

STROMBERG-CARLSON
S-C 1500 SERIES
DESK TELEPHONES

Installation and Maintenance

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Figure 1. S-C 1500 TONE-DIAL
Desk Telephone with Pushbutton and Key Switch.



Figure 2. S-C 1500 TONE-DIAL
Desk Telephone with Plunger Switch.



Figure 3. S-C 1500 TONE-DIAL
Desk Telephone with Message-Waiting Lamp.

SECTION I

DESCRIPTION

1. GENERAL

Stromberg-Carlson S-C 1500 TONE-DIAL™ Telephones are available in desk models to provide either single-line or 2-line service plus a variety of special service features. The S-C 1500 Telephones are electrically interchangeable with standard 500-type telephones, can be used in connection with 500-type telephones, and are electrically and mechanically interchangeable with all standard 1500 types.

The basic S-C 1500 Telephone electrical circuit, except for dial, is the same as for the S-C 500 Telephone.

2. SPECIAL SERVICE FEATURES PUSHBUTTON TELEPHONES

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 whether 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 will (fig. 1) connect the dial and talk circuits to permit normal operation.

b. Private Conversation (Exclusion).

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. 1) and is returned to normal, automatically, when the handset is replaced in the cradle. If desired, the excluded party or parties can be rejoined to the conversation by depressing the plunger manually to the normal off-hook position, providing that they have remained off-hook.

c. Line Hold.

A line is placed on hold by lifting the plunger (fig. 1). The hold is released by restoring the plunger to the normal off-hook position. The hold is also released when the handset is replaced in the cradle. Line hold is used with the key switch (fig. 2) which causes transfer from one line to the other on 2-line telephones.

d. Message Waiting.

A flashing lamp (fig. 3) 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 PABX 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 telephones, and messages are accepted by a PABX attendant.

e. Pushbutton.

Telephones with pushbuttons are used for various services such as secretarial signaling, door release, etc. A common application is to use the pushbutton for a call transfer with PABX systems. The pushbutton and key switch (fig. 2) are combined in one assembly. One (S-C 1508B) or both (S-C 1510F and S-C 1575B) can be wired into the circuit, as required, with the switch key being used to transfer between lines 1 and 2.

3. SINGLE-LINE TELEPHONES

a. S-C 1500D Desk Telephone.

The S-C 1500D is used to provide individual or party line service with no special service features.

b. S-C 1500F Desk Telephone.

The S-C 1500F is equipped with a 2-step hookswitch to provide the lift-to-talk feature. This feature is suitable for party line service, and for installations using an extension telephone or telephones.

c. S-C 1500Y Desk Telephone.

The S-C 1500Y is equipped with a neon lamp to provide the message-waiting feature. This telephone operates from a PABX on a 2- or 3-wire basis.

d. S-C 1502B Desk Telephone.

The S-C 1502B is equipped with an exclusion switch to provide for privacy of conversation.

e. S-C 1508B Desk Telephone.

The S-C 1508B is equipped with a pushbutton to provide for signaling, door release, call transfer, or similar service.

4. 2-LINE TELEPHONES

a. S-C 1510F Desk Telephone.

The S-C 1510F is 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 1575B Desk Telephone.

The S-C 1575B is 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 signaling service.

5. RINGERS

Straight-line or frequency-selective ringers are available for use with the S-C 1500 Series Telephones. Both are available with or without volume control.

a. Straight-Line Ringer.

The straight-line ringer is a single-coil ringer with two windings that can be wired for bridged ringing, divided ringing, and divided ringing with 2-party identification.

b. Frequency-Selective Ringer.

The frequency-selective ringers are single-coil ringers with two windings that can be wired for bridged ringing, divided ringing, or for divided ringing with either 2-party or 4-party identification. Frequency-selective ringers are available in harmonic, synchronomic, and decimonic series.

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, 2-party, or up to 5-party service. Ringers wired for bridged ringing cannot be used in providing automatic party identification; however, networks that provide for 2-party or 4-party identification can be provided.

Harmonic			Synchronomic			Decimonic		
Frequency	With Volume Control	Without Volume Control	Frequency	With Volume Control	Without Volume Control	Frequency	With Volume Control	Without Volume Control
16-2/3	10WE	10NE	16	10WR	10NR	20	19WI	10NI
25	10WN	10NN	30	10WK	10NK	30	10WK	10NK
33-1/3	10WF	10NF	42	10WL	10NL	40	10WQ	10NQ
50	10WG	10NG	54	10WN	10NM	50	10WG	10NG
66-2/3	10WH	10NH	66	10WP	10NP	60	10WJ	10NJ

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. 8) on 2-party lines but not on 4-party lines.

c. Frequency-Selective Ringer.

Frequency-selective ringers can be wired to provide: 2-party service with selective ringing, 4-party service with selective ringing, or 8-party service with semiselective ringing. The ringer can be used in providing for automatic party identification (par. 8) 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. 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 stations 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 identifies 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.

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 coils or an identification assembly can be used in providing the identification mark required for tip-party identification.

(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. The 2650-ohm winding can be used only with the straight line ringer or frequency selective ringers at 16, 16-2/3, 20, or 25 Hz.

(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 S-C 1500-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 is not used, identification assembly 206012-533 can be used to provide the marking. Refer to the notes on the applicable wiring diagram (fig. 4 through 10) for necessary wiring changes to maintain correct polarity.

9. POLARITY GUARD

For special applications, when it is necessary to continue dialing after a computer or other equipment has been seized, a polarity guard assembly may be required. This assembly prevents reversed polarity from affecting the polarity at the dial (reversed polarity would preclude additional dialing because tones could not be generated). An example of this application is the accessing of a computer from an XY connector terminal.

SECTION II

INSTALLATION

10. STATION NUMBER CARD INSTALLATION

a. Removal of Dial Cover Plate.

Note. Use straightened standard paper clip or a tool having a similar point for these procedures.

(1) Insert tool in half-round hole in flat metal retainer at top of dial cover plate.

(2) Slide retainer (spring-loaded) into the housing. When retainer releases dial cover plate, the tool will drop below edge of the plate and is then used to gently pry upper part of plate away from housing.

(3) Lift plate away from housing.

b. Installation of Station Number Card.

(1) Insert station number card between retainer spring and dial cover plate.

(2) Check appearance of card from front side of plate and adjust position of card as necessary.

c. Installation of Dial Cover Plate.

(1) Insert bottom edge of dial cover plate into housing; then press forward over tone dial pushbuttons and keyswitch or message-waiting lamp as applicable until cover rests against the extended top retainer. Do not press hard or force. When necessary, pry lamp or switch assembly gently into position to fit through hole in cover.

(2) Lift upper edge of dial plate cover just enough to angle tool into position between cover and end of retainer. Slide retainer into housing until it clears dial cover plate, which will drop or can be pressed into position.

(3) Release retainer, and note that it slides over dial cover plate to secure it in position.

11. HOUSING REMOVAL AND INSTALLATION

a. Removal.

Loosen two base screws and lift housing away from base.

b. Installation.

(1) Place housing over base.

(2) If necessary, gently lever (through hole in dial cover plate) lamp or switch assembly so that it fits through hole.

(3) Check that cords exit through the openings provided for them.

(4) Tighten two base screws.

12. WIRING

Wire each set as directed below.

a. Remove set housing as directed in paragraph 10a.

b. Remove TONE-DIAL assembly as follows:

(1) Loosen two screws securing dial assembly to mounting frame (it is not necessary to remove screws).

(2) Gently spread frame to disengage positioning studs on dial assembly from holes in frame.

(3) Lift dial assembly away from frame and place to right side of set.

c. Refer to Wiring Diagram applicable to the type of telephone being installed (fig. 4 through 10). If polarity guard is required, refer to h below before proceeding.

d. Select the applicable class of service and appropriate Note or Notes for the type of service and connect spade lugs as indicated on the Wiring Diagram. Dress leads and lugs neatly so that no chance of shorting or interference with movable parts exists. Make certain that all leads are secure. It is essential that proper polarity be maintained. Otherwise the TONE-DIAL will not function properly.

e. Spread mounting frame for dial assembly gently; position dial assembly so that studs engage holes in frame; tighten screws.

f. Make test call in accordance with local procedures. If trouble is encountered, recheck connections. If trouble persists, refer to Troubleshooting Table.

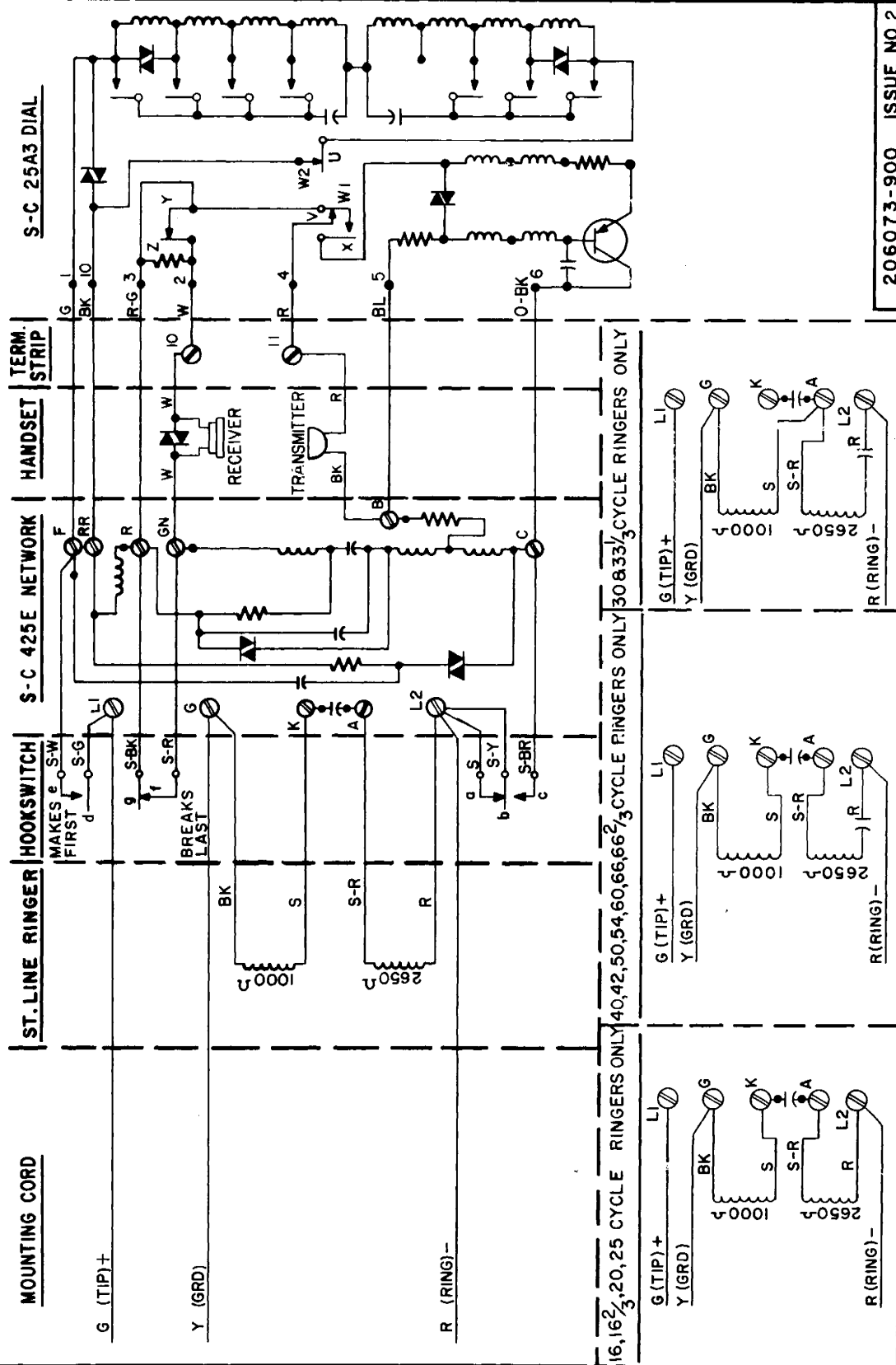
g. Replace housing as directed in paragraph 11b.

h. Polarity guard is to be mounted on terminal board. The polarity guard is electrically inserted between the S-W lead from the hookswitch and terminal F on the network, and between the S-BR lead and terminal C. Complete installation instructions accompany the equipment. After installation of polarity guard, proceed with d through g above.

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S-C 1500D TELEPHONE

WIRING DIAGRAM



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Figure 4. S-C 1500D Wiring Diagram (Sheet 1 of 2).

TABLE OF CONNECTIONS																							
CLASS OF SERVICE		CONNECTIONS AT CONNECTING BLOCK					CONNECTIONS AT NETWORK																
		LINE		MTG. CD.			STRAIGHT LINE RINGER LEADS				30 & 33 $\frac{1}{3}$ RINGER LEADS				ALL OTHER FREQ. LEADS			HOOKSWITCH LEADS					
							R	BK	S	S-R	R	BK	S	S-R	R	BK	S			S-R	S	S-W	S-BR
		RING	TIP	GND	R	G	Y	R	G	Y	R	BK	S	S-R	R	BK	S	S-R	R	BK	S	S-W	S-BR
BRIDGED		R	G	Y	R	G	G	L2	LI	G	L2	G	A	L2	G	A	L2	G	K	A	L2	F	C
RING PARTY		R	G	Y	R	G	Y	L2	LI	G	L2	G	A	L2	G	A	L2	G	K	A	L2	F	C
TIP PARTY NO IDENT TO GRD.		R	G	Y	R	G	Y	L2	LI	G	LI	G	A	LI	G	A	LI	G	K	A	L2	F	C
TIP PARTY 1000~IDENT TO GRD.		R	G	Y	G	R	Y	L2	LI	G	K	G	B	B	A	G	B	B	K	G	B	A	C
TIP PARTY 2650~IDENT TO GRD.		R	G	Y	G	R	Y	L2	LI	G	B	B	K	G	-	-	-	-	-	-	-	A	C
FOUR PARTY IDENTIFICATION		R	G	Y	SEE NOTE 1	Y	Y	L2	LI	G	-	-	-	A	G	SEE NOTE 1	K	G	SEE NOTE 1	SEE NOTE 1	SEE NOTE 1	SEE NOTE 1	SEE NOTE 1

NOTES:

1-FOR FOUR PARTY IDENTIFICATION SERVICE (WITH FREQUENCY RINGER ONLY)CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINAL (B) AND S-R AND S LEADS OF RINGER. IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206287-841.

2-TO PERMANENTLY SILENCE RINGERS :

A-FOR ALL SERVICES EXCEPT TIP PARTY IDENTIFICATION TO GROUND TRANSFER BK RINGER LEAD TO (A) TERMINAL OF NETWORK.

B-FOR TIP PARTY 1000*IDENTIFICATION TO GROUND TRANSFER S-R RINGER LEAD TO (K) TERMINAL OF NETWORK. BK LEAD TO (G) AND S LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.

C-FOR TIP PARTY 2650*IDENTIFICATION TO GROUND WITH STRAIGHT LINE RINGER. TRANSFER BK RINGER LEAD TO (K) TERMINAL OF NETWORK. S-R LEAD TO (G) AND R LEAD TO (B)MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.

