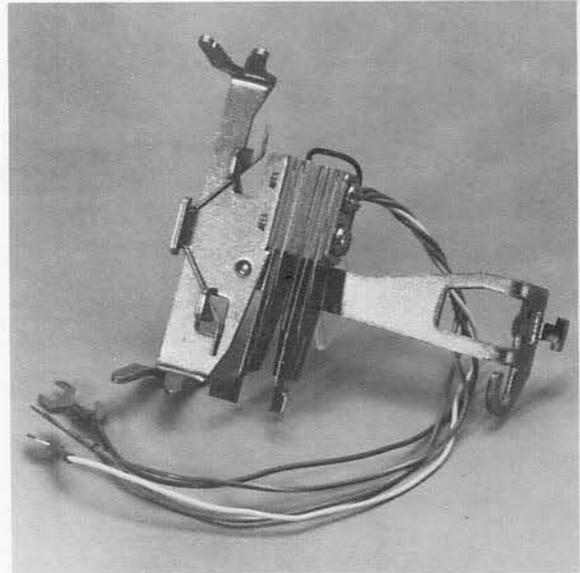


## MODELS 79613 AND 79971 EXCLUSION SWITCH ASSEMBLIES

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Figure 1: Models 79613 and 79971 Exclusion Switch Assemblies

### 1. INTRODUCTION

1.01 This document covers the Models 79613 and 79971 exclusion switch assemblies. (See Figure 1.) A general description as well as information on removal, disassembly, replacement parts, assembly, operation, and installation is included.

1.02 Whenever this section is reissued, reason for reissue will be listed in this paragraph.

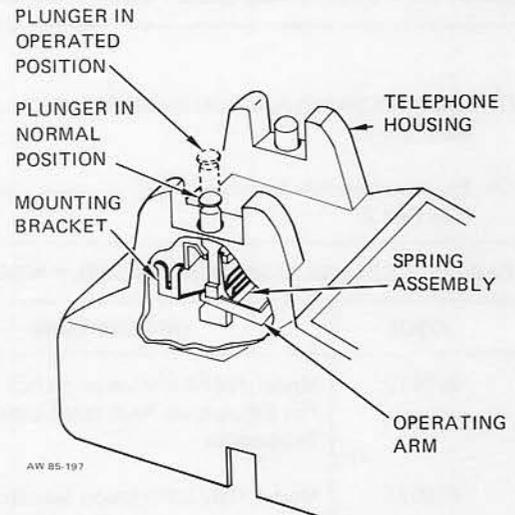
1.03 For information concerning telephones that these exclusion switches are used in, refer to the appropriate section in Volume 1 of the ITT Telephone Apparatus Practices Manual.

### 2. GENERAL DESCRIPTION

2.01 The Models 79613 and 79971 exclusion switch assemblies are designed for use in the ITT desk telephones. The exclusion switch assembly allows the station user to manually exclude other stations from a CO/PBX (Central Office/Private Branch Exchange) line.

2.02 The exclusion switch assembly is controlled by the left-hand cradle plunger.

2.03 The left-hand cradle plunger is of a special design. In the normal or low position, the cradle plunger is used to operate the cradle switch assembly. In the operated or raised position, the cradle plunger is used to operate the exclusion switch assembly. (See Figure 2.)



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Figure 2: Cradle Plunger Positions

2.04 The exclusion switch assembly consists of a spring assembly, a retainer spring, a mounting bracket assembly, and associated wiring. (See Figure 3.)

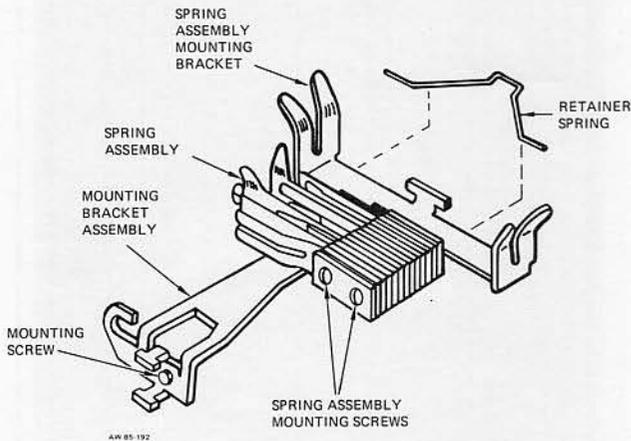


Figure 3: Models 79613 and 79971 Exclusion Switch Assemblies, Component Locations

2.05 The exclusion switch assembly is attached to the mounting bracket of the cradle switch assembly inside the telephone. A mounting screw is provided with the exclusion switch assembly. The associated wiring is equipped with spade-tip leads for attaching to the two-position terminals on the telephone components.

