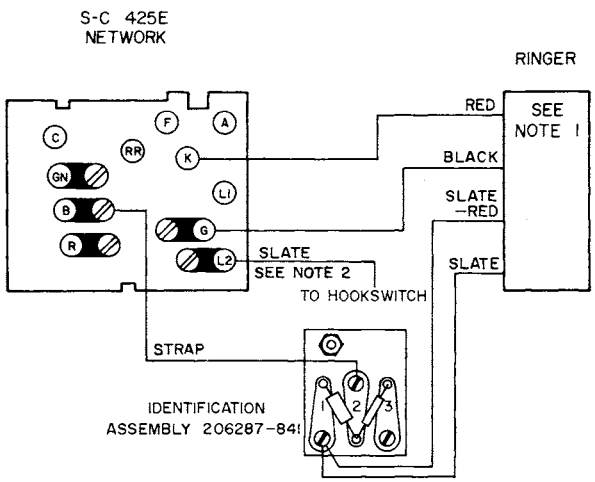


Notes. 1. If ringer is 30- or 33-1/3-cycle ringer, connect red lead of ringer to network terminal A (capacitor between network terminals A and K not required).

2. Move slate lead of hookswitch from network terminal L2 to network terminal A.

3. Move slate-brown lead of hookswitch from network terminal C to network terminal F and move slate-white lead of hookswitch from network terminal F to network terminal C.

Figure 15-2. Ringer and Identification Assembly (206287-841) Connections for Second Party, 4-Party Identification: S-C 500D, S-C 554B, S-C 500F, S-C 554F, S-C 502B, S-C 552B, S-C 508B, and S-C 551B.

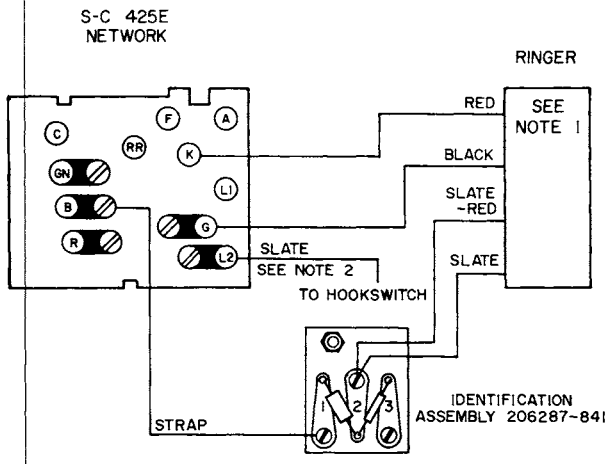


Notes. 1. If ringer is 30- or 33-1/3-cycle ringer, connect red-lead of ringer to network terminal A (capacitor between network terminals A and K not required).

2. Move slate lead of hookswitch from network terminal L2 to network terminal A.

Figure 15-1. Ringer and Identification Assembly (206287-841) Connections for First Party, 4-Party Identification: S-C 500D, S-C 554B, S-C 500F, S-C 554F, S-C 502B, S-C 552B, S-C 508B, and S-C 551B.

CP-1155

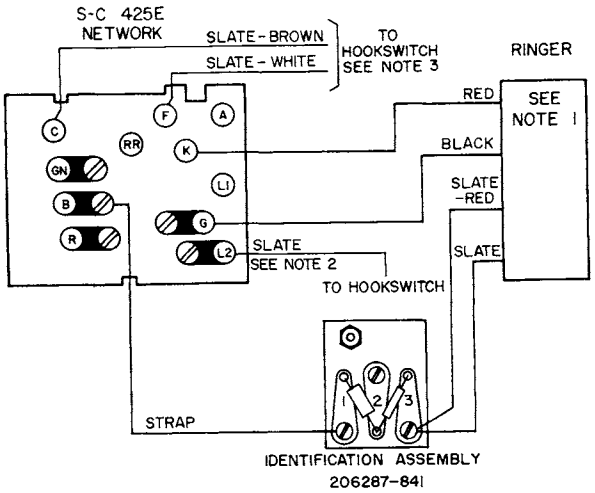


Notes. 1. If ringer is 30- or 33-1/3-cycle ringer, connect red lead of ringer to network terminal A (capacitor between network terminals A and K not required).

2. Move slate lead of hookswitch from network terminal L2 to network terminal A.

Figure 15-3. Ringer and Identification Assembly (206287-841) Connections for Third Party, 4-Party Identification: S-C 500D, S-C 554B, S-C 500F, S-C 554F, S-C 502B, S-C 552B, S-C 508B, and S-C 551B.

CP-1157



Notes. 1. If ringer is 30- or 33-1/3 cycle ringer, connect red lead of ringer to network terminal A (capacitor between network terminals A and K not required).

2. Move slate lead of hookswitch from network terminal L2 to network terminal A.

3. Move slate-brown lead of hookswitch from network terminal C to network terminal F and move slate-white lead of hookswitch from network terminal F to network terminal C.

Figure 15-4. Ringer and Identification Assembly (206287-841) Connections for Fourth Party, 4-Party Identification: S-C 500D, S-C 554B, S-C 500F, S-C 554F, S-C 502B, S-C 552B, S-C 508B, and S-C 551B.

CP-1158

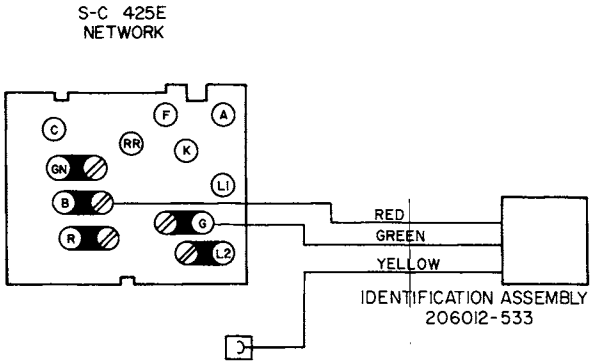
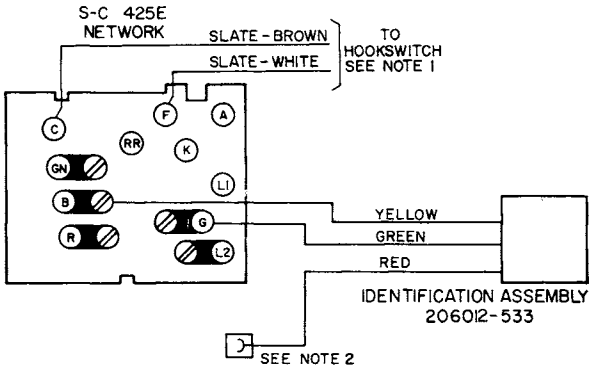


Figure 15-5. Identification Assembly (206012-533) Connections for First Party, 4-Party Identification: S-C 510B, S-C 553B, S-C 575B, and S-C 550B.

CP-1159



Notes. 1. On single-line telephone, move slate-brown lead of hookswitch from network terminal C to network terminal F and move slate-white lead of hookswitch from network terminal F to network terminal C.

2. Remove sleeve from terminal of yellow conductor and place it on terminal of red conductor.

Figure 15-6. Identification Assembly (206012-533) Connections for Second Party, 4-Party Identification: S-C 510B, S-C 553B, S-C 575B, and S-C 550B.

CP-1160

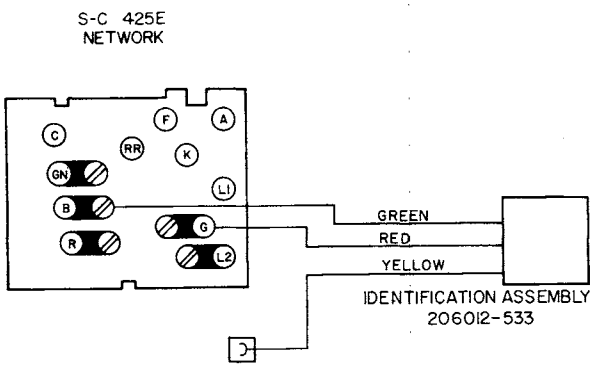
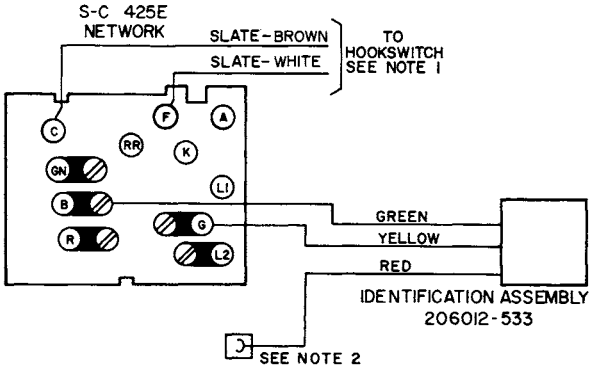


Figure 15-7. Identification Assembly (206012-533) Connections for Third Party, 4-Party Identification: S-C 510B, S-C 553B, S-C 575B, and S-C 550B.

CP-1161



Notes. 1. On single-line telephone, move slate-brown lead of hookswitch from network terminal C to network terminal F and move slate-white lead of hookswitch fr m network terminal F to network terminal C.

2. Remove sleeve from terminal of yellow conductor and place it on terminal of red conductor.

Figure 15-8. Identification Assembly (206012-533) Connections for Fourth Party, 4-Party Identification: S-C 510B, S-C 553B, S-C 575B, and S-C 550B.

CP-1162

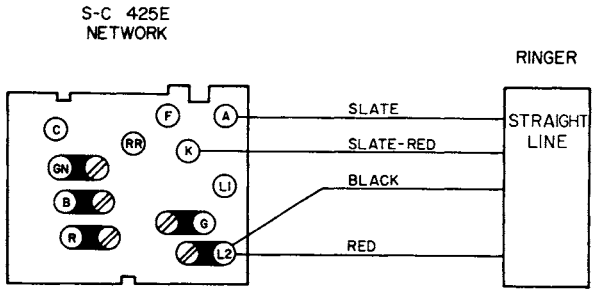


Figure 16-1. Ringer Connections, Superimposed Ringing, Tip Party (+) and Ring Party (+): S-C 501D, S-C 556B, S-C 500F, S-C 554F, S-C 502B, S-C 552B, S-C 508B, and S-C 551B.

CP-1163

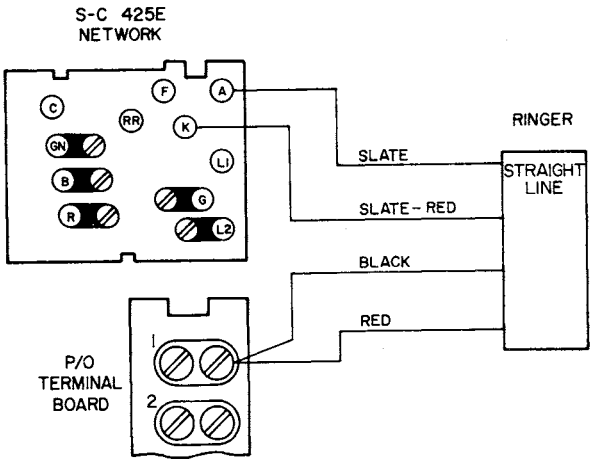


Figure 16-2. Ringer Connections, Superimposed Ringing, Tip Party (+) and Ring Party (+): S-C 510B, S-C 553B, S-C 575B, and S-C 550B.

CP-1169

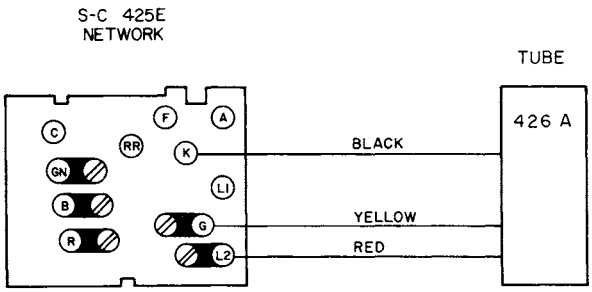


Figure 16-3. Tube (426A) Connections, Superimposed Ringing, Tip Party (+) and Ring Party (+): S-C 501D, S-C 556B, S-C 500F, S-C 554F, S-C 502B, S-C 552B, S-C 508B, and S-C 551B.

CP-1165

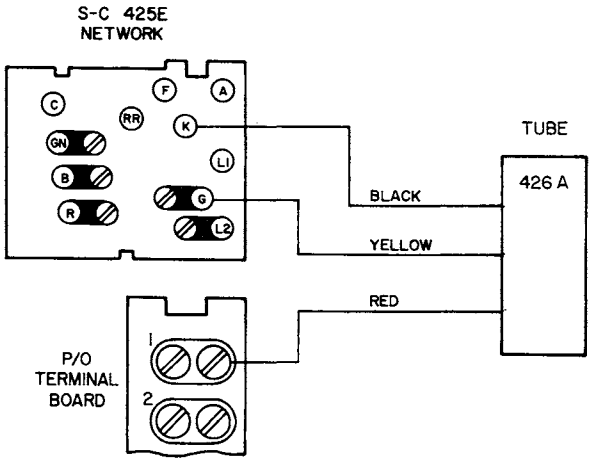


Figure 16-4. Tube (426A) Connections, Superimposed Ringing, Tip Party (+) and Ring Party (+): S-C 510B, S-C 553B, S-C 575B, and S-C 550B.

CP-1170

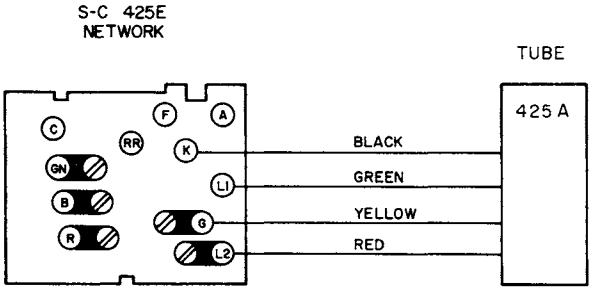


Figure 16-5. Tube (425A) Connections, Superimposed Ringing, Tip Party (+) and Ring Party (+): S-C 501D, S-C 556B, S-C 500F, S-C 554F, S-C 502B, S-C 552B, S-C 508B, and S-C 551B.

CP-1167

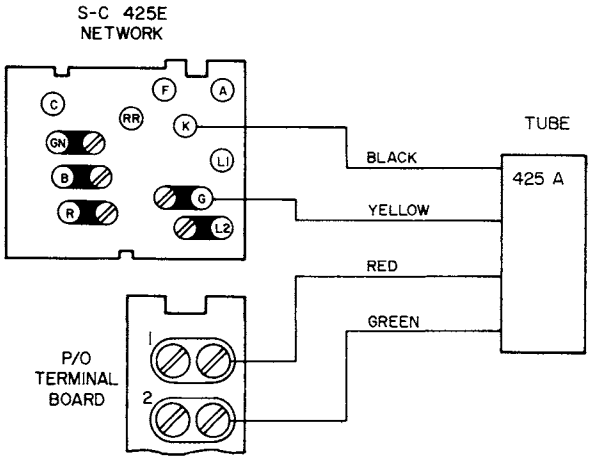


Figure 16-6. Tube (425A) Connections, Superimposed Ringing, Tip Party (+) and Ring Party (+): S-C 510B, S-C 553B, S-C 575B and S-C 550B.

CP-1172

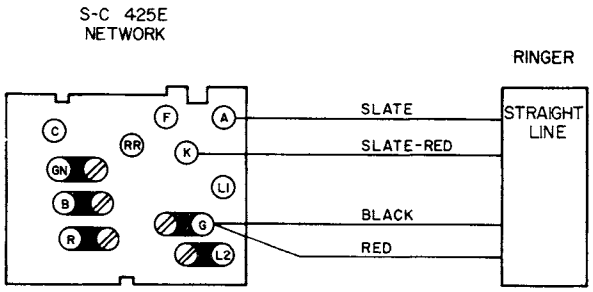


Figure 16-7. Ringer Connections, Superimposed Ringing, Tip Party (-) and Ring Party (-): S-C 501D, S-C 556B, S-C 500F, S-C 554F, S-C 502B, S-C 552B, S-C 508B, S-C 551B, S-C 510B, S-C 553B, S-C 575B, and S-C 550B.

CP-1164

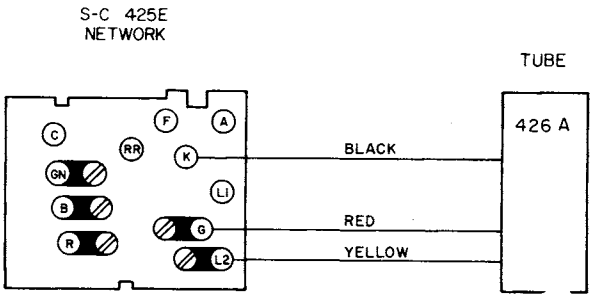


Figure 16-8. Tube (426A) Connections, Superimposed Ringing, Tip Party (-) and Ring Party (-): S-C 501D, S-C 556B, S-C 500F, S-C 554F, S-C 502B, S-C 552B, S-C 508B, and S-C 551B.

CP-1166

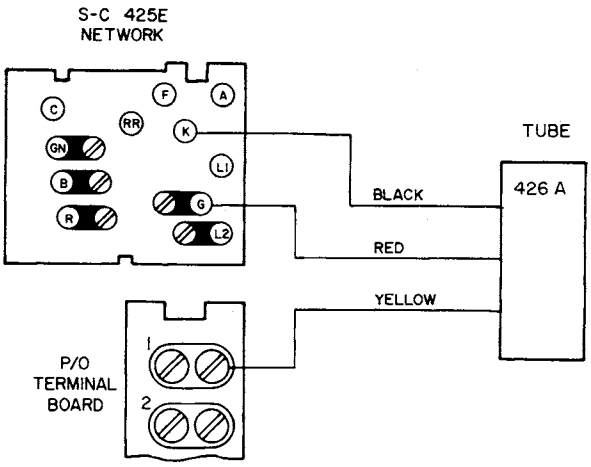


Figure 16-9. Tube (426A) Connections, Superimposed Ringing, Tip Party (-) and Ring Party (-): S-C 510B, S-C 553B, S-C 575B, and S-C 550B.

CP-1171

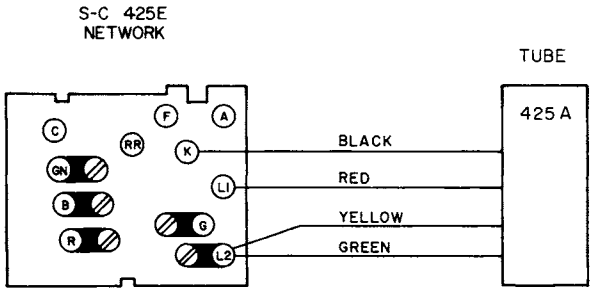


Figure 16-10. Tube (425A) Connections, Superimposed Ringing, Tip Party (-) and Ring Party (-): S-C 501D, S-C 556B, S-C 500F, S-C 554F, S-C 502B, S-C 552B, S-C 508B, and S-C 551B.

CP-1168

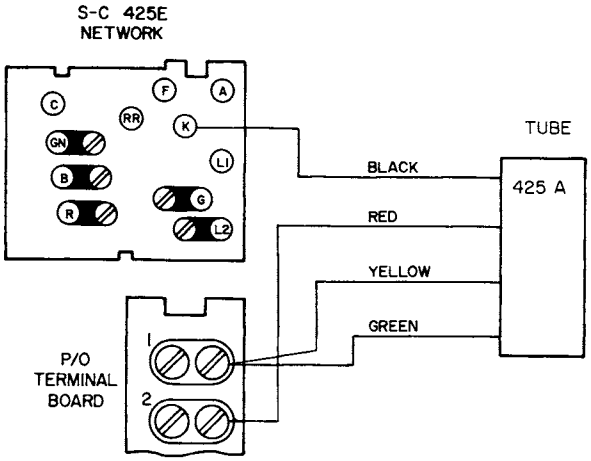


Figure 16-11. Tube (425A) Connections, Superimposed Ringing, Tip Party (-) and Ring Party (-): S-C 510B, S-C 553B, S-C 575B, and S-C 550B.

CP-1173

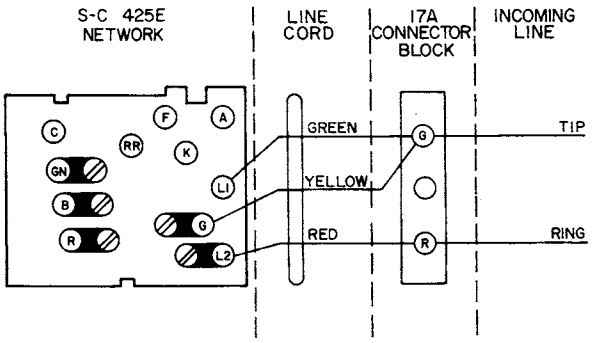


Figure 17-1. Line Connections: S-C 500D and S-C 500F Bridged Ringing; and S-C 500Y 2-Wire Service.

CP-1174

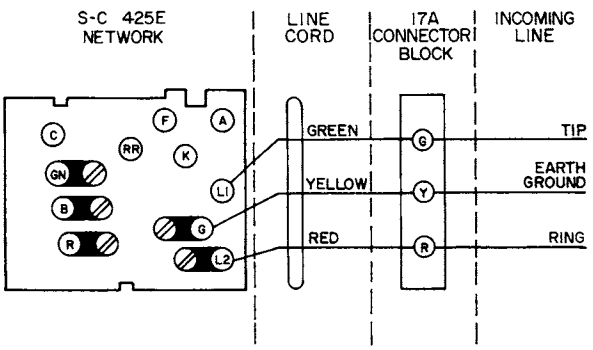


Figure 17-2. Line Connections: S-C 500D and S-C 500F, Divided Ringing, Ring Party; S-C 508B, Bridged Ringing and Divided Ringing, Ring Party; S-C 500Y, 3-Wire Service; and S-C 501D, Superimposed Ringing, Ring Party (+) and Ring Party (-).

CP-1187

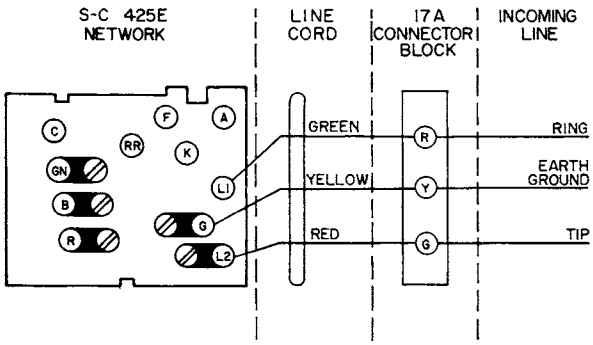


Figure 17-3. Line Connections: S-C 500D, S-C 500F, and S-C 508B, Divided Ringing, Tip Party; and S-C 501D, Superimposed Ringing, Tip Party (+) and Tip Party (-).

CP-1176

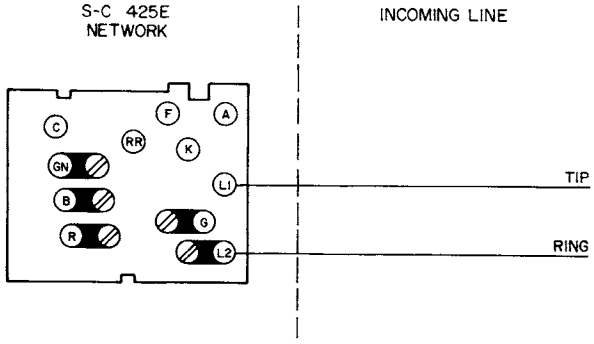


Figure 17-4. Line Connections: S-C 554B and S-C 554F, Bridged Ringing.

CP-1177

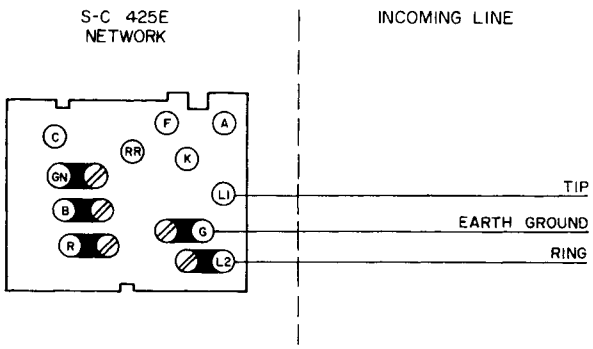


Figure 17-5. Line Connections: S-C 554B and S-C 554F Divided Ringing, Ring Party; S-C 551B, Bridged Ringing and Divided Ringing, Ring Party; S-C 554Y, 3-Wire Service; and S-C 556B, Superimposed Ringing, Ring Party (+) and Ring Party (-).

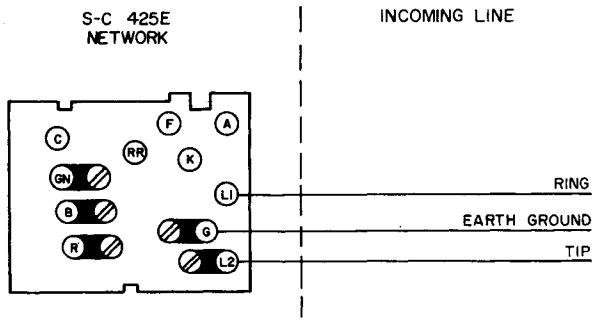


Figure 17-6. Line Connections: S-C 554B, S-C 554F, and S-C 551B, Divided Ringing, Tip Party; and S-C 556B, Superimposed Ringing, Tip Party (+) and Tip Party (-).

CP-1179

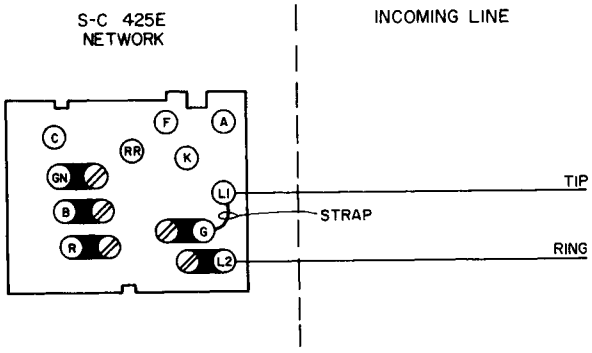


Figure 17-7. Line Connections: S-C 554Y, 2-Wire Service.