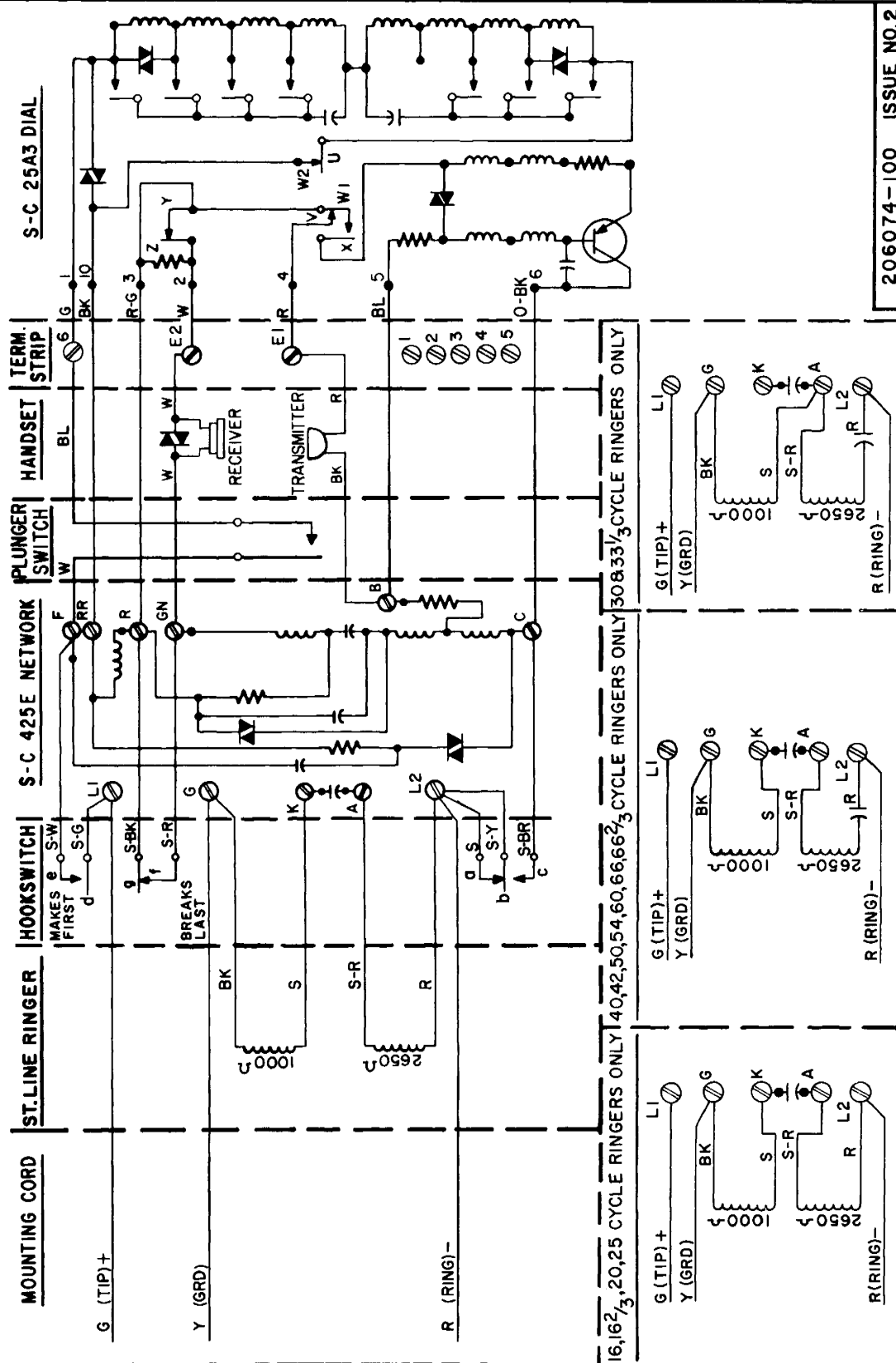
D-FOR FOUR PARTY IDENTIFICATION, TRANSFER S-R RINGER LEAD TO (K) TERMINAL OF NETWORK. BK LEAD TO (G) AND S LEAD TO IDENTIFICATION ASSEMBLY MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.

Figure 4. S-C 1500D Wiring Diagram (Sheet 2 of 2).

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S-C 1500F TELEPHONE

WIRING DIAGRAM



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Figure 5. S-C 1500F Wiring Diagram (Sheet 1 of 2).

TABLE OF CONNECTIONS													
CLASS OF SERVICE	CONNECTIONS AT CONNECTING BLOCK			CONNECTIONS AT NETWORK									
	LINE	TIP	GND	MTG. CD.		STRAIGHT LINE RINGER LEADS		30 & 33 1/3 RINGER LEADS		ALL OTHER FREQ. LEADS		HOOKSWITCH LEADS	
				R	G	R	G	BK	S	R	BK	S	S-BR
BRIDGED	R	G	Y	R	G	G	L2	L1	G	L2	G	K	A
RING PARTY	R	G	Y	R	G	Y	L2	L1	G	L2	G	K	A
TIP PARTY NO IDENT TO GRD.	R	G	Y	R	G	Y	L2	L1	G	L2	G	K	A
TIP PARTY 1000~IDENT TO GRD.	R	G	Y	R	G	Y	L2	L1	G	L2	G	K	A
TIP PARTY 2650~IDENT TO GRD.	R	G	Y	R	G	Y	L2	L1	G	L2	G	K	A
FOUR PARTY IDENTIFICATION	R	G	Y	R	G	Y	L2	L1	G	L2	G	K	A

NOTES:

- I-FOR FOUR PARTY IDENTIFICATION SERVICE (WITH FREQUENCY RINGER ONLY)CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINAL (B) AND S-R AND S LEADS OF RINGER. IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206287-84I.
- 2-TO PERMANENTLY SILENCE RINGERS :
 - A-FOR ALL SERVICES EXCEPT TIP PARTY IDENTIFICATION TO GROUND TRANSFER BK RINGER LEAD TO (A) TERMINAL OF NETWORK.
 - B-FOR TIP PARTY 1000~IDENTIFICATION TO GROUND TRANSFER S-R RINGER LEAD TO (K) TERMINAL OF NETWORK. BK LEAD TO (G) AND S LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
 - C-FOR TIP PARTY 2650~IDENTIFICATION TO GROUND WITH STRAIGHT LINE RINGER TRANSFER BK RINGER LEAD TO (K) TERMINAL OF NETWORK. S-R LEAD TO (G) AND R LEAD TO (B)MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.
 - D-FOR FOUR PARTY IDENTIFICATION, TRANSFER S-R RINGER LEAD TO (K) TERMINAL OF NETWORK. BK LEAD TO (G) AND S LEAD TO IDENTIFICATION ASSEMBLY MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.

Figure 5. S-C 1500F Wiring Diagram (Sheet 2 of 2).

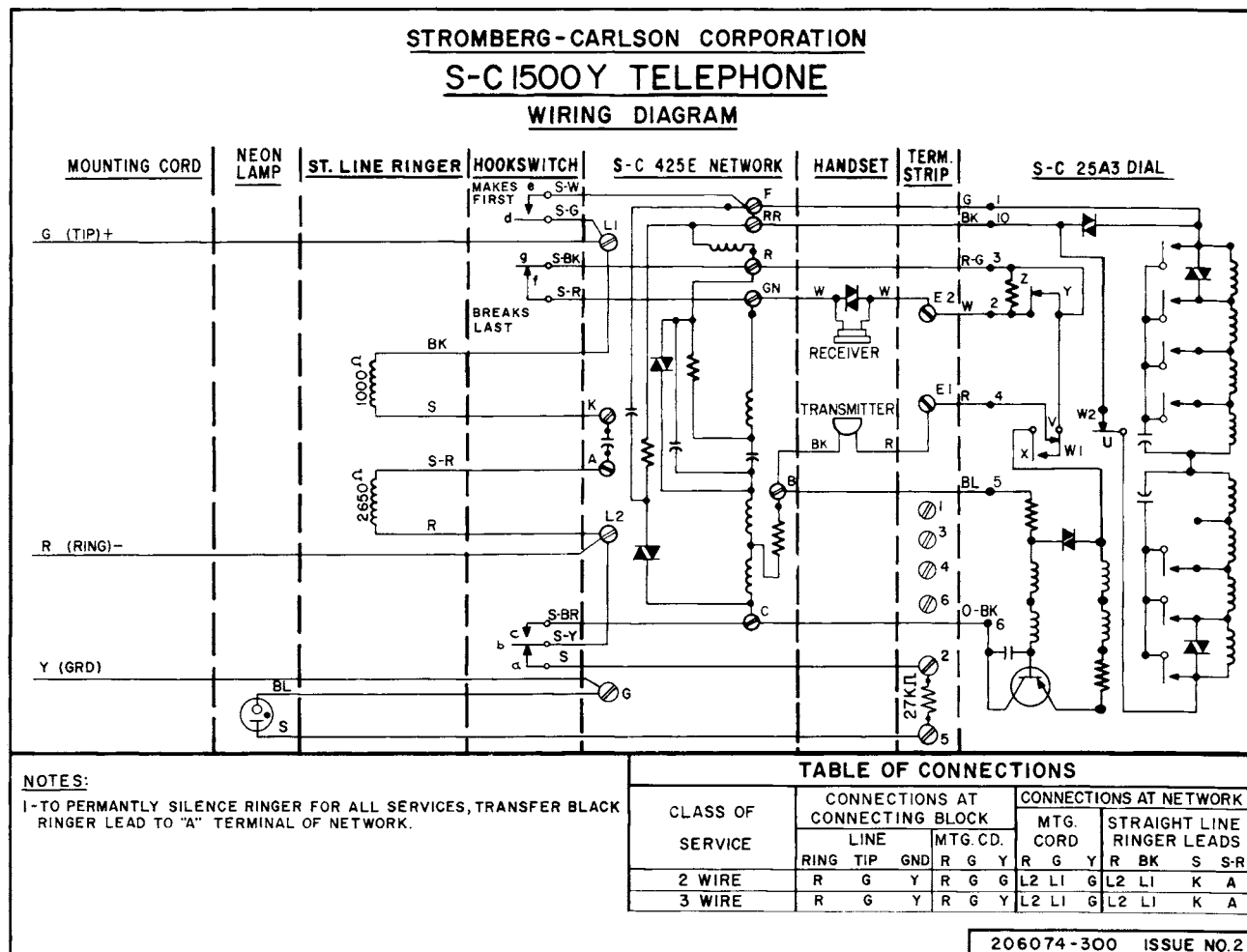
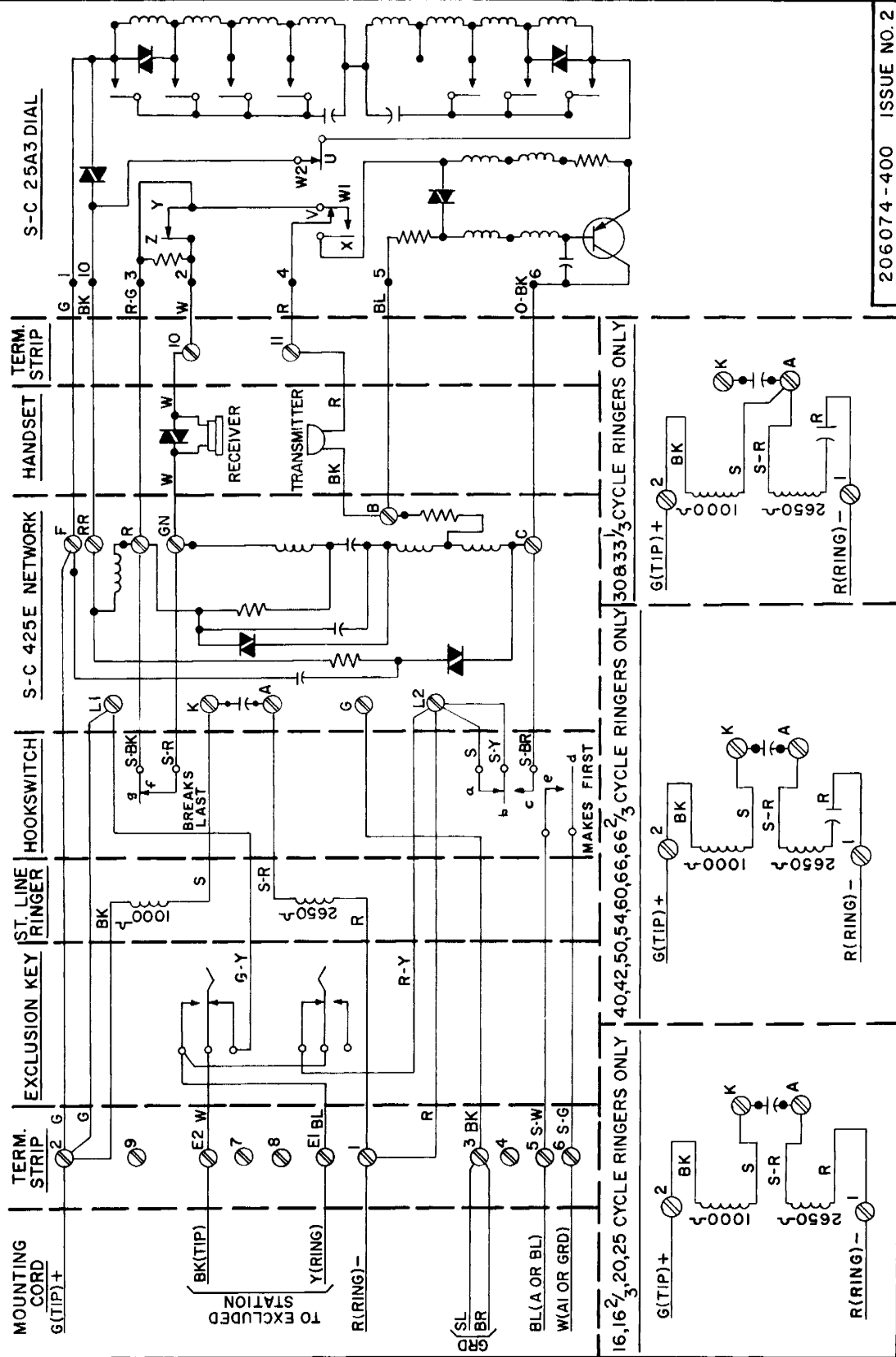


Figure 6. S-C 1500Y Wiring Diagram

STROMBERG-CARLSON CORPORATION

S-C 1502B TELEPHONE

WIRING DIAGRAM



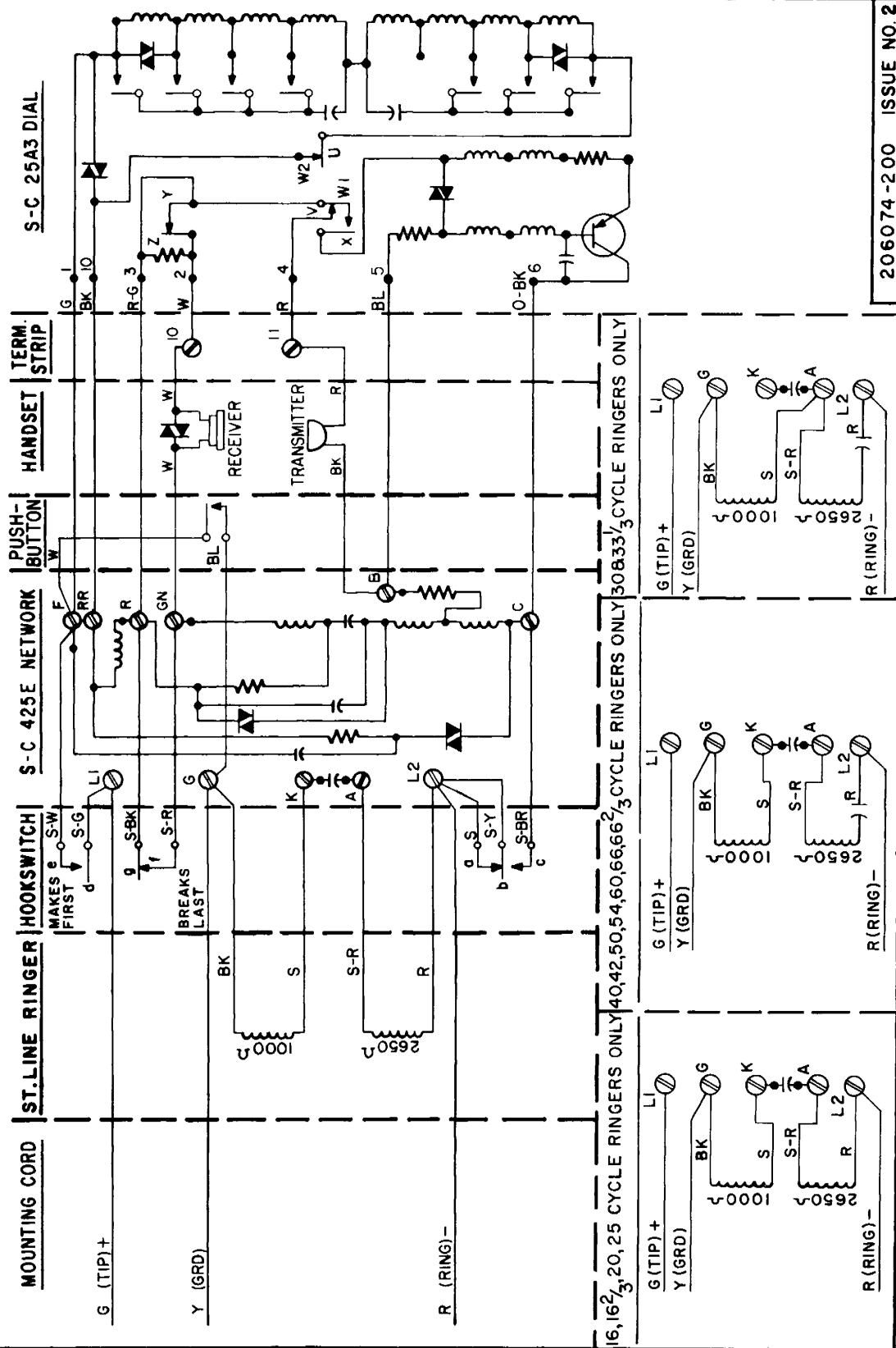
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Figure 7. S-C 1502B Wiring Diagram (Sheet 1 of 2).