**MODEL 79613**

2.06 The Model 79613 exclusion switch assembly is used in the ITT single-line and the ITT three-line desk telephones.

**MODEL 79971**

2.07 The Model 79971 exclusion switch assembly is used in the ITT six-button key telephone.

2.08 The Models 79613 and 79971 exclusion switch assemblies are identified by a code number. Refer to Table A for ordering information and for an explanation of the code number.

TABLE A

ORDERING INFORMATION

<b>CODE NUMBERS</b>			
<b>EXCLUSION SWITCH ASSEMBLY CODE NUMBERS ARE FORMED IN TWO STEPS AS FOLLOWS:</b>			
		<b>079613</b>	<b>101</b>
(1) Exclusion Switch Assembly Model Number (See Part 1)	_____		
(2) Exclusion Switch Assembly Style (See Part 2)	_____		
<b>PART 1 EXCLUSION SWITCH ASSEMBLY MODEL NUMBER</b>		<b>PART 2 EXCLUSION SWITCH ASSEMBLY STYLE</b>	
<b>CODE</b>	<b>DESCRIPTION</b>	<b>CODE</b>	<b>DESCRIPTION</b>
079613	Model 79613 Exclusion Switch Assembly For Single-Line And Three-Line Desk Telephones	101	Standard
079971	Model 79971 Exclusion Switch Assembly For Six-Button Key Telephones	101	Standard

### 3. REMOVAL

**3.01** To remove the exclusion switch assembly from the telephone, proceed as follows:

- (a) Remove the telephone faceplate, if applicable.
- (b) Remove the telephone housing.
- (c) Loosen the dial mounting screws. Move the dial in order to allow access to the terminal board assembly.
- (d) Disconnect the exclusion switch assembly leads from the telephone components.
- (e) Loosen the ringer mounting screws. Remove the ringer, and move it to one side.
- (f) Loosen the mounting screw of the exclusion switch assembly approximately three-quarters of a turn.
- (g) Lift the exclusion switch assembly up, and pull it out of the mounting slots on the cradle switch assembly.

### 4. DISASSEMBLY

**4.01** To disassemble the exclusion switch assembly, proceed as follows while referring to Table B and Figure 4:

- (a) Unhook the retainer spring from the tabs on the mounting bracket of the exclusion switch assembly.
- (b) Lift the spring assembly from the exclusion switch assembly mounting bracket.
- (c) Carefully loosen the spring assembly mounting screws.
- (d) Remove the spring assembly from its mounting bracket.

**Warning:** Further disassembly of the spring assembly is not recommended, and is beyond the scope of this section.

### 5. REPLACEMENT PARTS

**5.01** Replacement parts for the Models 79613 and 79971 exclusion switch assemblies are listed in Table B, and shown in Figure 4.