CP-1180

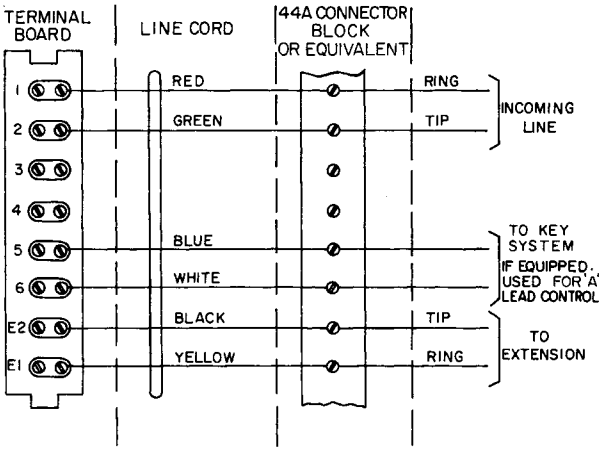
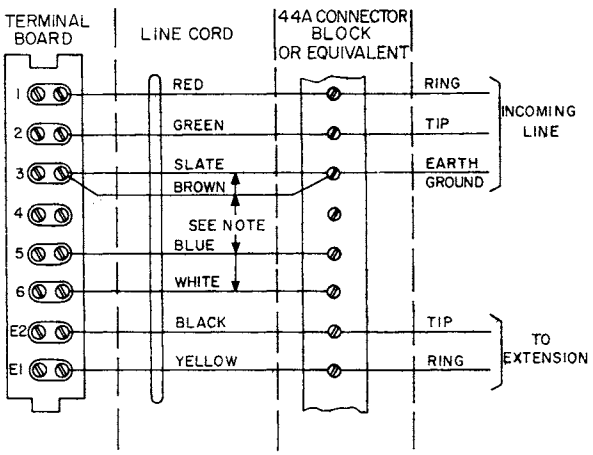


Figure 17-8. Line Connections: S-C 502B, Bridged Ringing.

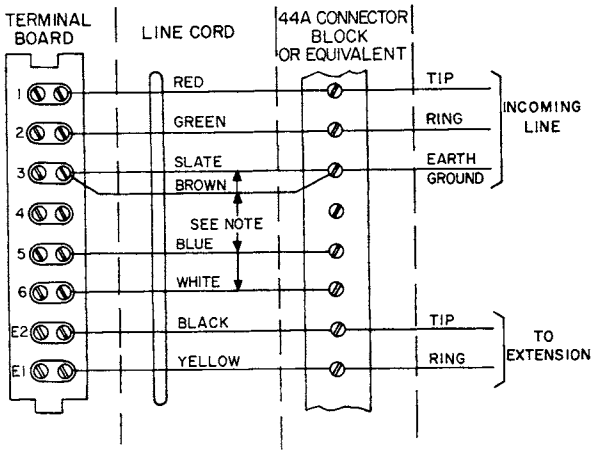
CP-1181



Note. If 6-conductor line cord is used, connect blue and white conductors between earth ground and terminal 3 of terminal board.

Figures 17-9. Line Connections: S-C 502B, Divided Ringing, Ring Party.

CP-1182



Note. If 6-conductor mounting cord is used, connect blue and white conductors between earth ground and terminal 3 of terminal board.

Figure 17-10. Line Connections: S-C 502B, Divided Ringing, Tip Party.

CP-1183

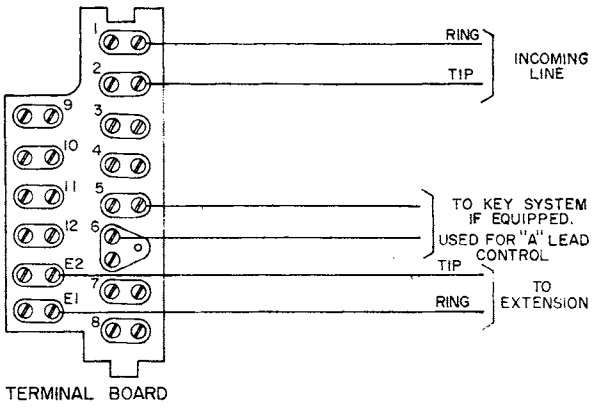


Figure 17-11. Line Connections: S-C 552B, Bridged Ringing.

CP-1184

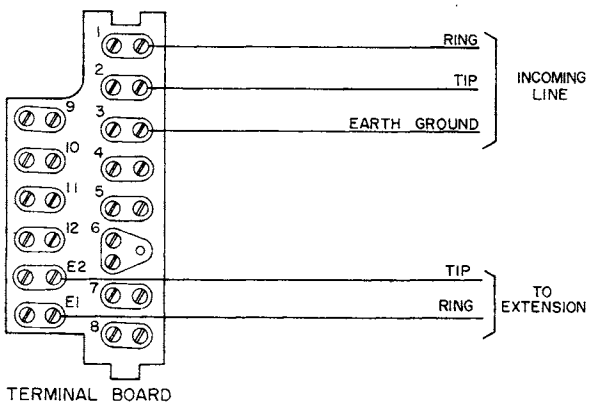


Figure 17-12. Line Connections: S-C 552B, Divided Ringing, Ring Party.

CP-1185

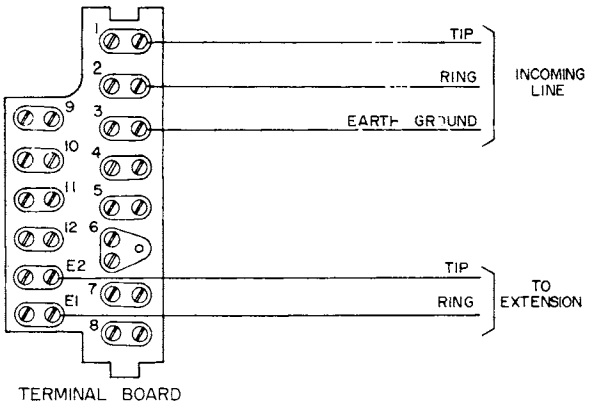
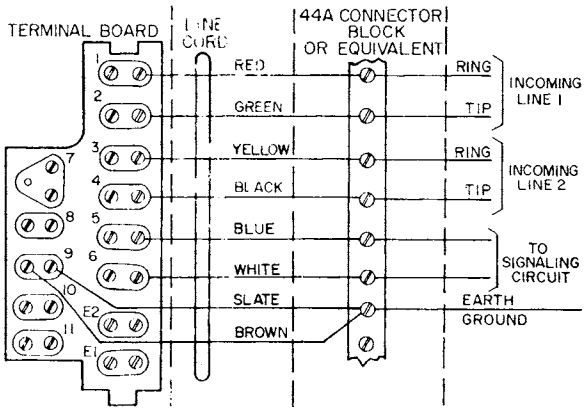


Figure 17-13. Line Connections: S-C 552B, Divided Ringing, Tip Party.

CP-1186



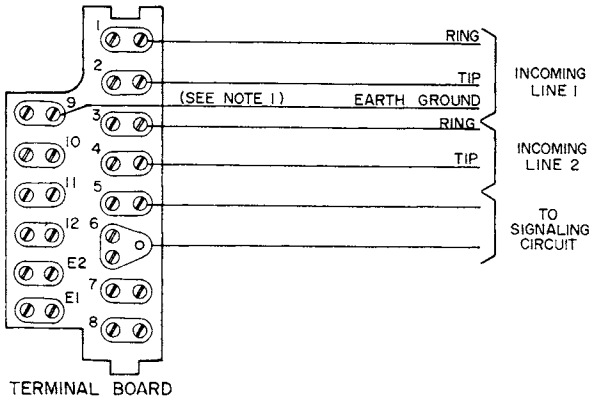
Notes. 1. For bridged ringing, earth ground is not required, and a 6-conductor line cord can be used.

2. Use twisted pairs for tip and ring leads.

3. Not applicable to ring parties with 4-party identification.

Figure 18-1. Line Connections: S-C 510B Bridged Ringing and Divided Ringing, Ring Party.

CP-1188



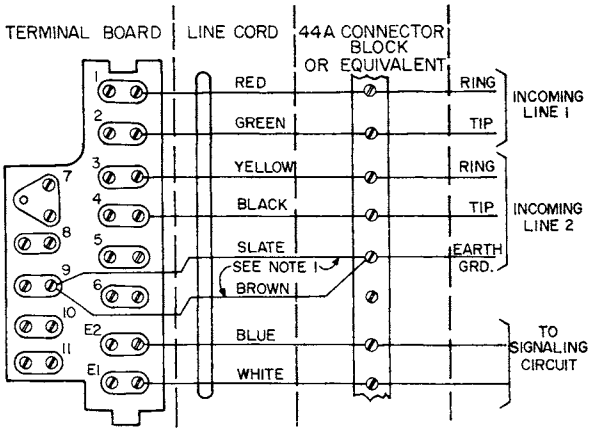
Notes. 1. Earth ground is not required for bridged ringing.

2. Use twisted pairs for tip and ring leads.

3. Not applicable to ring parties with 4-party identification.

Figure 18-2. Line Connections: S-C 553B Bridged Ringing and Divided Ringing, Ring Party.

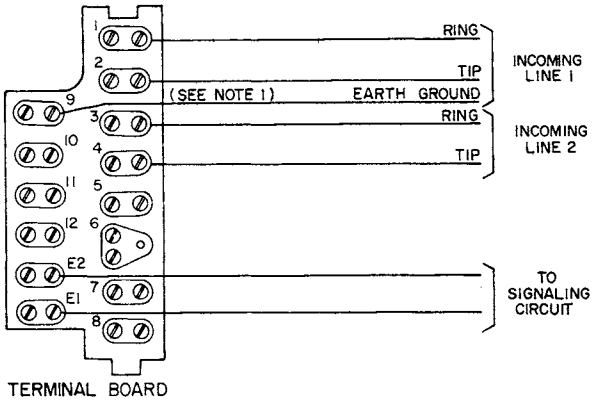
CP-1189



Notes. 1. For bridged ringing, earth ground is not required, and a 6-conductor line cord can be used.
2. Use twisted pairs for tip and ring leads.
3. If hold is not required for line 2, remove resistor R2 from between terminals 4 and 6 of terminal board.
4. Not applicable to ring parites with 4-party identification.

Figure 18-3. Line Connections: S-C 575B Bridged Ringing and Divided Ringing, Ring Party.

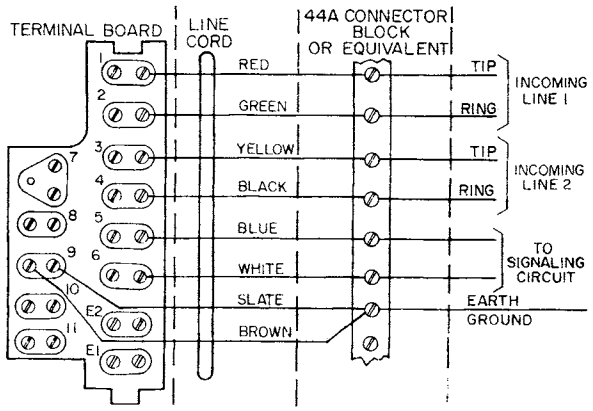
CP-1190



1. Earth ground is not required for bridged ringing.
2. Use twisted pairs for tip and ring leads.
3. If hold is not required for line 2, remove resistor R2 from between terminals 4 and 6 of terminal board.
4. Not applicable to ring parties with 4-party identification.

Figure 18-4. Line Connections: S-C 550B Bridged Ringing and Divided Ringing, Ring Party.

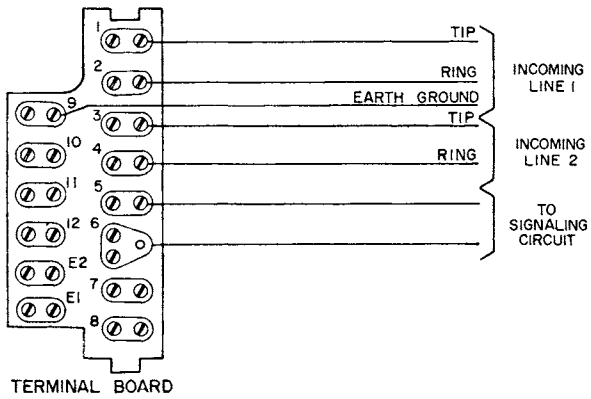
CP-1191



Note. Use twisted pairs for tip and ring leads.

Figure 18-5. Line Connections: S-C 510B Divided Ringing Tip Parties and All Parties With 4-Party Identification.

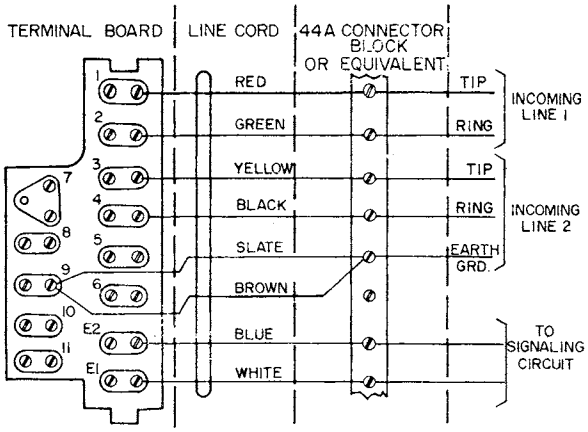
CP-1207



Note. Use twisted pairs for tip and ring leads.

Figure 18-6. Line Connections: S-C 553B Divided Ringing Tip Parties and All Parties With 4-Party Identification.

CP-1208

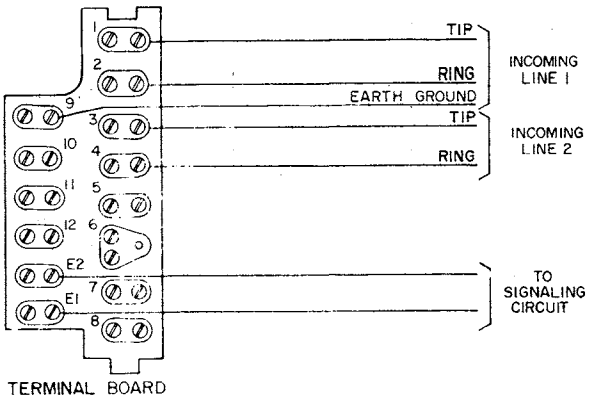


Notes. 1. Use twisted pairs for tip and ring leads.

2. If hold is not required for line 2, remove resistor R2 from between terminals 4 and 6 of terminal board.

Figure 18-7. Line Connections: S-C 575B Divided Ringing Tip Parties and All Parties With 4-Party Identification.

CP-1209

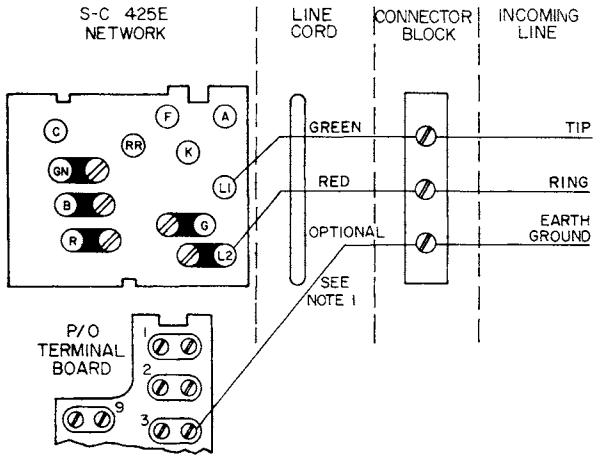


Notes. 1. Use twisted pairs for tip and ring leads.

2. If hold is not required for line 2, remove resistor R2 from between terminals 4 and 6 of terminal board.

Figure 18-8. Line Connections: S-C 550E Divided Ringing Tip Parties and All Parties With 4-Party Identification.

CP-1210

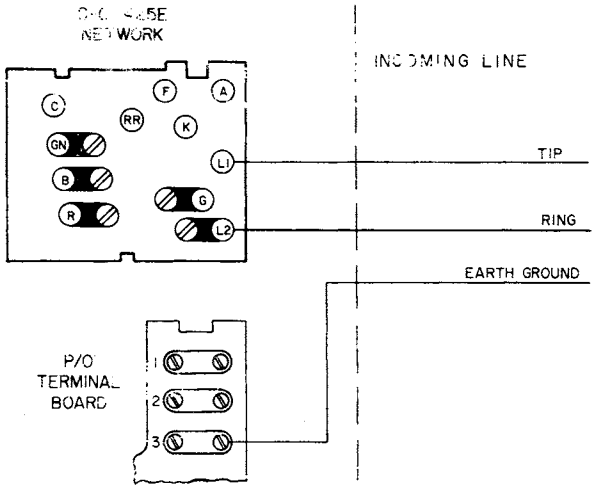


Notes. 1. Tape back unused line cord leads.

2. Turning key to position 2 places line in call transfer.

Figure 18-9. Line Connections: S-C 510B When Used for Locking Call Transfer.

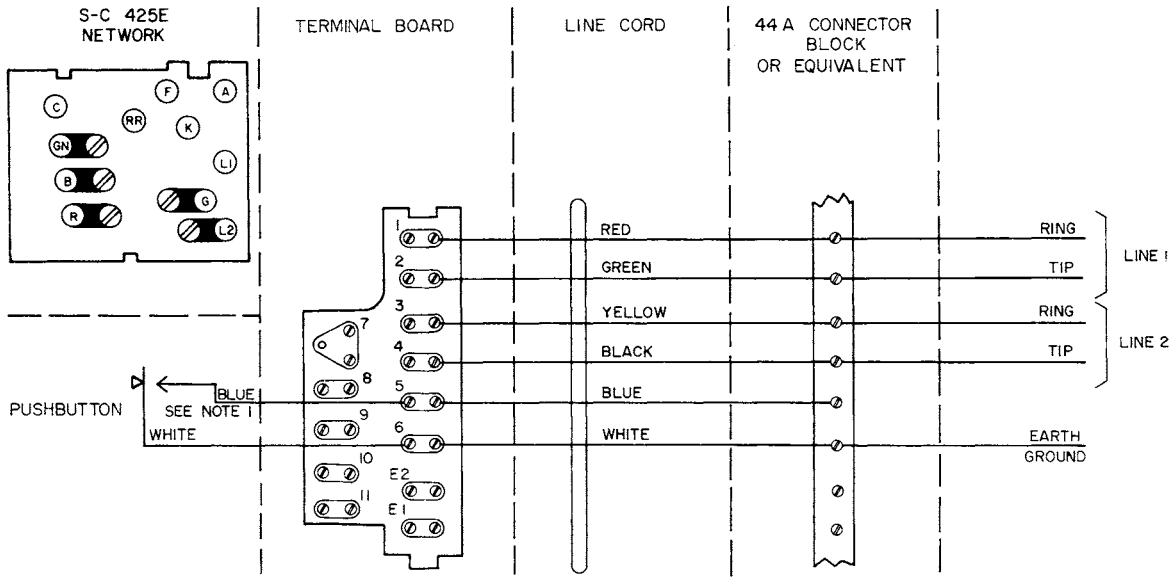
CP-1192



Note. Turning key to position 2 places line in call transfer.

Figure 18-10. Line Connections: S-C 553B When Used for Locking Call Transfer.

CP-1193

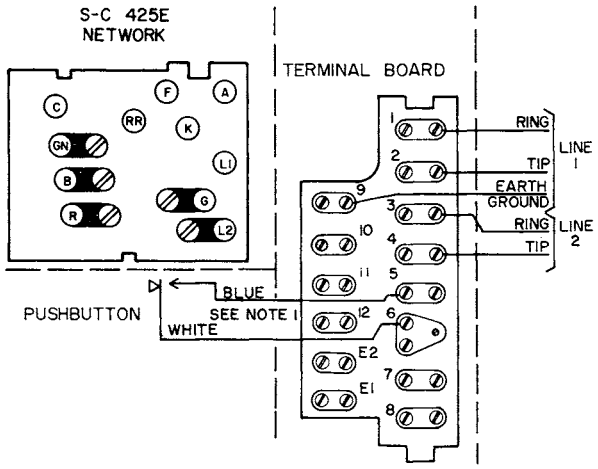


Notes. 1. Move blue wire of pushbutton from terminal 5 of terminal board to network terminal C.

2. Use twisted pairs for tip and ring leads.

CP-1195

Figure 18-11. Line Connections: S-C 510B When Used for Pushbutton Call Transfer.

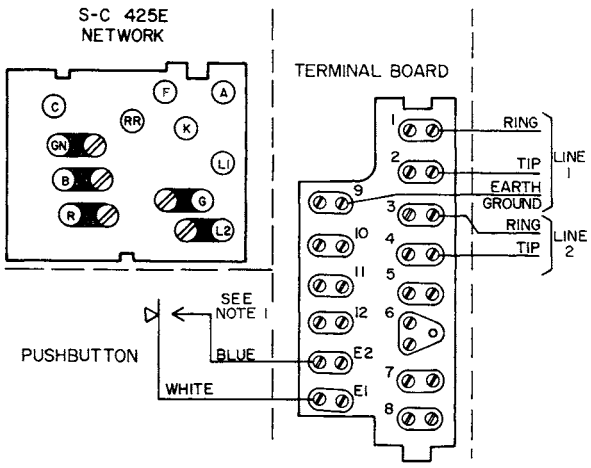


Notes. 1. Move white wire of pushbutton from terminal 6 of terminal board to terminal 9 of terminal board and move blue wire of pushbutton from terminal 5 of terminal board to network terminal C.

2. Use twisted pairs for tip and ring leads.

Figure 18-12. Line Connections: S-C 553B When Used for Pushbutton Call Transfer.

CP-1196

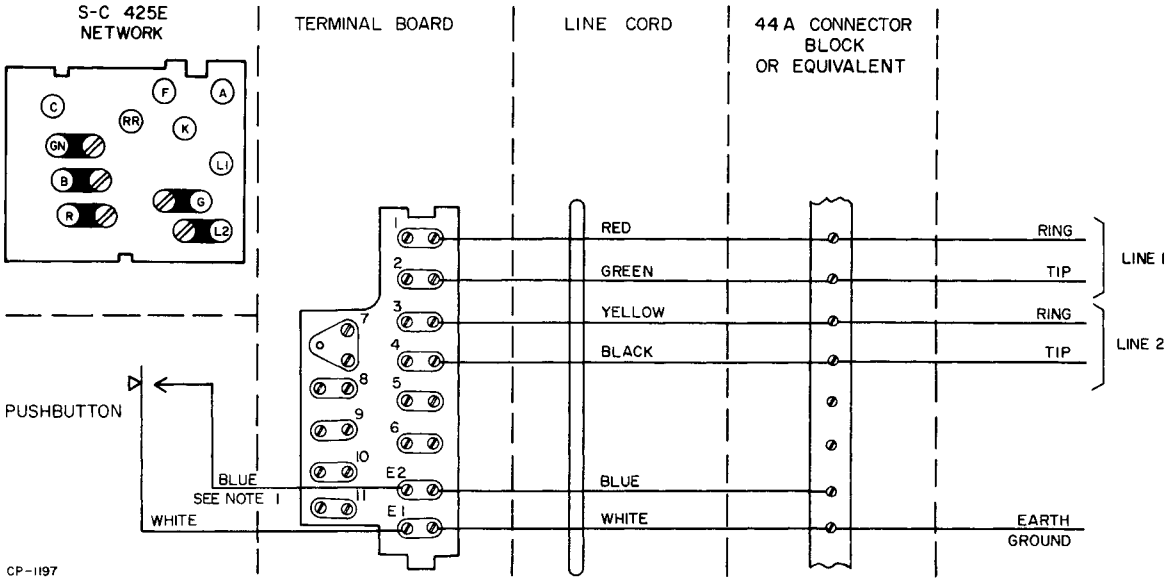


Notes. 1. Move white wire of pushbutton from terminal E1 of terminal board to terminal 9 of terminal board and move blue wire of pushbutton from terminal E2 of terminal board to network terminal C.

2. Use twisted pairs for tip and ring leads.

Figure 18-13. Line Connections: S-C 550B When Used for Pushbutton Call Transfer.

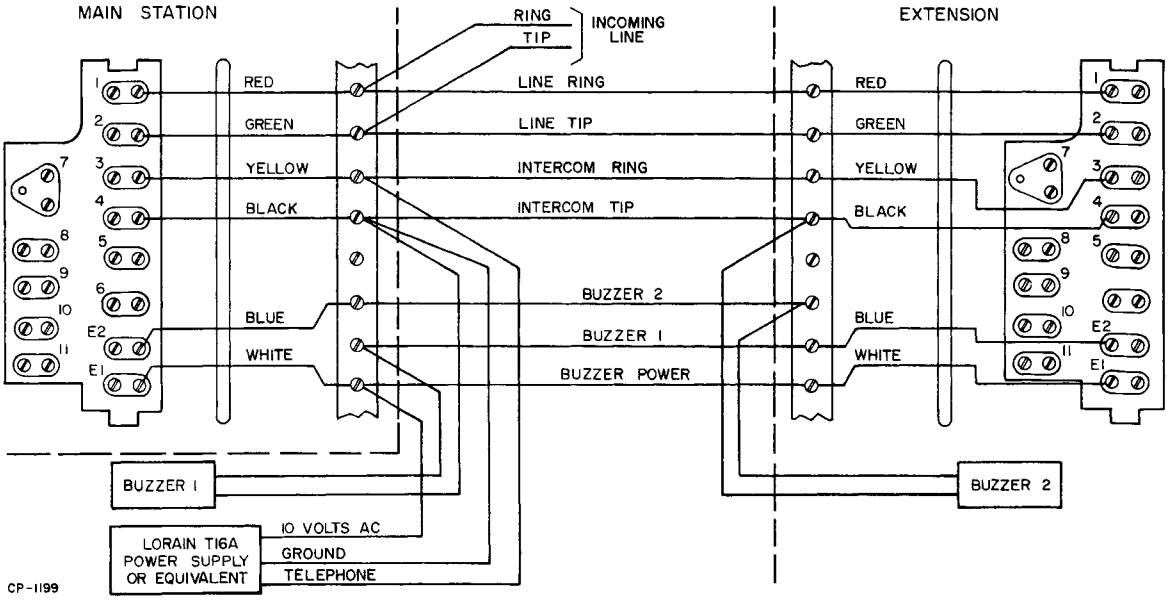
CP-1198



Notes. 1. Move blue wire of pushbutton from terminal E2 of terminal board to network terminal C.

2. Use twisted pairs for tip and ring leads.

Figure 18-14. Line Connections: S-C 575B When Used for Pushbutton Call Transfer.



Notes. 1. Resistor R2 can be removed from between terminals 4 and 6 of terminal board to prevent transmission loss if hold button is accidently left operated when key is turned back to line 1.

2. Use twisted pairs for tip and ring leads.

Figure 18-15. Line Connections: S-C 575B When Second Line is Used for Manual Intercom.

SECTION III MAINTENANCE

16. GENERAL

Inspect the exterior and interior of the telephone set, look for defects such as loose, displaced, or broken parts and make certain that moving parts are not obstructed. Check line and ground terminations.

17. PLUNGERS

Check plungers to make certain that they move freely without binding or squeaking. If plungers stick, remove cover and clean plungers with cloth moistened with petroleum spirits and lubricate with a No. 2 or softer graphite pencil. If plungers stick after cleaning and lubrication, replace the housing.

If the left-hand plunger on an S-C 500F, S-C 502B, or S-C 575B Telephone fails to lock when pulled upward, replace set.