STROMBERG-CARLSON CORPORATION

S-C 1508B TELEPHONE

WIRING DIAGRAM



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Figure 8. S-C 1508B Wiring Diagram (Sheet 1 of 2).

TABLE OF CONNECTIONS																				
CLASS OF SERVICE	CONNECTIONS AT				CONNECTIONS AT NETWORK															
	CONNECTING BLOCK			MTG. CORD	STRAIGHT LINE			30 & 33 1/3 RINGER LEADS			ALL OTHER FREQ. LEADS			HOOKSWITCH LEADS						
	RING	TIP	GND		MTG. R	CD. G	Y	R	BK	S	S-R	R	BK	S	S-R	S	S-W	S-BR		
BRIDGED	R	G	Y	R	G	Y	L2	LI	G	L2	LI	A	A	L2	LI	K	A	L2	F	C
RING PARTY	R	G	Y	R	G	Y	L2	LI	G	L2	G	A	A	L2	G	K	A	L2	F	C
TIP PARTY NO IDENT TO GRD.	R	G	Y	R	G	Y	L2	LI	G	LI	G	A	A	LI	G	K	A	L2	F	C
TIP PARTY 1000~IDENT TO GRD.	R	G	Y	G	R	Y	L2	LI	G	K	G	B	B	A	G	B	B	A	C	F
TIP PARTY 2650~IDENT TO GRD.	R	G	Y	G	R	Y	L2	LI	G	B	B	K	G	-	-	-	-	A	C	F
FOUR PARTY IDENTIFICATION	R	G	Y	SEE NOTE 1	Y		L2	LI	G	-	-	-	-	A	G	SEE NOTE 1	K	G	SEE NOTE 1	

NOTES:

1-FOR FOUR PARTY IDENTIFICATION SERVICE (WITH FREQUENCY RINGER ONLY)CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINAL (B) AND S-R AND S LEADS OF RINGER. IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206287-841.

2-TO PERMANENTLY SILENCE RINGERS :

A-FOR ALL SERVICES EXCEPT TIP PARTY IDENTIFICATION TO GROUND TRANSFER BK RINGER LEAD TO (A) TERMINAL OF NETWORK.

B-FOR TIP PARTY 1000~IDENTIFICATION TO GROUND TRANSFER S-R RINGER LEAD TO (K) TERMINAL OF NETWORK. BK LEAD TO (G) AND S LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.

C-FOR TIP PARTY 2650~IDENTIFICATION TO GROUND WITH STRAIGHT LINE RINGER. TRANSFER BK RINGER LEAD TO (K) TERMINAL OF NETWORK. S-R LEAD TO (G) AND R LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.

D-FOR FOUR PARTY IDENTIFICATION, TRANSFER S-R RINGER LEAD TO (K) TERMINAL OF NETWORK. BK LEAD TO (G) AND S LEAD TO IDENTIFICATION ASSEMBLY MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.

I-~~FOR~~ FOUR PARTY IDENTIFICATION SERVICE (WITH FREQUENCY RINGER ONLY)CONNECT IDENTIFICATION ASSEMBLY BETWEEN NETWORK TERMINAL (B) AND S-R AND S LEADS OF RINGER. IDENTIFICATION ASSEMBLY AND INSTRUCTIONS MAY BE FOUND IN PACKAGE ASSEMBLY 206287-841.

A- FOR ALL SERVICES EXCEPT TIP PARTY IDENTIFICATION TO GROUND TRANSFER BK RINGER LEAD TO (A) TERMINAL OF NETWORK.

B-FOR TIP PARTY 1000*IDENTIFICATION TO GROUND TRANSFER S-R RINGER LEAD TO (K) TERMINAL OF NETWORK, BK LEAD TO (G) AND S LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.

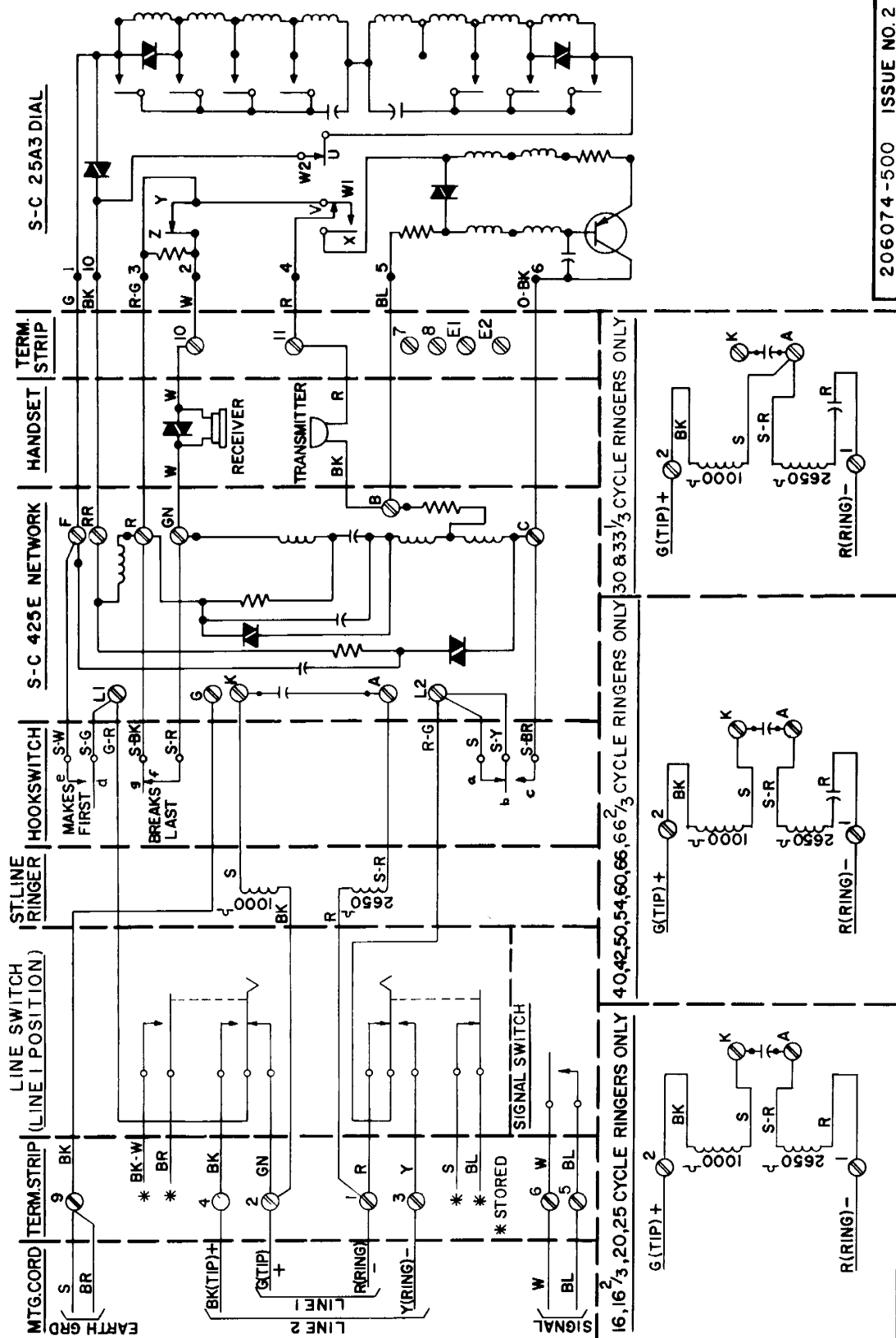
C-FOR TIP PARTY 2650*IDENTIFICATION TO GROUND WITH STRAIGHT LINE RINGER, TRANSFER BK RINGER LEAD TO (K) TERMINAL OF NETWORK, S-R LEAD TO (G) AND R LEAD TO (B) MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.

D-FOR FOUR PARTY IDENTIFICATION, TRANSFER S-R RINGER LEAD TO (K) TERMINAL OF NETWORK. BK LEAD TO (G) AND S LEAD TO IDENTIFICATION ASSEMBLY MUST REMAIN CONNECTED FOR PARTY IDENTIFICATION.

STROMBERG-CARLSON CORPORATION

S-C1510F TELEPHONE

WIRING DIAGRAM



206074-500 ISSUE NO. 2

Figure 9. S-C 1510F Wiring Diagram (Sheet 1 of 2).

TABLE OF CONNECTIONS												
CLASS OF SERVICE	CONNECTIONS AT NETWORK OR TERMINAL STRIP											
	MOUNTING CORD (NOTE 1)				STRAIGHT LINE RINGER LEADS				30 & 33 $\frac{1}{2}$ RINGER LEADS			
	R	G	Y	BK	BL	W	S	BR	R	BK	S	S-R
BRIDGED	1	2	3	4	5	6	—	—	1	2	K	A
RING PARTY	1	2	3	4	5	6	9	9	1	G	K	A
TIP PARTY NO IDENT. TO GRD	1	2	3	4	5	6	9	9	2	G	K	A
TIP PARTY 1000" IDENT. TO GRD	1	2	3	4	5	6	9	9	2	G	K	A
TIP PARTY 2650" IDENT. TO GRD	1	2	3	4	5	6	9	9	2	G	K	A
FOUR PARTY IDENTIFICATION	1	2	3	4	5	6	9	9	—	—	—	—
CALL TRANSFER (NOTE 4)	L2	L1	3	—	—	—	—	—	L2	L1	K	A

NOTES:

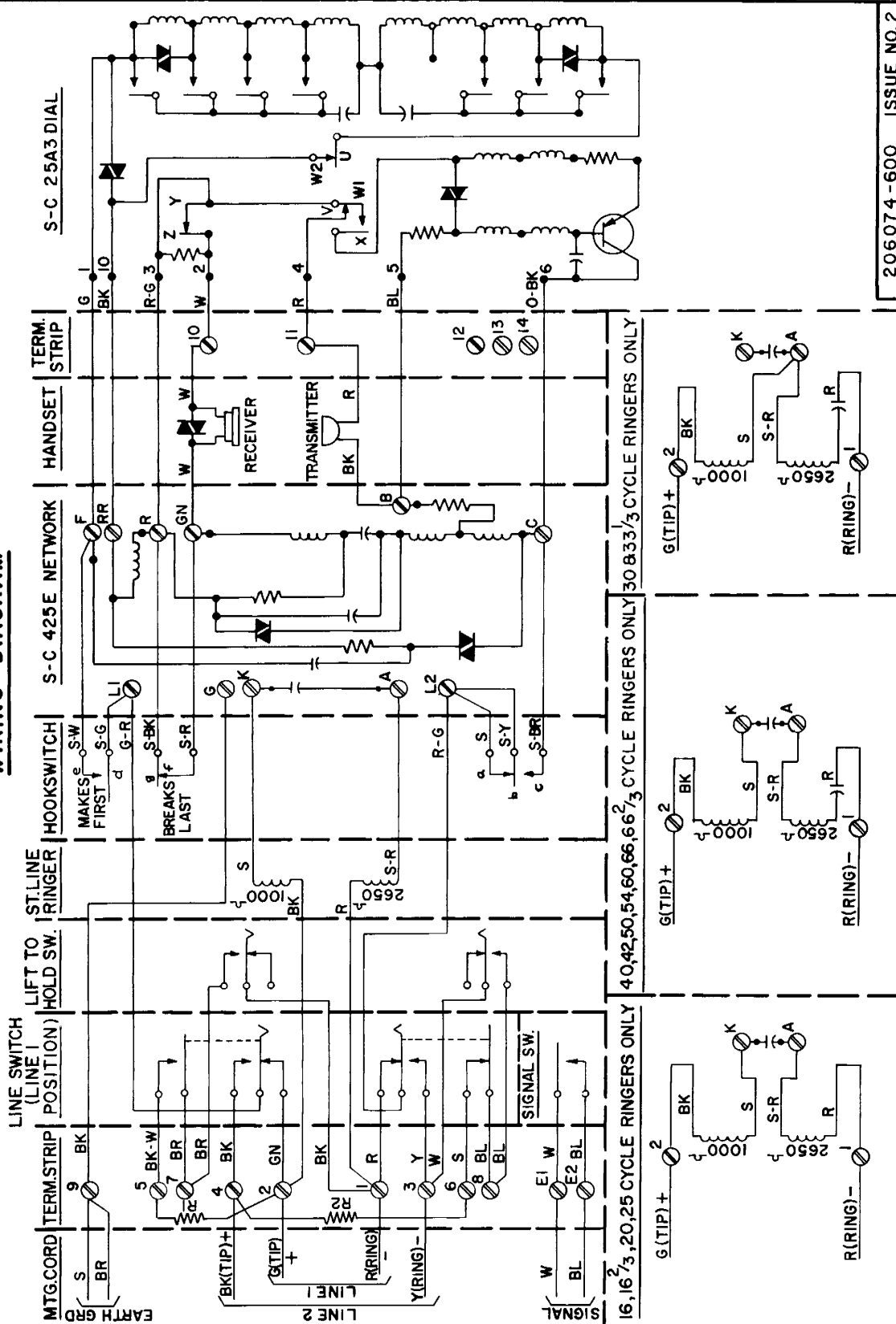
- 1- TELEPHONE NORMALLY FURNISHED WITH A SIX CONDUCTOR MOUNTING CORD AND WIRED FOR BRIDGED CONDITION. WHEN OTHER CLASSES OF SERVICE ARE DESIRED, REQUEST EIGHT CONDUCTOR MOUNTING CORD.
- 2- WHEN TIP PARTY IDENTIFICATION TO GROUND OR FOUR PARTY IDENTIFICATION IS REQUIRED, ORDER PACKAGE ASSEMBLY INDICATED IN TABLE ABOVE.
- 3- TO USE "SIGNAL SWITCH" FOR PUSHBUTTON TRANSFER, CONNECT WHITE MOUNTING CORD WIRE TO EARTH GROUND AND MOVE BLUE SIGNAL SWITCH WIRE TO TERMINAL "C" ON TELEPHONE NETWORK.
- 4- WHEN USING TELEPHONE FOR SINGLE LINE WITH LOCKING CALL TRANSFER, CONNECT "TIP" TO L1, "RING" TO L2 AND EARTH GROUND TO 3. TAPE BACK BLACK, BLUE AND WHITE WIRES TO PREVENT SHORTING. TURNING KEY TO POSITION 2 WILL PLACE LINE IN CALL TRANSFER.

