

REFERENCE
570-TYPE TELEPHONE SETS
(EMERGENCY REPORTING)

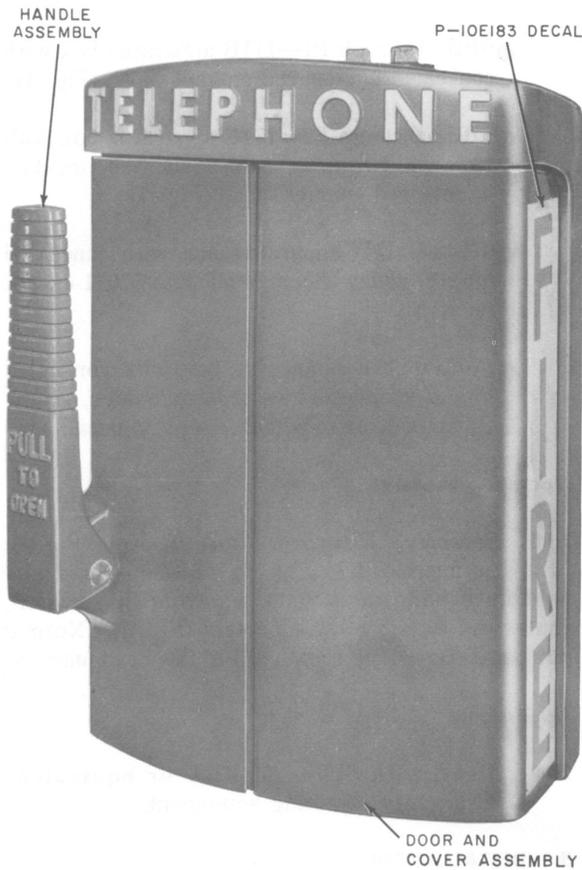


Fig. 1—570-Type Telephone Set, Current Style

1. GENERAL

1.01 This section provides identification, installation, maintenance, and connection information for



Fig. 2—570-Type Telephone Set, Old Style MD

570-type telephone sets previously contained in Section 502-550-100 which is hereby canceled.

2. IDENTIFICATION

Purpose

2.01 The 570-type telephone set is equipped with a cast aluminum housing suitable for outdoor

mounting on buildings, fences, poles, etc. and is intended for fire and emergency reporting use.

Ordering Guide

2.02 Order the basic 570-type telephone as follows:

- Set, Telephone, 570- (add code required; refer to Tables A and B)

2.03 *Replaceable Components:* See Table A and Fig. 3.

2.04 *Associated Apparatus (order separately):*

- Bracket, 29C (mounts 111B or C apparatus box, red color)
- Bracket, 29E (mounts 111D or E apparatus box, yellow color)
- Protector, 123A1A; replaces protector 111A (MD)

2.05 *Optional Components (order separately):*

- P-26E819 lock assembly. Provides key type nonlocking selective routing for 8K, 8M, and 8P apparatus units (replaces 1PB45 selective routing switch when specified).

Note: 8B, 8D, 8F, and 8H (MD) apparatus units were specially equipped with P-10E722 cover assembly containing a 10250T16424 key switch in place of LP-20A288 cover assembly with 1PB45 selective routing switch.

Design Features

2.06 The 570-type telephone set and its associated components have the following design features:

- Transmission characteristics equivalent to other 500-type sets
- Continuous current-flow loop test (alarm on open circuit or ground)
- Cam-assist ice breaker door handle (111C and 111E apparatus boxes, see Table A and Fig. 4)
- Selective routing—570K, M, and P types (Fig. 5, 6, 7, and Table B)

- Ringer (570J and K types)

2.07 A 570-type telephone set consists of an 8-type apparatus unit mounted in a 111-type apparatus box. Codes are distinguished as follows:

- 570AR through HR (MD)—111A (MD) apparatus box with exposed hinges, red enamel finish (Fig. 2).
- 570J1 through P1—111B apparatus box with concealed hinges, red enamel finish (Fig. 1).
- 570J2 through P2—111C apparatus box with concealed hinges, cam-assist ice breaker handle, red enamel finish (Fig. 1).
- 570J3—111D apparatus box with concealed hinges, yellow finish (similar to 570J1 except no decal).
- 570J4—111E apparatus box with concealed hinges, cam-assist ice breaker handle, yellow finish (similar to 570J2 except no decal).

Operating Features

2.08 *Selective Routing Switch:* Key (Fig. 5) or microswitch (Fig. 6) when operated and held until handset is removed from line switch, routes call to police headquarters (Fig. 7). Normal (unoperated) position routes call to fire headquarters.

Application

2.09 Used with 520-type PBX or equivalent emergency reporting equipment.

3. INSTALLATION

3.01 The 570-type telephone set should be mounted on a 29-type bracket (Fig. 8) when a firm, even, vertical surface is not available. Refer to Table C for fasteners.

3.02 Fasten the 29-type bracket in required location as follows:

- (1) Fasten bracket to flat surface using one fastener in each bracket arm as far from center as possible.
- (2) On flat surface, bracket arms should be flush with surface.

TABLE A
ORDERING INFORMATION — 570-TYPE TELEPHONE SET

SET CODE	APPARATUS BOX	DOOR AND COVER ASSEMBLY	APPARATUS UNIT†	SELECTIVE ROUTING SWITCH	RINGER	DECAL (FIRE)	
AR*	111A*	P-10E055 or P-10E185 Door and P-10E056 or P-10E186 Cover	8A*		C4A	B-860063	
BR*			8B*	1PB45§			
CR*			8C* or J				
DR*			8D* or K	1PB45§			
ER*				8E* or L		J1A	P-10E183 Door P-10E182 Cover
FR*			8F* or M	1PB45§			
GR*			8G* or N				
HR*			8H* or P	1PB45§			
J1	111B	P-24E965	8J		J1A	P-10E183 (Two Required)	
J2	111C	P-24E966‡					
J3	111D	P-22F605					
J4	111E	P-23F072‡					
K1	111B	P-24E965	8K	P-26E819 Lock Assembly or 1PB45§ Micro Switch	J1A	P-10E183 (Two Required)	
K2	111C	P-24E966‡					
L1	111B	P-24E965	8L				
L2	111C	P-24E966‡					
M1	111B	P-24E965	8M	P-26E819 Lock Assembly or 1PB45§ Micro Switch	J1A	P-10E183 (Two Required)	
M2	111C	P-24E966‡					
N1	111B	P-24E965	8N				
N2	111C	P-24E966‡					
P1	111B	P-24E965	8P	P-26E819 Lock Assembly or 1PB45§ Micro Switch	J1A	P-10E183 (Two Required)	
P2	111C	P-24E966‡					

* Rated MD.

† All 8-type apparatus unit are equipped with the G3AC-3 handset which replaces the G1FR-3 (MD).

‡ Equipped with cam-assist ice breaker handle.

§ May be obtained from Microswitch, Freeport, Ill.