18. HOOKSWITCH

To remove the hookswitch cover, squeeze the sides of the cover between the thumb and index finger and tilt cover up and away from hookswitch mounting. Clean dirty hookswitch contacts with a burnishing tool equipped with a clean blade.

Check the hookswitch to make certain that it moves freely without binding or squeaking. If hookswitch binds or squeaks, clean lever arm or operating arm, pin, and restoring spring anchor points with a cloth moistened with petroleum spirits and lubricate the bearing surfaces with a No. 2 or softer graphite pencil.

19. TROUBLESHOOTING

If the trouble is isolated to the telephone set, use the applicable wiring diagram (fig. 19 through 34) and the following troubleshooting table to locate and correct the fault.

TROUBLESHOOTING TABLE

Trouble	Probable Cause	Corrective Measure
Bell Does Not Ring	Ringer incorrectly wired.	Connect correctly.
	Volume control wheel in cut-off position.	Move control wheel to ring position.
	Open winding.	Replace ringer.

TROUBLESHOOTING TABLE (cont)

Trouble	Probable Cause	Corrective Measure
Bell Does Not Ring (cont)	Metal particles in armature gap.	Remove with Scotch tape or approved equivalent.
	Open tube.	Short circuit yellow and black leads of tube; if ringer operates when ringing voltage of correct polarity is applied, replace tube.
	Open capacitor.	Bridge terminals A and K of network with a 0.45 μf capacitor.
Bell Too Loud	Volume control wheel in wrong position.	Move control wheel to most favorable position and instruct customer on proper use.
Bell Not Loud Enough	Telephone on sound-absorbent material.	Place telephone on hard surface.
	Cord touching gong.	Dress cord properly.
Bell Taps While Dialing or Operating Switch	Incorrect Wiring.	Check mounting cord and ringer connections.
	Gong loose.	Tighten screw.
	Bias tension too low.	Place biasing spring in high-tension notch. If bell still taps, replace ringer.
Bell Rings When Other Party Is Called, Cross Ring, or False Ring	Incorrect Wiring.	Check mounting cord and ringer connections.
	Bias tension too low.	Place biasing spring in high-tension notch. If ringer still cross-rings, replace ringer.
Bell Keeps Ringing When Handset is Removed From Cradle	Open handset cord or open dial pulse contacts.	Replace handset cord or dial.
	Open in network.	Replace network.
	Open set wiring.	Replace wiring.

TROUBLESHOOTING TABLE (cont)

Trouble	Probable Cause	Corrective Measure
Bell Keeps Ringing When Handset is Removed from Cradle (cont)	Line contacts on hookswitch do not close.	Check hookswitch cover for interference.
No Dial Tone or Set Dead	Open mounting cord or handset cord.	Replace cord.
	Defective receiver unit or shorted varistor.	Replace receiver unit.
	Dial pulse contacts do not close,or off-normal shunt contacts do not open.	Replace dial.
	Open in network.	Replace network.
	Hookswitch contacts do not operate.	Check hookswitch cover for interference.
Cannot Break Dial Tone	Dial pulse contacts do not open.	Replace dial.
	Dial filter capacitor shorted.	Replace network.
Loud Clicks While Dialing.	Dial off-normal shunt contacts do not close.	Adjust or replace dial.
Cannot Hear	Open or shorted receiver unit or handset cord.	Replace receiver unit or handset cord.
	Dial off-normal shunt contacts do not open.	Replace dial.
	Open in network.	Replace network.
	Hookswitch receiver contacts do not open.	Check hookswitch cover for interference.
Distant Party Cannot Hear	Defective transmitter or handset cord open.	Replace transmitter or handset cord.
High Sidetone	Defective sidetone balancing network.	Replace network.

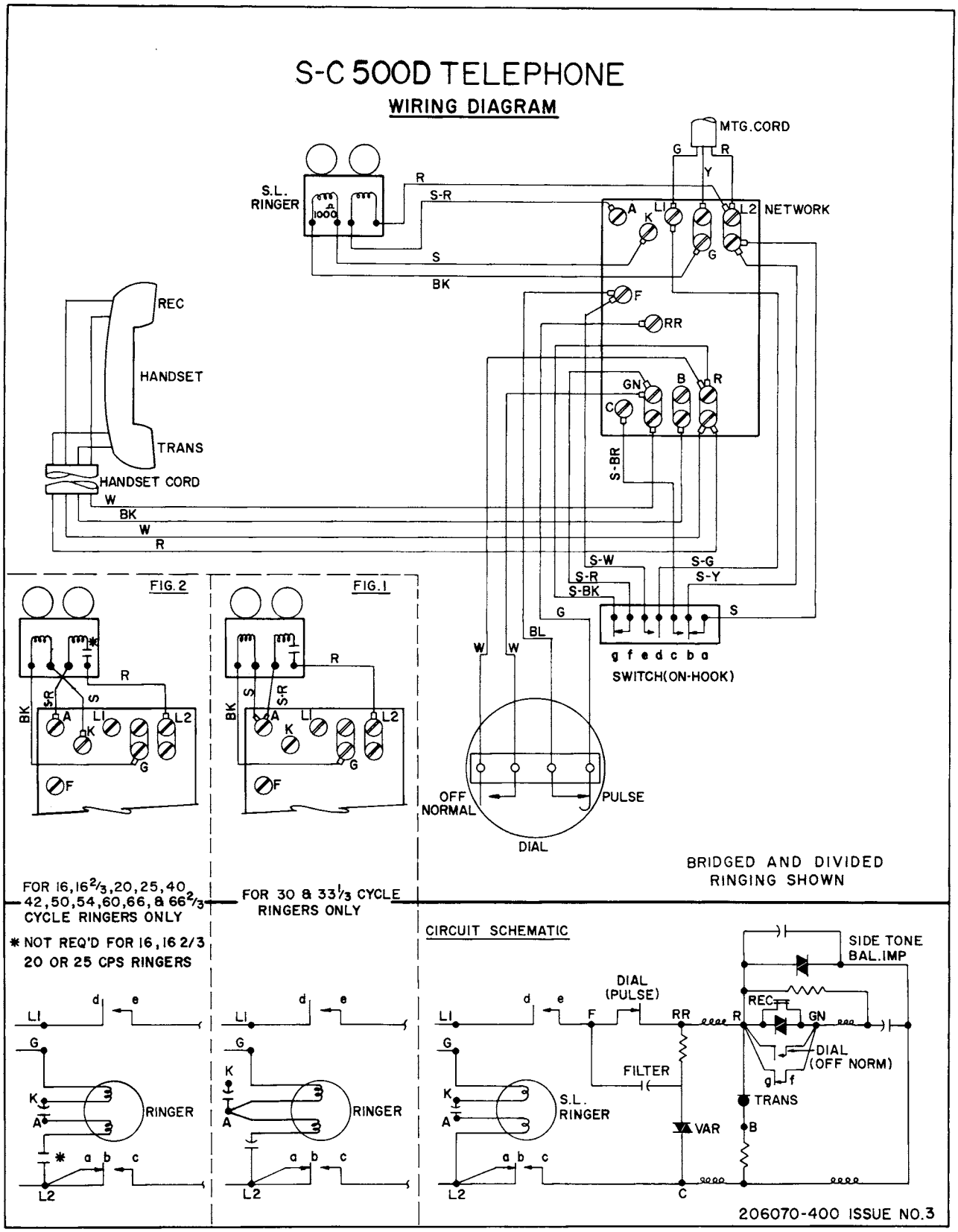


Figure 19. S-C 500D Telephone, Wiring Diagram (sheet 1 of 2).

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT CONNECTING BLOCK						CONNECTIONS AT NETWORK											
	LINE			MTG CORD			MTG CORD			STRAIGHT LINE RINGER LEADS				30 & 33⅓ RINGER LEADS				ALL OTHER FREQ RINGER LEADS			
	RING	TIP	GND	R	G	Y	R	G	Y	R	BK	S	S-R	R	BK	S	S-R	R	BK	S	S-R
BRIDGED	R	G	Y	R	G	G	L2	LI	G	L2	G	K	A	L2	G	A	A	L2	G	K	A
RING PARTY	R	G	Y	R	G	Y	L2	LI	G	L2	G	K	A	L2	G	A	A	L2	G	K	A
TIP PARTY (EXCEPT DIAL MESSAGE RATE)	R	G	Y	G	R	Y	L2	LI	G	L2	G	K	A	L2	G	A	A	L2	G	K	A
TIP PARTY (DIAL MESSAGE RATE) 'AMA'	R	G	Y	G	R	Y	L2	LI	G	K	G	B	B	A	G	B	B	K	G	B	B
AUTOMATIC TICKETING 'AT'	R	G	Y	G	R	Y	L2	LI	G	B	B	K	G	—	—	—	—	—	—	—	—
FOUR PARTY IDENTIFICATION	R	G	Y	SEE NOTE 7		Y	L2	LI	G	—	—	—	—	A	G	SEE NOTE 7		K	G	SEE NOTE 7	

NOTES:

1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK & ADAPTOR AND TRANSFER SLATE-WHITE SWITCH LEAD FROM TERMINAL (F) TO TERMINAL (RR) ON NETWORK.
2. WHEN GOING OFF HOOK, SWITCH CONTACT gf BREAKS LAST.
3. FOR POLARIZED RINGING PARTY LINES (SUPERIMPOSED RINGING) WITH 426A OR 425A TUBES, SEE WIRING DIAGRAM 200843-100.
4. CONNECTIONS FOR BRIDGED AND RING PARTIES ARE FOR FLAT AND MESSAGE RATE SERVICE.
5. FOR TIP PARTY DIAL MESSAGE RATE SERVICE, 'AMA':
   a. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
6. FOR AUTOMATIC TICKETING 'AT' SERVICE: (FOR STRAIGHT LINE RINGER ONLY).
   a. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
7. FOR FOUR PARTY IDENTIFICATION SERVICE (WITH FREQUENCY RINGER ONLY) CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINAL (B) AND SLATE-RED AND SLATE LEADS OF RINGER. IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206287-841.
8. TO PERMANENTLY SILENCE RINGERS:
   a. FOR ALL SERVICES EXCEPT TIP PARTY DIAL MESSAGE RATE AND AUTOMATIC TICKETING TRANSFER BLACK RINGER LEAD TO (A) TERMINAL OF NETWORK.
   b. FOR TIP PARTY DIAL MESSAGE RATE, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   c. FOR AUTOMATIC TICKETING WITH STRAIGHT LINE RINGER, TRANSFER BLACK RINGER LEAD TO (K) TERMINAL OF NETWORK. SLATE-RED LEAD TO (G) AND RED LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   d. FOR FOUR PARTY IDENTIFICATION, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO IDENTIFICATION ASSEMBLY MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
9. RINGER CUT-OFF CONTROL BY CUSTOMER ON STRAIGHT LINE RINGER:
   a. 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.

Figure 19. S-C 500D Telephone, Wiring Diagram (sheet 2 of 2).

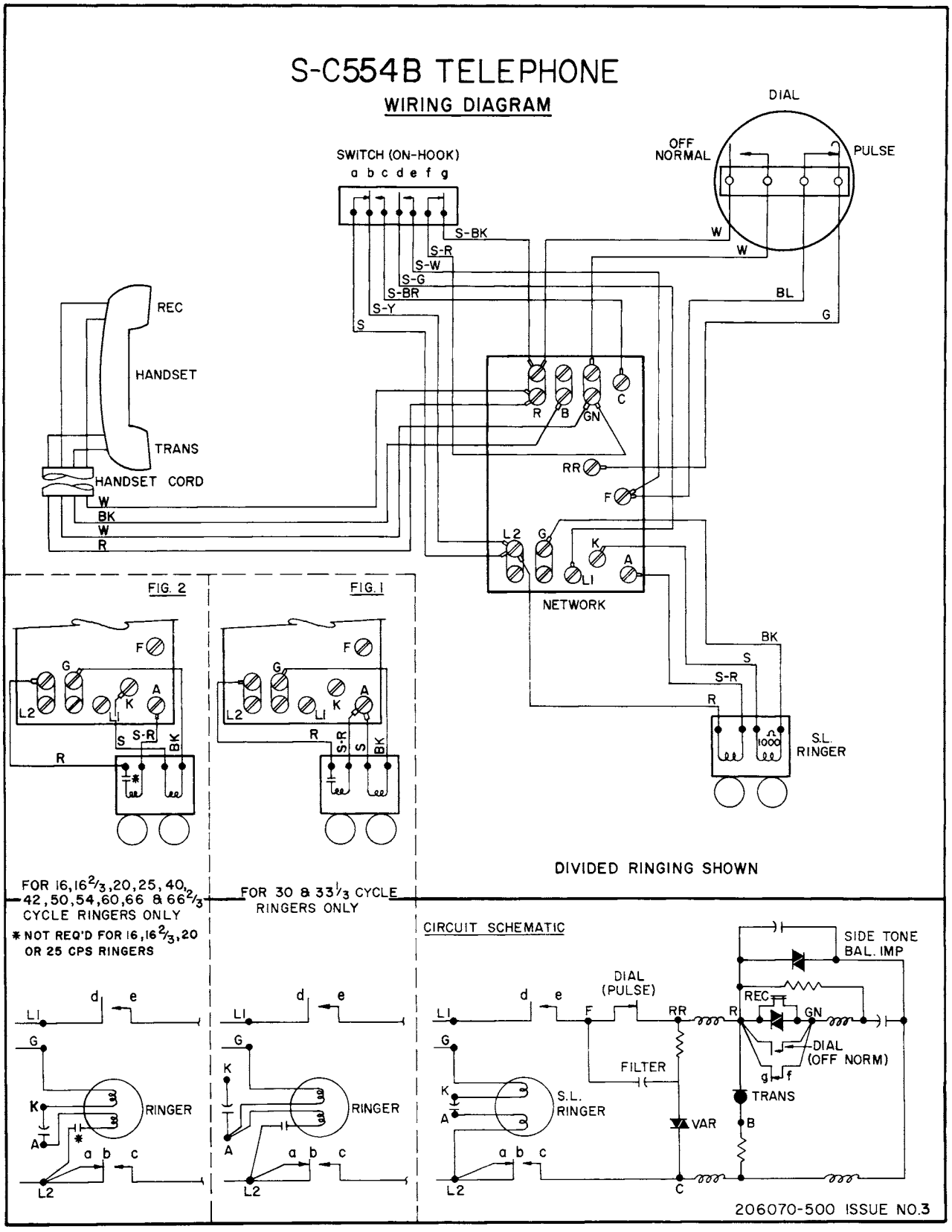


Figure 20. S-C 554B Telephone, Wiring Diagram (sheet 1 of 2).

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT CONNECTING BLOCK						CONNECTIONS AT NETWORK											
	LINE			MTG CORD			MTG CORD			STRAIGHT LINE RINGER LEADS				30 & 33⅓ RINGER LEADS				ALL OTHER FREQ RINGER LEADS			
	RING	TIP	GND	R	G	Y	R	G	Y	R	BK	S	S-R	R	BK	S	S-R	R	BK	S	S-R
BRIDGED	R	G	Y	R	G	G	L2	LI	G	L2	G	K	A	L2	G	A	A	L2	G	K	A
RING PARTY	R	G	Y	R	G	Y	L2	LI	G	L2	G	K	A	L2	G	A	A	L2	G	K	A
TIP PARTY (EXCEPT DIAL MESSAGE RATE)	R	G	Y	G	R	Y	L2	LI	G	L2	G	K	A	L2	G	A	A	L2	G	K	A
TIP PARTY (DIAL MESSAGE RATE) 'AMA'	R	G	Y	G	R	Y	L2	LI	G	K	G	B	B	A	G	B	B	K	G	B	B
AUTOMATIC TICKETING 'AT'	R	G	Y	G	R	Y	L2	LI	G	B	B	K	G	—	—	—	—	—	—	—	—
FOUR PARTY IDENTIFICATION	R	G	Y	SEE NOTE 7		Y	L2	LI	G	—	—	—	—	A	G	SEE NOTE 7		K	G	SEE NOTE 7	

NOTES:

1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK & ADAPTOR AND TRANSFER SLATE-WHITE SWITCH LEAD FROM TERMINAL (F) TO TERMINAL (RR) ON NETWORK.
2. WHEN GOING OFF HOOK, SWITCH CONTACT gf BREAKS LAST.
3. FOR POLARIZED RINGING PARTY LINES (SUPERIMPOSED RINGING) WITH 426A OR 425A TUBES, SEE WIRING DIAGRAM 200843-100.
4. CONNECTIONS FOR BRIDGED AND RING PARTIES ARE FOR FLAT AND MESSAGE RATE SERVICE.
5. FOR TIP PARTY DIAL MESSAGE RATE SERVICE, 'AMA':
   a. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
6. FOR AUTOMATIC TICKETING 'AT' SERVICE: (FOR STRAIGHT LINE RINGER ONLY).
   a. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
7. FOR FOUR PARTY IDENTIFICATION SERVICE (WITH FREQUENCY RINGER ONLY) CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINAL (B) AND SLATE-RED AND SLATE LEADS OF RINGER, IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206287-841.
8. TO PERMANENTLY SILENCE RINGERS:
   a. FOR ALL SERVICES EXCEPT TIP PARTY DIAL MESSAGE RATE AND AUTOMATIC TICKETING TRANSFER BLACK RINGER LEAD TO (A) TERMINAL OF NETWORK.
   b. FOR TIP PARTY DIAL MESSAGE RATE, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   c. FOR AUTOMATIC TICKETING WITH STRAIGHT LINE RINGER, TRANSFER BLACK RINGER LEAD TO (K) TERMINAL OF NETWORK. SLATE-RED LEAD TO (G) AND RED LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   d. FOR FOUR PARTY IDENTIFICATION, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO IDENTIFICATION ASSEMBLY MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
9. RINGER CUT-OFF CONTROL BY CUSTOMER ON STRAIGHT LINE RINGER:
   a. 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.

Figure 19. S-C 500D Telephone, Wiring Diagram (sheet 2 of 2).

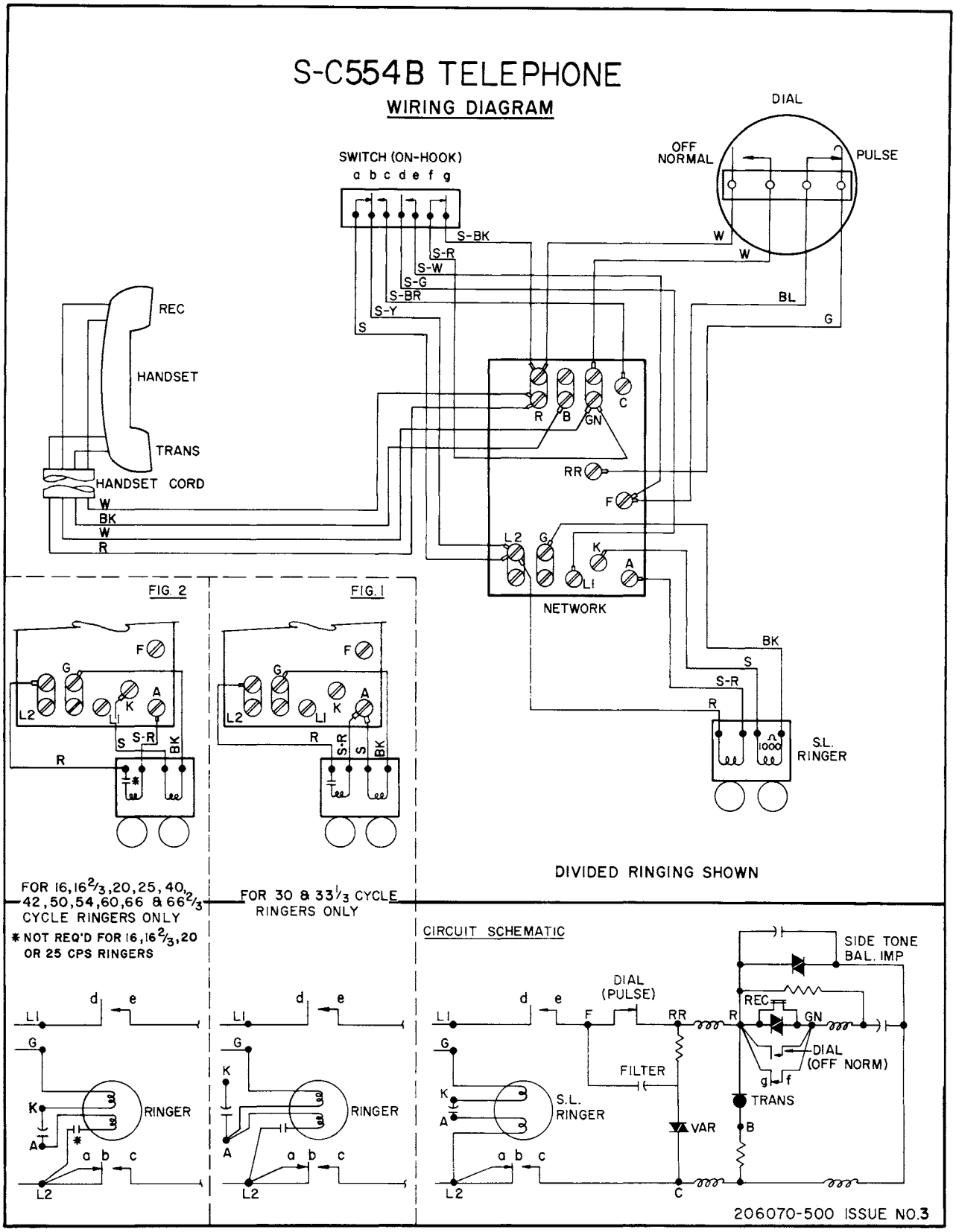


Figure 20. S-C 554B Telephone, Wiring Diagram (sheet 1 of 2).

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT NETWORK															
	LINE			STRAIGHT LINE RINGER LEADS				30 & 33⅓ RINGER LEADS				ALL OTHER FREQ. RINGER LEADS			
	RING	TIP	GND	R	BK	S	S-R	R	BK	S	S-R	R	BK	S	S-R
BRIDGED	L2	L1	G	L2	L1	K	A	L2	L1	A	A	L2	L1	K	A
RING PARTY	L2	L1	G	L2	G	K	A	L2	G	A	A	L2	G	K	A
TIP PARTY (EXCEPT DIAL MESSAGE RATE)	L1	L2	G	L2	G	K	A	L2	G	A	A	L2	G	K	A
TIP PARTY (DIAL MESSAGE RATE) 'AMA'	L1	L2	G	K	G	B	B	A	G	B	B	K	G	B	B
AUTOMATIC TICKETING 'AT'	L1	L2	G	B	B	K	G	—	—	—	—	—	—	—	—
FOUR PARTY IDENTIFICATION	SEE NOTE 7		G	—	—	—	—	A	G	SEE NOTE 7		K	G	SEE NOTE 7	

NOTES:

1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK & ADAPTOR AND TRANSFER SLATE-WHITE SWITCH LEAD FROM TERMINAL (F) TO TERMINAL (RR) ON NETWORK
2. WHEN GOING OFF HOOK, SWITCH CONTACT gf BREAKS LAST.
3. FOR POLARIZED RINGING PARTY LINES (SUPERIMPOSED RINGING) WITH 426A OR 425A TUBES, SEE WIRING DIAGRAM 200844-100
4. CONNECTIONS FOR BRIDGED AND RING PARTIES ARE FOR FLAT AND MESSAGE RATE SERVICE.
5. FOR TIP PARTY DIAL MESSAGE RATE SERVICE, 'AMA':
   a. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
6. FOR AUTOMATIC TICKETING 'AT' SERVICE (FOR STRAIGHT LINE RINGER ONLY).
   a. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
7. FOR FOUR PARTY IDENTIFICATION SERVICE (FOR FREQUENCY RINGER ONLY) CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINAL (B) AND SLATE-RED AND SLATE LEADS OF RINGER. IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206287-841
8. TO PERMANENTLY SILENCE RINGERS:
   a. FOR ALL SERVICES EXCEPT TIP PARTY DIAL MESSAGE RATE AND AUTOMATIC TICKETING, TRANSFER BLACK RINGER LEAD TO (A) TERMINAL OF NETWORK.
   b. FOR TIP PARTY DIAL MESSAGE RATE, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   c. FOR AUTOMATIC TICKETING WITH STRAIGHT LINE RINGER, TRANSFER BLACK RINGER LEAD TO (K) TERMINAL OF NETWORK. SLATE-RED LEAD TO (G) AND RED LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   d. FOR FOUR PARTY IDENTIFICATION, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO IDENTIFICATION ASSEMBLY MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
9. RINGER CUT-OFF CONTROL BY CUSTOMER ON STRAIGHT LINE RINGER:
   a. 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.

Figure 20. S-C 554B Telephone, Wiring Diagram (sheet 2 of 2).

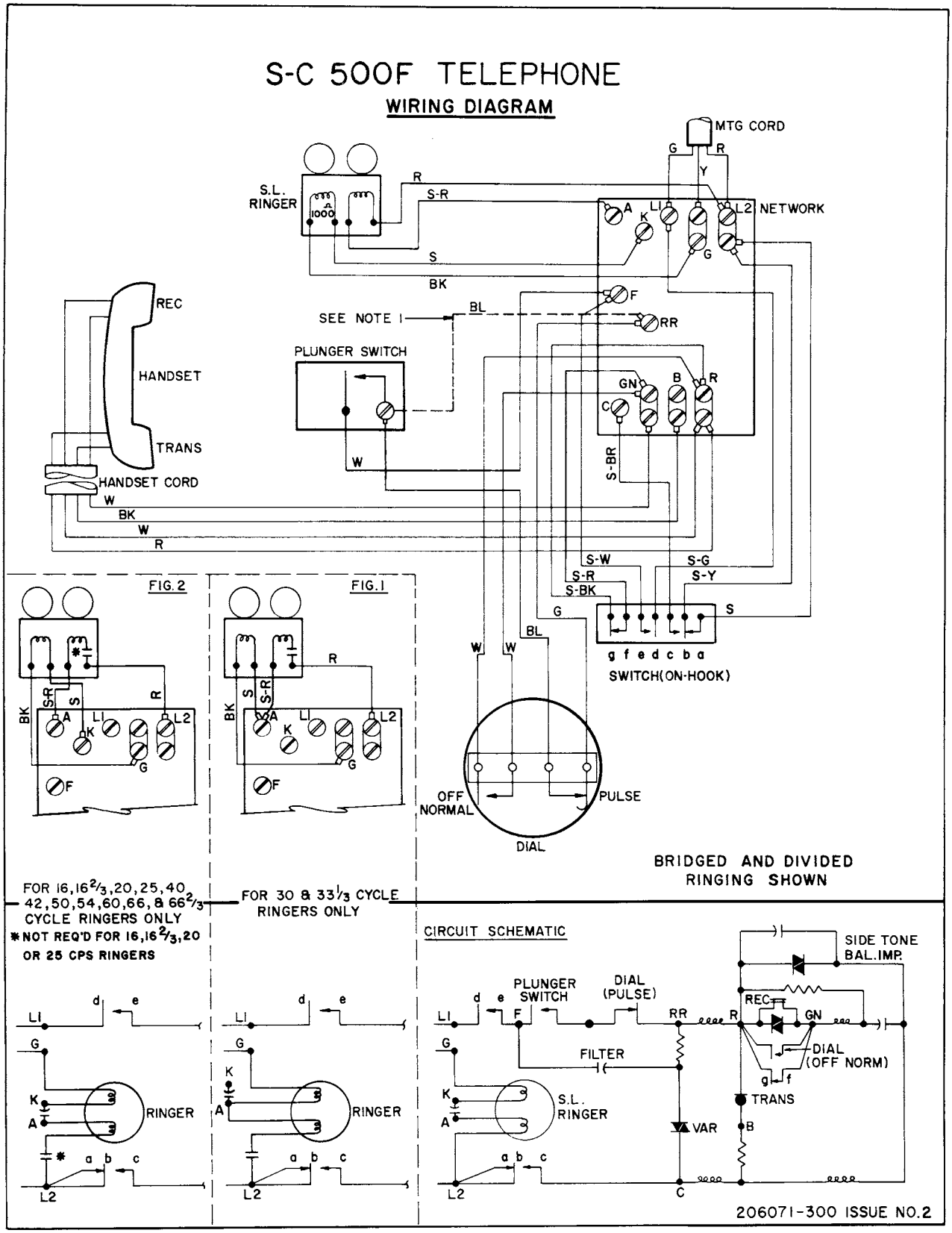


Figure 21. S-C 500F Telephone, Wiring Diagram (sheet 1 of 2).