Figure 9. S-C 1510F Wiring Diagram (Sheet 2 of 2).

STROMBERG-CARLSON CORPORATION

S-C 1575B TELEPHONE

WIRING DIAGRAM



206074-600 ISSUE NO. 2

Figure 10. S-C 1575B Wiring Diagram (Sheet 1 of 2).

TABLE OF CONNECTIONS

CLASS OF SERVICE	CONNECTIONS AT NETWORK OR TERMINAL STRIP																	IDENTIFICATION PACKAGE ASSEMBLY (NOTE 2)
	MOUNTING CORD (NOTE 1)				STRAIGHT LINE RINGER LEADS				30 & 33 1/2 RINGER LEADS				ALL OTHER FREQ. LEADS					
	R	G	Y	BK	BL	W	S	BR	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	—	
RING PARTY	1	2	3	4	E2	E1	9	9	1	G	K	A	1	G	K	A	—	
TIP PARTY NO IDENT. TO GRD	1	2	3	4	E2	E1	9	9	2	G	K	A	2	G	K	A	—	
TIP PARTY 1000" IDENT. TO GRD	1	2	3	4	E2	E1	9	9	2	G	K	A	2	G	K	A	206012-523	
TIP PARTY 2650" IDENT. TO GRD	1	2	3	4	E2	E1	9	9	2	G	K	A	2	G	K	A	206012-543	
FOUR PARTY IDENTIFICATION	1	2	3	4	E2	E1	9	9	—	—	—	—	1	2	A	A	206012-533	
CALL TRANSFER (NOTE 4)	L2	L1	3	—	—	—	—	—	L2	L1	K	A	L2	L1	K	A	—	

NOTES:

- 1- 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.
- 2- WHEN TIP PARTY IDENTIFICATION TO GROUND OR FOUR PARTY IDENTIFICATION IS REQUIRED, ORDER PACKAGE ASSEMBLY INDICATED IN TABLE ABOVE.
- 3- TO USE "SIGNAL SWITCH" FOR PUSHBUTTON TRANSFER, CONNECT WHITE MOUNTING CORD WIRE TO EARTH GROUND AND MOVE BLUE SIGNAL SWITCH WIRE TO TERMINAL "C" ON TELEPHONE NETWORK.
- 4- WHEN USING TELEPHONE FOR SINGLE LINE WITH LOCKING CALL TRANSFER, CONNECT "TIP" TO L1, "RING" TO L2 AND EARTH GROUND TO 3. TAPE BACK BLACK, BLUE AND WHITE WIRES TO PREVENT SHORTING. TURNING KEY TO POSITION 2 WILL PLACE LINE IN CALL TRANSFER.

NOTES:

- 1- 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.
- 2- WHEN TIP PARTY IDENTIFICATION TO GROUND OR FOUR PARTY IDENTIFICATION IS REQUIRED, ORDER PACKAGE ASSEMBLY INDICATED IN TABLE ABOVE.
- 3- TO USE "SIGNAL SWITCH" FOR PUSHBUTTON TRANSFER, CONNECT WHITE MOUNTING CORD WIRE TO EARTH GROUND AND MOVE BLUE SIGNAL SWITCH WIRE TO TERMINAL "C" ON TELEPHONE NETWORK.
- 4- WHEN USING TELEPHONE FOR SINGLE LINE WITH LOCKING CALL TRANSFER, CONNECT "TIP" TO L1, "RING" TO L2 AND EARTH GROUND TO 3. TAPE BACK BLACK, BLUE AND WHITE WIRES TO PREVENT SHORTING. TURNING KEY TO POSITION 2 WILL PLACE LINE IN CALL TRANSFER.

Figure 10. S-C 1575B Wiring Diagram (Sheet 2 of 2).

SECTION III

FIELD MAINTENANCE

13. GENERAL

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

14. 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 dry silicone or equivalent. If plungers stick after cleaning and lubrication, replace the housing.

If the left-hand plunger on an S-C 1500F, S-C 1502B, or S-C 1575B Telephone fails to lock when pulled upward, replace set and return.

15. HOOKSWITCH

To obtain access to hookswitch contacts, remove tone dial assembly by loosening the screw on each side of the mounting bracket. Lift assembly off and set to one side.

To remove hookswitch spring contact cover, squeeze bottom sides of cover until projections, which fit into holes of mounting bracket, are free. Pull bottom of cover away from bracket while lifting upward to a horizontal position; this frees the top retaining projection of the cover so that it can be removed. Reverse this procedure to install. When necessary, clean hookswitch contacts with a burnishing tool having a clean blade.

Check the hookswitch to make certain that it moves freely without bending or squeaking. If hookswitch bends 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 dry silicone or equivalent.

16. TONE-DIAL

When a malfunction has been localized to the TONE-DIAL assembly, it is recommended that the complete assembly be replaced. Tone dial connections to the network and terminal board are shown in the following chart.

S-C 25A3 DIAL TO NETWORK AND TERMINAL BOARD CONNECTIONS

Telephone		S-C 25A3 Dial Leads -- Color Coding					
Type	Green	Black	Red-Grn	White	Red	Blue	Orn-Blk
S-C 1500D	Net-F	Net-RR	Net-R	TB-10	TB-11	Net-B	Net-C
S-C 1500F	TB-6	Net-RR	Net-R	TB-E2	TB-E1	Net-B	Net-C
S-C 1500Y	Net-F	Net-RR	Net-R	TB-E2	TB-E1	Net-B	Net-C
S-C 1502B	Net-F	Net-RR	Net-R	TB-10	TB-11	Net-B	Net-C
S-C 1508B	Net-F	Net-RR	Net-R	TB-10	TB-11	Net-B	Net-C
S-C 1510F	Net-F	Net-RR	Net-R	TB-10	TB-11	Net-B	Net-C
S-C 1575B	Net-F	Net-RR	Net-R	TB-10	TB-11	Net-B	Net-C

17. TROUBLESHOOTING

If the trouble has been isolated to the telephone set, use the applicable wiring

diagram (fig. 4 through 10) and the following troubleshooting table to locate and correct the fault.

TROUBLESHOOTING TABLE

Trouble	Probable Cause	Corrective Action
Bell does not ring.	Ringer wired incorrectly. Loudness control in cut-off position. Open ringer winding. Metal particles in armature gap. Open capacitor.	Connect correctly. Adjust control to provide desired ringing level. Replace ringer. Remove with cellophane tape or approved equivalent. Bridge terminals A and K of network with 0.45 uf capacitor.
Bell too loud.	Volume control in wrong position.	Adjust control to obtain desired loudness and instruct customer on proper use.
Bell not loud enough.	Telephone on sound-absorbing material. Cord touching gong.	Place telephone on hard surface. Dress cord properly.
Bell taps when hookswitch is operated.	Incorrect wiring. Gong loose. Bias tension too low.	Check mounting cord and ringer connections. Tighten screw. 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. Bias tension too low.	Check mounting cord and ringer connections. 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. Open in network. Open set wiring. Line contacts on hook-switch do not close.	Replace cord. Replace network. Replace wiring. Check hookswitch cover for interference.

TROUBLESHOOTING TABLE (cont)

Trouble	Probable Cause	Corrective Action
No dial tone or set dead.	Open mounting cord or handset cord.	Replace cord.
	Defective receiver unit or shorted varistor.	Replace receiver unit.
	Open in network.	Replace network.
	Hookswitch contacts do not operate.	Check hookswitch cover for interference.
Cannot break dial tone.	Dial filter capacitor shorted.	Replace network.
Receive signal weak no transmit signal.	Defective common switch on tone dial.	Replace tone dial assembly.
No tone heard while dialing.	Reversed polarity.	Check for correct wiring of mounting cord.
Cannot hear.	Open or shorted receiver unit or handset cord.	Replace receiver unit or handset cord.
	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.
TONE-DIAL tone not heard while depressing buttons.	Dial polarity incorrect.	Check wiring diagram and connect properly.
	Defective dial assembly.	Replace dial assembly.
Unable to dial through to called party.	Defective dial assembly.	Replace dial assembly.

SECTION IV

ORDERING INFORMATION

18. GENERAL

Stromberg-Carlson S-C 1500 Series desk telephones, ringers, subassemblies, and components can be ordered from your Stromberg-Carlson Branch Sales Office.

19. ORDERING TELEPHONES

To order S-C 1500 Telephones, specify Model No., color, quantity of each, and special features, such as separate talk and ring, "A" lead control, or 4-party identification. Other special features can be provided on request, and should be specified with the order. Ringers are supplied separately, except for the S-C 1500D (black only) which is furnished with straight line or frequency ringer when so ordered. Eleven diverse colors are available for all other models: Ivory, Red, Yellow, Black, White, Blue, Pink, Beige, Turquoise, Green, and Gray.

The Model No. and description of the various services provided by each are as follows:

S-C 1500D - Single-line.

S-C 1500D - Single-line, equipped with ringer (black only).

S-C 1500F - Single-line, lift-to-talk.

S-C 1500Y - Single-line, message waiting.

S-C 1502B - Single-line, exclusion switch for private conversation.

S-C 1508B - Single-line, pushbutton transfer.

S-C 1510F - Two-line, push-to-signal.

S-C 1575B - Two-line, with hold, push-to-signal.

20. ORDERING RINGERS

a. Straight-Line Ringer.

The Stromberg-Carlson C4A Ringer is a single-coil ringer with two windings that can be used in all standard Stromberg-Carlson 1500 Series Telephones. The C4A Ringer can be used for single-party service, for party message-rate service, or for party identification when used with 2-party automatic station identification equipment.

b. Frequency-Selective Ringer.

The Stromberg-Carlson Frequency-Selective Ringers can be used in all standard Stromberg-Carlson 1500-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 Frequency-Selective Ringers.

Freq.	<u>Harmonic</u>	
	With Volume Control	Without Volume Control
16-2/3	10WE	10NE
25	10WN	10NN
33-1/3	10WF	10NF
50	10WG	10NG
66-2/3	10WH	10NH

Freq.	<u>Synchromonic</u>	
	With Volume Control	Without Volume Control
16	10WR	10NR
30	10WK	10NK
42	10WL	10NL
54	10WM	10NM
66	10WP	10NP

Freq.	<u>Decimonic</u>	Without Volume Control
	With Volume Control	
20	10WI	10NI
30	10WK	10NK
40	10WQ	10NQ
50	10WG	10G
60	10WJ	10NJ

21. ORDERING IDENTIFICATION ASSEMBLIES

When the central office is equipped for 4-party marking, lines having only two parties must provide marking equivalent to that provided by the first and second parties on a 4-party line (a or b below). Tip-party identification cannot be used when the central office is equipped for 4-party marking. Tip-party identification is limited to 2-party lines and can be used only when the central office is equipped for 2-party marking (c and b below). In addition, a tip-party

identification assembly is required only when the ringer coil is not available to provide the proper resistance ground mark.

a. 4-Party Identification Using Ringer Coils.

Order one assembly 206287-841 for each telephone having a ringer.

b. 4-Party Identification Without Using Ringer Coils.

Order one assembly 206012-533 for each telephone not having a ringer.

c. 2650-Ohm Tip-Party Identification.

Order one assembly 206012-543 for each telephone not having a ringer.

d. 1000-Ohm Tip-Party Identification.

Order one assembly 206012-523 for each telephone not having a ringer.

22. ORDERING HANDSET ASSEMBLY REPLACEMENT PARTS

Complete handset assemblies are listed in figure 12. The following handset assembly parts (fig. 11) can be ordered separately.

Color	Handset Cord 4-Conductor	Handle	Receiver Cap	Transmitter Cap
	Item 1	Item 2	Item 4	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 PHMS	213387-000

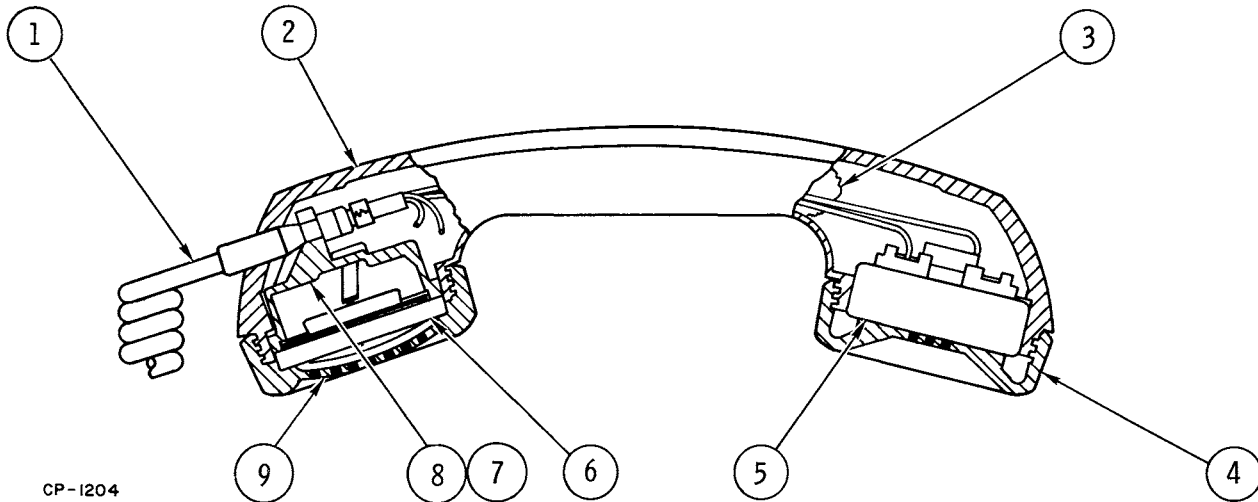


Figure 11. Handset Assembly Parts Identification

23. ORDERING S-C 1500 TELEPHONE COMPONENTS

Locational diagrams and accompanying parts lists are provided to facilitate ordering (fig. 12 through 20). Locational diagrams are modified assembly drawings that enable the user to locate and identify each part. The related item number is referenced to the parts list to obtain the description and stock number required for ordering.

Many parts are common to all models; these are illustrated in fig. 12. Diagrams

for each model follow. These depict the parts peculiar to the particular model.

In addition, many parts are common to more than one model, but not to all. In order to facilitate stocking of spare parts and initiation of an inventory control system, the following chart provides data on the multiple use of parts other than those common to all models. The parts listed in figure 12 can be used for this purpose with respect to common parts.