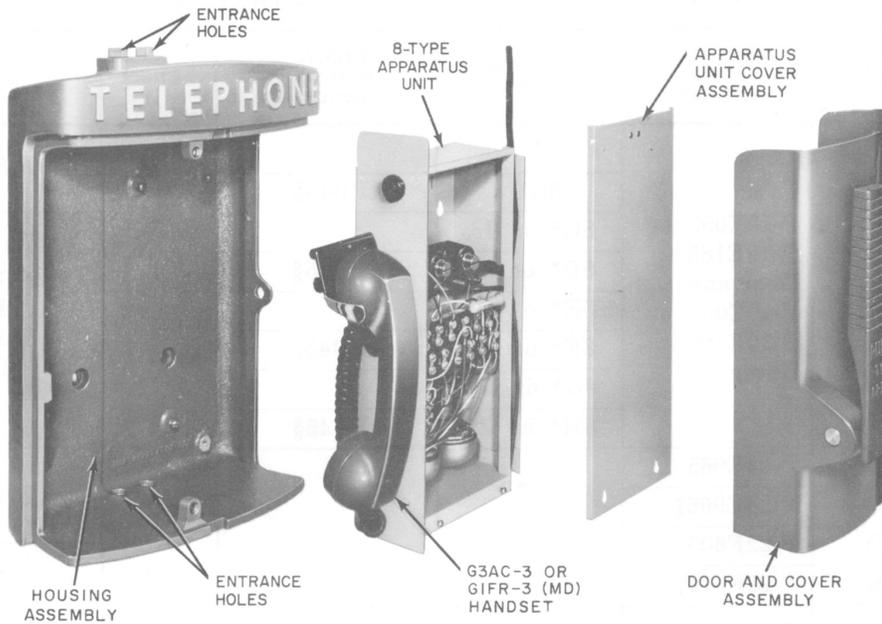


Fig. 3—570-Type Telephone Set, Components

TABLE B
FEATURES AND APPLICATION

TYPE TELEPHONE SET	DIRECT LINE SYSTEM		CONCENTRATOR SYSTEM			
	WITHOUT SELECTIVE ROUTING	WITH SELECTIVE ROUTING	WITHOUT SELECTIVE ROUTING		WITH SELECTIVE ROUTING	
	WITH OR WITHOUT LONG LINE CIRCUIT	WITH OR WITHOUT LONG LINE CIRCUIT	WITHOUT LONG LINE CIRCUIT	WITH LONG LINE CIRCUIT	WITHOUT LONG LINE CIRCUIT	WITH LONG LINE CIRCUIT
570J	•					
570K		•				
570L			•	*		
570M					•	*
570N	•			•		
570P		•				

* Replace 420B diodes with KS-14603L2A 7300-ohm resistor for use with long line circuit.

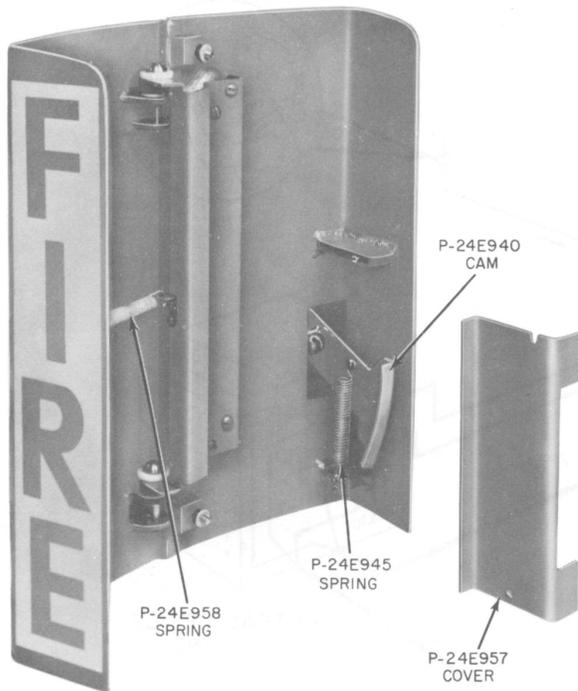


Fig. 4—Cam-Assist Ice Breaker

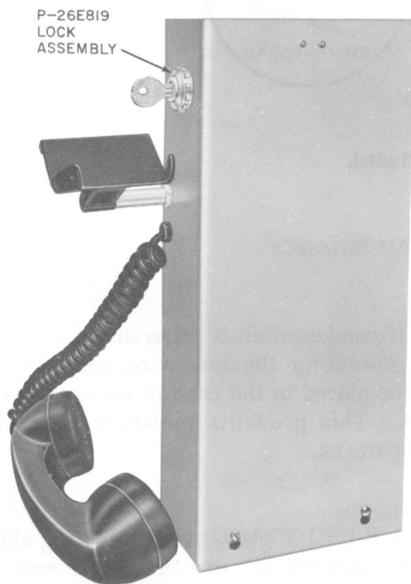


Fig. 5—P-26E819 Lock Assembly (Selective Routing Switch)

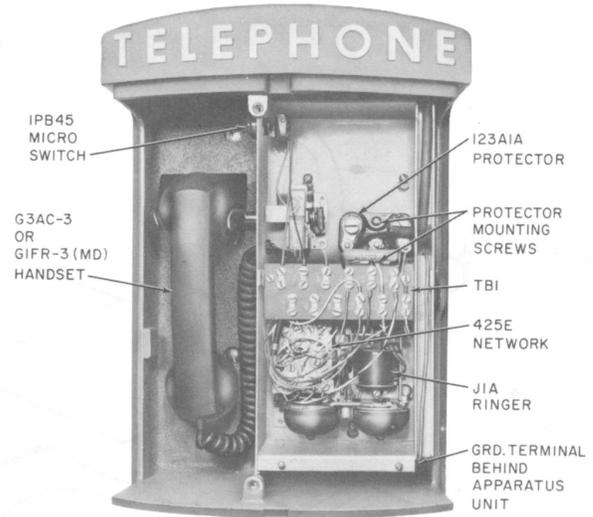


Fig. 6—570-Type Telephone Set, Interior View

- (3) On narrow or rounded surface place bracket so that strap will be flush.

3.03 Mount 570-type telephone set as follows:

- (1) Open door to gain access to interior of sets.
- (2) Loosen captive allen head screws located at top and bottom of cover assembly using KS-19192L1 wrench, slide assembly to right side of set to disengage cover guide pin.
- (3) Loosen two screws at bottom of cover assembly and remove cover.
- (4) Loosen three screws securing apparatus unit to housing and remove apparatus unit.
- (5) Mount housing on 29-type bracket using bolts and washers furnished with bracket. If bracket is not used, secure housing directly to surface using appropriate hardware.

3.04 Line and ground wires should be protected by 1/2-inch weatherproof conduit or metallic equivalent. Threaded entrance holes are provided in housing, two at top and two at bottom. Connect ground wire under washer on ground terminal in lower right corner of housing.