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT CONNECTING BLOCK						CONNECTIONS AT NETWORK													
	LINE			MTG CORD			MTG CORD			STRAIGHT LINE RINGER LEADS				30 & 33 1/3 RINGER LEADS				ALL OTHER FREQ RINGER LEADS			
	RING	TIP	GND	R	G	Y	R	G	Y	R	BK	S	S-R	R	BK	S	S-R	R	BK	S	S-R
BRIDGED	R	G	Y	R	G	G	L2	LI	G	L2	G	K	A	L2	G	A	A	L2	G	K	A
RING PARTY	R	G	Y	R	G	Y	L2	LI	G	L2	G	K	A	L2	G	A	A	L2	G	K	A
TIP PARTY (EXCEPT DIAL MESSAGE RATE)	R	G	Y	G	R	Y	L2	LI	G	L2	G	K	A	L2	G	A	A	L2	G	K	A
TIP PARTY (DIAL MESSAGE RATE) 'AMA'	R	G	Y	G	R	Y	L2	LI	G	K	G	B	B	A	G	B	B	K	G	B	B
AUTOMATIC TICKETING 'AT'	R	G	Y	G	R	Y	L2	LI	G	B	B	K	G	–	–	–	–	–	–	–	–
FOUR PARTY IDENTIFICATION	R	G	Y	SEE NOTE 7		Y	L2	LI	G	–	–	–	–	A	G	SEE NOTE 7		K	G	SEE NOTE 7	

NOTES:

1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK AND ADAPTOR, REMOVE SLEEVE FROM BL PLUNGER SWITCH LEAD AND CONNECT TO TERMINAL (RR) ON NETWORK.
2. WHEN GOING OFF HOOK, SWITCH CONTACT gf BREAKS LAST.
3. FOR POLARIZED RINGING PARTY LINES (SUPERIMPOSED RINGING) WITH 426A OR 425A TUBES, SEE WIRING DIAGRAM 200843-100.
4. CONNECTIONS FOR BRIDGED AND RING PARTIES ARE FOR FLAT AND MESSAGE RATE SERVICE.
5. FOR TIP PARTY DIAL MESSAGE RATE SERVICE, 'AMA':
   A. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
6. FOR AUTOMATIC TICKETING 'AT' SERVICE: (FOR STRAIGHT LINE RINGER ONLY).
   A. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
7. FOR FOUR PARTY IDENTIFICATION SERVICE (WITH FREQUENCY RINGER ONLY) CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINAL (B) AND SLATE-RED AND SLATE LEADS OF RINGER, IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206287-841.
8. TO PERMANENTLY SILENCE RINGERS:
   A. FOR ALL SERVICES EXCEPT TIP PARTY DIAL MESSAGE RATE AND AUTOMATIC TICKETING TRANSFER BLACK RINGER LEAD TO (A) TERMINAL OF NETWORK.
   B. FOR TIP PARTY DIAL MESSAGE RATE, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   C. FOR AUTOMATIC TICKETING WITH STRAIGHT LINE RINGER, TRANSFER BLACK RINGER LEAD TO (K) TERMINAL OF NETWORK. SLATE-RED LEAD TO (G) AND RED LEAD TO (S) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   D. FOR FOUR PARTY IDENTIFICATION, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO IDENTIFICATION ASSEMBLY MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
9. RINGER CUT-OFF CONTROL BY CUSTOMER ON STRAIGHT LINE RINGER:
   A. 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.

Figure 21. S-C 500F Telephone, Wiring Diagram (sheet 2 of 2).

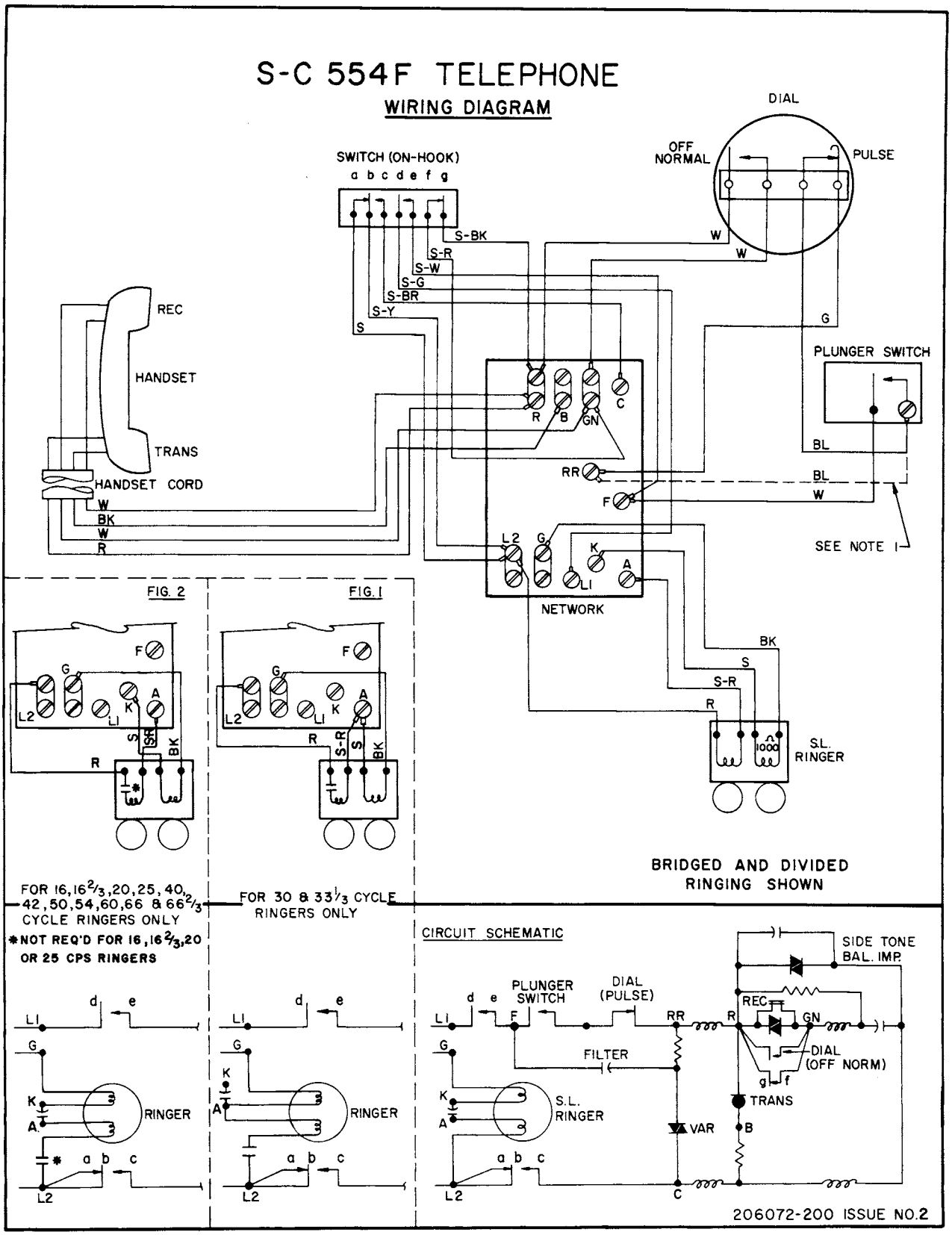


Figure 22. S-C 554F Telephone, Wiring Diagram (sheet 1 of 2).

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT NETWORK															
	LINE			STRAIGHT LINE RINGER LEADS				30 & 33⅓ RINGER LEADS				ALL OTHER FREQ RINGER LEADS			
	R	G	Y	R	BK	S	S-R	R	BK	S	S-R	R	BK	S	S-R
BRIDGED	L2	LI	G	L2	LI	K	A	L2	LI	A	A	L2	LI	K	A
RING PARTY	L2	LI	G	L2	G	K	A	L2	G	A	A	L2	G	K	A
TIP PARTY (EXCEPT DIAL MESSAGE RATE)	LI	L2	G	L2	G	K	A	L2	G	A	A	L2	G	K	A
TIP PARTY (DIAL MESSAGE RATE) 'AMA'	LI	L2	G	K	G	B	B	A	G	B	B	K	G	B	B
AUTOMATIC TICKETING 'AT'	LI	L2	G	B	B	K	G	—	—	—	—	—	—	—	—
FOUR PARTY IDENTIFICATION	SEE NOTE 7		G	—	—	—	—	A	G	SEE NOTE 7		K	G	SEE NOTE 7	

NOTES:

1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK AND ADAPTOR, REMOVE SLEEVE FROM BL PLUNGER SWITCH LEAD AND CONNECT TO TERMINAL (RR) ON NETWORK.
2. WHEN GOING OFF HOOK, SWITCH CONTACT gf BREAKS LAST.
3. FOR POLARIZED RINGING PARTY LINES (SUPERIMPOSED RINGING) WITH 426A OR 425A TUBES, SEE WIRING DIAGRAM 200844-100
4. CONNECTIONS FOR BRIDGED AND RING PARTIES ARE FOR FLAT AND MESSAGE RATE SERVICE.
5. FOR TIP PARTY DIAL MESSAGE RATE SERVICE, 'AMA':
   A. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
6. FOR AUTOMATIC TICKETING 'AT' SERVICE (FOR STRAIGHT LINE RINGER ONLY).
   A. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
7. FOR FOUR PARTY IDENTIFICATION SERVICE (FOR FREQUENCY RINGER ONLY) CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINAL (B) AND SLATE-RED AND SLATE LEADS OF RINGER. IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206287-841.
8. TO PERMANENTLY SILENCE RINGERS:
   A. FOR ALL SERVICES EXCEPT TIP PARTY DIAL MESSAGE RATE AND AUTOMATIC TICKETING, TRANSFER BLACK RINGER LEAD TO (A) TERMINAL OF NETWORK.
   B. FOR TIP PARTY DIAL MESSAGE RATE, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   C. FOR AUTOMATIC TICKETING WITH STRAIGHT LINE RINGER, TRANSFER BLACK RINGER LEAD TO (K) TERMINAL OF NETWORK. SLATE-RED LEAD TO (G) AND RED LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   D. FOR FOUR PARTY IDENTIFICATION, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO IDENTIFICATION ASSEMBLY MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
9. RINGER CUT-OFF CONTROL BY CUSTOMER ON STRAIGHT LINE RINGER:
   A. 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.

Figure 22. S-C 554F Telephone, Wiring Diagram (sheet 2 of 2).

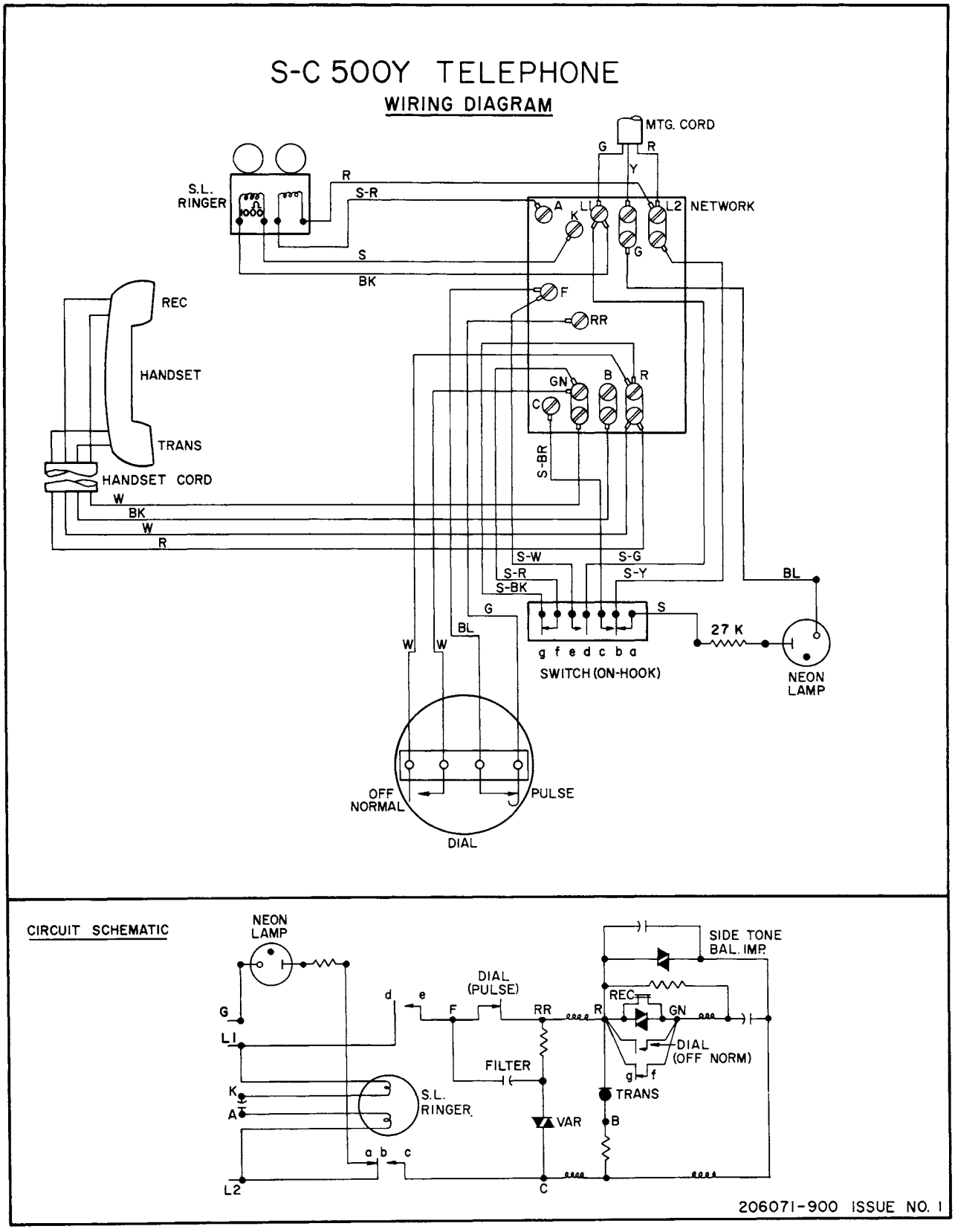


Figure 23. S-C 500Y Telephone, Wiring Diagram (sheet 1 of 2).

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT CONNECTING BLOCK						CONNECTIONS AT NETWORK							
	LINE			MTG CORD			MTG CORD			STRAIGHT LINE RINGER LEADS				
	RING	TIP	GND	R	G	Y	R	G	Y	R	BK	S	S-R	
2 WIRE	R	G	Y	R	G	G	L2	LI	G	L2	LI	K	A	
3 WIRE	R	G	Y	R	G	Y	L2	LI	G	L2	LI	K	A	

NOTES:

1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK & ADAPTOR AND TRANSFER SLATE-WHITE SWITCH LEAD FROM TERMINAL (F) TO TERMINAL (RR) ON NETWORK.
2. WHEN GOING OFF HOOK, SWITCH CONTACT gf BREAKS LAST.
3. TO PERMANENTLY SILENCE RINGER FOR ALL SERVICES, TRANSFER BLACK RINGER LEAD TO (A) TERMINAL OF NETWORK.
4. RINGER CUT-OFF CONTROL BY CUSTOMER ON STRAIGHT LINE RINGER:
   a. 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.

Figure 23. S-C 500Y Telephone, Wiring Diagram (sheet 2 of 2).

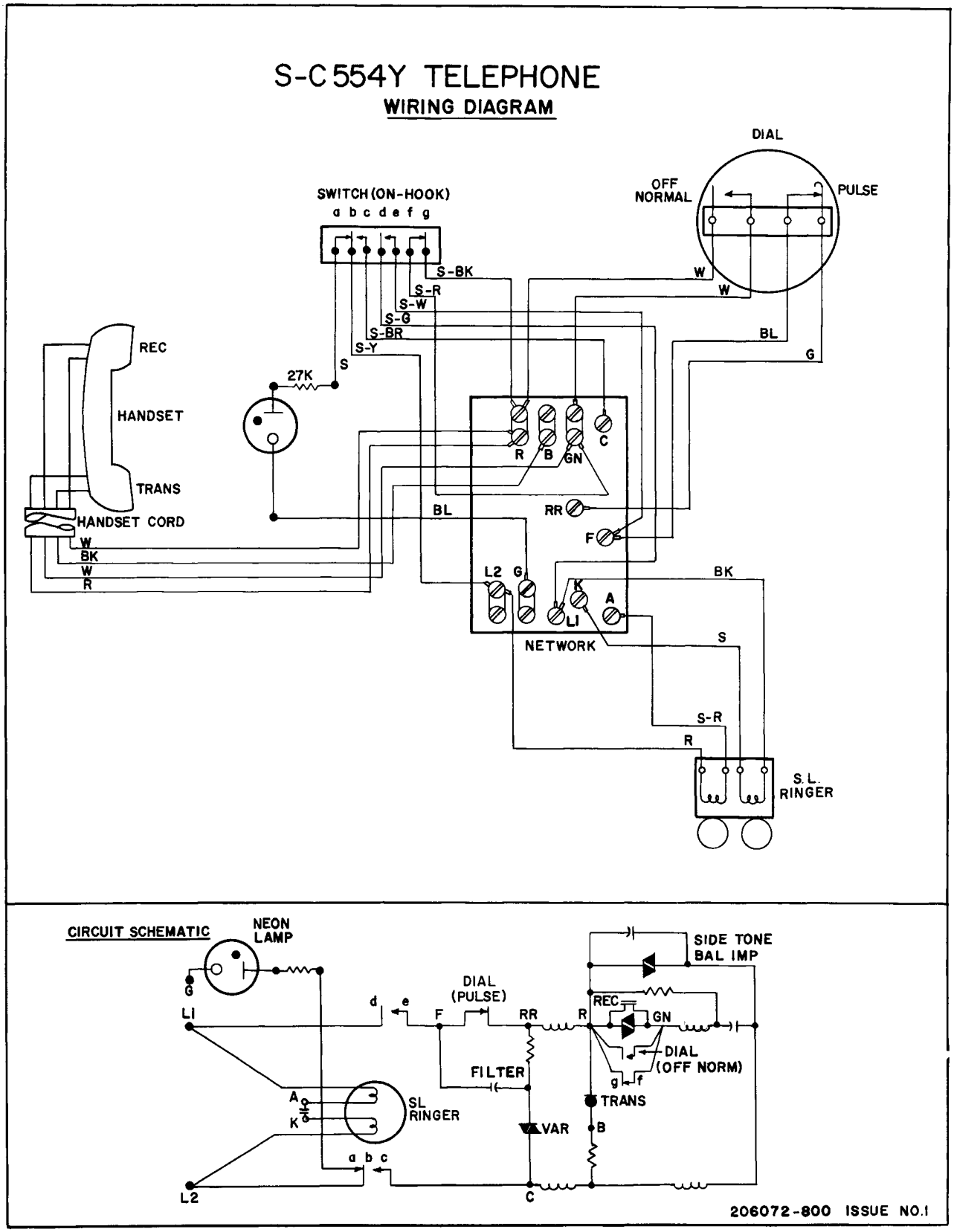


Figure 24. S-C 554Y Telephone, Wiring Diagram (sheet 1 of 2).

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT NETWORK						
	LINE			STRAIGHT LINE RINGER LEADS			
	RING	TIP	GRD	R	BK	S	S-R
2 WIRE	L2	LI	*	L2	LI	K	A
3 WIRE	L2	LI	G	L2	LI	K	K

* STRAP G AND LI ON NETWORK

NOTES:

1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK AND TRANSFER SLATE-WHITE SWITCH LEAD FROM TERMINAL (F) TO TERMINAL (RR) ON NETWORK.
2. WHEN GOING OFF HOOK, SWITCH CONTACT 9f BREAKS LAST.
3. TO PERMANENTLY SILENCE RINGER FOR ALL SERVICES, TRANSFER BLACK RINGER LEAD TO (A) TERMINAL OF NETWORK.
4. 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.

Figure 24. S-C 554Y Telephone, Wiring Diagram (sheet 2 of 2).

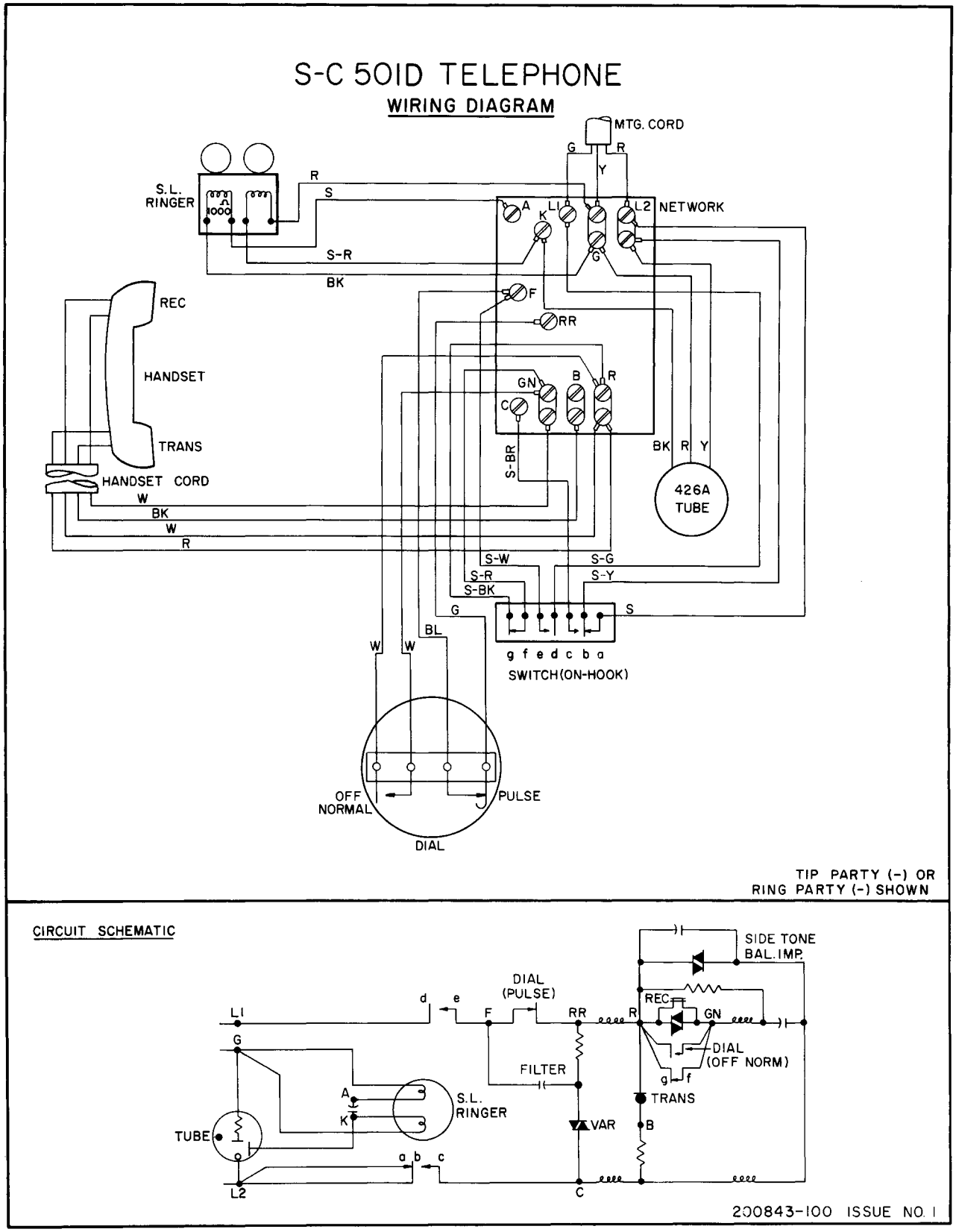


Figure 25. S-C 501D Telephone, Wiring Diagram (sheet 1 of 2).

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT CONNECTING BLOCK						CONNECTIONS AT NETWORK											
	LINE			MTG CORD			MTG CORD			STRAIGHT LINE RINGER LEADS				426A TUBE LEADS			425A TUBE LEADS			
	RING	TIP	GND	R	G	Y	R	G	Y	R	BK	S	S-R	Y	BK	R	Y	BK	R	G
TIP PARTY (+)	R	G	Y	G	R	Y	L2	LI	G	L2	L2	A	K	G	K	L2	G	K	L2	LI
TIP PARTY (−)	R	G	Y	G	R	Y	L2	LI	G	G	G	A	K	L2	K	G	L2	K	LI	L2
RING PARTY (+)	R	G	Y	R	G	Y	L2	LI	G	L2	L2	A	K	G	K	L2	G	K	L2	LI
RING PARTY (−)	R	G	Y	R	G	Y	L2	LI	G	G	G	A	K	L2	K	G	L2	K	LI	L2

NOTES:

1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK & ADAPTOR AND TRANSFER SLATE-WHITE SWITCH LEAD FROM TERMINAL (F) TO TERMINAL (RR) ON NETWORK.
2. WHEN GOING OFF HOOK, SWITCH CONTACT gf BREAKS LAST.
3. FOR NO LINE INDUCTION SERVICE, USE 426A TUBE.
4. FOR SEVERE LINE INDUCTION SERVICE, USE 425A TUBE.
5. FOR AVERAGE LINE INDUCTION SERVICE ON POSITIVE TIP AND RING PARTIES, USE 425A TUBE.
6. FOR AVERAGE LINE INDUCTION SERVICE ON NEGATIVE TIP AND RING PARTIES, USE 426A TUBE AND MOVE RED TUBE LEAD FROM (G) TO (LI).
7. 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.