S-C 1500 Series Telephone Multiple-Use Parts
Listing

Description	Stock No.	S-C 1500 Series Telephone Multiple-Use Parts						
		S-C 1500D	S-C 1500D (BLK W/R)	S-C 1500F	S-C 1500Y	S-C 1502B	S-C 1508B	S-C 1510F
Housing Assembly (Ivory)	205037-706	×			×		×	×
Housing Assembly (Red)	205037-707	×			×		×	×
Housing Assembly (Yellow)	205037-708	×			×		×	×
Housing Assembly (Black)	205037-709	×	×		×		×	×
Housing Assembly (White)	205037-710	×			×		×	×
Housing Assembly (Blue)	205037-711	×			×		×	×
Housing Assembly (Pink)	205037-712	×			×		×	×
Housing Assembly (Beige)	205037-714	×			×		×	×
Housing Assembly (Turquoise)	205037-715	×			×		×	×
Housing Assembly (Green)	205037-722	×			×		×	×
Housing Assembly (Gray)	205037-723	×			×		×	×
Housing Assembly (Ivory)	205037-806			×		×		×
Housing Assembly (Red)	205037-807			×		×		×
Housing Assembly (Yellow)	205037-808			×		×		×
Housing Assembly (Black)	205037-809			×		×		×
Housing Assembly (White)	205037-810			×		×		×
Housing Assembly (Blue)	205037-811			×		×		×
Housing Assembly (Pink)	205037-812			×		×		×
Housing Assembly (Beige)	205037-814			×		×		×

S-C 1500 Series Telephone Multiple-Use Parts
Listing (cont)

Description	Stock No.	S-C 1500 Series Telephone Multiple-Use Parts Listing (cont)						
		S-C 1500D	S-C 1500D (BLK W/R)	S-C 1500F	S-C 1500Y	S-C 1502B	S-C 1508B	S-C 1510F
Housing Assembly (Turquoise)	205037-815			x		x		x
Housing Assembly (Green)	205037-822			x		x		x
Housing Assembly (Gray)	205037-823			x		x		x
Line Cord, 3 Cond. (Ivory)	200318-306	x		x	x		x	
Line Cord, 3 Cond. (Red)	200318-307	x		x	x		x	
Line Cord, 3 Cond. (Yellow)	200318-308	x		x	x		x	
Line Cord, 3 Cond. (Black)	200318-309	x	x	x	x		x	
Line Cord, 3 Cond. (White)	200318-310	x		x	x		x	
Line Cord, 3 Cond. (Blue)	200318-311	x		x	x		x	
Line Cord, 3 Cond. (Pink)	200318-312	x		x	x		x	
Line Cord, 3 Cond. (Beige)	200318-314	x		x	x		x	
Line Cord, 3 Cond. (Turquoise)	200318-315	x		x	x		x	
Line Cord, 3 Cond. (Green)	200318-322	x		x	x		x	
Line Cord, 3 Cond. (Gray)	200318-323	x		x	x		x	
Package Assembly, TB & 4 Cond. (Ivory)	206287-961	x		x	x		x	
Package Assembly, TB & 4 Cond. (Red)	206287-971	x		x	x		x	
Package Assembly, TB & 4 Cond. (Yellow)	206287-981	x		x	x		x	
Package Assembly, TB & 4 Cond. (Black)	206287-991	x	x	x	x		x	
Package Assembly, TB & 4 Cond. (White)	206288-011	x		x	x		x	

S-C 1500 Series Telephone Multiple-Use Parts
Listing (cont)

Description	Stock No.	S-C 1500 Series Telephone Multiple-Use Parts Listing (cont)						
		S-C 1500D	S-C 1500D (BLK W/R)	S-C 1500F	S-C 1500Y	S-C 1502B	S-C 1508B	S-C 1510F
Package Assembly, TB & 4 Cond. (Blue)	206288-021	×		×	×		×	
Package Assembly, TB & 4 Cond. (Pink)	206288-031	×		×	×		×	
Package Assembly, TB & 4 Cond. (Beige)	206288-041	×		×	×		×	
Package Assembly, TB & 4 Cond. (Turquoise)	206288-051	×		×	×		×	
Package Assembly, TB & 4 Cond. (Green)	206288-061	×		×	×		×	
Package Assembly, TB & 4 Cond. (Gray)	206288-071	×		×	×		×	
Line Cord, 6 Cond. (Ivory)	200318-606					×		×
Line Cord, 6 Cond. (Red)	200318-607					×		×
Line Cord, 6 Cond. (Yellow)	200318-608					×		×
Line Cord, 6 Cond. (Black)	200318-609					×		×
Line Cord, 6 Cond. (White)	200318-610					×		×
Line Cord, 6 Cond. (Blue)	200318-611					×		×
Line Cord, 6 Cond. (Pink)	200318-612					×		×
Line Cord, 6 Cond. (Beige)	200318-614					×		×
Line Cord, 6 Cond. (Turquoise)	200318-615					×		×
Line Cord, 6 Cond. (Green)	200318-622					×		×
Line Cord, 6 Cond. (Gray)	200318-623					×		×
Line Cord, 8 Cond. (Ivory)	200318-706					×		×
Line Cord, 8 Cond. (Red)	200318-707					×		×

S-C 1500 Series Telephone Multiple-Use Parts
Listing (cont)

Description	Stock No.	S-C 1500 Series Telephone Multiple-Use Parts Listing (cont)							
		S-C 1500D	S-C 1500D (BLK W/R)	S-C 1500F	S-C 1500Y	S-C 1502B	S-C 1508B	S-C 1510F	S-C 1575B
Line Cord, 8 Cond. (Yellow)	200318-708					×		×	×
Line Cord, 8 Cond. (Black)	200318-709					×		×	×
Line Cord, 8 Cond. (White)	200318-710					×		×	×
Line Cord, 8 Cond. (Blue)	200318-711					×		×	×
Line Cord, 8 Cond. (Pink)	200318-712					×		×	×
Line Cord, 8 Cond. (Beige)	200318-714					×		×	×
Line Cord, 8 Cond. (Turquoise)	200318-715					×		×	×
Line Cord, 8 Cond. (Green)	200318-722					×		×	×
Line Cord, 8 Cond. (Gray)	200318-723					×		×	×
Plate, Dial Cover	300976-641	×	×	×		×			
Plate, Dial Cover	300976-651				×		×	×	×
Arm, Lever	300975-151	×	×		×		×	×	
Arm, Lever	300977-391			×		×			×
Terminal Board Assembly	206012-731					×		×	
Terminal Board Assembly	206012-891	×	×				×		
Terminal Board Assembly	206012-901			×	×				
Terminal Board Assembly	206012-911								×
Bracket, Key Mounting	300976-691						×	×	×
Screw	304037-791						×	×	×

S-C 1500 Series Telephone Multiple-Use Parts
Listing (cont)

		S-C 1500D	S-C 1500D (BLK W/R)	S-C 1500F	S-C 1500Y	S-C 1502B	S-C 1508B	S-C 1510F	S-C 1575B
Description	Stock No.								
Screw, 4-48 × 1/8 PHMS	513072-000			×		×			×
Key Assembly	206013-181							×	×
Key Assembly	206013-191						×		
Exclusion Switch Assembly	206012-721			×		×			×
Extension Arm	300976-201			×		×			×
Wire Retainer	300976-171			×		×			×
Cord, 8-inch Black	206066-441					×			
Cord, 8-inch Green	206066-451					×			
Cord, 8-inch Red	206066-461					×			
Label	300976-331			×					
Bracket, Lamp	300977-521				×				
Resistor, 27K, 1/2W	554001-273				×				
Lamp Assembly	206013-491				×				
Resistor, 470 ohm, 5W (R1, R2)									×

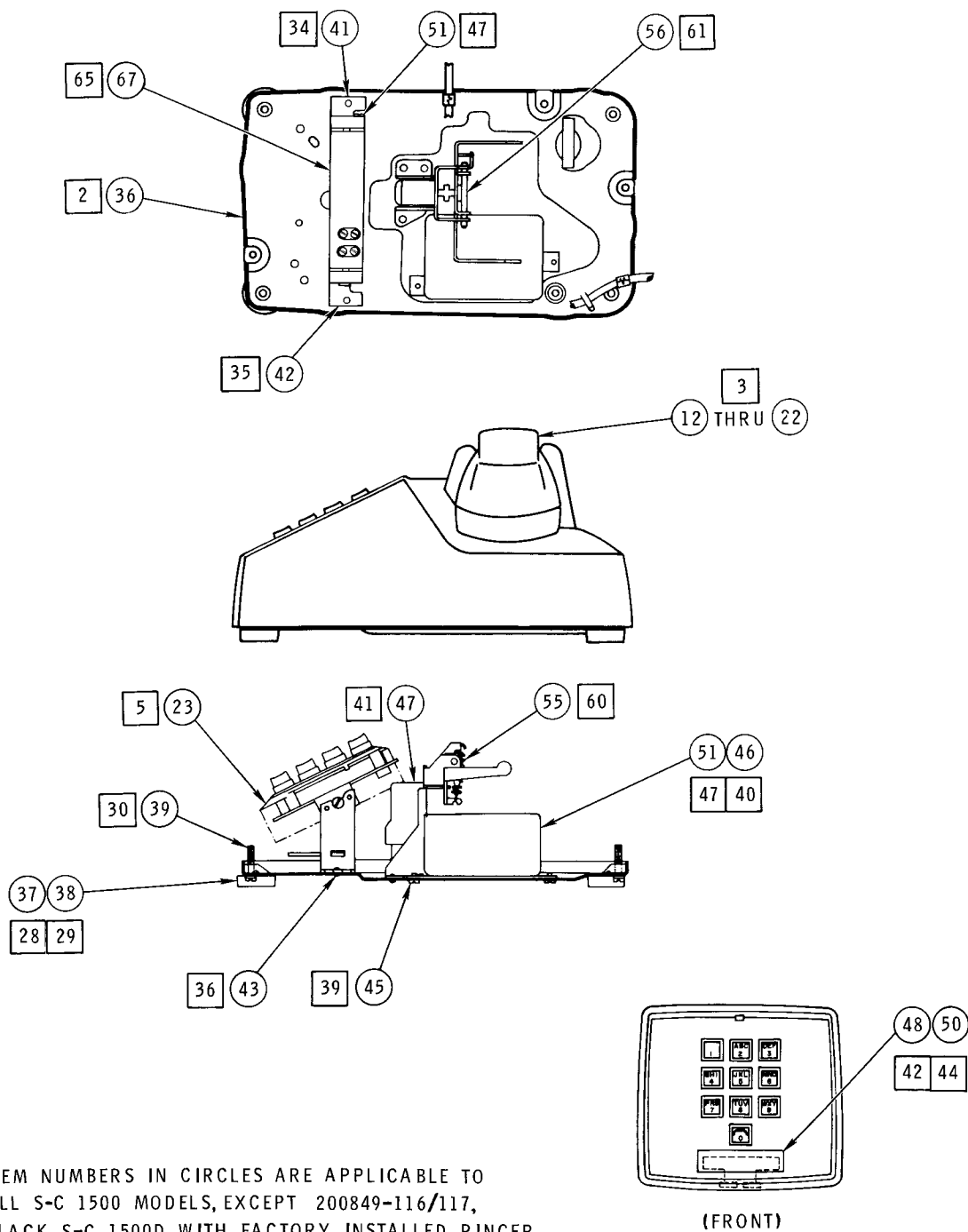
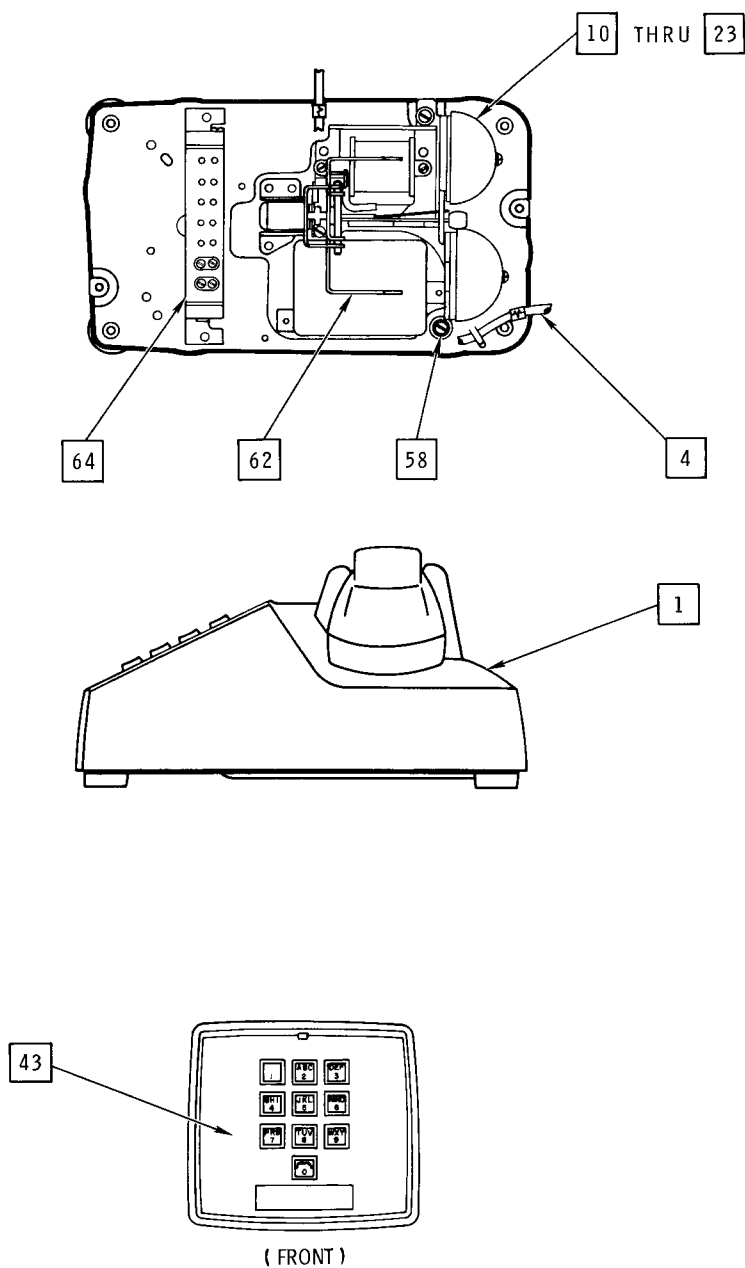


Figure 12. Common Parts for S-C 1500 Telephones, Locational Diagram and Parts List (Sheet 1 of 2).

Item No. Circled	Item No. Squared	Description	Stock Number
12	-	Handset Assembly, Ivory	200737-106
13	-	Handset Assembly, Red	200737-107
14	-	Handset Assembly, Yellow	200737-108
15	3	Handset Assembly, Black	200737-109
16	-	Handset Assembly, White	200737-110
17	-	Handset Assembly, Blue	200737-111
18	-	Handset Assembly, Pink	200737-112
19	-	Handset Assembly, Beige	200737-114
20	-	Handset Assembly, Turquoise	200737-115
21	-	Handset Assembly, Green	200737-122
22	-	Handset Assembly, Gray	200737-123
23	5	Dial	200051-821
36	2	Base	300974-981
37	28	Foot (Base)	300974-991
38	29	Rivet (Foot)	304037-714
39	30	Screw (Base)	304037-721
41	34	Bracket (LH)	300976-621
42	35	Bracket (RH)	300976-611
43	36	Rivet	540240-306
45	39	Screw, 5-40 × 3/16 BHMS	213387-000
46	40	Network Assembly	206012-621
47	41	Hookswitch Assembly	206012-581
48	42	Spring, Card Retaining	300976-661
50	44	Station Number Card	300976-781
51	47	Screw, 6-40 × 1/4 PHIM	540111-365
55	60	Spring, Restoring	300971-061
56	61	Pin	300975-141
67	65	Bracket, TB Retaining	300976-631

Figure 12. Common Parts for S-C 1500 Telephones, Locational Diagram and Parts List (Sheet 2 of 2).



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Figure 13. S-C 1500D Telephone (Black with Ringer), Locational Diagram and Parts List (Sheet 1 of 2).