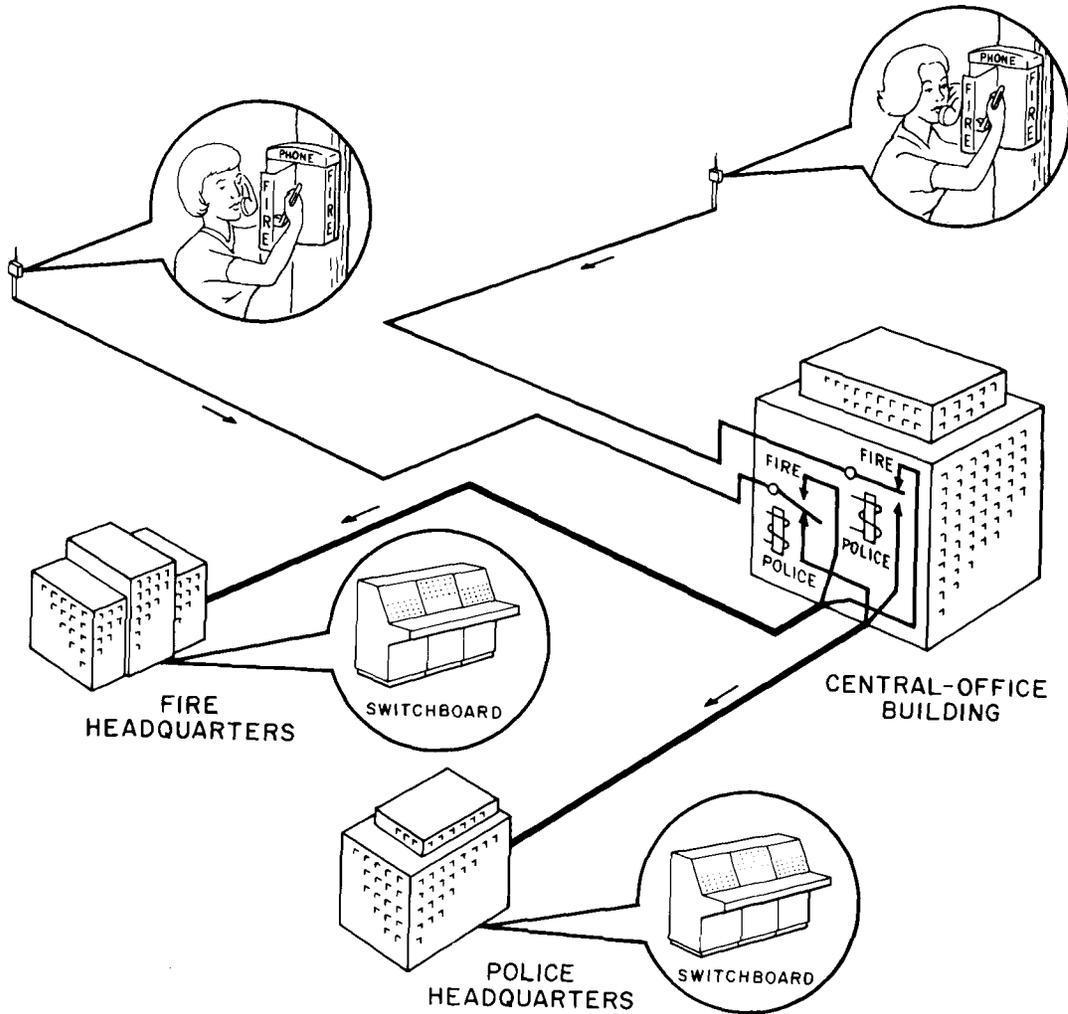


Fig. 7—Selective Routing Switch



Where conduit or "U" guard is provided, No. 14 ground wire may be used; otherwise use No. 8 or equivalent ground wire.

3.05 Mount 123A1A protector on bracket provided in apparatus unit (Fig. 6) and reinstall apparatus unit in housing. (Where fused protection is required, mount protector separately.)

3.06 Make necessary connections to apparatus unit in accordance with appropriate figure. Reinstall apparatus unit cover and apparatus box door and cover assembly.

4. MAINTENANCE

4.01 If condensation is experienced in the conduit protecting the line wire, plastic duct seal should be placed in the conduit entrance hole inside the set. This prevents moisture from dripping onto apparatus.

4.02 A P-10E120 plastic waterproofing shield may be ordered for use on earlier sets. Insert shield behind lip of center divider. No retaining clips are required. Later model sets do not use this shield since the apparatus box is equipped with a metal cover.

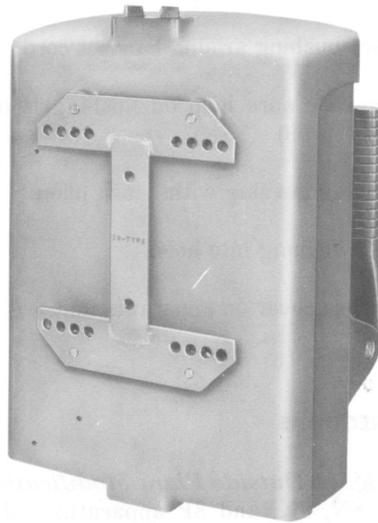


Fig. 8—570-Type Telephone Set Mounted on 29-Type Bracket

4.03 The line switch and associated arm should move freely without binding. Bearing points on the shaft may be lubricated with KS-14774L2 lubricant. Later manufactured sets have nylon bearings which do not require lubrication.



Use lubricant sparingly and avoid contact with ringer, wiring, and contact springs.

4.04 To remove handset cord from telephone set, proceed as follows:

- (1) Remove cover from apparatus unit.
- (2) Place loop on bushing so that it faces front of set (Fig. 9).

Note: The loop on bushing holds the two pieces of bushing together. Placing the loop so it faces front of set merely positions bushing

TABLE C

FASTENERS FOR 29-TYPE APPARATUS BRACKETS

SURFACE	QUAN	FASTENERS
Wood	4	1-1/2 in. No. 14 RH galvanized wood screws
Wood poles	4	2-1/2 in. or longer No. 14 RH galvanized wood screws
Wood poles (where diameter of pole is 8 inches or less)	2	5/16 x 3 in. coach screws or 2-1/2 in. or longer No. 14 RH galvanized wood screws
Finished masonry, brickwork, concrete, etc	4	5/16 x 2-1/4 in. hammer drive anchors, or approved equivalent
Solid metal — metal fences, columns, etc*	4	1 x 5/16 in. No. 18 RH brass machine screws. Drill and tap holes using 17/24 in. drill and 5/16 in. No. 18 tap
Hollow tile, corrugated metal, plaster board, etc	4	1/4 x 4 in. RH toggle bolts

* Iron straps, bolts, etc may be used where local instructions permit. Attach telephone set securely.

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so it can be removed. Bushing may have to be turned 1/4 of a turn to position loop.

- (3) Squeeze bushing with 8-inch pliers from inside and push out at same time. Pull on handset cord.
- (4) Disconnect leads (see proper connection figure).

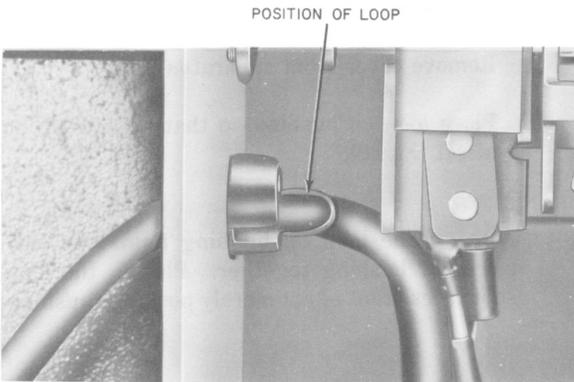


Fig. 9—Position of Loop on RM-730175 Bushing

4.05 To replace handset cord on telephone set, proceed as follows:

- (1) Place cord through hole in apparatus unit.