Figure 25. S-C 501D Telephone, Wiring Diagram (sheet 2 of 2).

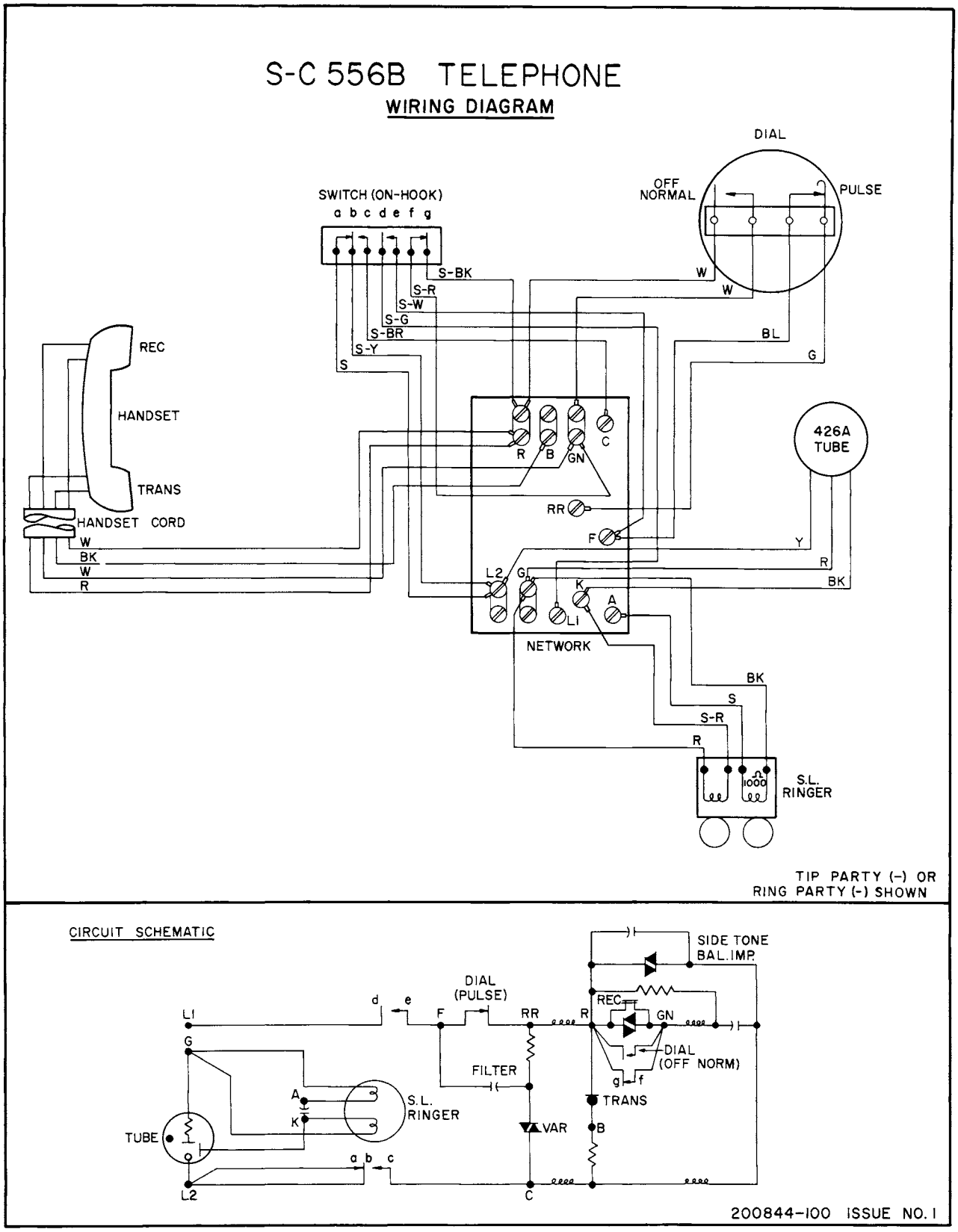


Figure 26. S-C 556B Telephone, Wiring Diagram (sheet 1 of 2).

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT NETWORK													
	LINE			STRAIGHT LINE RINGER LEADS				426A TUBE LEADS			425A TUBE LEADS			
	RING	TIP	GND	R	BK	S	S-R	Y	BK	R	Y	BK	R	G
TIP PARTY (+)	LI	L2	G	L2	L2	A	K	G	K	L2	G	K	L2	LI
TIP PARTY (–)	LI	L2	G	G	G	A	K	L2	K	G	L2	K	LI	L2
RING PARTY (+)	L2	LI	G	L2	L2	A	K	G	K	L2	G	K	L2	LI
RING PARTY (–)	L2	LI	G	G	G	A	K	L2	K	G	L2	K	LI	L2

NOTES:

1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK & ADAPTOR AND TRANSFER SLATE-WHITE SWITCH LEAD FROM TERMINAL (F) TO TERMINAL (RR) ON NETWORK.
2. WHEN GOING OFF HOOK, SWITCH CONTACT gf BREAKS LAST.
3. FOR NO LINE INDUCTION SERVICE, USE 426A TUBE.
4. FOR SEVERE LINE INDUCTION SERVICE, USE 425A TUBE.
5. FOR AVERAGE LINE INDUCTION SERVICE ON POSITIVE TIP AND RING PARTIES, USE 425A TUBE.
6. FOR AVERAGE LINE INDUCTION SERVICE ON NEGATIVE TIP AND RING PARTIES, USE 426A TUBE AND MOVE RED TUBE LEAD FROM (G) TO (LI).
7. 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.

Figure 26. S-C 556B Telephone, Wiring Diagram (sheet 2 of 2).

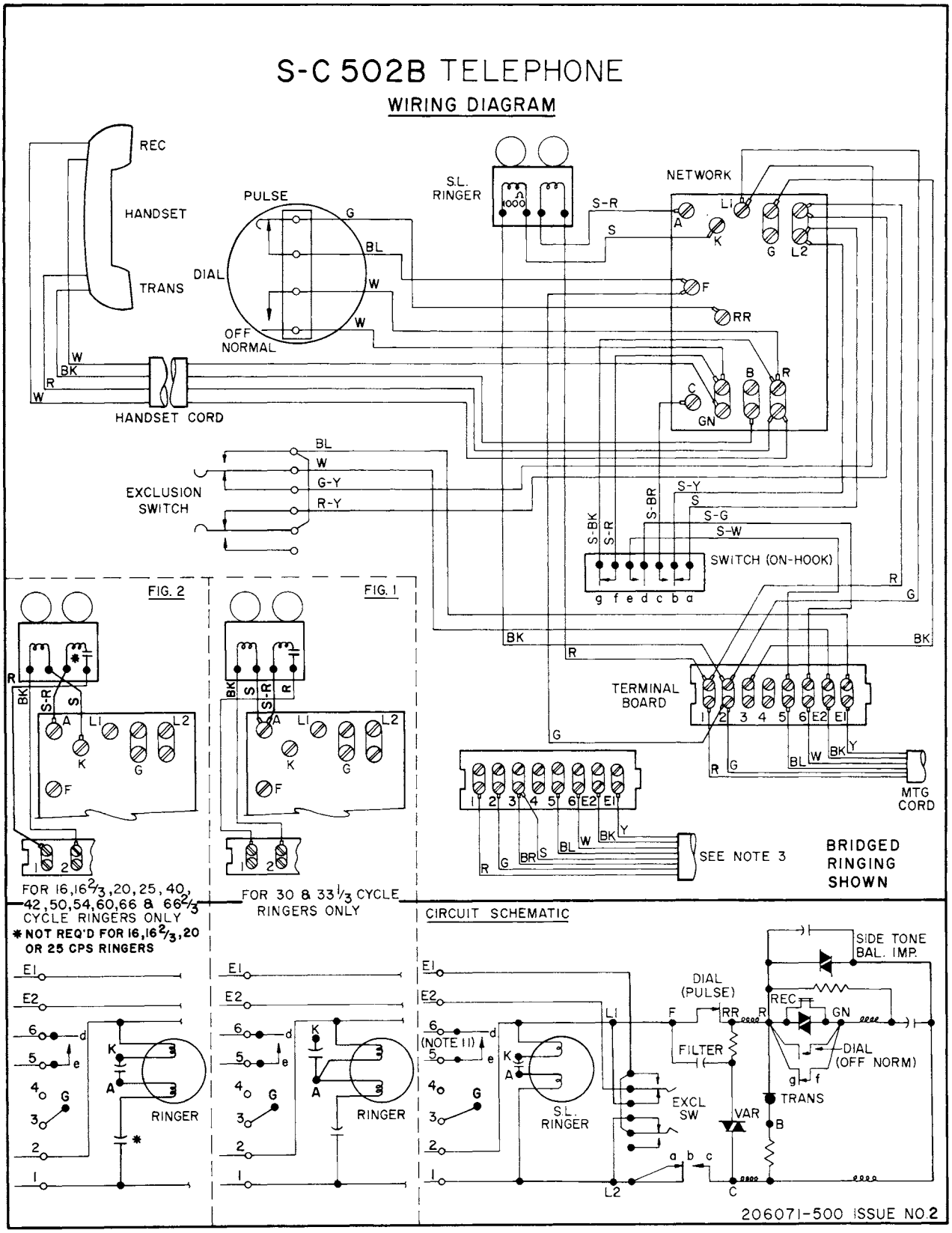


Figure 27. S-C 502B Telephone, Wiring Diagram (sheet 1 of 2).

MTG CORD LEAD DESIGNATIONS

LINE DESIGNATION	RING	TIP	'A' LEAD CONTROL		EXTENSION TIP	EXTENSION RING	EARTH GRD	
MTG CORD	R	G	BL	WH	BK	Y	SL	BR

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT NETWORK OR TERMINAL STRIP																			
	MTG CORD								STRAIGHT LINE RINGER LEADS				30 & 33⅓ RINGER LEADS				ALL OTHER FREQ RINGER LEADS			
	R	G	BL	W	BK	Y	S	BR	R	BK	S	S-R	R	BK	S	S-R	R	BK	S	S-R
BRIDGED	1	2	5	6	E2	E1	-	-	1	2	K	A	1	2	A	A	1	2	K	A
RING PARTY	1	2	5	6	E2	E1	3	3	1	G	K	A	1	G	A	A	1	G	K	A
TIP PARTY (EXCEPT DIAL MESSAGE RATE)	2	1	5	6	E2	E1	3	3	1	G	K	A	1	G	A	A	1	G	K	A
TIP PARTY (DIAL MESSAGE RATE) 'AMA'	2	1	5	6	E2	E1	3	3	K	G	B	B	A	G	B	B	K	G	B	B
AUTOMATIC TICKETING 'AT'	2	1	5	6	E2	E1	3	3	B	B	K	G	–	–	–	–	–	–	–	–
FOUR PARTY IDENTIFICATION	SEE NOTE 8		5	6	E2	E1	3	3	–	–	–	–	A	G	SEE NOTE 8		K	G	SEE NOTE 8	

NOTES:

1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK & ADAPTOR AND TRANSFER GREEN JUMPER LEAD FROM TERMINAL (F) TO TERMINAL (RR) ON NETWORK.
2. WHEN GOING OFF HOOK, SWITCH CONTACT gf BREAKS LAST
3. TELEPHONE NORMALLY FURNISHED WITH A SIX CONDUCTOR MOUNTING CORD AND WIRED FOR BRIDGED CONDITION. WHEN OTHER CLASSES OF SERVICE ARE DESIRED, REQUEST EIGHT CONDUCTOR MOUNTING CORD (200318-706/712). CONNECT EARTH GROUND TO (S) AND (BR) CONDUCTORS ON MOUNTING CORD.
4. FOR POLARIZED RINGING PARTY LINES (SUPERIMPOSED RINGING) WITH 426A OR 425A TUBES, SEE WIRING DIAGRAM 200843-100.
5. CONNECTIONS FOR BRIDGED AND RING PARTIES ARE FOR FLAT AND MESSAGE RATE SERVICE.
6. FOR TIP PARTY DIAL MESSAGE RATE SERVICE, 'AMA':
   A. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
7. FOR AUTOMATIC TICKETING 'AT' SERVICE: (FOR STRAIGHT LINE RINGER ONLY).
   A. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
8. FOR FOUR PARTY IDENTIFICATION SERVICE (WITH FREQUENCY RINGER ONLY) CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINAL (B) AND SLATE-RED AND SLATE LEADS OF RINGER, IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206287-841.
9. TO PERMANENTLY SILENCE RINGERS:
   A. FOR ALL SERVICES EXCEPT TIP PARTY DIAL MESSAGE RATE AND AUTOMATIC TICKETING TRANSFER BLACK RINGER LEAD TO (A) TERMINAL OF NETWORK.
   B. FOR TIP PARTY DIAL MESSAGE RATE, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   C. FOR AUTOMATIC TICKETING WITH STRAIGHT LINE RINGER, TRANSFER BLACK RINGER LEAD TO (K) TERMINAL OF NETWORK. SLATE-RED LEAD TO (G) AND RED LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   D. FOR FOUR PARTY IDENTIFICATION, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO IDENTIFICATION ASSEMBLY MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
10. RINGER CUT-OFF CONTROL BY CUSTOMER ON STRAIGHT LINE RINGER:
    A. 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.
11. (BL) AND (W) CONDUCTORS ON MOUNTING CORD ARE TO BE USED FOR 'A' LEAD CONTROL FOR USE WITH 1A2 SYSTEM OR EQUIVALENT.

Figure 27. S-C 502B Telephone, Wiring Diagram (sheet 2 of 2).

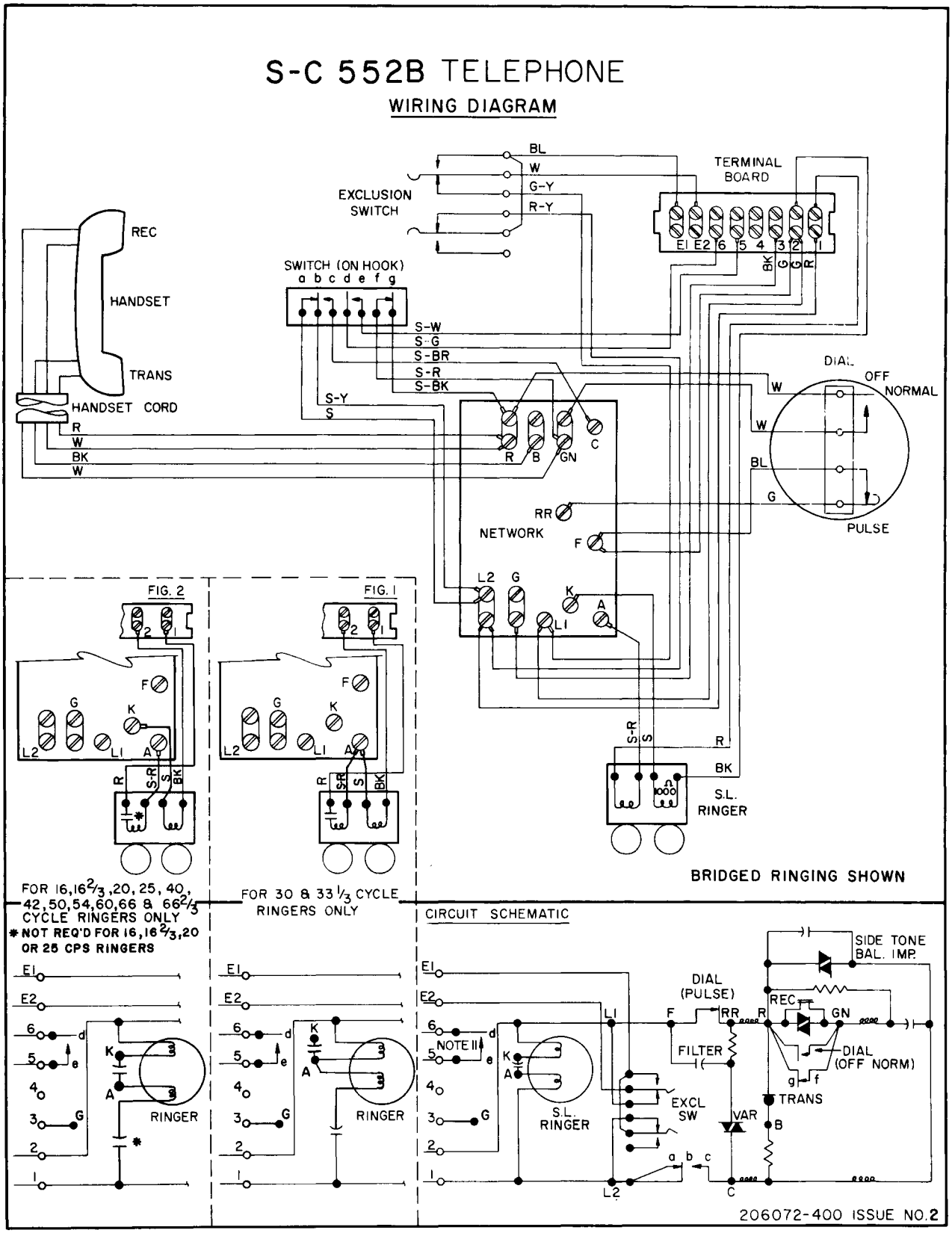


Figure 28. S-C 552B Telephone, Wiring Diagram (sheet 1 of 2).

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT NETWORK OR TERMINAL STRIP																			
	LINE							STRAIGHT LINE RINGER LEADS				30 & 33 1/3 RINGER LEADS				ALL OTHER FREQ RINGER LEADS			
	RING	TIP	'A' LEAD	'A' LEAD	EXT TIP	EXT RING	EARTH GRD	R	BK	S	S-R	R	BK	S	S-R	R	BK	S	S-R
BRIDGED	1	2	5	6	E2	E1	–	1	2	K	A	1	2	A	A	1	2	K	A
RING PARTY	1	2	5	6	E2	E1	3	1	G	K	A	1	G	A	A	1	G	K	A
TIP PARTY (EXCEPT DIAL MESSAGE RATE)	2	1	5	6	E2	E1	3	1	G	K	A	1	G	A	A	1	G	K	A
TIP PARTY (DIAL MESSAGE RATE) 'AMA'	2	1	5	6	E2	E1	3	K	G	B	B	A	G	B	B	K	G	B	B
AUTOMATIC TICKETING 'AT'	2	1	5	6	E2	E1	3	B	B	K	G	–	–	–	–	–	–	–	–
FOUR PARTY IDENTIFICATION	SEE NOTE 8		5	6	E2	E1	3	–	–	–	–	A	G	SEE NOTE 8		K	G	SEE NOTE 8	

NOTES:

1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK & ADAPTOR AND TRANSFER GREEN JUMPER LEAD FROM TERMINAL (F) TO TERMINAL (RR) ON NETWORK.
2. WHEN GOING OFF HOOK, SWITCH CONTACT **gf** BREAKS LAST.
3. TELEPHONE IS WIRED FOR BRIDGED CONDITION, EARTH GROUND MUST BE CONNECTED TO TERMINAL (3) ON BOARD WHEN OTHER CLASSES OF SERVICE ARE DESIRED.
4. FOR POLARIZED RINGING PARTY LINES (SUPERIMPOSED RINGING) WITH 426A OR 425A TUBES, SEE WIRING DIAGRAM 200844-100.
5. CONNECTIONS FOR BRIDGED AND RING PARTIES ARE FOR FLAT AND MESSAGE RATE SERVICE.
6. FOR TIP PARTY DIAL MESSAGE RATE SERVICE, 'AMA':
   A. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
7. FOR AUTOMATIC TICKETING 'AT' SERVICE (FOR STRAIGHT LINE RINGER ONLY).
   A. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
8. FOR FOUR PARTY IDENTIFICATION SERVICE (FOR FREQUENCY RINGER ONLY) CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINAL (B) AND SLATE-RED AND SLATE LEADS OF RINGER. IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206287-841.
9. TO PERMANENTLY SILENCE RINGERS:
   A. FOR ALL SERVICES EXCEPT TIP PARTY DIAL MESSAGE RATE AND AUTOMATIC TICKETING, TRANSFER BLACK RINGER LEAD TO (A) TERMINAL OF NETWORK.
   B. FOR TIP PARTY DIAL MESSAGE RATE, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   C. FOR AUTOMATIC TICKETING WITH STRAIGHT LINE RINGER, TRANSFER BLACK RINGER LEAD TO (K) TERMINAL OF NETWORK. SLATE-RED LEAD TO (G) AND RED LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   D. FOR FOUR PARTY IDENTIFICATION, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO IDENTIFICATION ASSEMBLY MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
10. RINGER CUT-OFF CONTROL BY CUSTOMER ON STRAIGHT LINE RINGER:
    A. 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.
11. TERMINAL NUMBERS 5 & 6 ON TERMINAL BOARD ARE TO BE USED FOR 'A' LEAD CONTROL FOR USE WITH 1A2 SYSTEM OR EQUIVALENT.

Figure 28. S-C 552B Telephone, Wiring Diagram (sheet 2 of 2).

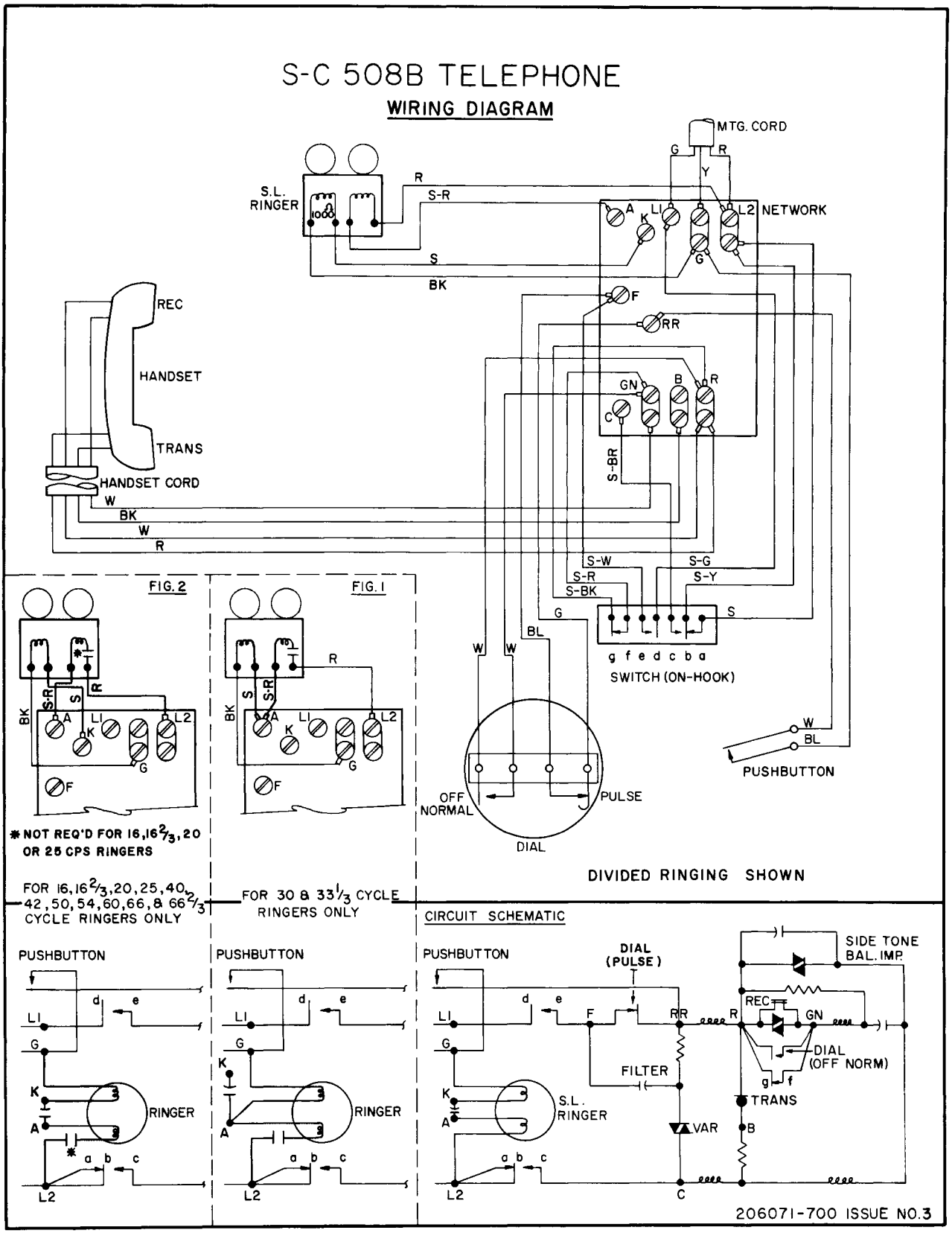


Figure 29. S-C 508B Telephone, Wiring Diagram (sheet 1 of 2).

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT CONNECTING BLOCK						CONNECTIONS AT NETWORK											
	LINE			MTG CORD			MTG CORD			STRAIGHT LINE RINGER LEADS				30 & 33⅓ RINGER LEADS				ALL OTHER FREQ RINGER LEADS			
	RING	TIP	GND	R	G	Y	R	G	Y	R	BK	S	S-R	R	BK	S	S-R	R	BK	S	S-R
BRIDGED	R	G	Y	R	G	Y	L2	LI	G	L2	LI	K	A	L2	LI	A	A	L2	LI	K	A
RING PARTY	R	G	Y	R	G	Y	L2	LI	G	L2	G	K	A	L2	G	A	A	L2	G	K	A
TIP PARTY (EXCEPT DIAL MESSAGE RATE)	R	G	Y	G	R	Y	L2	LI	G	L2	G	K	A	L2	G	A	A	L2	G	K	A
TIP PARTY (DIAL MESSAGE RATE) 'AMA'	R	G	Y	G	R	Y	L2	LI	G	K	G	B	B	A	G	B	B	K	G	B	B
AUTOMATIC TICKETING 'AT'	R	G	Y	G	R	Y	L2	LI	G	B	B	K	G	—	—	—	—	—	—	—	—
FOUR PARTY IDENTIFICATION	R	G	Y	SEE NOTE 7		Y	L2	LI	G	—	—	—	—	A	G	SEE NOTE 7		K	G	SEE NOTE 7	

NOTES:

1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK & ADAPTOR AND TRANSFER SLATE-WHITE SWITCH LEAD FROM TERMINAL (F) TO TERMINAL (RR) ON NETWORK.
2. WHEN GOING OFF HOOK, SWITCH CONTACT gf BREAKS LAST.
3. FOR POLARIZED RINGING PARTY LINES (SUPERIMPOSED RINGING) WITH 426A OR 425A TUBES, SEE WIRING DIAGRAM 200843-100
4. CONNECTIONS FOR BRIDGED AND RING PARTIES ARE FOR FLAT AND MESSAGE RATE SERVICE.
5. FOR TIP PARTY DIAL MESSAGE RATE SERVICE, 'AMA':
   A. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
6. FOR AUTOMATIC TICKETING 'AT' SERVICE: (FOR STRAIGHT LINE RINGER ONLY).
   A. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
7. FOR FOUR PARTY IDENTIFICATION SERVICE (WITH FREQUENCY RINGER ONLY) CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINAL (B) AND SLATE-RED AND SLATE LEADS OF RINGER, IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206287-841.
8. TO PERMANENTLY SILENCE RINGERS:
   A. FOR ALL SERVICES EXCEPT TIP PARTY DIAL MESSAGE RATE AND AUTOMATIC TICKETING TRANSFER BLACK RINGER LEAD TO (A) TERMINAL OF NETWORK.
   B. FOR TIP PARTY DIAL MESSAGE RATE, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   C. FOR AUTOMATIC TICKETING WITH STRAIGHT LINE RINGER, TRANSFER BLACK RINGER LEAD TO (K) TERMINAL OF NETWORK. SLATE-RED LEAD TO (G) AND READ LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   D. FOR FOUR PARTY IDENTIFICATION, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO IDENTIFICATION ASSEMBLY MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
9. RINGER CUT-OFF CONTROL BY CUSTOMER ON STRAIGHT LINE RINGER:
   A. 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.