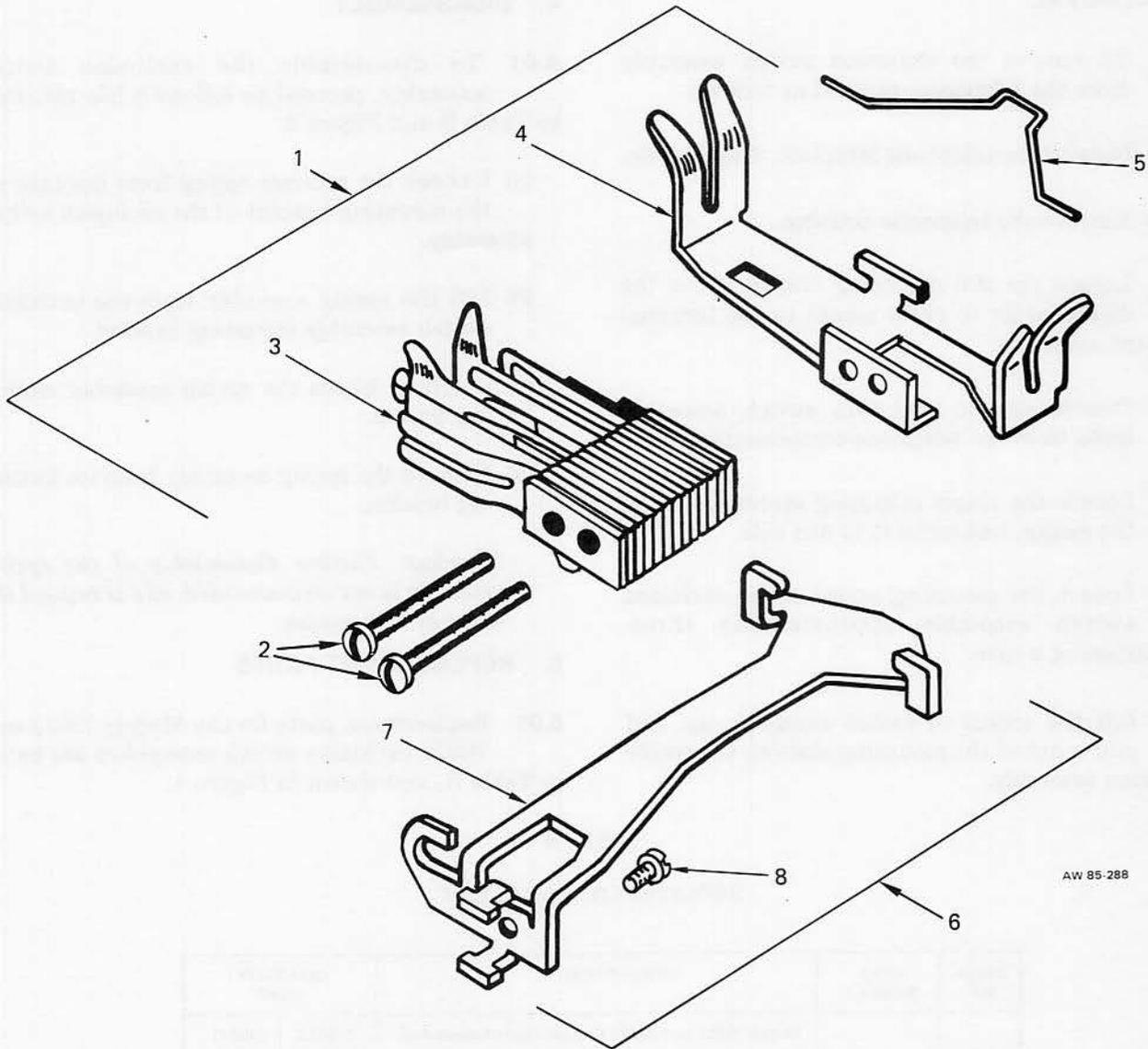
TABLE B  
REPLACEMENT PARTS LIST

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED	
			079613	079971
		Models 79613 And 79971 Exclusion Switch Assemblies	079613	079971
1	079614-101	Spring Assembly	1	—
1	079970-101	Spring Assembly	—	1
2	066849-101	Screw, Spring Mounting	2	—
2	180174-101	Screw, Spring Mounting	—	2
3		Springs, Contact <sup>1</sup>	1	1
4	079604-101	Bracket, Spring Assembly Mounting	1	—
4	079969-101	Bracket, Spring Assembly Mounting	—	1
	075326-745	Wiring Assembly, BK (Not Shown)	1	—
	075326-785	Wiring Assembly, RD/YL (Not Shown)	1	1
	075326-786	Wiring Assembly, GN/YL (Not Shown)	1	1
	075326-787	Wiring Assembly, WH (Not Shown)	1	1
	075326-788	Wiring Assembly, BL (Not Shown)	1	1
	075326-789	Wiring Assembly, BK (Not Shown)	—	1
	075326-798	Wiring Assembly, RD/GN (Not Shown)	—	1
	075326-799	Wiring Assembly, BK/WH (Not Shown)	—	1
	075326-800	Wiring Assembly, RD/BK (Not Shown)	—	1
	075326-101	Wiring Assembly, BN/RD (Not Shown)	—	1
5	079624-101	Spring, Retainer	1	1
6	079625-101	Mounting Bracket Assembly, Exclusion Switch	1	1
7	079605-101	Bracket, Mounting	1	1
8	069020-103	Screw, Bracket Mounting	1	1

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NOTE:

<sup>1</sup> This part is not serviced separately.