- (2) Connect leads (see proper connection figure).
- (3) Place bushing around handset cord.

Note: Be sure loop on bushing is on front of set (Fig. 9).

- (4) Squeeze bushing with 8-inch pliers.
- (5) Push bushing into hole.
- (6) Replace cover on apparatus unit.

5. CONNECTIONS

5.01 Unigage Outside Plant Modification: The 8J, 8N, 8K, and 8P apparatus units (Fig. 14 and 15) used in the 570-type telephone set can be modified in the field, by adding a KS-14603L2C, 3700 ohm resistor, when the set is used with Unigauge outside plant. Modify as follows:

- (1) Move lead of the R1 (7300 ohm) resistor from terminal 6 to terminal 9.
- (2) Connect a KS-14603L2C (3700 ohm) resistor between terminal 6 and terminal 9.

5.02 A 500C/D telephone set can be modified for use as an emergency reporting station (Fig. 18).

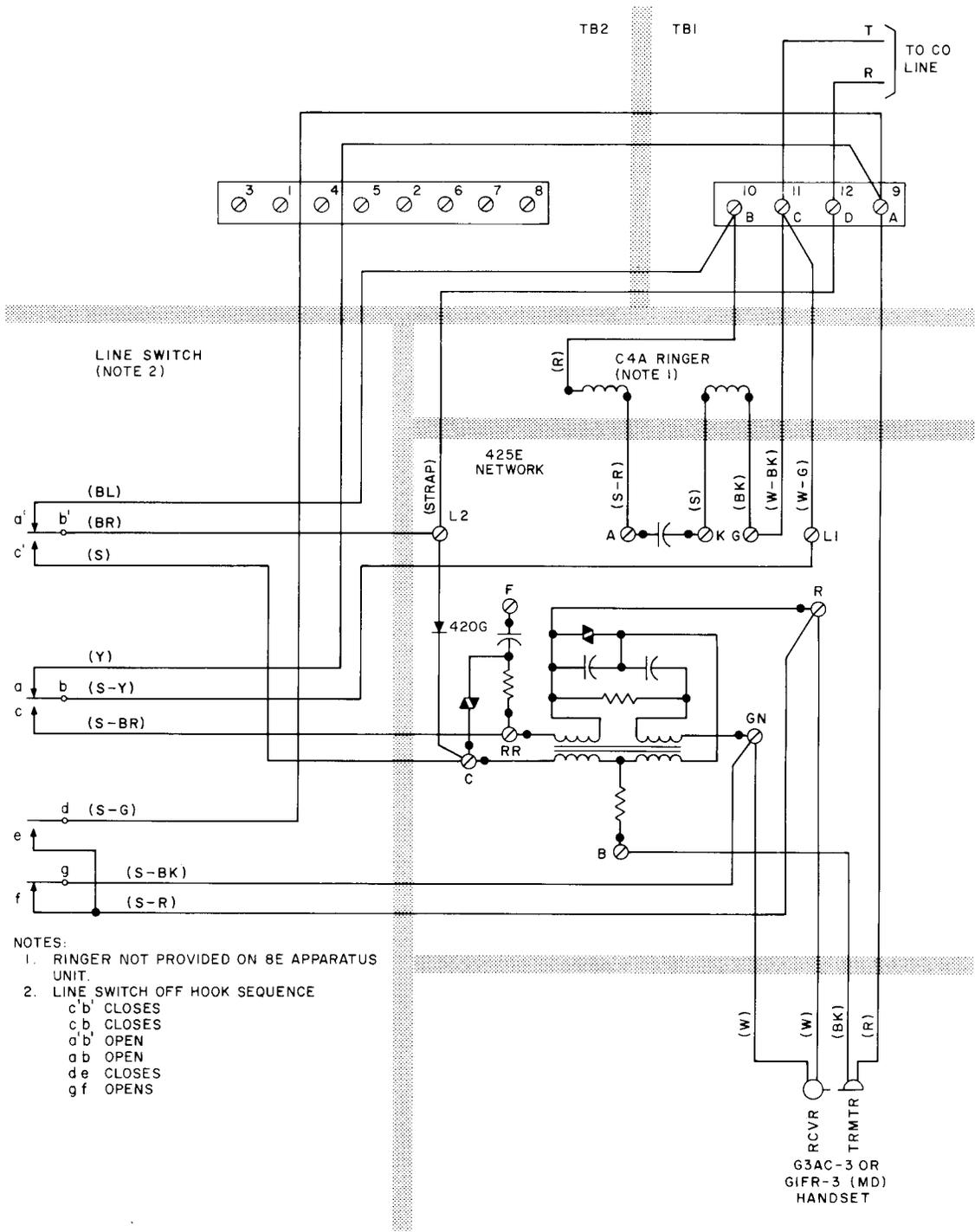


Fig. 10—8A (MD) and 8E (MD) Apparatus Units

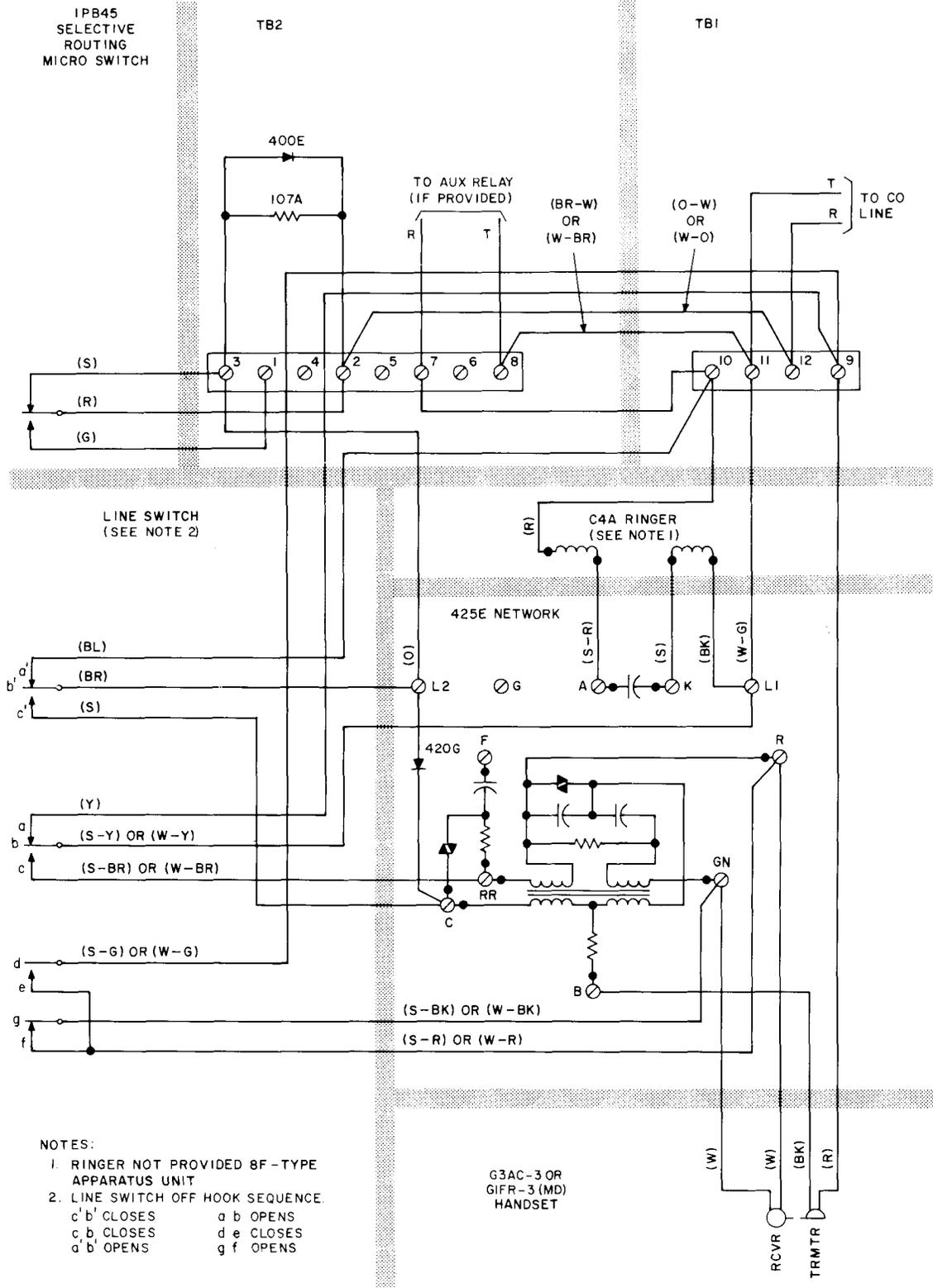


Fig. 11-8B (MD) and 8F (MD) Apparatus Units

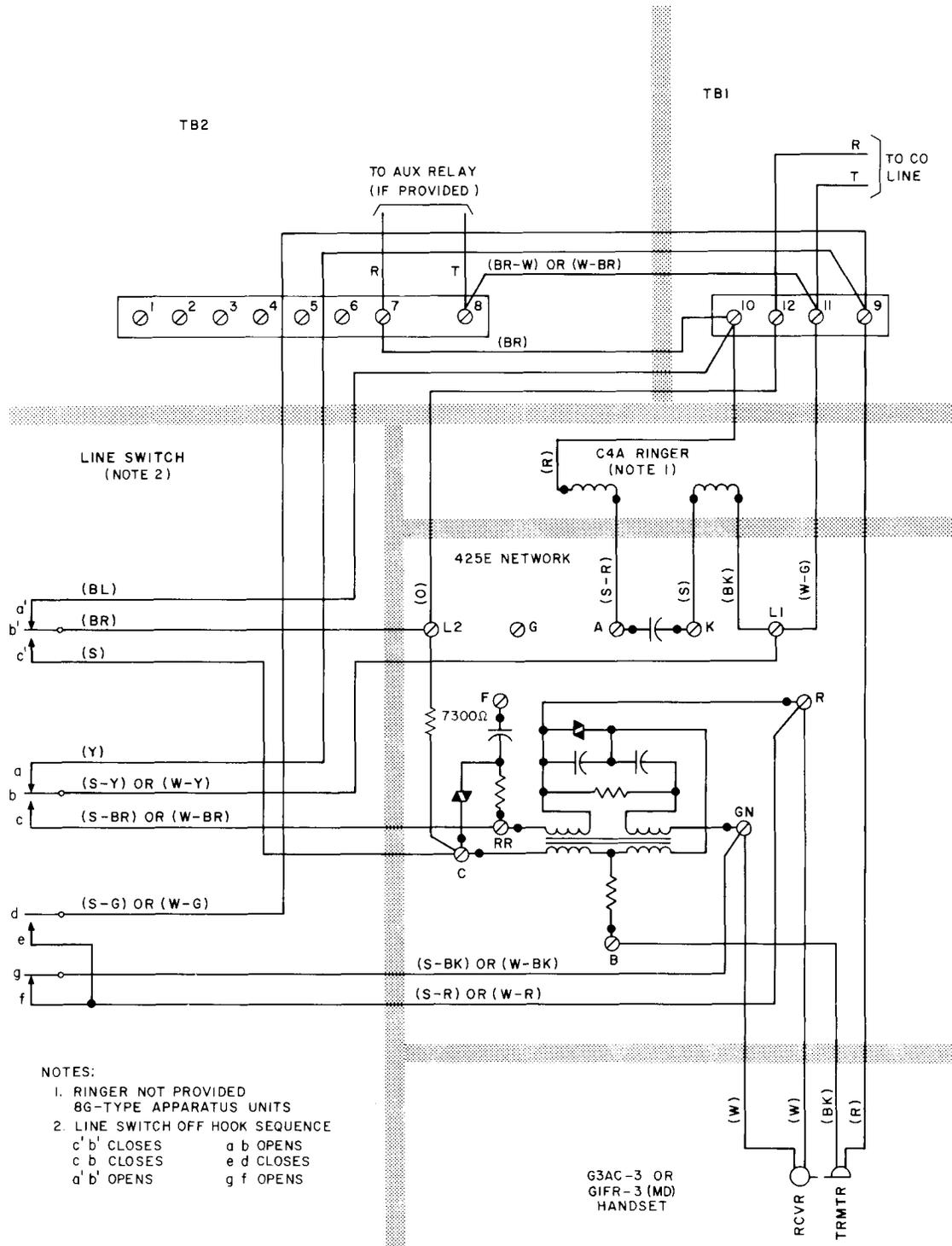
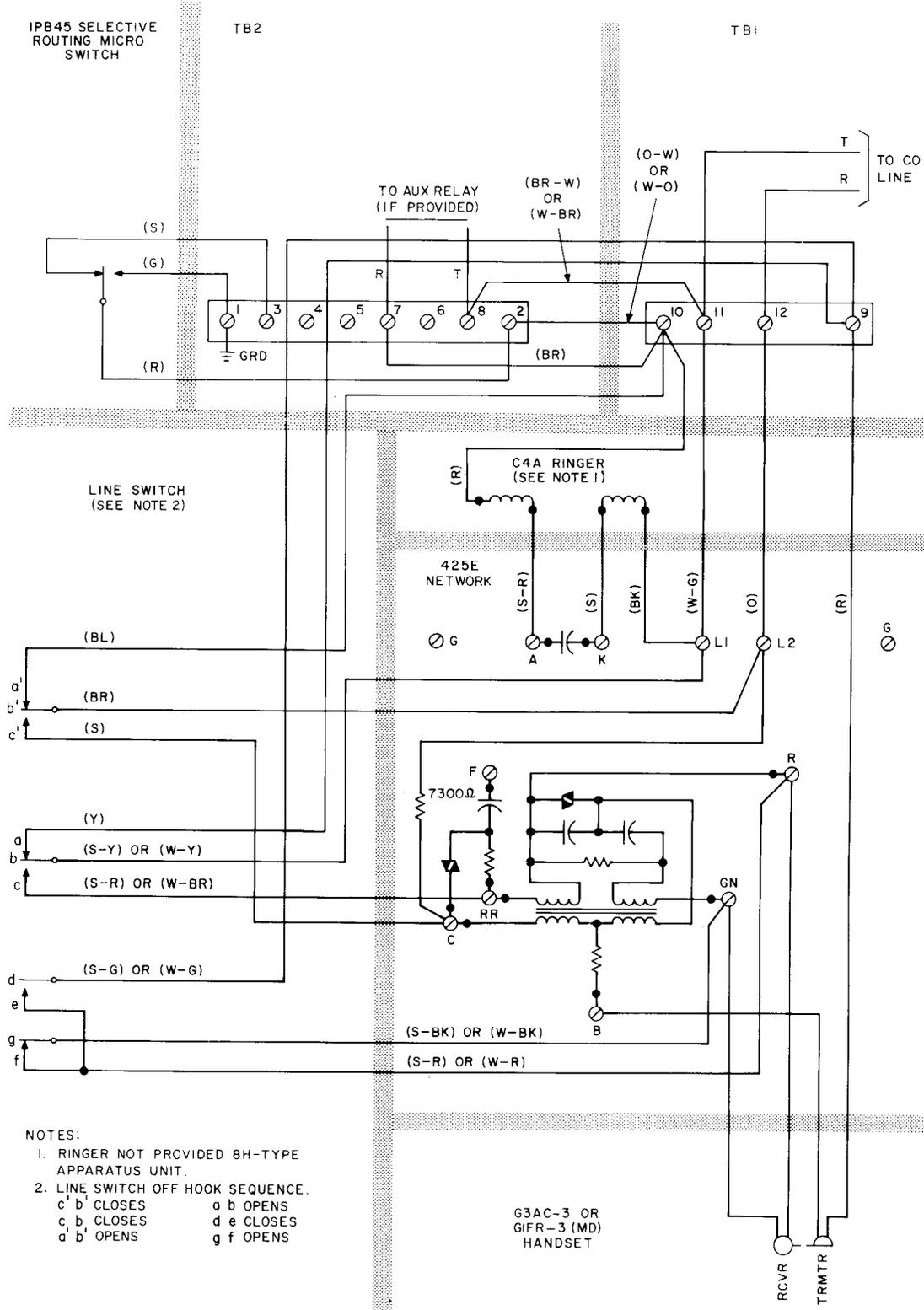