Figure 29. S-C 508B Telephone, Wiring Diagram (sheet 2 of 2).

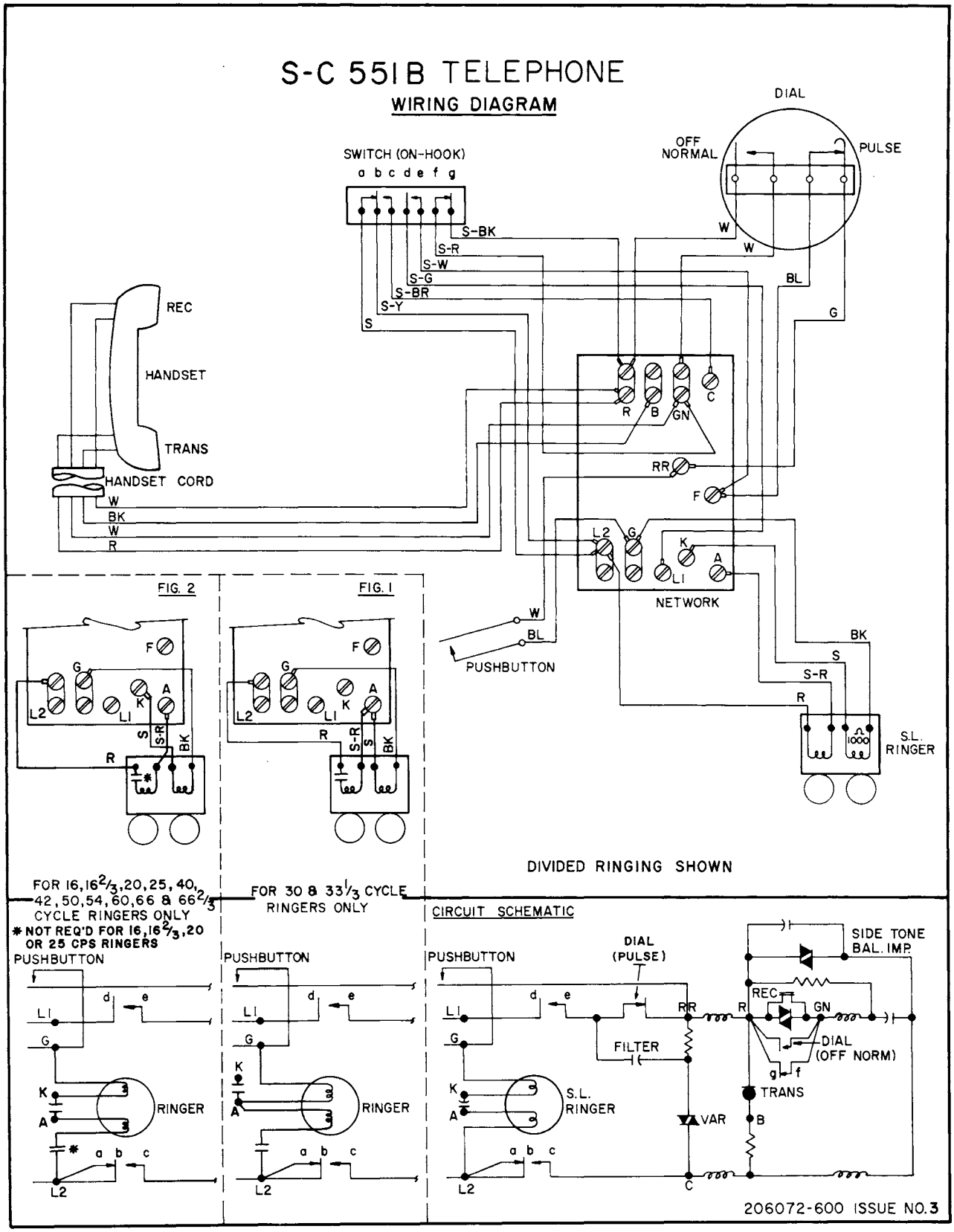


Figure 30. S-C 551B Telephone, Wiring Diagram (sheet 1 of 2).

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT NETWORK															
	LINE			STRAIGHT LINE RINGER LEADS				30 & 33⅓ RINGER LEADS				ALL OTHER FREQ RINGER LEADS				
	R	G	Y	R	BK	S	S-R	R	BK	S	S-R	R	BK	S	S-R	
BRIDGED	L2	LI	G	L2	LI	K	A	L2	LI	A	A	L2	LI	K	A	
RING PARTY	L2	LI	G	L2	G	K	A	L2	G	A	A	L2	G	K	A	
TIP PARTY (EXCEPT DIAL MESSAGE RATE)	LI	L2	G	L2	G	K	A	L2	G	A	A	L2	G	K	A	
TIP PARTY (DIAL MESSAGE RATE) 'AMA'	LI	L2	G	K	G	B	B	A	G	B	B	K	G	B	B	
AUTOMATIC TICKETING 'AT'	LI	L2	G	B	B	K	G	–	–	–	–	–	–	–	–	
FOUR PARTY IDENTIFICATION	SEE NOTE 7		G	–	–	–	–	A	G	SEE NOTE 7		K	G	SEE NOTE 7		

NOTES:

1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK & ADAPTOR AND TRANSFER SLATE-WHITE SWITCH LEAD FROM TERMINAL (F) TO TERMINAL (RR) ON NETWORK.
2. WHEN GOING OFF HOOK, SWITCH CONTACT gf BREAKS LAST.
3. FOR POLARIZED RINGING PARTY LINES (SUPERIMPOSED RINGING) WITH 426A OR 425A TUBES, SEE WIRING DIAGRAM 200844-100.
4. CONNECTIONS FOR BRIDGED AND RING PARTIES ARE FOR FLAT AND MESSAGE RATE SERVICE.
5. FOR TIP PARTY DIAL MESSAGE RATE SERVICE, 'AMA':
   A. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
6. FOR AUTOMATIC TICKETING 'AT' SERVICE (FOR STRAIGHT LINE RINGER ONLY).
   A. MOVE SLATE SWITCH LEAD FROM (L2) TO (A) TERMINAL ON NETWORK.
7. FOR FOUR PARTY IDENTIFICATION SERVICE (FOR FREQUENCY RINGER ONLY) CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINAL (B) AND SLATE-RED AND SLATE LEADS OF RINGER. IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206287-841.
8. TO PERMANENTLY SILENCE RINGERS:
   A. FOR ALL SERVICES EXCEPT TIP PARTY DIAL MESSAGE RATE AND AUTOMATIC TICKETING, TRANSFER BLACK RINGER LEAD TO (A) TERMINAL OF NETWORK.
   B. FOR TIP PARTY DIAL MESSAGE RATE, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   C. FOR AUTOMATIC TICKETING WITH STRAIGHT LINE RINGER, TRANSFER BLACK RINGER LEAD TO (K) TERMINAL OF NETWORK. SLATE-RED LEAD TO (G) AND RED LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
   D. FOR FOUR PARTY IDENTIFICATION, TRANSFER SLATE-RED RINGER LEAD TO (K) TERMINAL OF NETWORK. BLACK LEAD TO (G) AND SLATE LEAD TO IDENTIFICATION ASSEMBLY MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
9. RINGER CUT-OFF CONTROL BY CUSTOMER ON STRAIGHT LINE RINGER:
   A. 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.

Figure 30. S-C 551B Telephone, Wiring Diagram (sheet 2 of 2).

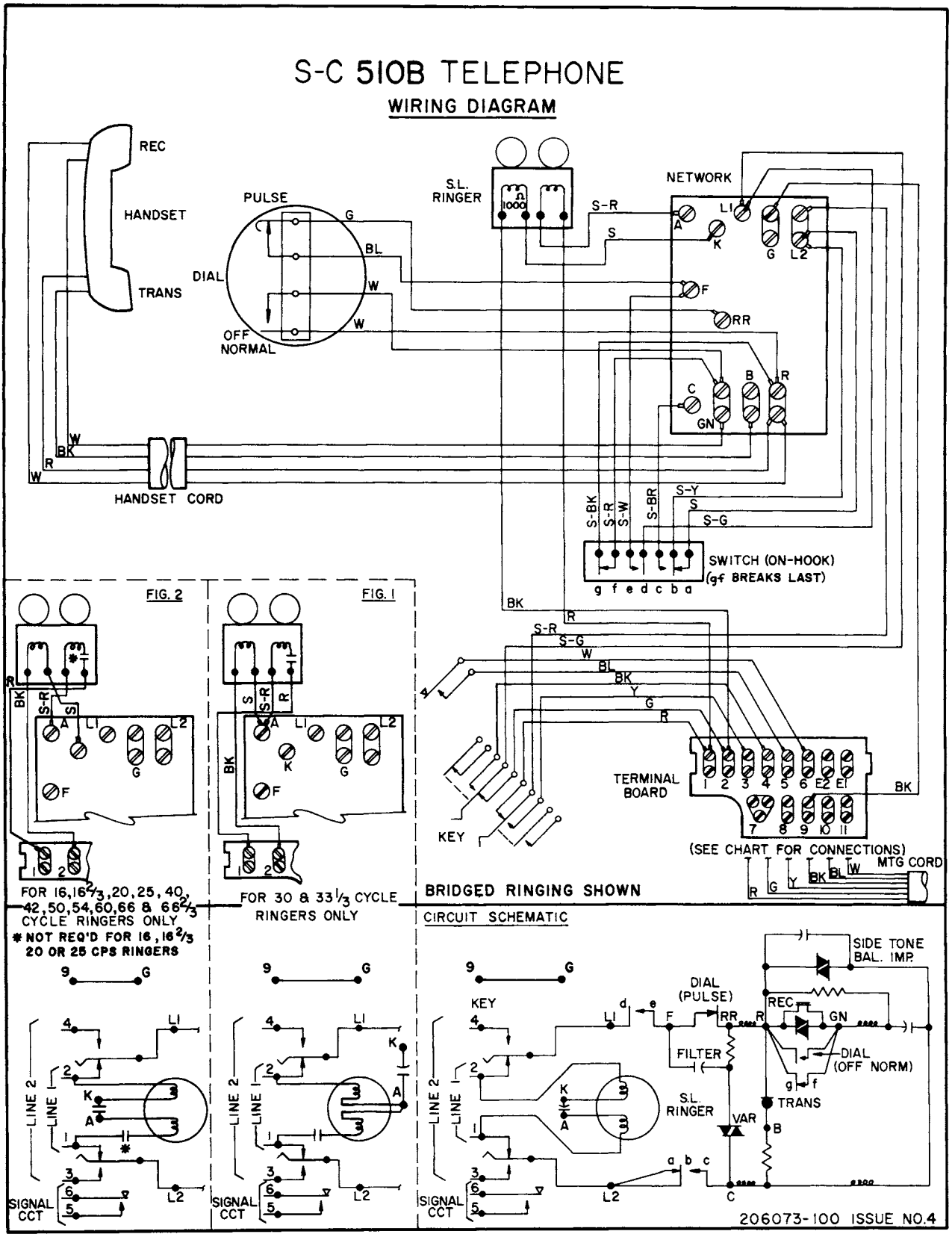


Figure 31. S-C 510B Telephone, Wiring Diagram (sheet 1 of 2).

MTG CORD LEAD DESIGNATIONS

LINE DESIGNATION	LINE 1 RING	LINE 1 TIP	LINE 2 RING	LINE 2 TIP	SIGNAL 1	SIGNAL 2	EARTH GRD	
MTG CORD	R	G	Y	BK	BL	W	SL	BR

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT NETWORK OR TERMINAL STRIP																			
	MTG CORD								STRAIGHT LINE RINGER LEADS				30 & 33 1/3 RINGER LEADS				ALL OTHER FREQ RINGER LEADS			
	R	G	Y	BK	BL	W	S	BR	R	BK	S	S-R	R	BK	S	S-R	R	BK	S	S-R
BRIDGED	1	2	3	4	5	6	-	-	1	2	K	A	1	2	A	A	1	2	K	A
RING PARTY	1	2	3	4	5	6	9	9	1	G	K	A	1	G	A	A	1	G	K	A
TIP PARTY (EXCEPT DIAL MESSAGE RATE)	2	1	4	3	5	6	9	9	1	G	K	A	1	G	A	A	1	G	K	A
TIP PARTY (DIAL MESSAGE RATE) 'AMA'	2	1	4	3	5	6	9	9	1	G	K	A	1	G	A	A	1	G	K	A
AUTOMATIC TICKETING 'AT'	2	1	4	3	5	6	9	9	1	G	K	A	1	G	A	A	1	G	K	A
FOUR PARTY IDENTIFICATION	2	1	4	3	5	6	9	9	-	-	-	-	2	1	A	A	2	1	K	A
CALL TRANSFER-SEE NOTE 8	L2	L1	-	-	-	-	-	3	L2	L1	K	A	L2	L1	A	A	L2	L1	K	A

1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK & ADAPTOR AND TRANSFER SLATE-WHITE SWITCH LEAD FROM TERMINAL (F) TO TERMINAL (RR) ON NETWORK.

2. TELEPHONE NORMALLY FURNISHED WITH A SIX CONDUCTOR MOUNTING CORD AND WIRED FOR BRIDGED CONDITION. WHEN OTHER CLASSES OF SERVICE ARE DESIRED, REQUEST EIGHT CONDUCTOR MOUNTING CORD (200318-706/712). CONNECT EARTH GROUND TO (S) AND (BR) CONDUCTORS ON MOUNTING CORD.

3. FOR POLARIZED RINGING PARTY LINES (SUPERIMPOSED RINGING) WITH 426A OR 425A TUBES, SEE WIRING DIAGRAM 200843-100 EXCEPT CONNECT ALL LEADS GOING TO (L1) AND (L2) TO (2) AND (1) ON TERMINAL BOARD.

4. CONNECTIONS FOR BRIDGED AND RING PARTIES ARE FOR FLAT AND MESSAGE RATE SERVICE.

5. FOR AUTOMATIC TICKETING ("AT" SERVICE) CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINALS (B) & (G). IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206012-543.

6. FOR FOUR PARTY IDENTIFICATION SERVICE (WITH FREQUENCY RINGER ONLY) CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINALS (B) AND (G). IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206012-533.

7. TO USE SIGNAL SWITCH FOR PUSHBUTTON TRANSFER, CONNECT WHITE MTG CORD TO EARTH GROUND AND MOVE BLUE SIGNAL SWITCH WIRE TO TERMINAL (C) ON TELEPHONE NETWORK.

8. WHEN USING TELPHONE FOR SINGLE LINE WITH LOCKING CALL TRANSFER, CONNECT "TIP" TO (L1) "RING" TO (L2) AND EARTH GROUND TO (3). TAPE BACK BLACK, BLUE & WHITE WIRES TO PREVENT SHORTING, TURNING KEY TO POSITION 2 WILL PLACE LINE IN CALL TRANSFER.

9. FOR TIP PARTY DIAL MESSAGE RATE SERVICE (AMA) CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINALS (B) & (G). IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206012-523.

Figure 31. S-C 510B Telephone, Wiring Diagram (sheet 2 of 2).

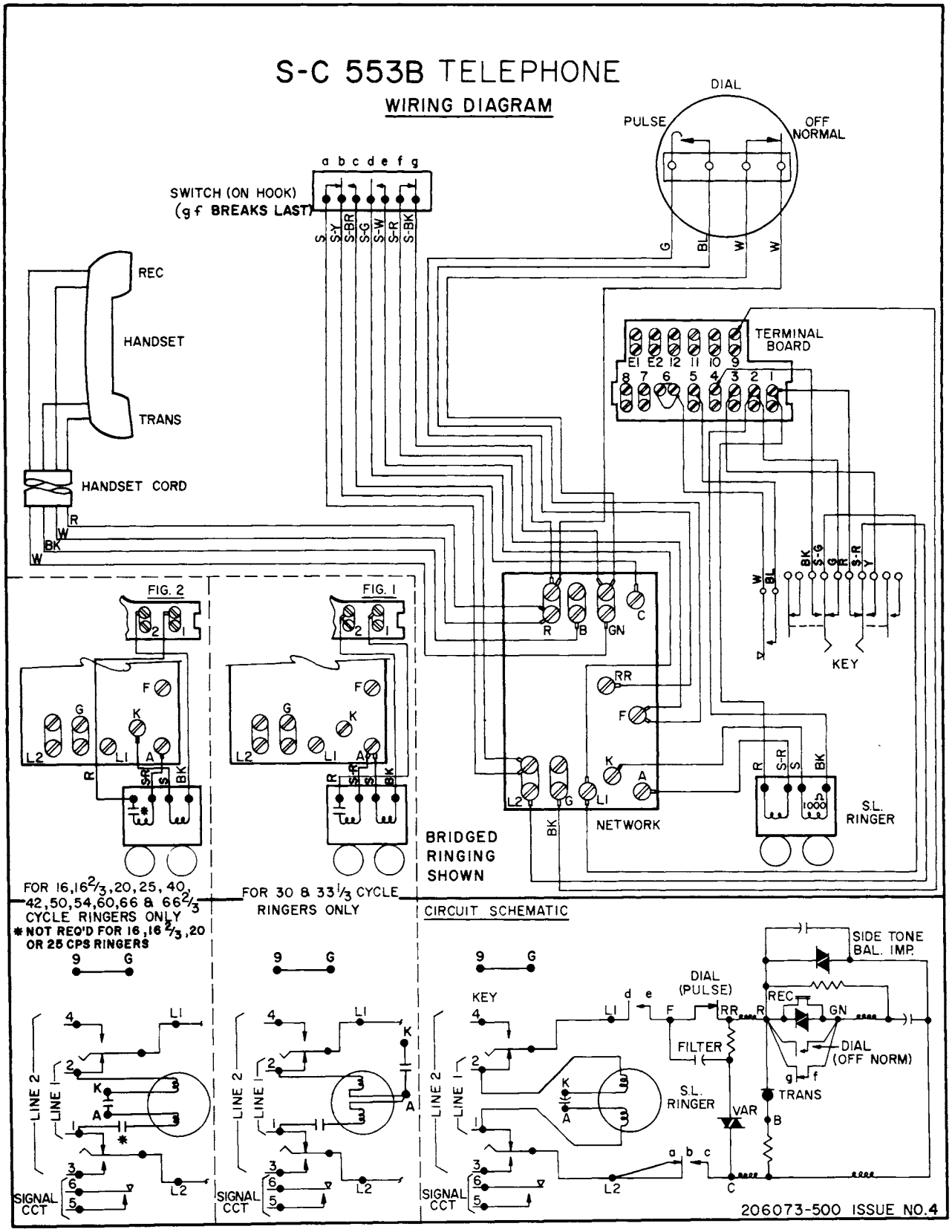


Figure 32. S-C 553B Telephone, Wiring Diagram (sheet 1 of 2).

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT NETWORK OR TERMINAL STRIP																			
	LINE							STRAIGHT LINE RINGER LEADS				30 & 33⅓ RINGER LEADS				ALL OTHER FREQ RINGER LEADS			
	LINE 1		LINE 2		SIGNAL 1	SIGNAL 2	EARTH GRD													
	RING	TIP	RING	TIP				R	BK	S	S-R	R	BK	S	S-R	R	BK	S	S-R
BRIDGED	1	2	3	4	5	6	–	1	2	K	A	1	2	A	A	1	2	K	A
RING PARTY	1	2	3	4	5	6	9	1	G	K	A	1	G	A	A	1	G	K	A
TIP PARTY (EXCEPT DIAL MESSAGE RATE)	2	1	4	3	5	6	9	1	G	K	A	1	G	A	A	1	G	K	A
TIP PARTY (DIAL MESSAGE RATE) 'AMA'	2	1	4	3	5	6	9	1	G	K	A	1	G	A	A	1	G	K	A
AUTOMATIC TICKETING 'AT'	2	1	4	3	5	6	9	1	G	K	A	1	G	A	A	1	G	K	A
FOUR PARTY IDENTIFICATION	2	1	4	3	5	6	9	–	–	–	–	2	1	A	A	2	1	K	A
CALL TRANSFER-SEE NOTE 9	L2	L1	–	–	–	–	3	L2	L1	K	A	L2	L1	A	A	L2	L1	K	A

1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK & ADAPTOR AND TRANSFER SLATE-WHITE SWITCH LEAD FROM TERMINAL (F) TO TERMINAL (RR) ON NETWORK.

2. TELEPHONE IS WIRED FOR BRIDGED CONDITION, EARTH GROUND MUST BE CONNECTED TO TERMINAL (9) ON BOARD WHEN OTHER CLASSES OF SERVICE ARE DESIRED.

3. FOR POLARIZED RINGING PARTY LINES (SUPERIMPOSED RINGING) WITH 426A OR 425A TUBES, SEE WIRING DIAGRAM 200844-100 EXCEPT CONNECT ALL LEADS GOING TO (L1) & (L2) TO (2) & (1) ON TERMINAL BOARD.

4. CONNECTIONS FOR BRIDGED AND RING PARTIES ARE FOR FLAT AND MESSAGE RATE SERVICE.

5. FOR TIP PARTY DIAL MESSAGE RATE SERVICE, 'AMA' CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINALS (B) & (G). IDENTIFICATION ASSEMBLY AND INSTRUCTION MAY BE FOUND IN PACKAGE ASSEMBLY 206012-523.

6. FOR AUTOMATIC TICKETING "AT" SERVICE CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINALS (B) & (G). IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206012-543.

7. FOR FOUR PARTY IDENTIFICATION SERVICE (WITH FREQUENCY RINGER ONLY), CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINALS (B) & (G) IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206012-533.

8. TO USE SIGNAL SWITCH FOR PUSHBUTTON TRANSFER CONNECT WHITE SIGNAL SWITCH WIRE TO EARTH GROUND (TERMINAL (9) ON BOARD) AND MOVE BLUE SIGNAL SWITCH WIRE TO TERMINAL (C) ON TELEPHONE NETWORK.

9. WHEN USING TELEPHONE FOR SINGLE LINE WITH LOCKING CALL TRANSFER, CONNECT "TIP" TO L1, "RING" TO L2 AND EARTH GROUND TO (3). TURNING KEY TO POSITION 2 WILL PLACE LINE IN CALL TRANSFER.

Figure 32. S-C 553B Telephone, Wiring Diagram (sheet 2 of 2).

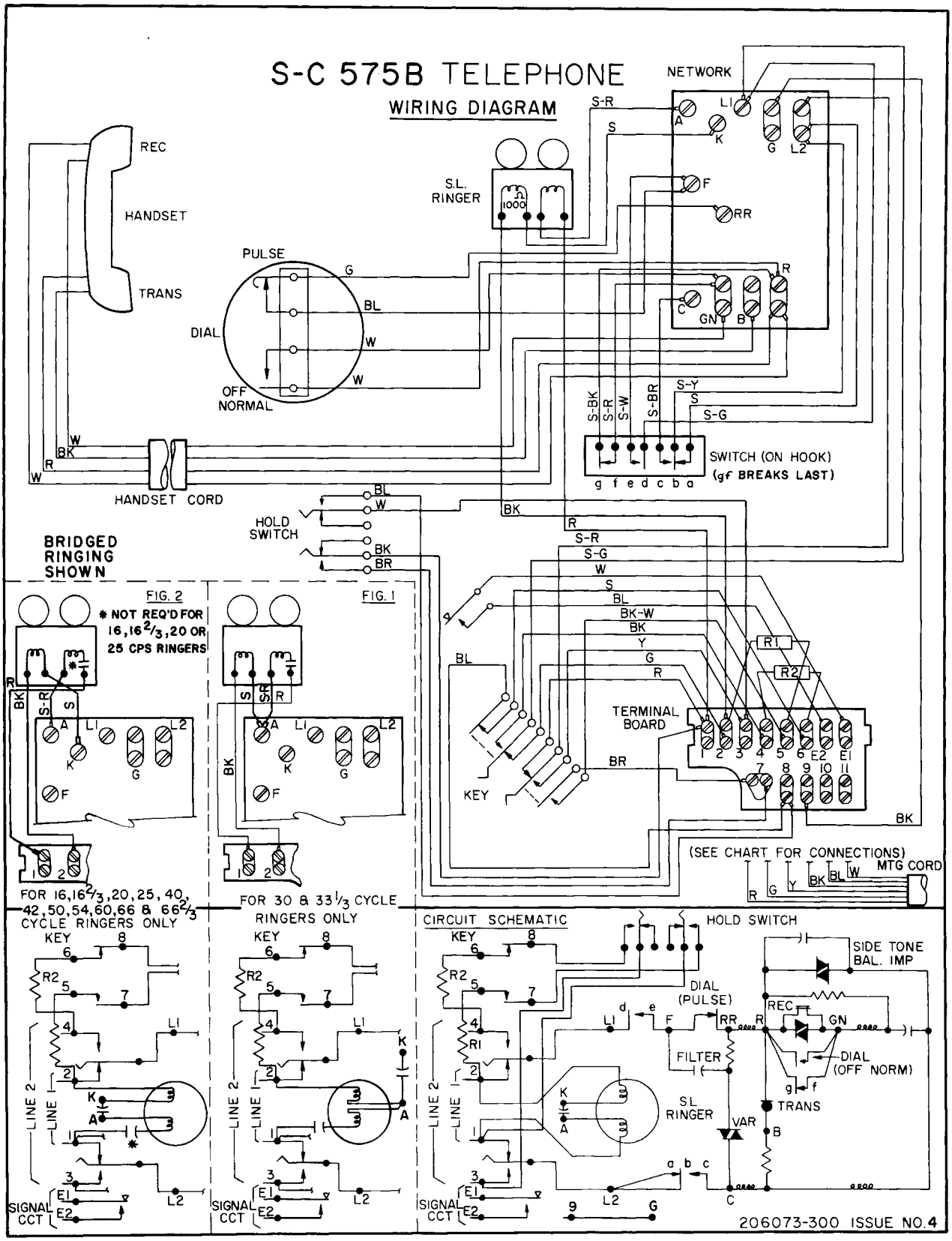


Figure 33. S-C 575B Telephone, Wiring Diagram (sheet 1 of 2).