Item No.	Description	Stock No.	Notes
1	Housing Assembly (Black)	205037-709	
4	Line Cord Assembly (3 Cond.)	200315-309	
10	Ringer Assembly, 16 cps	702000-720	
11	Ringer Assembly, 16-2/3 cps	702000-721	
12	Ringer Assembly, 20 cps	702000-722	
13	Ringer Assembly, 25 cps	702000-723	
14	Ringer Assembly, 30 cps	702000-724	
15	Ringer Assembly, 33-1/3 cps	702000-725	
16	Ringer Assembly, 40 cps	702000-726	
17	Ringer Assembly, 42 cps	702000-727	
18	Ringer Assembly, 50 cps	702000-728	
19	Ringer Assembly, 54 cps	702000-729	
20	Ringer Assembly, 60 cps	702000-730	
21	Ringer Assembly, 66 cps	702000-731	
22	Ringer Assembly, 66-2/3 cps	702000-732	
23	Ringer Assembly, (Straight Line)	702000-033	
43	Plate, Dial Cover	300976-641	
62	Arm, Lever	300975-151	
64	Terminal Board Assembly	206012-891	
70	Terminal Block Assembly, 17A (Not Shown)	202300-106	
75	Package Assembly, TB & 4 Cond.	206287-991	Item 75 is required in place of Item 4 and Item 64 when separate talk and ring paths, or "A" lead control is used.

Figure 13. S-C 1500D Telephone (Black with Ringer), Locational Diagram and Parts List (Sheet 2 of 2).

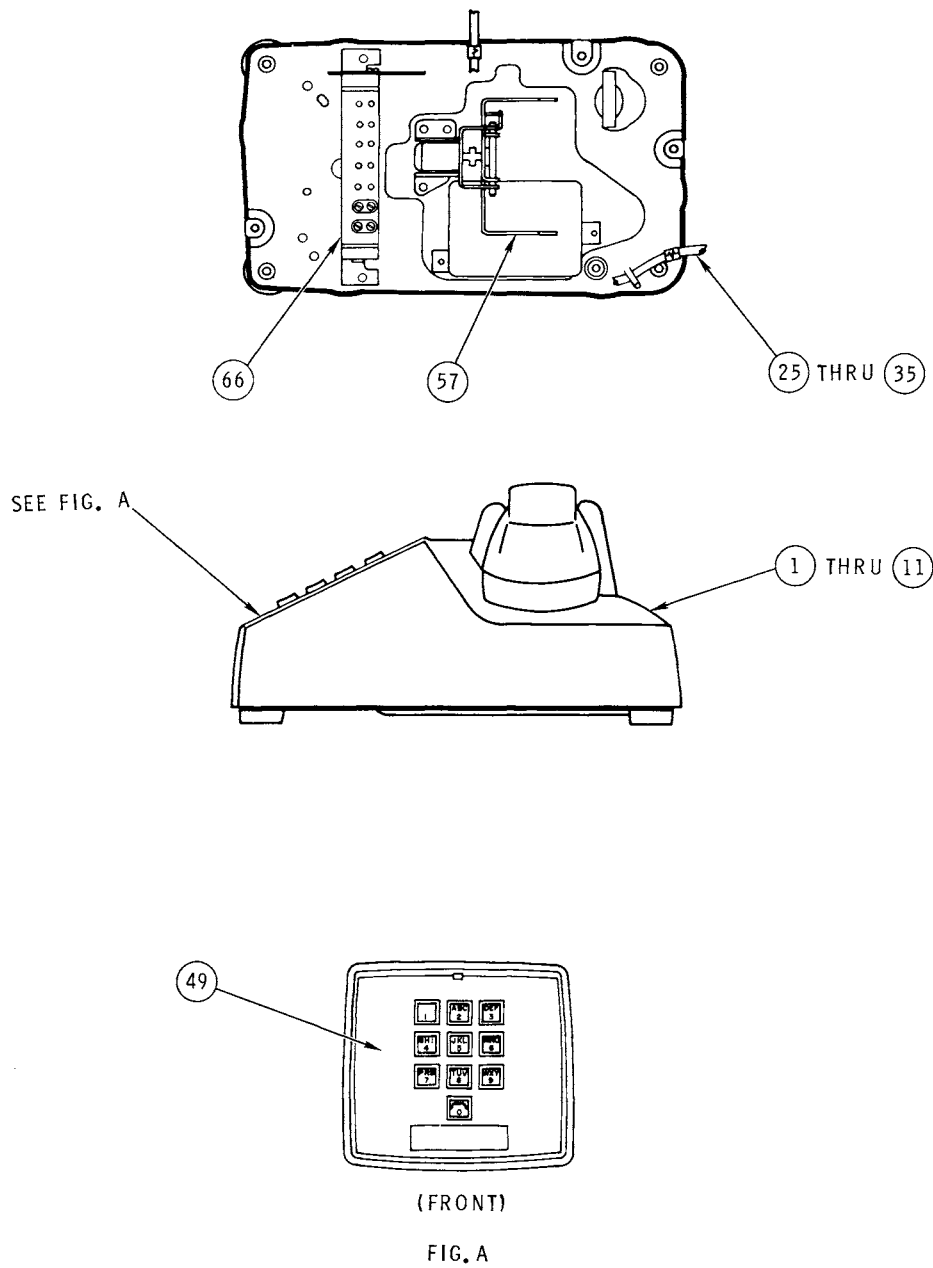


Figure 14. S-C 1500D Telephone (Without Ringer), Locational Diagram and Parts List (Sheet 1 of 2).

Item No.	Description	Stock No.	Notes
1	Housing Assembly (Ivory)	205037-706	
2	Housing Assembly (Red)	205037-707	
3	Housing Assembly (Yellow)	205037-708	
4	Housing Assembly (Black)	205037-709	
5	Housing Assembly (White)	205037-710	
6	Housing Assembly (Blue)	205037-711	
7	Housing Assembly (Pink)	205037-712	
8	Housing Assembly (Beige)	205037-714	
9	Housing Assembly (Turquoise)	205037-715	
10	Housing Assembly (Green)	205037-722	
11	Housing Assembly (Gray)	205037-723	
25	Line Cord, 3 Cond. (Ivory)	200318-306	
26	Line Cord, 3 Cond. (Red)	200318-307	
27	Line Cord, 3 Cond. (Yellow)	200318-308	
28	Line Cord, 3 Cond. (Black)	200318-309	
29	Line Cord, 3 Cond. (White)	200318-310	
30	Line Cord, 3 Cond. (Blue)	200318-311	
31	Line Cord, 3 Cond. (Pink)	200318-312	
32	Line Cord, 3 Cond. (Beige)	200318-314	
33	Line Cord, 3 Cond. (Turquoise)	200318-315	
34	Line Cord, 3 Cond. (Green)	200318-322	
35	Line Cord, 3 Cond. (Gray)	200318-323	
49	Plate, Dial Cover	300976-641	
57	Arm, Lever	300975-151	
66	Terminal Board Assembly	206012-891	
70	Terminal Block Assembly, 17A (Not Shown)	202300-106	
75	Package Assembly TB & 4 Cond. (Ivory)	206287-961	Items 75 through 85 (as applicable) are required in place of Items 25 through 35 and Item 66 when separate talk and ring paths, or "A" lead control is used.
76	Package Assembly TB & 4 Cond. (Red)	206287-971	
77	Package Assembly TB & 4 Cond. (Yellow)	206287-981	
78	Package Assembly TB & 4 Cond. (Black)	206287-991	
79	Package Assembly TB & 4 Cond. (White)	206288-011	
80	Package Assembly TB & 4 Cond. (Blue)	206288-021	
81	Package Assembly TB & 4 Cond. (Pink)	206288-031	
82	Package Assembly TB & 4 Cond. (Beige)	206288-041	
83	Package Assembly TB & 4 Cond. (Turquoise)	206288-051	
84	Package Assembly TB & 4 Cond. (Green)	206288-061	
85	Package Assembly TB & 4 Cond. (Gray)	206288-071	

Figure 14. S-C 1500D Telephone (Without Ringer), Locational Diagram and Parts List (Sheet 2 of 2).

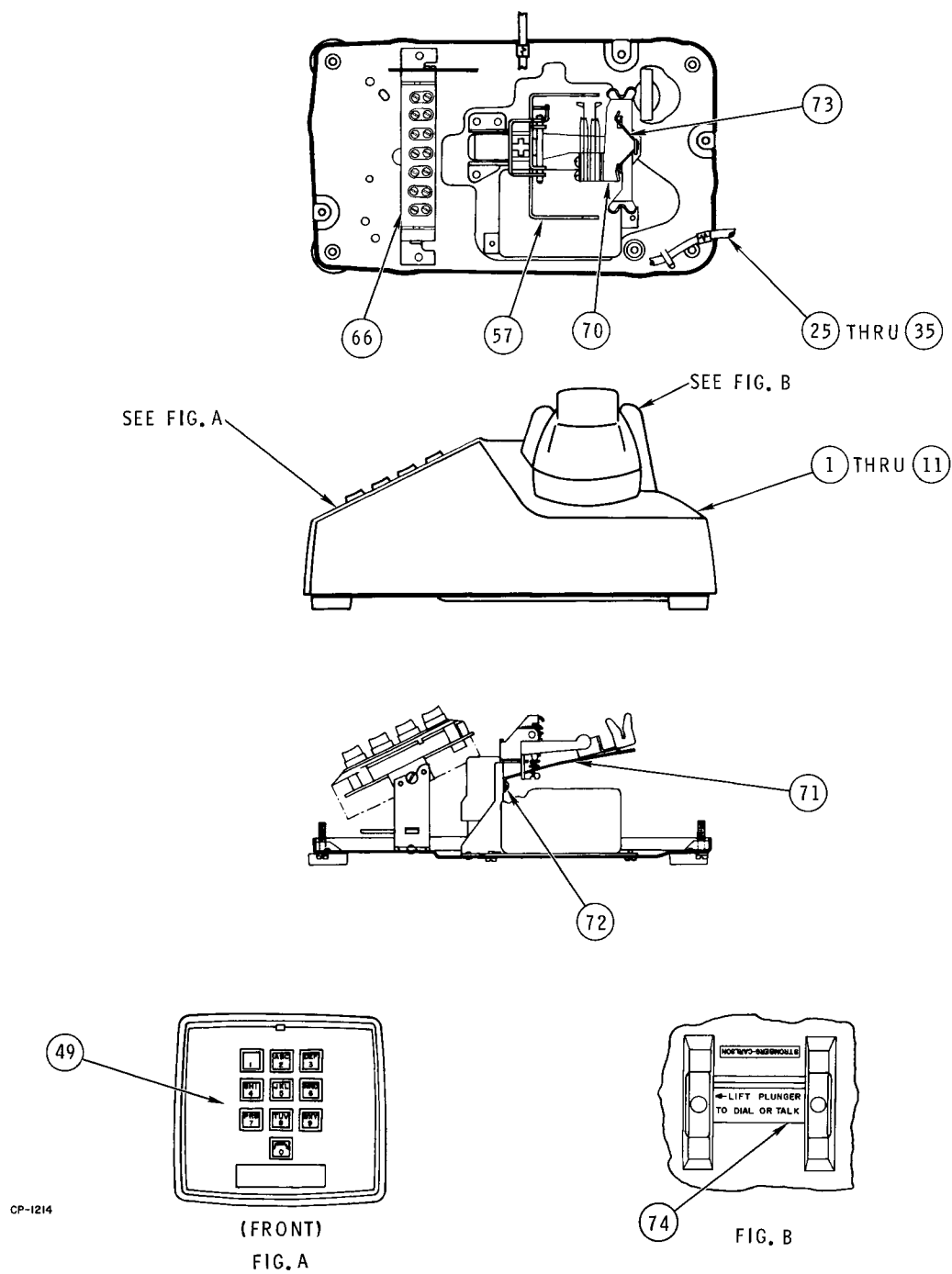


Figure 15. S-C 1500F Telephone, Locational Diagram and Parts List (Sheet 1 of 2).

Item No.	Description	Stock No.	Notes
1	Housing Assembly (Ivory)	205037-806	
2	Housing Assembly (Red)	205037-807	
3	Housing Assembly (Yellow)	205037-808	
4	Housing Assembly (Black)	205037-809	
5	Housing Assembly (White)	205037-810	
6	Housing Assembly (Blue)	205037-811	
7	Housing Assembly (Pink)	205037-812	
8	Housing Assembly (Beige)	205037-814	
9	Housing Assembly (Turquoise)	205037-815	
10	Housing Assembly (Green)	205037-822	
11	Housing Assembly (Gray)	205037-823	
25	Line Cord, 3 Cond. (Ivory)	200318-306	
26	Line Cord, 3 Cond. (Red)	200318-307	
27	Line Cord, 3 Cond. (Yellow)	200318-308	
28	Line Cord, 3 Cond. (Black)	200318-309	
29	Line Cord, 3 Cond. (White)	200318-310	
30	Line Cord, 3 Cond. (Blue)	200318-311	
31	Line Cord, 3 Cond. (Pink)	200318-312	
32	Line Cord, 3 Cond. (Beige)	200318-314	
33	Line Cord, 3 Cond. (Turquoise)	200318-315	
34	Line Cord, 3 Cond. (Green)	200318-322	
35	Line Cord, 3 Cond. (Gray)	200318-323	
49	Plate, Dial Cover	300976-641	
57	Arm, Lever	300977-391	
65	Terminal Block Assembly, 17A (Not Shown)	202300-106	
66	Terminal Board Assembly	206012-901	
70	Exclusion Switch Assembly	206012-721	
71	Extension Arm	300976-201	
72	Screw, 4-48 x 1/8 PHMS	513072-000	
73	Wire Retainer	300976-171	
74	Label	300976-331	
80	Package Assembly, TB & 4 Cond. (Ivory)	206287-961	Items 80 through 90 (<u>as applicable</u>) are required in place of Items 25 through 35 and Item 66 when separate talk and ring paths, or "A" lead control is used.
81	Package Assembly, TB & 4 Cond. (Red)	206287-971	
82	Package Assembly, TB & 4 Cond. (Yellow)	206287-981	
83	Package Assembly, TB & 4 Cond. (Black)	206287-991	
84	Package Assembly, TB & 4 Cond. (White)	206288-011	
85	Package Assembly, TB & 4 Cond. (Blue)	206288-021	
86	Package Assembly, TB & 4 Cond. (Pink)	206288-031	
87	Package Assembly, TB & 4 Cond. (Beige)	206288-041	
88	Package Assembly, TB & 4 Cond. (Turquoise)	206288-051	
89	Package Assembly, TB & 4 Cond. (Green)	206288-061	
90	Package Assembly, TB & 4 Cond. (Gray)	206288-071	

Figure 15. S-C 1500F Telephone, Locational Diagram and Parts List (Sheet 2 of 2).