Fig. 12—8C (MD) and 8G (MD) Apparatus Units



- NOTES:
1. RINGER NOT PROVIDED 8H-TYPE APPARATUS UNIT.
 2. LINE SWITCH OFF HOOK SEQUENCE.

c' b' CLOSES	a b OPENS
c b CLOSES	d e CLOSES
a' b' OPENS	g f OPENS

Fig. 13—8D (MD) and 8H (MD) Apparatus Units

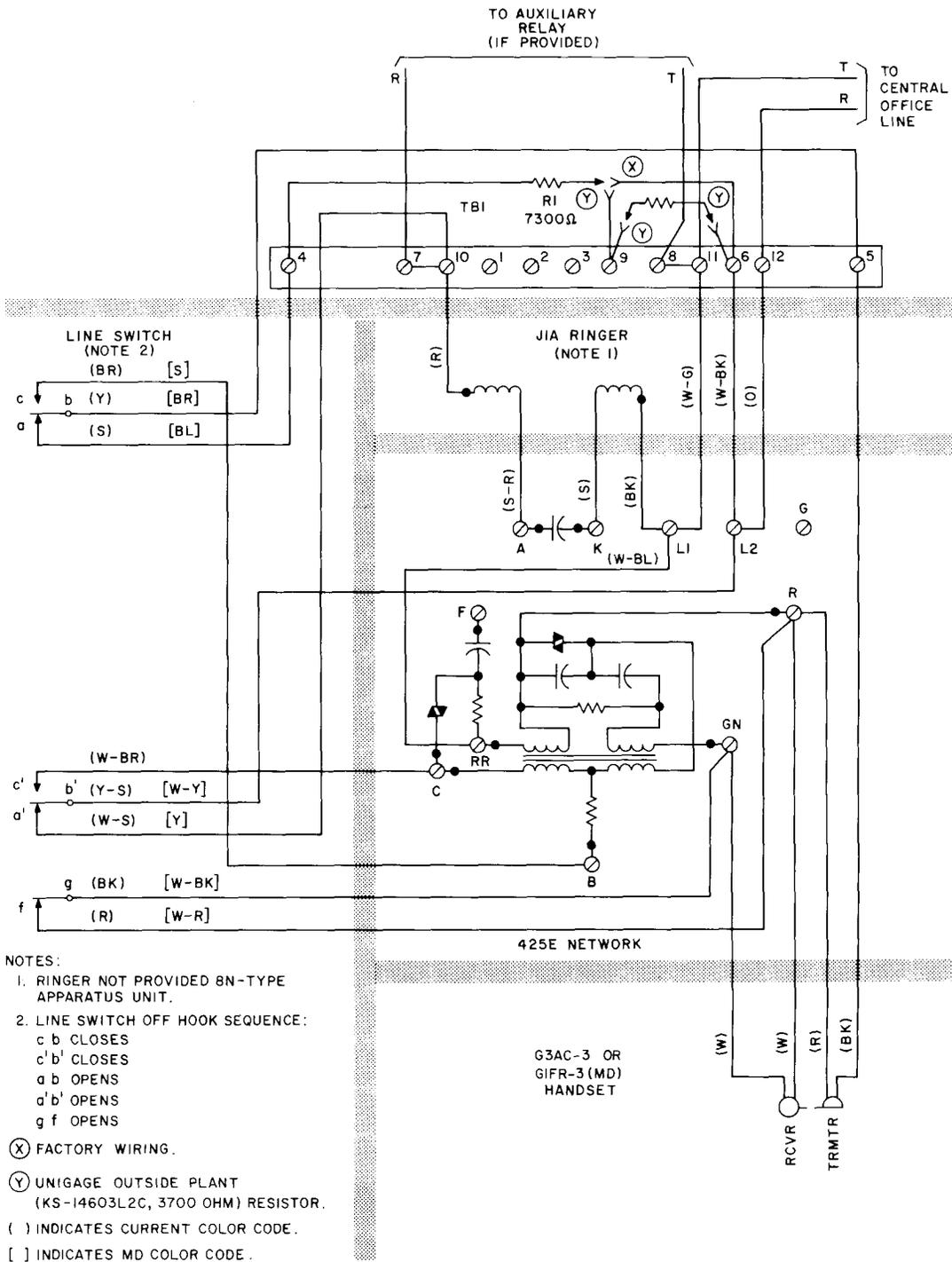