MTG CORD LEAD DESIGNATIONS

LINE DESIGNATION	LINE 1 RING	LINE 1 TIP	LINE 2 RING	LINE 2 TIP	SIGNAL 1	SIGNAL 2	EARTH GRD	
MTG CORD	R	G	Y	BK	BL	W	SL	BR

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT NETWORK OR TERMINAL STRIP																			
	MTG CORD								STRAIGHT LINE RINGER LEADS				30 & 33 1/3 RINGER LEADS				ALL OTHER FREQ RINGER LEADS			
	R	G	Y	BK	BL	W	S	BR	R	BK	S	S-R	R	BK	S	S-R	R	BK	S	S-R
BRIDGED	1	2	3	4	E2	E1	–	–	1	2	K	A	1	2	A	A	1	2	K	A
RING PARTY	1	2	3	4	E2	E1	9	9	1	G	K	A	1	G	A	A	1	G	K	A
TIP PARTY (EXCEPT DIAL MESSAGE RATE)	2	1	4	3	E2	E1	9	9	1	G	K	A	1	G	A	A	1	G	K	A
TIP PARTY (DIAL MESSAGE RATE) 'AMA'	2	1	4	3	E2	E1	9	9	1	G	K	A	1	G	A	A	1	G	K	A
AUTOMATIC TICKETING 'AT'	2	1	4	3	E2	E1	9	9	1	G	K	A	1	G	A	A	1	G	K	A
FOUR PARTY IDENTIFICATION	2	1	4	3	E2	E1	9	9	–	–	–	–	2	1	A	A	2	1	K	A

NOTES:

1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK & ADAPTOR AND TRANSFER SLATE-WHITE SWITCH LEAD FROM TERMINAL (F) TO TERMINAL (RR) ON NETWORK.

2. TELEPHONE NORMALLY FURNISHED WITH A SIX CONDUCTOR MOUNTING CORD AND WIRED FOR BRIDGED CONDITION. WHEN OTHER CLASSES OF SERVICE ARE DESIRED, REQUEST EIGHT CONDUCTOR MOUNTING CORD (200318-706/712). CONNECT EARTH GROUND TO (S) AND (BR) CONDUCTORS ON MOUNTING CORD.

3. FOR POLARIZED RINGING PARTY LINES (SUPERIMPOSED RINGING) WITH 426A OR 425A TUBES, SEE WIRING DIAGRAM 200843-100 EXCEPT CONNECT ALL LEADS GOING TO (L1) AND (L2) TO (2) AND (1) ON TERMINAL BOARD.

4. CONNECTIONS FOR BRIDGED AND RING PARTIES ARE FOR FLAT AND MESSAGE RATE SERVICE.

5. FOR TIP PARTY DIAL MESSAGE RATE SERVICE, ('AMA') CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINALS (B) & (G). IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206012-523.

6. FOR AUTOMATIC TICKETING ("AT" SERVICE) CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINALS (B) & (G). IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206012-543.

7. FOR FOUR PARTY IDENTIFICATION SERVICE (WITH FREQUENCY RINGER ONLY) CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINALS (B) AND (G). IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206012-533.

8. TO USE SIGNAL SWITCH FOR PUSHBUTTON TRANSFER, CONNECT WHITE MTG CORD TO EARTH GROUND AND MOVE BLUE SIGNAL SWITCH WIRE TO TERMINAL (C) ON TELEPHONE NETWORK.

Figure 33. S-C 575B Telephone, Wiring Diagram (sheet 2 of 2).

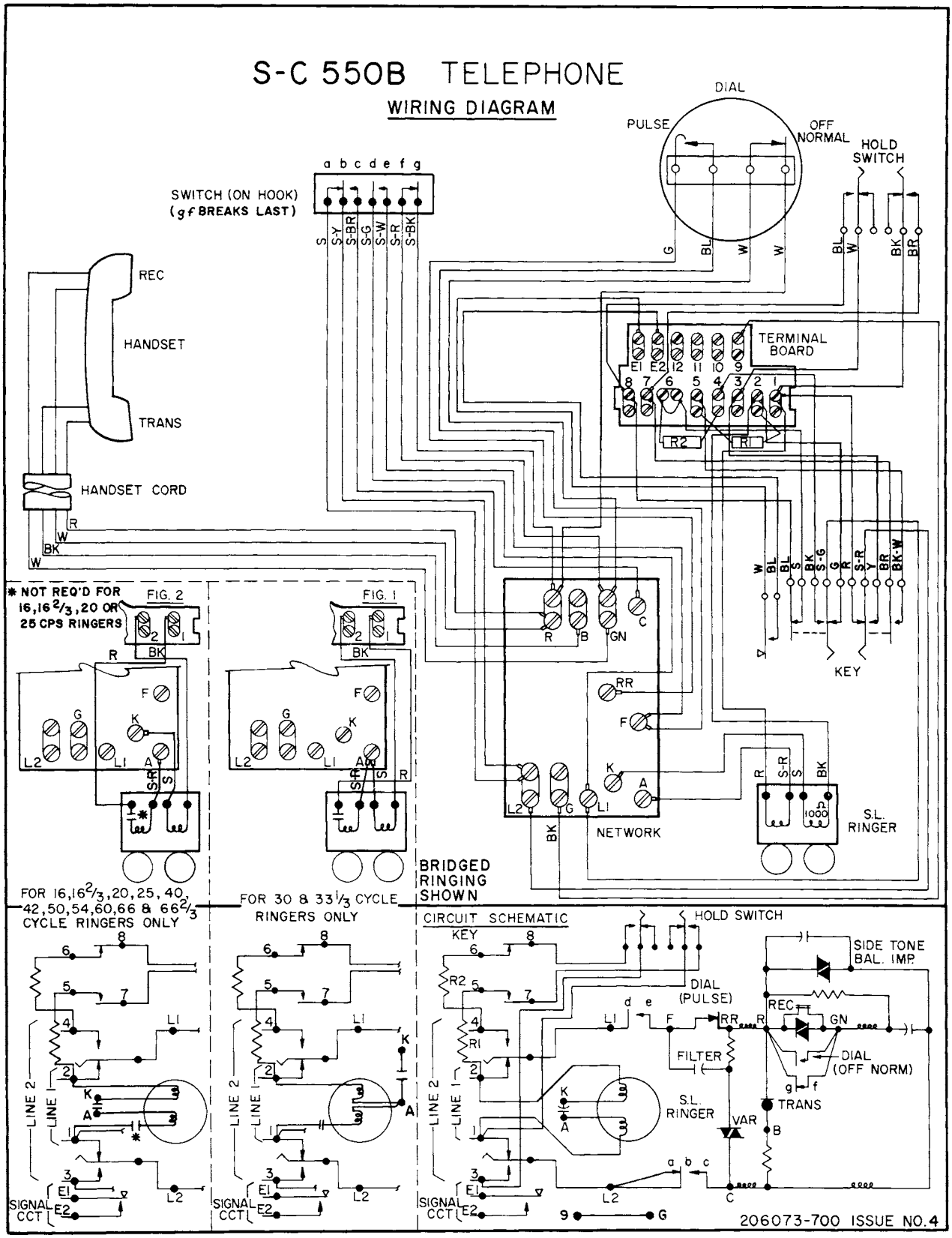


Figure 34. S-C 550B Telephone, Wiring Diagram (sheet 1 of 2).

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT NETWORK OR TERMINAL STRIP															
	LINE							STRAIGHT LINE RINGER LEADS				30 & 33 1/3 RINGER LEADS				ALL OTHER FREQ RINGER LEADS			
	LINE 1		LINE 2		SIGNAL 1	SIGNAL 2	EARTH GRD												
	RING	TIP	RING	TIP				R	BK	S	S-R	R	BK	S	S-R	R	BK	S	S-R
BRIDGED	1	2	3	4	E2	E1	-	1	2	K	A	1	2	A	A	1	2	K	A
RING PARTY	1	2	3	4	E2	E1	9	1	G	K	A	1	G	A	A	1	G	K	A
TIP PARTY (EXCEPT DIAL MESSAGE RATE)	2	1	4	3	E2	E1	9	1	G	K	A	1	G	A	A	1	G	K	A
TIP PARTY (DIAL MESSAGE RATE) 'AMA'	2	1	4	3	E2	E1	9	1	G	K	A	1	G	A	A	1	G	K	A
AUTOMATIC TICKETING 'AT'	2	1	4	3	E2	E1	9	1	G	K	A	1	G	A	A	1	G	K	A
FOUR PARTY IDENTIFICATION	2	1	4	3	E2	E1	9	—	—	—	—	2	1	A	A	2	1	K	A

NOTES:

1. FOR MANUAL SERVICE, REPLACE DIAL WITH APPARATUS BLANK & ADAPTOR AND TRANSFER SLATE-WHITE SWITCH LEAD FROM TERMINAL (F) TO TERMINAL (RR) ON NETWORK.
2. TELEPHONE IS WIRED FOR BRIDGED CONDITION, EARTH GROUND MUST BE CONNECTED TO TERMINAL (9) ON BOARD WHEN OTHER CLASSES OF SERVICE ARE DESIRED.
3. FOR POLARIZED RINGING PARTY LINES (SUPERIMPOSED RINGING) WITH 426A OR 425A TUBES, SEE WIRING DIAGRAM 200844-100 EXCEPT CONNECT ALL LEADS GOING TO (L1) & (L2) TO (2) & (1) ON TERMINAL BOARD.
4. CONNECTIONS FOR BRIDGED AND RING PARTIES ARE FOR FLAT AND MESSAGE RATE SERVICE.
5. FOR TIP PARTY DIAL MESSAGE RATE SERVICE, ('AMA') CONNECT IDENTIFICATION ASSEMBLY BETWEEN TERMINALS (B) & (G). IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206012-523.
6. FOR AUTOMATIC TICKETING ("AT" SERVICE) CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINALS (B) & (G). IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206012-543.
7. FOR FOUR PARTY IDENTIFICATION SERVICE (WITH FREQUENCY RINGER ONLY) CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINALS (B) AND (G) . IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206012-533.
8. TO USE SIGNAL SWITCH FOR PUSHBUTTON TRANSFER CONNECT WHITE SIGNAL SWITCH WIRE TO EARTH GROUND (TERMINAL (9) ON BOARD) AND MOVE BLUE SIGNAL SWITCH WIRE TO TERMINAL (C) ON TELEPHONE NETWORK.

Figure 34. S-C 550B Telephone, Wiring Diagram (sheet 2 of 2).

SECTION IV ORDERING INFORMATION

20. GENERAL

Stromberg-Carlson 500 Series Telephones,ringers, components, and replacement parts can be ordered from your Stromberg-Carlson Branch Sales Office.

21. ORDERING TELEPHONES

S-C 500 Telephones are electrically and mechanically interchangeable with all standard 500-type telephones. Order S-C 500 Telephones by model number and specify color desired: black, ivory, green, red, yellow, white, pink, beige, gray, blue, or turquoise. When a manual telephone is desired, add "Manual" to model number. When a special feature, such as separate talk and ring, is required; when a combination of special features is desired; or when a feature that is not listed is desired, add a note specifying the services desired to your order. The following is a list of S-C 500 Series Telephones.

Model Number		
Desk	Wall	Description
S-C 500D	S-C 554B	Single-line, metro dial
S-C 500F	S-C 554F	Single-line, metro dial, lift-to-talk
S-C 500Y	S-C 554Y	Single-line, metro dial, message waiting
S-C 501D	S-C 556B	Single-line, metro dial, with straight-line ringer and gas tube for superimposed ringing.
S-C 502B	S-C 552B	Single-line, metro dial, exclusion switch for private conversation.
S-C 508B	S-C 551B	Single-line, metro dial, push-to-signal
S-C 510B	S-C 553B	2-line, metro dial, push-to-signal
S-C 575B	S-C 550B	2-line with hold, metro dial, push-to-signal

22. ORDERING RINGERS

a. Straight-Line Ringer.

The Stromberg-Carlson USI C4A Ringer is a single-coil ringer with two windings that can be used in all standard 500-series telephones. The USI C4A Ringer can be used for single-party service, for party message-rate service, or for party identification when used with automatic station identification equipment.

When superimposed ringing is to be used, a 426A tube is required in addition to the USI C4A Ringer. Order package assembly 206013-043, which contains a 426A tube (208252-000) and a 6-32 × 3/8 HHIMS thread cutting screw (304037-781).

b. Frequency-Selective Ringer.

The Stromberg-Carlson USI Type Frequency-Selective Ringers can be used in all standard 500-series telephones. The ringers can be used for single-party service, for party-line service, for party message-rate service, or for party identification when used with automatic station identification equipment. Ringers are available for all frequencies in the harmonic, decimonic, and synchromonic series. The following is a list of the USI Type Frequency-Selective Ringers.

Harmonic			Synchromonic			Decimonic		
Freq	With Volume Control	Without Volume Control	Freq	With Volume Control	Without Volume Control	Freq	With Volume Control	Without Volume Control
16-2/3	USI 10WE	USI 10NE	16	USI 10WR	USI 10NR	20	USI 10WI	USI 10NI
25	USI 10WN	USI 10NN	30	USI 10WK	USI 10NK	30	USI 10WK	USI 10NK
33-1/3	USI 10WF	USI 10NF	42	USI 10WL	USI 10NL	40	USI 10WQ	USI 10NQ
50	USI 10WG	USI 10NG	54	USI 10WM	USI 10NM	50	USI 10WG	USI 10NG
66-2/3	USI 10WH	USI 10NH	66	USI 10WP	USI 10NP	60	USI 10WJ	USI 10NJ

23. ORDERING REPLACEMENT PARTS

All components and parts for S-C 500 Series Telephones are electrically and mechanically interchangeable with components and parts of all standard 500-type telephones.

Components and parts common to all S-C 500 Series Desk Telephones are listed on page 69; components and parts common to all S-C 500 Series Wall Telephones are listed on page 78; components and parts individual to a specific S-C 500 Telephone are listed in the paragraph applicable to the specific telephone. The parts list for the handset assembly is on page 87; (par. 42) and the parts list for the dial assembly is on page 88 (par. 43). Identification assemblies are listed on page 89 (par. 44).

24. LIST OF COMPONENTS AND MISCELLANEOUS PARTS COMMON TO ALL S-C 500 SERIES DESK TELEPHONES (See Fig. 35 Page 91)

Major Components

Color	Metro Dial Assembly* Item 1	Number Plate Item 1A	Handset Assembly† Item 3
Ivory	200051-506	303943-406	200737-106
Red	200051-507	303943-407	200737-107
Yellow	200051-508	303943-408	200737-108
Black	200051-509	303943-409	200737-109
White	200051-510	303943-410	200737-110
Blue	200051-511	303943-411	200737-111
Pink	200051-512	303943-412	200737-112
Beige	200051-514	303943-414	200737-114
Turquoise	200051-515	303943-415	200737-115
Green	200051-522	303943-422	200737-122
Gray	200051-523	303943-423	200737-123

* Includes number plate. The dial assembly is common to all S-C 500 Desk and Wall Telephones; parts are listed on page 88.

† Handset assembly is common to all S-C 500 Desk and Wall Telephones; parts are listed on page 87.

Miscellaneous Parts

Item	Description	Stock Number
9	Pin	300975-141
15	Dial mounting bracket (RH)	300975-121
16	Rivet	540240-306
17	Dial mounting bracket (LH)	300975-131
19	Base	300974-981
20	Foot (base)	300974-991
21	Rivet (foot)	304037-714
22	Screw (base)	304037-721
23	Gasket (dial)	207677-000
24	Station no. package assembly (dial)	206288-221
25	Hookswitch assembly	206012-581
26	Spring, restoring	300971-061
27	Network assembly without screws	206012-621
27	Network assembly with screws	700305-457
28	Screw 6-40 x 1/4 PHIMS	540111-365
29	Screw 5-40 x 3/16 BHIMS	213387-000
-	Ringer	See par. 22

25. S-C 500D TELEPHONE

The S-C 500D Single-Line Desk Telephone contains the common components and miscellaneous parts listed on page 69 plus the components and miscellaneous parts listed below. (See fig. 35.) If telephone set is equipped for superimposed ringing, refer to page 67 (par. 22a) for information concerning tube and tube mounting.

Major Components

Color	Housing Item 4	Line Cord 3-Conductor Item 12	Line Cord 4-Conductor Item 12*
Ivory	205036-906	200318-306	200318-506
Red	205036-907	200318-307	200318-507
Yellow	205036-908	200318-308	200318-508
Black	205036-909	200318-309	200318-509
White	205036-910	200318-310	200318-510
Blue	205036-911	200318-311	200318-511
Pink	205036-912	200318-312	200318-512
Beige	205036-914	200318-314	200318-514
Turquoise	205036-915	200318-315	200318-515
Green	205036-922	200318-322	200318-522
Gray	205036-923	200318-323	200318-523

Miscellaneous Parts

Item	Description	Stock Number
10	Arm, lever	300975-151
-	17A terminal block	202300-106
7	*Screw, 6-40 × 1/4 PHIMS	540111-365
8	*Terminal board, retainer	300976-291
18	*Terminal board assembly	206012-901

* Part of package assembly used to equip telephone for A lead control or for separate talk and signal paths. Refer to page 89 (par. 45).

26. S-C 500F TELEPHONE

The S-C 500F Single-Line Desk Telephone with lift-to-talk feature contains the common components and miscellaneous parts listed on page 69 plus the components and miscellaneous parts listed below. (See fig. 35.) If telephone is equipped for superimposed ringing, refer to page 67 (par. 22a) for information concerning tube and tube mounting.

Major Components

Color	Housing Item 4	Cover Item 32	Line Cord 3-Conductor Item 12	Line Cord 4-Conductor Item 12*
Ivory	303117-706	303943-706	200318-306	200318-506
Red	303117-707	303943-707	200318-307	200318-507
Yellow	303117-708	303943-708	200318-308	200318-508
Black	303117-709	303943-709	200318-309	200318-509
White	303117-710	303943-710	200318-310	200318-510
Blue	303117-711	303943-711	200318-311	200318-511
Pink	303117-712	303943-712	200318-312	200318-512
Beige	303117-714	303943-714	200318-314	200318-514
Turquoise	303117-715	303943-715	200318-315	200318-515
Green	303117-722	303943-722	200318-322	200318-523
Gray	303117-723	303943-723	200318-323	200318-523

Miscellaneous Parts

Item	Description	Stock Number
10	Arm, lever	300977-391
11	Wire retainer	300976-171
13	Exclusion switch assembly	206014-051
30	Extension arm	300976-201
31	Screw, 4-48 × 1/8 PHIMS	513072-000
33	Screw, 6-20 × 3/8 RH thd cut	304037-751
34	Plunger, cam	300976-181
35	Plunger	300976-191
36	Label	300976-331
-	.148 ID × .020 wall blk PVC tubing	None
-	17A terminal block	200300-106
7	* Screw, 6-40 × 1/4 PHIMS	540111-365
8	* Terminal board retainer	300976-291
18	* Terminal board assembly	206012-901

* Part of package assembly used to equip telephone for A lead control or for separate talk and signal paths. Refer to page 89 (par. 45).

27. S-C 500Y TELEPHONE

The S-C 500Y Single-Line Desk Telephone with message waiting feature contains the common components and miscellaneous parts listed on page 69 plus the components and miscellaneous parts listed below. (See fig. 35.)

Major Components

Color	Housing Item 4	Cover Item 32	Line Cord 3-Conductor Item 12
Ivory	303118-406	303943-306	200318-306
Red	303118-407	303943-307	200318-307
Yellow	303118-408	303943-308	200318-308
Black	303118-409	303943-309	200318-309
White	303118-410	303943-310	200318-310
Blue	303118-411	303943-311	200318-311
Pink	303118-412	303943-312	200318-312
Beige	303118-414	303943-314	200318-314
Turquoise	303118-415	303943-315	200318-315
Green	303118-422	303943-322	200318-322
Gray	303118-423	303943-323	200318-323

Miscellaneous Parts

Item	Description	Stock Number
2	Lamp cap	200165-507
10	Arm, lever	300975-151
33	Screw, 6-20 × 3/8 RH thd cut	304037-751
34 & 35	Plunger	300974-961
37	Resistor, 27-K ±10%, 1/2-W	554001-273
38	Lamp socket	200286-109
-	Neon lamp	217175-000
-	Clip, mounting	300976-361
39	Conductor (6-inch blue)	206053-531
-	17A Terminal block	202300-106

28. S-C 501D TELEPHONE

The S-C 501D Single-Line Desk Telephone with straight-line ringer and gas tube for superimposed ringing contains the common components and miscellaneous parts listed on page 69 plus the components and miscellaneous parts listed below. (See fig. 35.)

Major Components

Color	Housing Item 4	Line Cord 3-Conductor Item 12	Line Cord 4-Conductor Item 12*
Ivory	205036-906	200318-306	200318-506
Red	205036-907	200318-307	200318-507
Yellow	205036-908	200318-308	200318-508
Black	205036-909	200318-309	200318-509
White	205036-910	200318-310	200318-510
Blue	205036-911	200318-311	200318-511
Pink	205036-912	200318-312	200318-512
Beige	205036-914	200318-314	200318-514
Turquoise	205036-915	200318-315	200318-515
Green	205036-922	200318-322	200318-522
Gray	205036-923	200318-323	200318-523

Miscellaneous Parts

Item	Description	Stock Number
10	Arm, lever	300975-151
40	426A tube	208252-000
41	Screw,6-32 × 3/8 HHIMS thd cut	304037-781
-	17A Terminal block	202300-106
7	* Screw, 6-40 × 1/4 PHIMS	540111-365
8	* Terminal board retainer	300976-291
18	* Terminal board assembly	206012-901

* Part of package assembly used to equip telephone for A lead control or for separate talk and signal paths. Refer to page 89 (par. 45).

29. S-C 502B TELEPHONE

The S-C 502B Single-Line Desk Telephone with exclusion switch contains the common components and miscellaneous parts listed on page 69 plus the components and miscellaneous parts listed below. (See fig. 35.) If telephone is equipped for superimposed ringing, refer to page 67 (par. 22a) for information concerning tube and tube mounting.

Major Components

Color	Housing Item 4	Cover Item 32	Line Cord 6-Conductor Item 12	Line Cord 8-Conductor Item 12
Ivory	303117-706	303943-706	200318-606	200318-706
Red	303117-707	303943-707	200318-607	200318-707
Yellow	303117-708	303943-708	200318-608	200318-708
Black	303117-709	303943-709	200318-609	200318-709
White	303117-710	303943-710	200318-610	200318-710
Blue	303117-711	303943-711	200318-611	200318-711
Pink	303117-712	303943-712	200318-612	200318-712
Beige	303117-714	303943-714	200318-614	200318-714
Turquoise	303117-715	303943-715	200318-615	200318-715
Green	303117-722	303943-722	200318-622	200318-722
Gray	303117-723	303943-723	200318-623	200318-723

Miscellaneous Parts

Item	Description	Stock Number
7	Screw, 6-40 × 1/4 PHIMS	540111-365
8	Terminal board retainer	300976-291
10	Arm, lever	300977-391
11	Wire retainer	300976-171
13	Exclusion switch assembly	206012-721
18	Terminal board assembly	206012-901
30	Extension arm	300976-201
31	Screw, 4-48 × 1/8 PHIMS	513072-000
33	Screw, 6-20 × 3/8 RH thd cut	304037-751
34	Plunger, cam	300976-181
35	Plunger	300976-191
-	Conductor (8-inch black)	206066-441
-	Conductor (8-inch green)	206066-451
-	Conductor (8-inch red)	206066-461

30. S-C 508B TELEPHONE

The S-C 508B Single-Line Desk Telephone with push-to-signal feature contains the common components and miscellaneous parts listed on page 69 plus the components and miscellaneous parts listed below. (See fig. 35.) If telephone is equipped for superimposed ringing, refer to page 67 (par. 22a) for information concerning tube and tube mounting.

Major Components

Color	Housing Item 4	Cover Item 32	Line Cord 3-Conductor Item 12	Line Cord 4-Conductor Item 12*
Ivory	303118-206	303943-306	200318-306	200318-506
Red	303118-207	303943-307	200318-307	200318-507
Yellow	303118-208	303943-308	200318-308	200318-508
Black	303118-209	303943-309	200318-309	200318-509
White	303118-210	303943-310	200318-310	200318-510
Blue	303118-211	303943-311	200318-311	200318-511
Pink	303118-212	303943-312	200318-312	200318-512
Beige	303118-214	303943-314	200318-314	200318-514
Turquoise	303118-215	303943-315	200318-315	200318-515
Green	303118-222	303943-322	200318-322	200318-522
Gray	303118-223	303943-323	200318-323	200318-523

Miscellaneous Parts

Item	Description	Stock Number
5	Key assembly	206012-741
6	Screw	304037-791
10	Arm, lever	300975-151
33	Screw, 6-20 × 3/8 RH thd cut	304037-751
34 & 35	Plunger	300974-961
-	17A Terminal block	202300-106
7	* Screw, 6-40 × 1/4 PHIMS	540111-365
8	* Terminal board retainer	300976-291
18	* Terminal board assembly	206012-901

* Part of package assembly used to equip telephone for A lead control or for separate talk and signal paths. Refer to page 89 (par. 45).

31. S-C 510B TELEPHONE

The S-C 510B 2-Line Desk Telephone with pushbutton for signaling contains the common components and miscellaneous parts listed on page 69 plus the components and miscellaneous parts listed below. (See fig. 35.) If telephone is equipped for superimposed ringing, refer to page 67 (par. 22a) for information concerning tube and tube mounting.