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Figure 4: Models 79613 and 79971 Exclusion Switch Assemblies, Exploded View

**6. ASSEMBLY**

**6.01** To assemble the exclusion switch assembly, proceed as follows while referring to Table B and Figure 4:

- (a) Attach the spring assembly to its mounting bracket using the two mounting screws.
- (b) Place the spring assembly onto the mounting bracket of the exclusion switch assembly.
- (c) Hook the retainer spring to the L-shaped tabs on the mounting bracket of the exclusion switch assembly.

**7. OPERATION**

**7.01** The operation of the exclusion switch assembly can be checked before installation inside the telephone. Proceed as follows:

- (a) Invert the telephone housing assembly to provide access to the mounting location of the exclusion switch assembly.
- (b) Place the exclusion switch assembly in its mounting location inside the inverted telephone housing.

- (c) Hold the exclusion switch assembly in place.
- (d) Pull the left-hand cradle plunger to the operated position; then, return the cradle plunger to the normal position.
- (e) Check that the left-hand cradle plunger passes between the innermost contacts of the spring assembly.
- (f) Check that the contacts of each mating pair of springs open and close simultaneously.
- (g) Check for the correct contact operating sequence when the cradle plunger is in the operated position. The contact operating sequence is shown in Figure 5 for the Model 79613 exclusion switch assembly, and in Figure 6 for the Model 79971 exclusion switch assembly.

## 8. INSTALLATION

8.01 To install the exclusion switch assembly inside the telephone, proceed as follows:

- (a) Remove the telephone faceplate, if applicable.

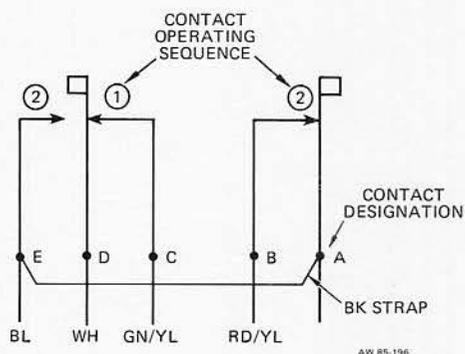


Figure 5: Model 79613 Exclusion Switch Assembly, Schematic

- (b) Remove the telephone housing.
- (c) Remove the dial and ringer, and move them to one side.
- (d) Insert the exclusion switch assembly mounting bracket in the matching mounting slots on the cradle switch assembly.
- (e) Tighten the mounting screw.
- (f) Connect the exclusion switch assembly leads to the telephone components. Refer to the circuit label of the telephone.

*Note:* To replace an exclusion plunger, refer to the replacement parts for the telephone in Volume 1 of the Telephone Apparatus Practices Manual for the correct part number.

- (g) Replace the ringer and dial.
- (h) Replace the telephone housing.

*Note:* Check operation of the left-hand cradle plunger in the normal and operated positions.

- (j) Replace the faceplate, if applicable.

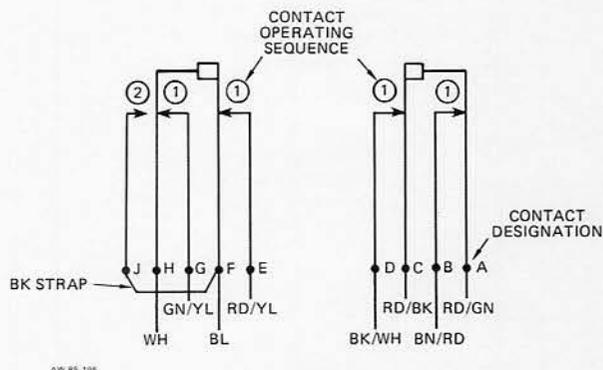


Figure 6: Model 79971 Exclusion Switch Assembly, Schematic