Fig. 14—8J and 8N Apparatus Units

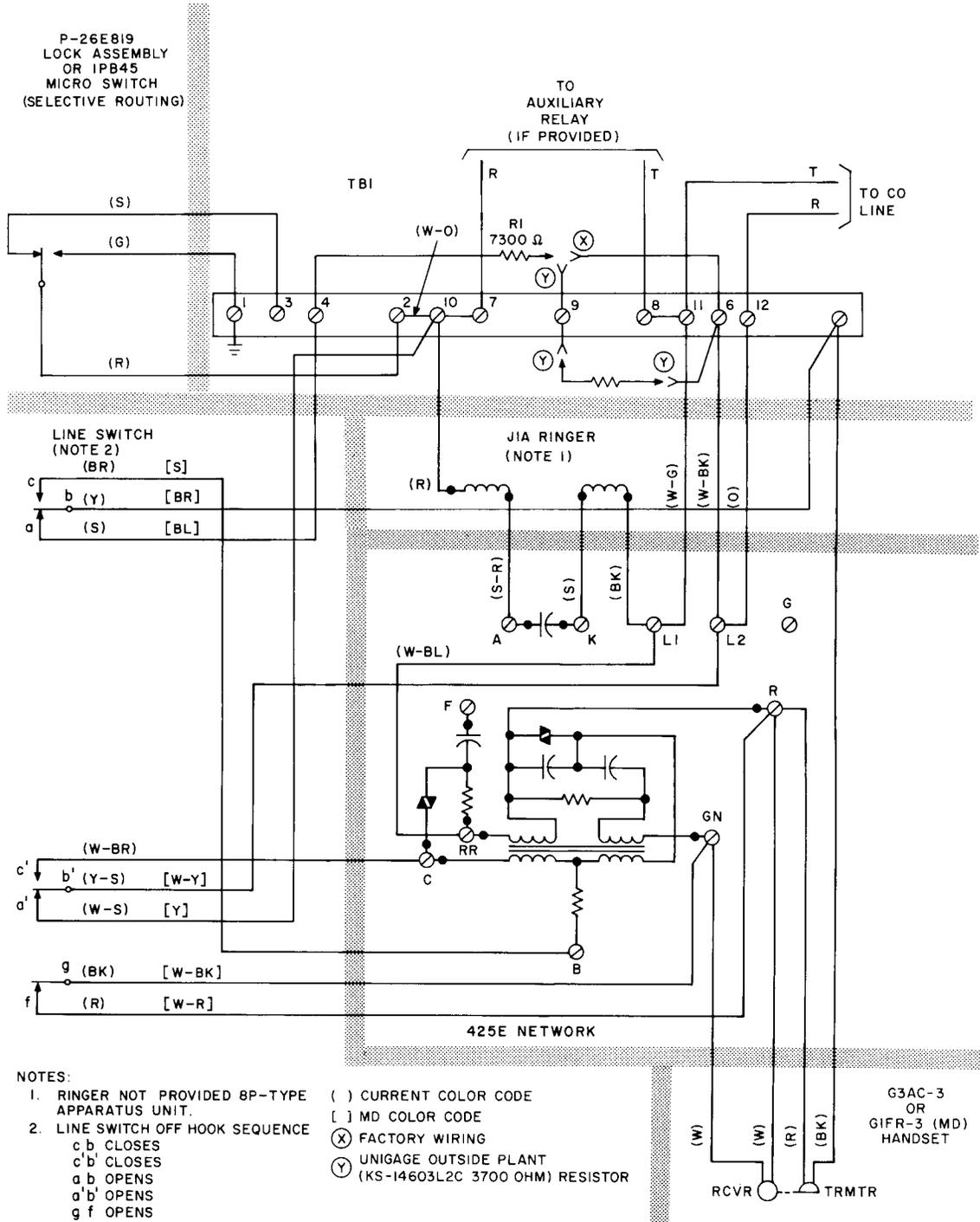


Fig. 15—8K and 8P Apparatus Units

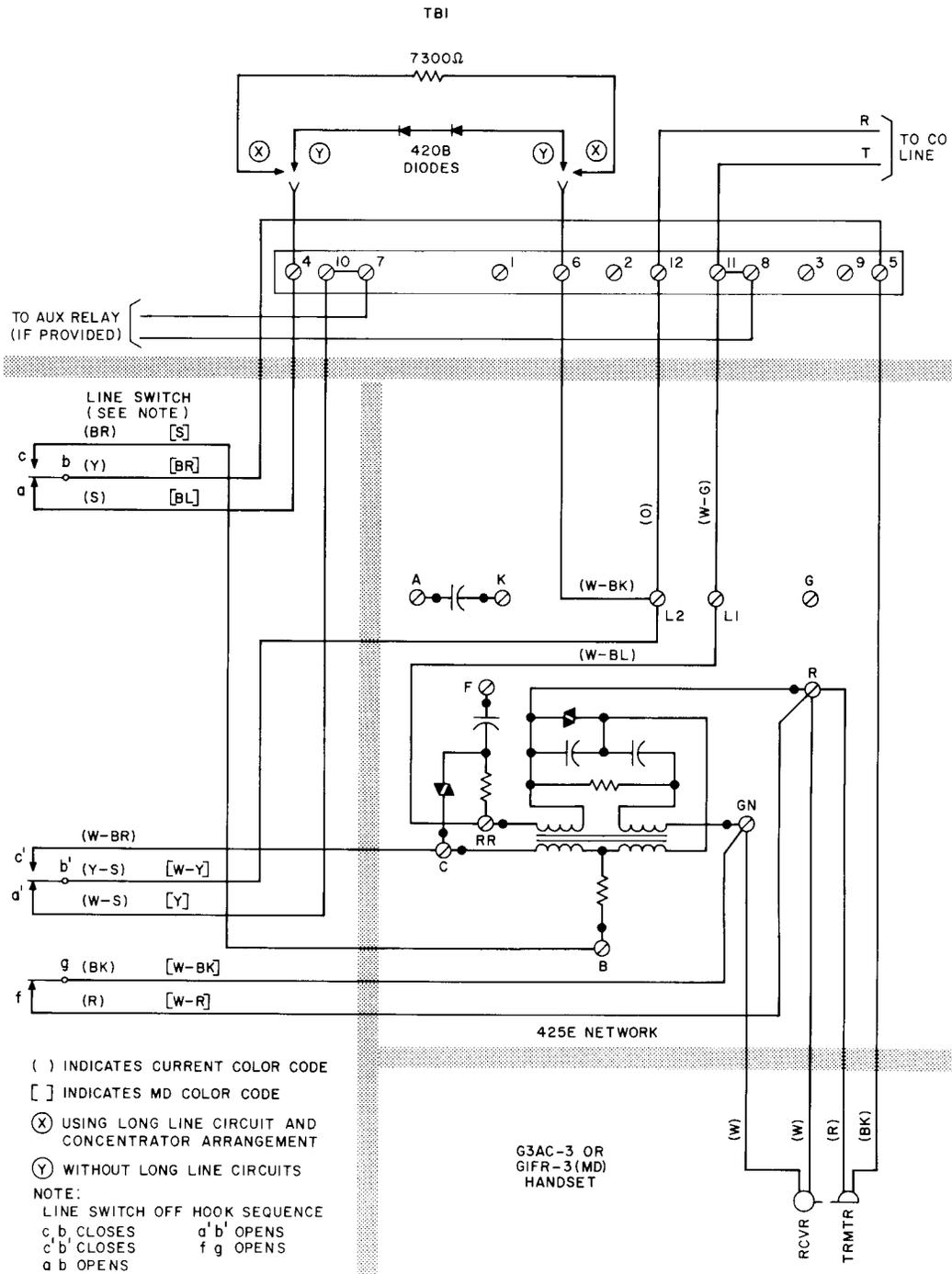


Fig. 16—8L Apparatus Unit

P-26E819
 LOCK ASSEMBLY
 OR IPB45 MICRO
 SWITCH
 (SELECTIVE ROUTING)