Major Components

Color	Housing Item 4	Cover Item 32	Line Cord 6-Conductor Item 12	Line Cord 8-Conductor Item 12
Ivory	303118-206	303943-306	200318-606	200318-706
Red	303118-207	303943-307	200318-607	200318-707
Yellow	303118-208	303943-308	200318-608	200318-708
Black	303118-209	303943-309	200318-609	200318-709
White	303118-210	303943-310	200318-610	200318-710
Blue	303118-211	303943-311	200318-611	200318-711
Pink	303118-212	303943-312	200318-612	200318-712
Beige	303118-214	303943-314	200318-614	200318-714
Turquoise	303118-215	303943-315	200318-615	200318-715
Green	303118-222	303943-322	200318-622	200318-722
Gray	303118-223	303943-323	200318-623	200318-723

Miscellaneous Parts

Item	Description	Stock Number
5	Key assembly	206012-681
6	Screw (key assembly)	304037-791
7	Screw, 6-40 × 1/4 PHIMS	540111-365
8	Terminal board retainer	300976-291
10	Arm, lever	300975-151
18	Terminal board assembly	206012-731
33	Screw, 6-20 × 3/8 RH thd cut	304037-751
34 & 35	Plunger	300974-961
	Conductor (8-inch black)	206066-441

32. S-C 575B TELEPHONE

The S-C 575B 2-Line Desk Telephone with hold feature contains the common components and miscellaneous parts listed on page 69 plus the common components and miscellaneous parts listed below. (See fig. 35.) If telephone is equipped for superimposed ringing, refer to page 67 (par. 22a) for information concerning tube and tube mounting.

Major Components

Color	Housing Item 4	Cover Item 32	Line Cord 6-Conductor Item 12	Line Cord 8-Conductor Item 12
Ivory	303118-206	303943-706	200318-606	200318-706
Red	303118-207	303943-707	200318-607	200318-707
Yellow	303118-208	303943-708	200318-608	200318-708
Black	303118-209	303943-709	200318-609	200318-709
White	303118-210	303943-710	200318-610	200318-710
Blue	303118-211	303943-711	200318-611	200318-711
Pink	303118-212	303943-712	200318-612	200318-712
Beige	303118-214	303943-714	200318-614	200318-714
Turquoise	303118-215	303943-715	200318-615	200318-715
Green	303118-222	303943-722	200318-622	200318-722
Gray	303118-223	303943-723	200318-623	200318-723

Miscellaneous Parts

Item	Description	Stock Number
5	Key assembly	206012-681
6	Screw (key assembly)	304037-791
7	Screw, 6-40 × 1/4 PHIMS	540111-365
8	Terminal board retainer	300976-291
10	Arm, lever	300977-391
11	Wire retainer	300976-171
13	Exclusion switch assembly	206014-041
14	Resistor, 470-ohm 5-watt (R1 & R2)	554554-471
18	Terminal board assembly	206012-731
30	Extension arm	300976-201
31	Screw, 4-48 × 1/8 PHIMS	513072-000
33	Screw, 6-20 × 3/8 RH thd cut	304037-751
34	Plunger, cam	300976-181
35	Plunger	300976-191
-	Conductor (8-inch black)	206066-441
-	Sleeving no. 18 vinyl tubing	None

33. LIST OF COMPONENTS AND MISCELLANEOUS PARTS COMMON TO ALL S-C 500 SERIES WALL TELEPHONES (See Fig. 36 Page 93)

Major Components

Color	Handset Assembly* Item 1	Metro Dial Assembly† Item 2	Number Plate Item 2A
Ivory	200737-106	200051-506	303943-406
Red	200737-107	200051-507	303943-407
Yellow	200737-108	200051-508	303943-408
Black	200737-109	200051-509	303943-409
White	200737-110	200051-510	303943-410
Blue	200737-111	200051-511	303943-411
Pink	200737-112	200051-512	303943-412
Beige	200737-114	200051-514	303943-414
Turquoise	200737-115	200051-515	303943-415
Green	200737-122	200051-522	303943-422
Gray	200737-123	200051-523	303943-423

* Handset assembly is common to all S-C 500 Desk and Wall Telephones; parts are listed on page 87.

† Includes number plate. The dial assembly is common to all S-C 500 Desk and Wall Telephones; parts are listed on page 88.

Miscellaneous Parts

Item	Description	Stock Number
3	Latch	300975-791
4	Screw, 6-20 x 3/8 RHIMS thd cut	304037-751
6	Clip, housing	300975-781
10	Base	300975-801
11	Rivet	540240-306
13	Dial mounting bracket (RH)	300976-021
17	Grommet	300975-201
18	Lever, retainer (except S-C 556B)	304037-779
19	Lever, volume	300975-841
20	Screw, 6-40 x 1/4 RHIMS	540111-365
21	Network assembly without screws	206012-621
21	Network assembly with screws	700305-457
22	Screw, 5-40 x 3/16 BHIMS	213387-000
23	Dial mounting bracket (LH)	300975-861
25	Spring, restoring	300971-061
26	Arm, operating	300975-991
27	Cradle	300976-091
28	Pin	300975-981
29	Hookswitch assembly	206012-591
30	Spring clip (base)	300975-851
34	Gasket (dial)	207677-000
35	Station no. package assembly (dial)	206288-221
-	Ringer	See par. 22

34. S-C 554B TELEPHONE

The S-C 554B Single-Line Wall Telephone contains the common components and miscellaneous parts listed on page 78 plus a housing assembly. (See fig. 36.) If telephone is equipped for superimposed ringing, refer to page 67 (par. 22a) for information concerning tube and tube mounting.

Housing (Item 5) †

Color	Stock Number
Ivory	303117-806
Red	303117-807
Yellow	303117-808
Black	303117-809
White	303117-810
Blue	303117-811
Pink	303117-812
Beige	303117-814
Turquoise	303117-815
Green	303117-822
Gray	303117-823

Miscellaneous Parts

Item	Description	Stock Number
12	*Screw, 6-40 × 1/4 PHIMS	540111-365
14	*Terminal board retainer	300976-291
24	*Terminal board assembly	206012-901

* Part of package assembly used to equip telephone for A lead control or for separate talk and signal paths. Refer to page 89 (par. 45).

† Includes housing clip (item 6) and screw (item 4).

35. S-C 554F TELEPHONE

The S-C 554F Single-Line Wall Telephone with lift-to-talk feature contains the common components and miscellaneous parts listed on page 78 plus a housing assembly and the miscellaneous parts listed below. (See fig. 36.) If telephone is equipped for superimposed ringing, refer to page 67 (par. 22a) for information concerning tube and tube mounting.

Housing (Item 5)

Color	Stock Number
Ivory	303118-606
Red	303118-607
Yellow	303118-608
Black	303118-609
White	303118-610
Blue	303118-611
Pink	303118-612
Beige	303118-614
Turquoise	303118-615
Green	303118-622
Gray	303118-623

Miscellaneous Parts

Item	Description	Stock Number
7	Exclusion switch assembly	206014-071
8	Screw (bracket)	304037-791
9	Bracket	300976-381
36	Label	300976-771
-	.148 × 20 wall black PVC tubing	None
12	*Screw, 6-40 × 1/4 PHIMS	540111-365
14	*Terminal board retainer	300976-291
24	*Terminal board assembly	206012-901

* Part of package assembly used to equip telephone for A lead control or for separate talk and signal paths. Refer to page 89 (par. 45).

36. S-C 554Y TELEPHONE

The S-C 554Y Single-Line Wall Telephone with message waiting feature contains the common components and miscellaneous parts listed on page 78 plus a housing assembly and the miscellaneous parts listed below. (See fig. 36.)

Housing (Item 5)

Color	Stock Number
Ivory	303118-906
Red	303118-907
Yellow	303118-908
Black	303118-909
White	303118-910
Blue	303118-911
Pink	303118-912
Beige	303118-914
Turquoise	303118-915
Green	303118-922
Gray	303118-923

Miscellaneous Parts

Item	Description	Stock Number
8	Screw (bracket)	304037-791
9	Bracket	300976-381
37	Lamp cap	200165-507
38	Resistor, 27-K ±10%, 1/2-W	554001-273
39	Lamp socket	200286-109
-	Neon lamp	217175-000
-	Bracket, lamp	300976-791
40	Conductor (10-inch blue)	206065-571

37. S-C 556B TELEPHONE

The S-C 556B Single-Line Wall Telephone with straight-line ringer and gas tube for superimposed ringing contains the common components and miscellaneous parts listed on page 78 plus a housing assembly and the miscellaneous parts listed below. (See fig. 36.)

Housing (Item 5) †

Color	Stock Number
Ivory	303117-806
Red	303117-807
Yellow	303117-808
Black	303117-809
White	303117-810
Blue	303117-811
Pink	303117-812
Beige	303117-814
Turquoise	303117-815
Green	303117-822
Gray	303117-823

Miscellaneous Parts

Item	Description	Stock Number
41	426A tube	208252-000
42	Screw, 6-32 × 3/8 HHIMS thd cut	304037-781
12	*Screw, 6-40 × 1/4 PHIMS	540111-365
14	*Terminal board retainer	300976-291
24	*Terminal board assembly	206012-901

* Part of package assembly used to equip telephone for A lead control or for separate talk and signal paths. Refer to page 89 (par. 45).

† Includes housing clip (item 6) and screw (item 4).

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38. S-C 552B TELEPHONE

The S-C 552B Single-Line Wall Telephone with exclusion switch contains the common components and miscellaneous parts listed on page 78 plus a housing assembly and the miscellaneous parts listed below. (See fig. 36.) If telephone is equipped for superimposed ringing, refer to page 67 (par. 22a) for information concerning tube and tube mounting.

Housing (Item 5)

Color	Stock Number
Ivory	303118-606
Red	303118-607
Yellow	303118-608
Black	303118-609
White	303118-610
Blue	303118-611
Pink	303118-612
Beige	303118-614
Turquoise	303118-615
Green	303118-622
Gray	303118-623

Miscellaneous Parts

Item	Description	Stock Number
7	Exclusion switch assembly	206012-781
8	Screw (bracket)	304037-791
9	Bracket (exclusion switch)	300976-381
12	Screw, 6-40 × 1/4 PHIMS	540111-365
14	Terminal board retainer	300976-291
24	Terminal board assembly	206012-503
-	Conductor (8-inch black)	206066-441
-	Conductor (8-inch green)	206066-451
-	Conductor (8-inch red)	206066-461

39. S-C 551B TELEPHONE

The S-C 551B Single-Line Wall Telephone with push-to-signal feature contains the common components and miscellaneous parts listed on page 78 plus a housing assembly and the miscellaneous parts listed below. (See fig. 36.) If telephone is equipped for superimposed ringing, refer to page 67 (par. 22a) for information concerning tube and tube mounting.

Housing (Item 5)

Color	Stock Number
Ivory	303118-306
Red	303118-307
Yellow	303118-308
Black	303118-309
White	303118-310
Blue	303118-311
Pink	303118-312
Beige	303118-314
Turquoise	303118-315
Green	303118-322
Gray	303118-323

Miscellaneous Parts

Item	Description	Stock Number
16	Key assembly	206012-741
31	Mounting bracket	300976-371
32	Screw, 6-40 × 1/4 PHIMS	540111-365
33	Screw (key assembly)	304037-791
12	*Screw, 6-40 × 1/4 PHIMS	540111-365
14	*Terminal board retainer	300976-291
24	*Terminal board assembly	206012-901

* Part of package assembly used to equip telephone for A lead control or for separate talk and signal paths. Refer to page 89 (par. 45).

40. S-C 553B TELEPHONE

The S-C 553B 2-Line Wall Telephone with push-to-signal feature contains the common components and miscellaneous parts listed on page 78 plus a housing assembly and the miscellaneous parts listed below. (See fig. 36.) If telephone is equipped for superimposed ringing, refer to page 67 (par. 22a) for information concerning tube and tube mounting.

Housing (Item 5)

Color	Stock Number
Ivory	303118-306
Red	303118-307
Yellow	303118-308
Black	303118-309
White	303118-310
Blue	303118-311
Pink	303118-312
Beige	303118-314
Turquoise	303118-315
Green	303118-322
Gray	303118-323

Miscellaneous Parts

Item	Description	Stock Number
12	Screw, 6-40 × 1/4 PHIMS	540111-365
14	Terminal board retainer	300976-291
16	Key assembly	206012-681
24	Terminal board assembly	206012-503
31	Mounting bracket	300976-371
32	Screw, 6-40 × 1/4 PHIMS	540111-365
33	Screw (key assembly)	304037-791
-	Conductor (8-inch black)	206066-441

41. S-C 550B TELEPHONE

The S-C 550B 2-Line Wall Telephone with hold contains the common components and miscellaneous parts listed on page 78 plus a housing assembly and the miscellaneous parts listed below. (See fig. 36.) If telephone is equipped for superimposed ringing, refer to page 67 (par. 22a) for information concerning tube and tube mounting.

Housing (Item 5)

Color	Stock Number
Ivory	303118-506
Red	303118-507
Yellow	303118-508
Black	303118-509
White	303118-510
Blue	303118-511
Pink	303118-512
Beige	303118-514
Turquoise	303118-515
Green	303118-522
Gray	303118-523

Miscellaneous Parts

Item	Description	Stock Number
7	Exclusion switch assembly	206014-061
8	Screw (bracket)	304037-791
9	Bracket (exclusion switch)	300976-381
12	Screw, 6-40 × 1/4 PHIMS	540111-365
14	Terminal board retainer	300976-291
15	Resistor, 470-ohm 5-watt (R1 and R2)	554554-471
16	Key assembly	206012-681
24	Terminal board assembly	206012-503
31	Mounting bracket (key assembly)	300976-371
32	Screw, 6-40 × 1/4 PHIMS	540111-365
33	Screw (key assembly)	304037-791
-	Conductor (8-inch black)	206066-441
-	Sleeving, No. 18 vinyl tubing	None

42. PARTS LIST FOR HANDSET ASSEMBLY (Fig. 37)

Color	Handset Cord 4-Conductor Item 1	Handle Item 2	Receiver Cap Item 4	Transmitter Cap Item 9
Ivory	200308-806	303101-806	303105-806	303110-806
Red	200308-807	303101-807	303105-807	303110-807
Yellow	200308-808	303101-808	303105-808	303110-808
Black	200308-809	303101-809	303105-809	303110-809
White	200308-810	303101-810	303105-810	303110-810
Blue	200308-811	303101-811	303105-811	303110-811
Pink	200308-812	303101-812	303105-812	303110-812
Beige	200308-814	303101-814	303105-814	303110-814
Turquoise	200308-815	303101-815	303105-815	303110-815
Green	200308-822	303101-822	303105-822	303110-822
Gray	200308-823	303101-823	303105-823	303110-823

Miscellaneous Parts

Item	Description	Stock Number
3	Cotton ball	300976-351
5	Receiver capsule	211881-000
6	Transmitter capsule	211969-000
7	Transmitter cup assembly	206012-279
8	Screw, 5-40 × 3/16 PHIMS	213387-000

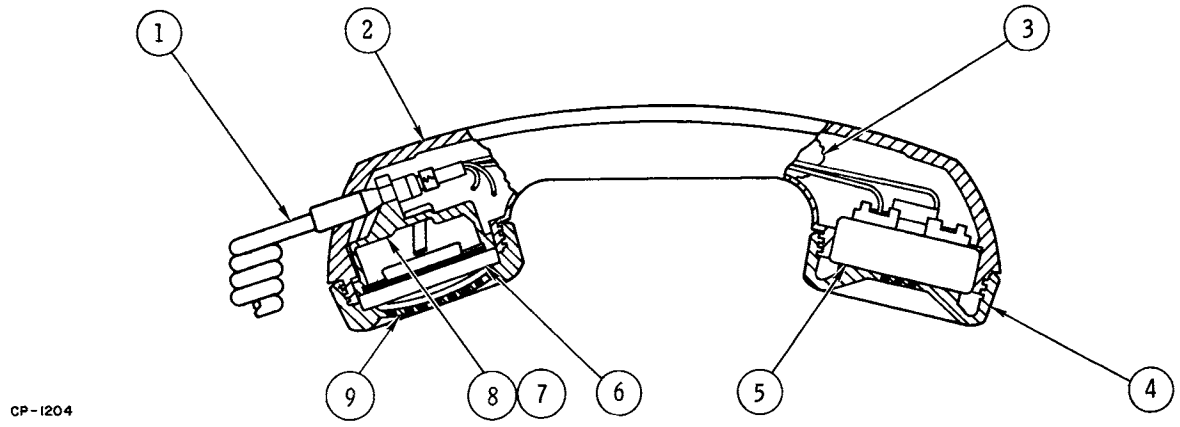


Figure 37. Handset Assembly, Parts Identification.

43. PARTS LIST FOR DIAL ASSEMBLY

Number Plates

Color	Stock Number
Ivory	303943-406
Red	303943-407
Yellow	303943-408
Black	303943-409
White	303943-410
Blue	303943-411
Pink	303943-412
Beige	303943-414
Turquoise	303943-415
Green	303943-422
Gray	303943-423

Miscellaneous Parts

Description	Stock Number
Black metal fingerwheel	207155-239
#8 Fingerwheel (clear plastic)	207155-019
Clamp plate	207155-039
Dust cover	207155-049
Fingerwheel nut	207155-059
Star washer (fingerwheel)	207155-069
Governor spring	207155-079
Screw (for mounting no. plate)	207155-089
Gear train and governor assembly for dial mechanism	207155-099
Main gear assembly	207155-109
Finger stop	207155-119
Screw for finger stop	207155-129
Protector (card)	207155-139
Hub and shaft assembly	207155-149
Motor spring	207155-159
Screw (dust cover, 2 required)	207155-169
Screw (spring assembly, 2 required)	207155-179
Spring block assembly	207155-189
Screw (gear train)	207155-199
Hex nut	207155-209
Washer	207155-219
Screw (dial mounting, 2 required)	207155-229
Card holder group (protector, retaining disk, and retaining ring)	207155-249

44. IDENTIFICATION ASSEMBLIES

Purpose	Stock Number
4-party identification using ringer coil	206287-841
4-party identification without using ringer coil	206012-533
2650-ohm tip-party identification	206012-543
1000-ohm tip-party identification	206012-523

45. PACKAGE ASSEMBLIES, "A" LEAD CONTROL OR SEPARATE TALK AND SIGNAL PATHS

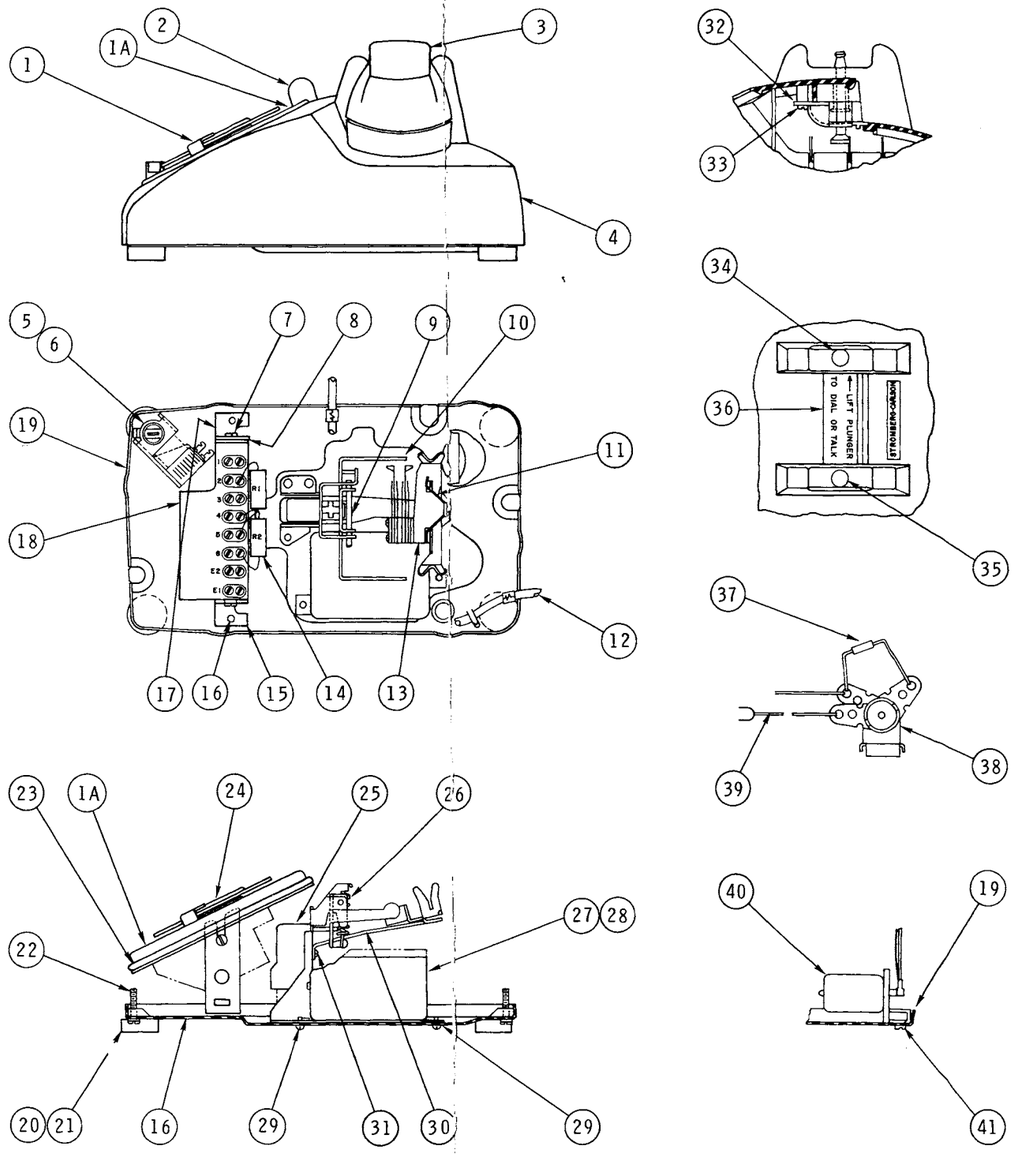
A terminal board must be added to some single-line telephones if these telephones are to be used in providing for A lead control or for providing separate talk and signal paths. Package assemblies that contain a terminal board assembly (206012-901); a terminal board retainer (300976-291); a 6-40 × 1/4 PHIMS screw; an instruction sheet (300976-701 for wall telephones, 300976-711 for desk telephones); and, for desk telephones, a 4-conductor line cord of the appropriate color (200318-506/512) are available.

For wall telephones, order package assembly 206013-053. For desk telephones, order the package assembly that contains the line cord of the appropriate color.

Color	Package Assembly
Ivory	206013-063
Red	206013-073
Yellow	206013-083
Black	206013-093
White	206013-103
Blue	206013-113
Pink	206013-123
Beige	206013-133
Turquoise	206013-143
Green	206013-153
Gray	206013-163

46. STATION NUMBER CARDS

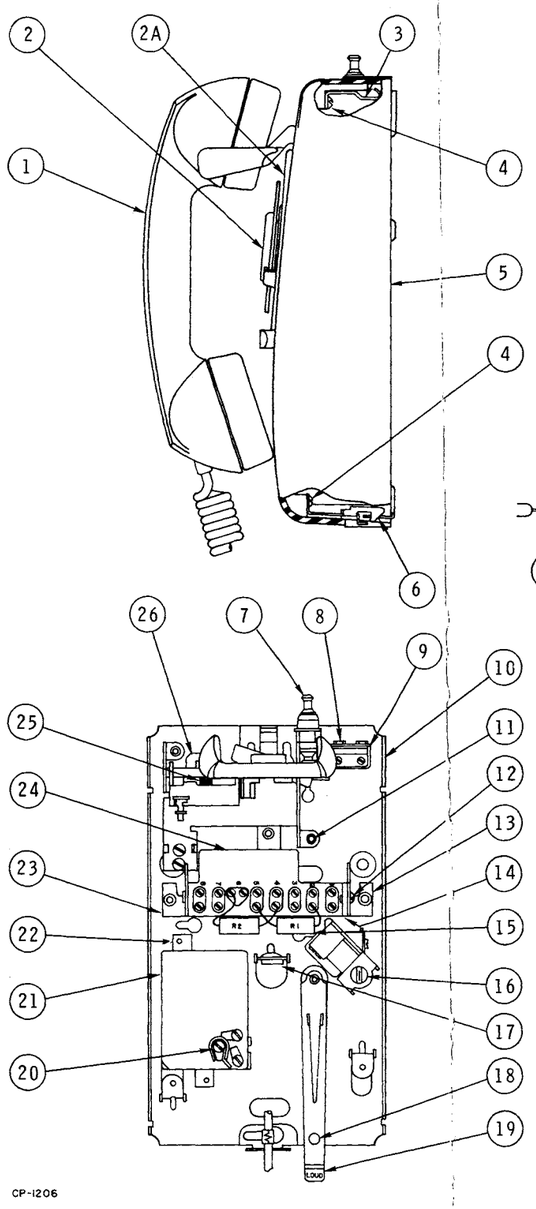
Station number cards can be ordered as individual cards (package assembly 206288-221) or they can be ordered on a strip that contains five cards (300001-481). The strip is marked with guide lines, which makes the strip suitable for pretyping the station number.

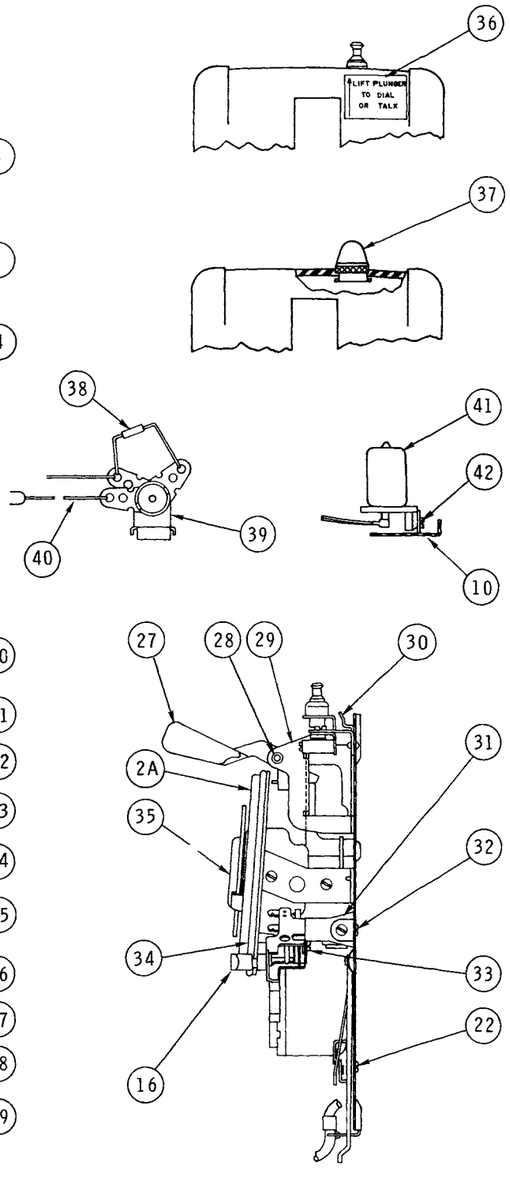


CP-1205

Note. This is a composite illustration no one telephone contains all parts shown.

Figure 35. Composite Illustration of Desk Telephone for Parts Identification.





Note. This is a composite illustration no one telephone contains all parts shown.

Figure 36. Composite Illustration of Wall Telephone for Parts Identification.

T-1125 ISSUE 2 S-C 500 SERIES TELEPHONES

Stromberg-Carlson

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