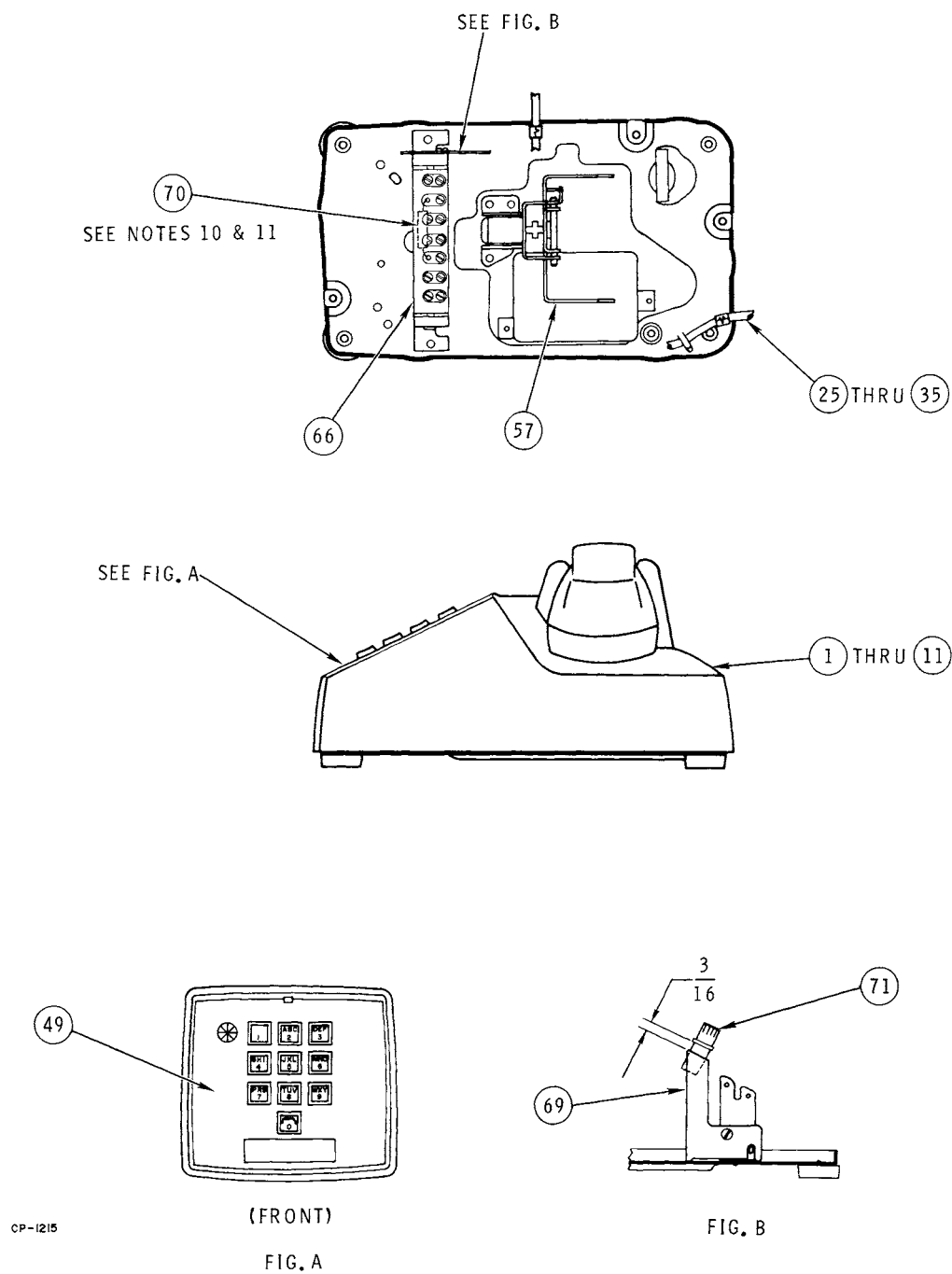
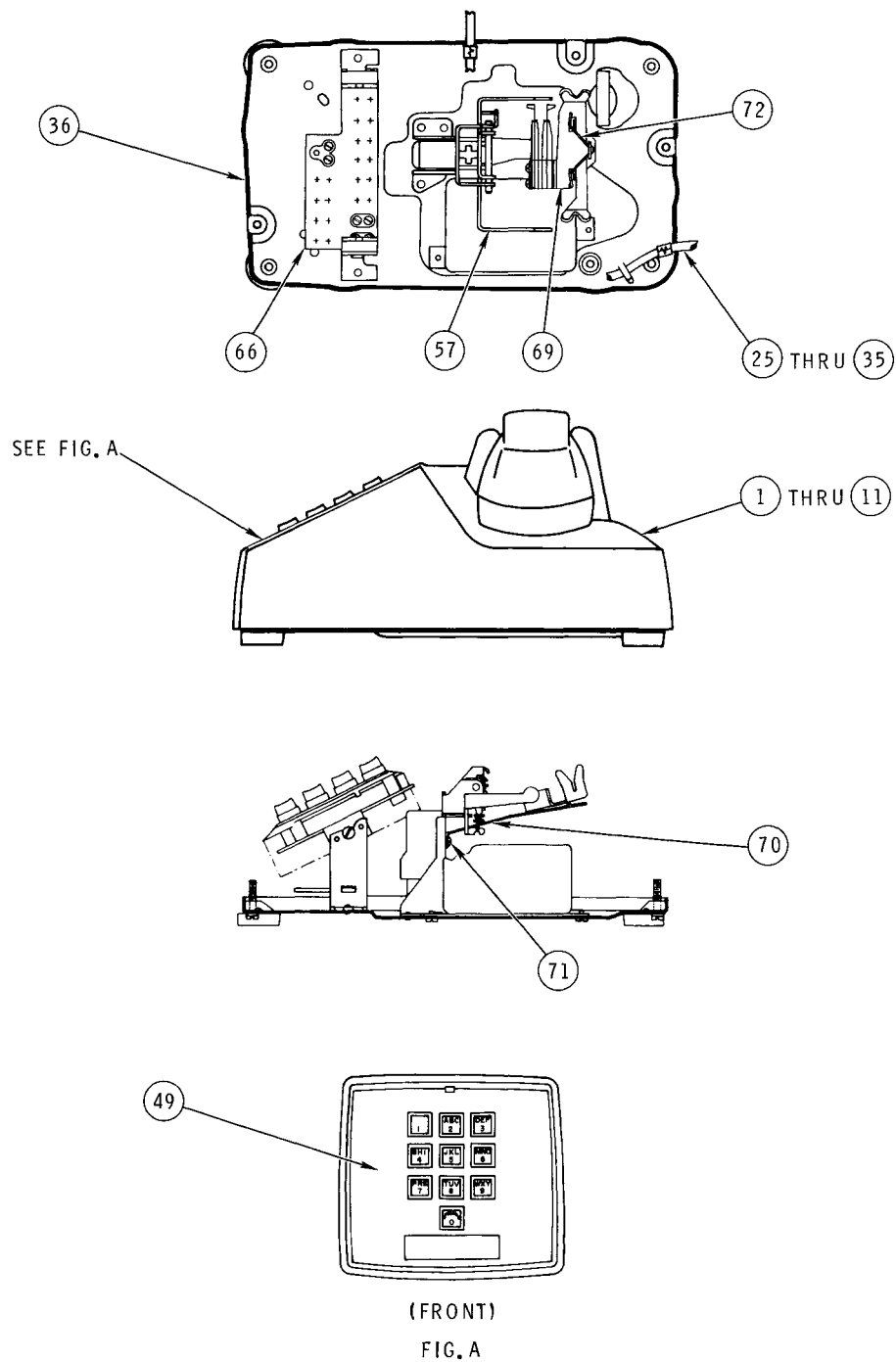


Figure 16. S-C 1500Y Telephone, Locational Diagram and Parts List (Sheet 1 of 2).

Item No.	Description	Stock No.	Notes
1	Housing Assembly (Ivory)	205037-706	
2	Housing Assembly (Red)	205037-707	
3	Housing Assembly (Yellow)	205037-708	
4	Housing Assembly (Black)	205037-709	
5	Housing Assembly (White)	205037-710	
6	Housing Assembly (Blue)	205037-711	
7	Housing Assembly (Pink)	205037-712	
8	Housing Assembly (Beige)	205037-714	
9	Housing Assembly (Turquoise)	205037-715	
10	Housing Assembly (Green)	205037-722	
11	Housing Assembly (Gray)	205037-723	
25	Line Cord (Ivory)	200318-306	
26	Line Cord (Red)	200318-307	
27	Line Cord (Yellow)	200318-308	
28	Line Cord (Black)	200318-309	
29	Line Cord (White)	200318-310	
30	Line Cord (Blue)	200318-311	
31	Line Cord (Pink)	200318-312	
32	Line Cord (Beige)	200318-314	
33	Line Cord (Turquoise)	200318-315	
34	Line Cord (Green)	200318-322	
35	Line Cord (Gray)	200318-323	
49	Plate, Dial Cover	300976-651	
57	Arm, Lever	300975-151	
65	Terminal Block Assembly, 17A (Not shown)	202300-106	
66	Terminal Board Assembly	206012-901	
69	Bracket, Lamp	300977-521	
70	Resistor, 27K, 1/2W	554001-273	
71	Lamp Assembly	206013-491	
75	Package Assembly, TB & 4 Cond. (Ivory)	206287-961	Items 75 through 85 (as applicable) are re- quired in place of Items 25 through 35 and Item 66 when sep- arate talk and ring paths, or "A" lead control is used.
76	Package Assembly, TB & 4 Cond. (Red)	206287-971	
77	Package Assembly, TB & 4 Cond. (Yellow)	206287-981	
78	Package Assembly, TB & 4 Cond. (Black)	206287-991	
79	Package Assembly, TB & 4 Cond. (White)	206288-011	
80	Package Assembly, TB & 4 Cond. (Blue)	206288-021	
81	Package Assembly, TB & 4 Cond. (Pink)	206288-031	
82	Package Assembly, TB & 4 Cond. (Beige)	206288-041	
83	Package Assembly, TB & 4 Cond. (Turquoise)	206288-051	
84	Package Assembly, TB & 4 Cond. (Green)	206288-061	
85	Package Assembly, TB & 4 Cond. (Gray)	206288-071	

Figure 16. S-C 1500Y Telephone, Locational Diagram and Parts List (Sheet 2 of 2).



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Figure 17. S-C 1502B Telephone, Locational Diagram and Parts List (Sheet 1 of 2).

Item No.	Description	Stock No.	Notes
1	Housing Assembly (Ivory)	205037-806	
2	Housing Assembly (Red)	205037-807	
3	Housing Assembly (Yellow)	205037-808	
4	Housing Assembly (Black)	205037-809	
5	Housing Assembly (White)	205037-810	
6	Housing Assembly (Blue)	205037-811	
7	Housing Assembly (Pink)	205037-812	
8	Housing Assembly (Beige)	205037-814	
9	Housing Assembly (Turquoise)	205037-815	
10	Housing Assembly (Green)	205037-822	
11	Housing Assembly (Gray)	205037-823	
25	Line Cord, 6 Cond. (Ivory)	200318-606	Items 25 through 35 (as applicable) are used for bridged ring- ing. When other class of service is desired, use Items 78 through 88 (as applicable).
26	Line Cord, 6 Cond. (Red)	200318-607	
27	Line Cord, 6 Cond. (Yellow)	200318-608	
28	Line Cord, 6 Cond. (Black)	200318-609	
29	Line Cord, 6 Cond. (White)	200318-610	
30	Line Cord, 6 Cond. (Blue)	200318-611	
31	Line Cord, 6 Cond. (Pink)	200318-612	
32	Line Cord, 6 Cond. (Beige)	200318-614	
33	Line Cord, 6 Cond. (Turquoise)	200318-615	
34	Line Cord, 6 Cond. (Green)	200318-622	
35	Line Cord, 6 Cond. (Gray)	200318-623	
49	Plate, Dial Cover	300976-641	
57	Arm, Lever	300977-391	
66	Terminal Board Assembly	206012-731	
69	Exclusion Switch Assembly	206012-721	
70	Extension Arm	300976-201	
71	Screw, 4-48 x 1/8 PHMS	513072-000	
72	Wire Retainer	300976-171	
73	Cord, 8-inch Black (Not Shown)	206066-441	
74	Cord, 8-inch Green (Not Shown)	206066-451	
75	Cord, 8-inch Red (Not Shown)	206066-461	
78	Line Cord, 8 Cond. (Ivory)	200318-706	See note Item 25.
79	Line Cord, 8 Cond. (Red)	200318-707	
80	Line Cord, 8 Cond. (Yellow)	200318-708	
81	Line Cord, 8 Cond. (Black)	200318-709	
82	Line Cord, 8 Cond. (White)	200318-710	
83	Line Cord, 8 Cond. (Blue)	200318-711	
84	Line Cord, 8 Cond. (Pink)	200318-712	
85	Line Cord, 8 Cond. (Beige)	200318-714	
86	Line Cord, 8 Cond. (Turquoise)	200318-715	
87	Line Cord, 8 Cond. (Green)	200318-722	
88	Line Cord, 8 Cond. (Gray)	200318-723	

Figure 17. S-C 1502B Telephone, Locational Diagram and Parts List (Sheet 2 of 2).

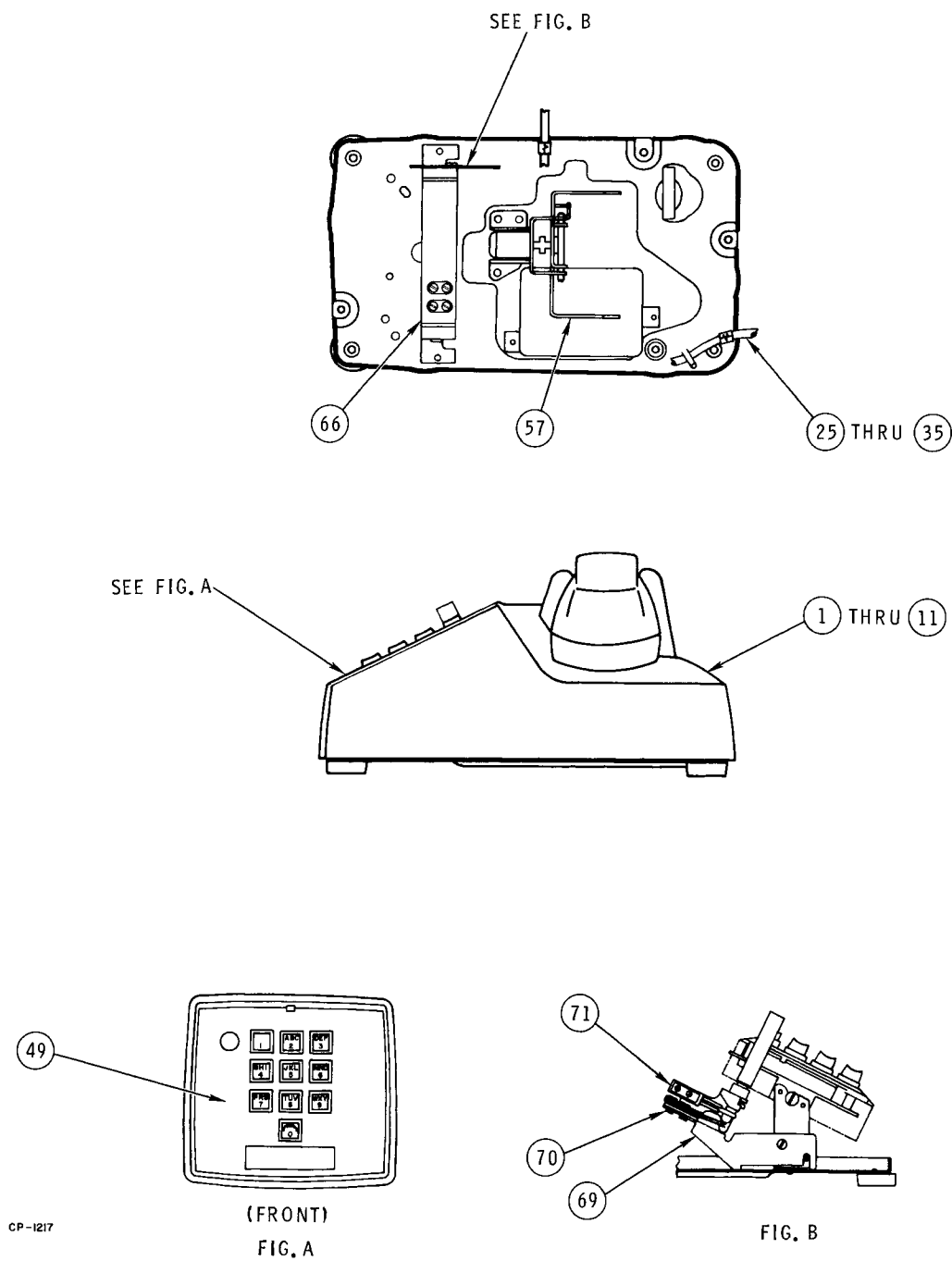


Figure 18. S-C 1508B Telephone, Locational Diagram and Parts List (Sheet 1 of 2).