TBI

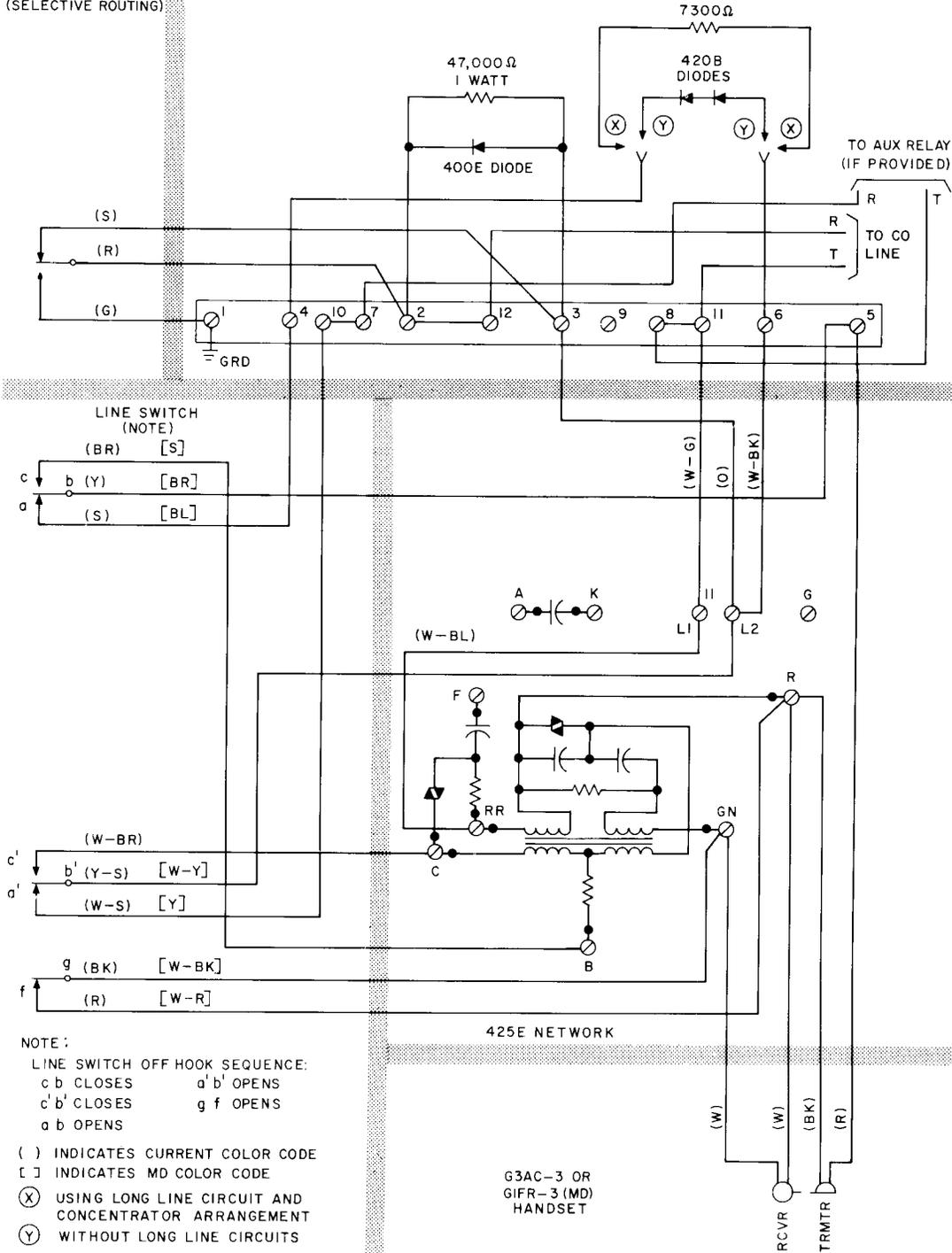


Fig. 17—8M Apparatus Unit

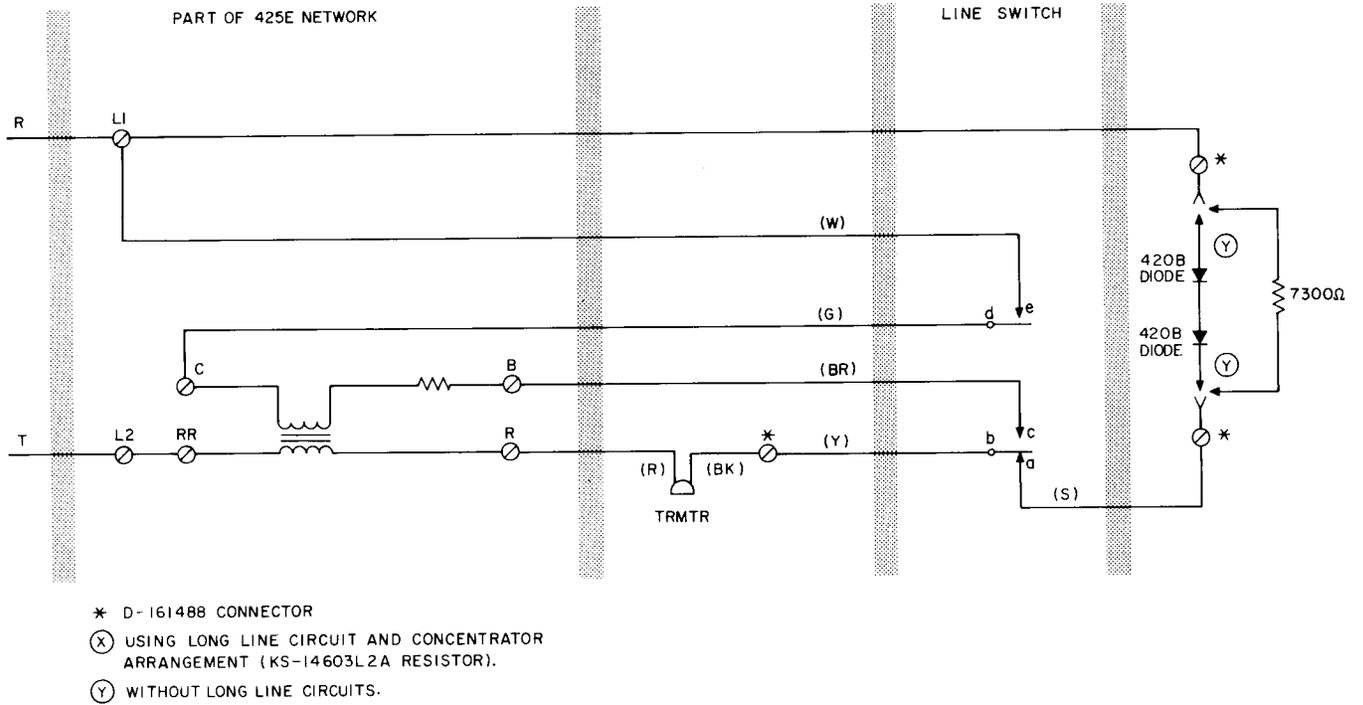


Fig. 18—Modification of 500C/D Telephone Set (Without Dial) for use with 520 Emergency Reporting System (Without Selective Routing)