Item No.	Description	Stock No.	Notes
1	Housing Assembly (Ivory)	205037-706	
2	Housing Assembly (Red)	205037-707	
3	Housing Assembly (Yellow)	205037-708	
4	Housing Assembly (Black)	205037-709	
5	Housing Assembly (White)	205037-710	
6	Housing Assembly (Blue)	205037-711	
7	Housing Assembly (Pink)	205037-712	
8	Housing Assembly (Beige)	205037-714	
9	Housing Assembly (Turquoise)	205037-715	
10	Housing Assembly (Green)	205037-722	
11	Housing Assembly (Gray)	205037-723	
25	Line Cord, 3 Cond. (Ivory)	200318-306	Items 25 through 35 are replaced by Items 75 through 85, when required.
26	Line Cord, 3 Cond. (Red)	200318-307	
27	Line Cord, 3 Cond. (Yellow)	200318-308	
28	Line Cord, 3 Cond. (Black)	200318-309	
29	Line Cord, 3 Cond. (White)	200318-310	
30	Line Cord, 3 Cond. (Blue)	200318-311	
31	Line Cord, 3 Cond. (Pink)	200318-312	
32	Line Cord, 3 Cond. (Beige)	200318-314	
33	Line Cord, 3 Cond. (Turquoise)	200318-315	
34	Line Cord, 3 Cond. (Green)	200318-322	
35	Line Cord, 3 Cond. (Gray)	200318-323	
49	Plate, Dial Cover	300976-651	
57	Arm, Lever	300975-151	
65	Terminal Block Assembly, 17A (Not Shown)	202300-106	
66	Terminal Board Assembly	206012-891	
69	Bracket, Key Mounting	300976-691	
70	Screw	304037-791	
71	Key Assembly	206013-191	
75	Package Assembly, TB & 4 Cond. (Ivory)	206287-961	Items 75 through 85 (as applicable) are required in place of Items 25 through 35 and Item 66 when sep- arate talk and ring paths, or "A" lead control is used.
76	Package Assembly, TB & 4 Cond. (Red)	206287-971	
77	Package Assembly, TB & 4 Cond. (Yellow)	206287-981	
78	Package Assembly, TB & 4 Cond. (Black)	206287-991	
79	Package Assembly, TB & 4 Cond. (White)	206288-011	
80	Package Assembly, TB & 4 Cond. (Blue)	206288-021	
81	Package Assembly, TB & 4 Cond. (Pink)	206288-031	
82	Package Assembly, TB & 4 Cond. (Beige)	206288-041	
83	Package Assembly, TB & 4 Cond. (Turquoise)	206288-051	
84	Package Assembly, TB & 4 Cond. (Green)	206288-061	
85	Package Assembly, TB & 4 Cond. (Gray)	206288-071	

Figure 18. S-C 1508B Telephone, Locational Diagram and Parts List (Sheet 2 of 2).

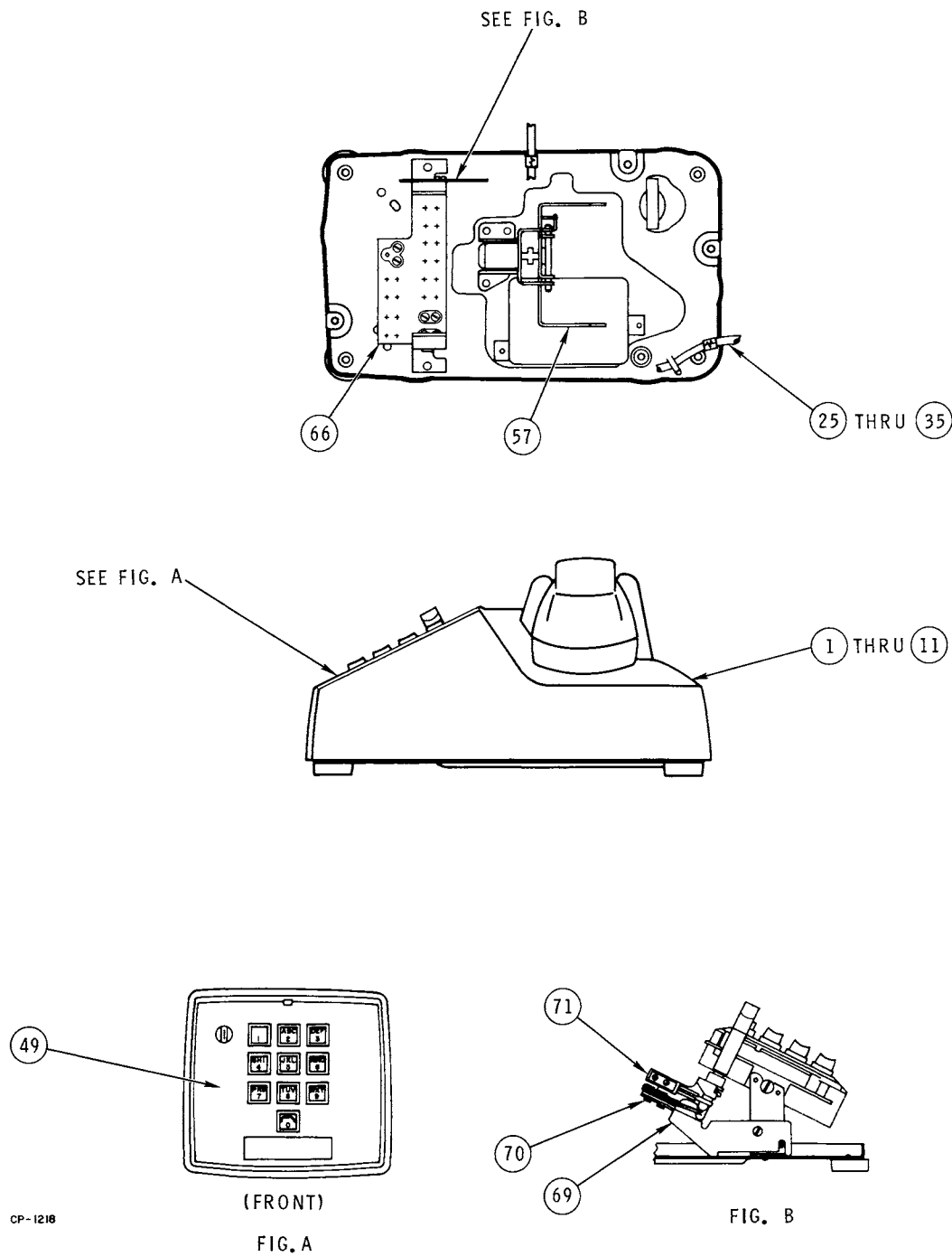


Figure 19. S-C 1510F Telephone, Locational Diagram and Parts List (Sheet 1 of 2).

Item No.	Description	Stock No.	Notes
1	Housing Assembly (Ivory)	205037-706	
2	Housing Assembly (Red)	205037-707	
3	Housing Assembly (Yellow)	205037-708	
4	Housing Assembly (Black)	205037-709	
5	Housing Assembly (White)	205037-710	
6	Housing Assembly (Blue)	205037-711	
7	Housing Assembly (Pink)	205037-712	
8	Housing Assembly (Beige)	205037-714	
9	Housing Assembly (Turquoise)	205037-715	
10	Housing Assembly (Green)	205037-722	
11	Housing Assembly (Gray)	205037-723	
25	Line Cord, 6 Cond. (Ivory)	200318-606	Items 25 through 35 (as applicable) are used for bridged ring- ing. When other class of service is desired, use Items 75 through 85 (as applicable).
26	Line Cord, 6 Cond. (Red)	200318-607	
27	Line Cord, 6 Cond. (Yellow)	200318-608	
28	Line Cord, 6 Cond. (Black)	200318-609	
29	Line Cord, 6 Cond. (White)	200318-610	
30	Line Cord, 6 Cond. (Blue)	200318-611	
31	Line Cord, 6 Cond. (Pink)	200318-612	
32	Line Cord, 6 Cond. (Beige)	200318-614	
33	Line Cord, 6 Cond. (Turquoise)	200318-615	
34	Line Cord, 6 Cond. (Green)	200318-622	
35	Line Cord, 6 Cond. (Gray)	200318-623	
49	Plate, Dial Cover	300976-651	
57	Arm, Lever	300975-151	
66	Terminal Board Assembly	206012-731	
69	Bracket, Key Mounting	300976-691	
70	Screw	304037-791	
71	Key Assembly	206013-181	
75	Line Cord, 8 Cond. (Ivory)	200318-706	See note Item 25.
76	Line Cord, 8 Cond. (Red)	200318-707	
77	Line Cord, 8 Cond. (Yellow)	200318-708	
78	Line Cord, 8 Cond. (Black)	200318-709	
79	Line Cord, 8 Cond. (White)	200318-710	
80	Line Cord, 8 Cond. (Blue)	200318-711	
81	Line Cord, 8 Cond. (Pink)	200318-712	
82	Line Cord, 8 Cond. (Beige)	200318-714	
83	Line Cord, 8 Cond. (Turquoise)	200318-715	
84	Line Cord, 8 Cond. (Green)	200318-722	
85	Line Cord, 8 Cond. (Gray)	200318-723	

Figure 19. S-C 1510F Telephone, Locational Diagram and Parts List (Sheet 2 of 2).

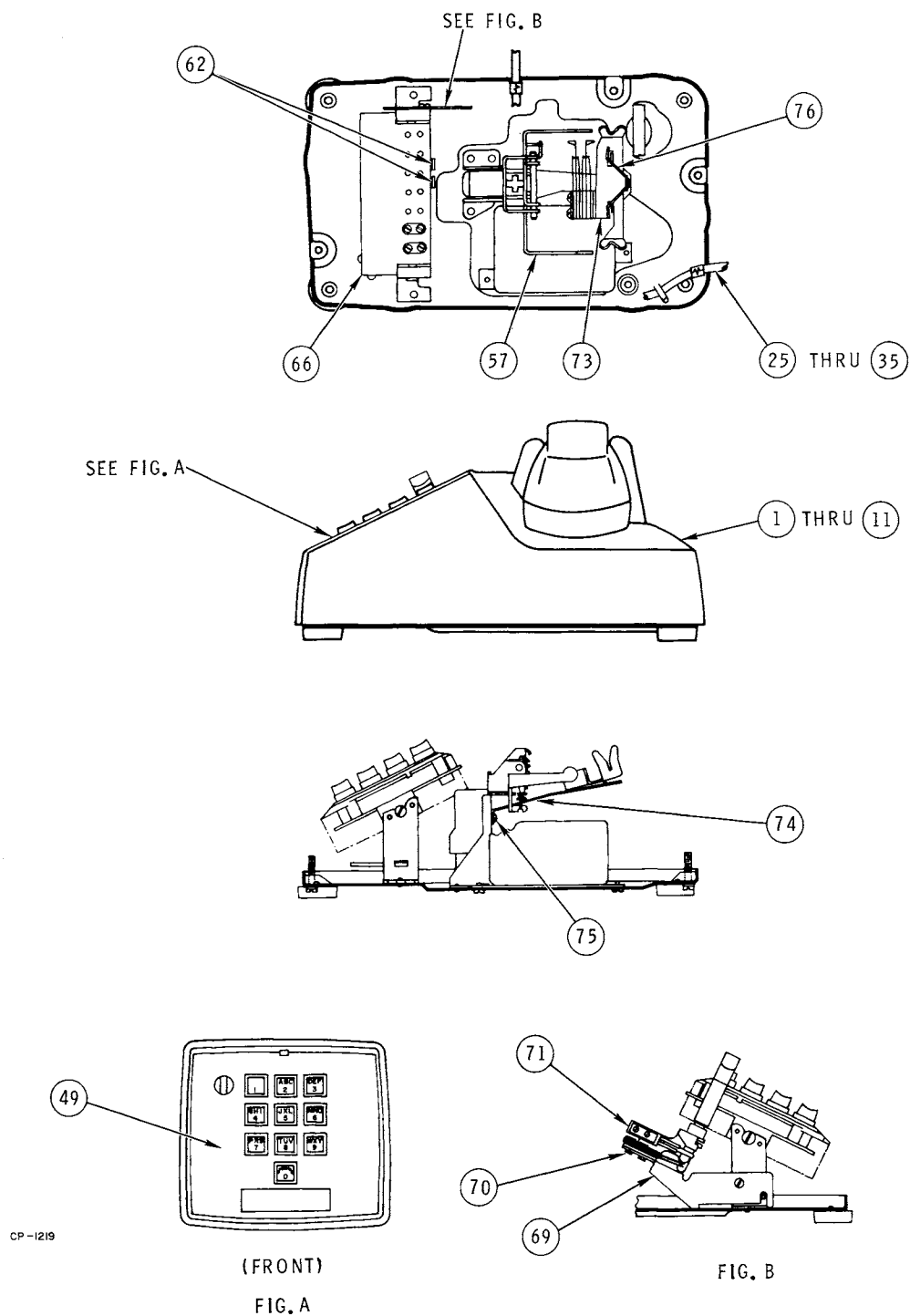


Figure 20. S-C 1575B Telephone, Locational Diagram and Parts List (Sheet 1 of 2).

Item No.	Description	Stock No.	Notes
1	Housing Assembly (Ivory)	205037-806	
2	Housing Assembly (Red)	205037-807	
3	Housing Assembly (Yellow)	205037-808	
4	Housing Assembly (Black)	205037-809	
5	Housing Assembly (White)	205037-810	
6	Housing Assembly (Blue)	205037-811	
7	Housing Assembly (Pink)	205037-812	
8	Housing Assembly (Beige)	205037-814	
9	Housing Assembly (Turquoise)	205037-815	
10	Housing Assembly (Green)	205037-822	
11	Housing Assembly (Gray)	205037-823	
25	Line Cord, 6 Cond. (Ivory)	200318-606	Items 25 through 35 (as applicable) are used for bridged ring- ing. When other class of service is desired, use Items 80 through 90 (as applicable).
26	Line Cord, 6 Cond. (Red)	200318-607	
27	Line Cord, 6 Cond. (Yellow)	200318-608	
28	Line Cord, 6 Cond. (Black)	200318-609	
29	Line Cord, 6 Cond. (White)	200318-610	
30	Line Cord, 6 Cond. (Blue)	200318-611	
31	Line Cord, 6 Cond. (Pink)	200318-612	
32	Line Cord, 6 Cond. (Beige)	200318-614	
33	Line Cord, 6 Cond. (Turquoise)	200318-615	
34	Line Cord, 6 Cond. (Green)	200318-622	
35	Line Cord, 6 Cond. (Gray)	200318-623	
49	Plate, Dial Cover	300976-651	
57	Arm, Lever	300977-391	
62	Resistor, 470-ohm, 5W (R1, R2)	554554-471	
66	Terminal Board Assembly	206012-911	
69	Bracket, Key Mounting	300976-691	
70	Screw	304037-791	
71	Key Assembly	206013-181	
73	Exclusion Switch Assembly	206012-721	
74	Extension Arm	300976-201	
75	Screw, 4-48 x 1/8 PHMS	513072-000	
76	Wire Retainer	300976-171	
80	Line Cord, 8 Cond. (Ivory)	200318-706	See note Item 25.
81	Line Cord, 8 Cond. (Red)	200318-707	
82	Line Cord, 8 Cond. (Yellow)	200318-708	
83	Line Cord, 8 Cond. (Black)	200318-709	
84	Line Cord, 8 Cond. (White)	200318-710	
85	Line Cord, 8 Cond. (Blue)	200318-711	
86	Line Cord, 8 Cond. (Pink)	200318-712	
87	Line Cord, 8 Cond. (Beige)	200318-714	
88	Line Cord, 8 Cond. (Turquoise)	200318-715	
89	Line Cord, 8 Cond. (Green)	200318-722	
90	Line Cord, 8 Cond. (Gray)	200318-723	

Figure 20. S-C 1575B Telephone, Locational Diagram and Parts List (Sheet 2 of 2).

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6017-B

Stromberg-Carlson

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