

## MODEL 186177 HOOKSWITCH CRADLE ASSEMBLY

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### 1. INTRODUCTION

1.01 This document covers the Model 186177 hookswitch cradle assembly. (See Figure 1.) A general description as well as information on removal, disassembly, installation, and operation is included.

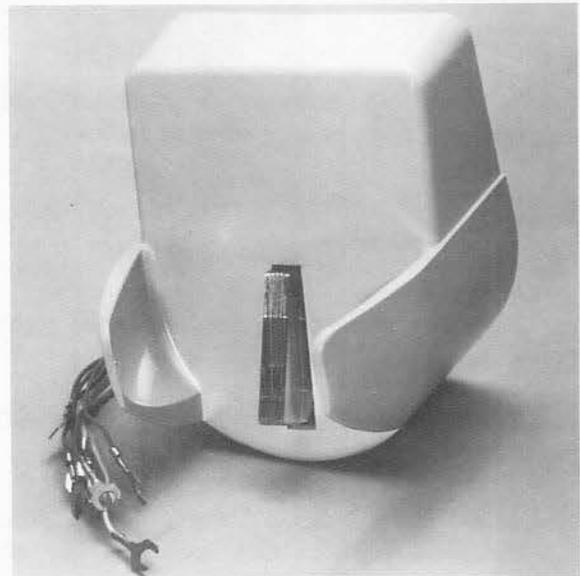
1.02 Whenever this section is reissued, reason for reissue will be listed in this paragraph.

1.03 For information concerning telephones that this hookswitch cradle assembly is used in, refer to the appropriate section in Volume 1 of the ITT Telephone Apparatus Practices Manual.

### 2. GENERAL DESCRIPTION

2.01 The Model 186177 hookswitch cradle assembly is designed for use in the ITT 10-button wall telephones. It provides the hookswitch cradle for holding the telephone handset, and the components necessary for connecting the telephone to a desired line.

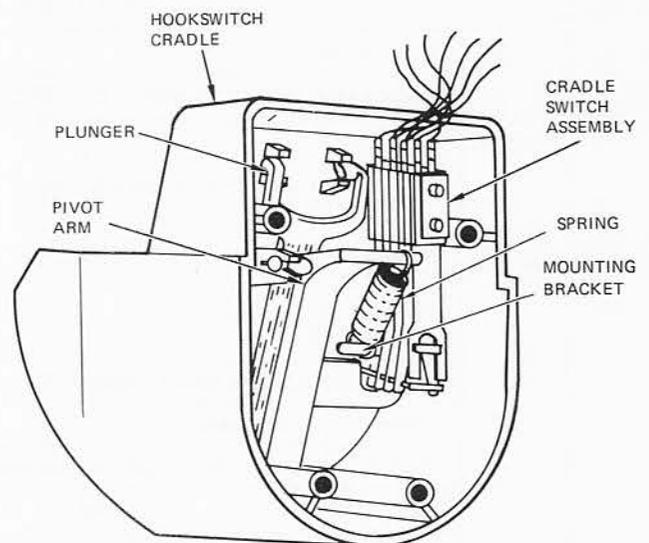
2.02 The hookswitch cradle assembly contacts are operated when the station user removes the telephone handset from the hookswitch cradle. Replacing the telephone handset in the hookswitch cradle returns the contacts to the normal position.



AW 85-184

Figure 1: Model 186177 Hookswitch Cradle Assembly

2.03 The hookswitch cradle switch assembly (see Figure 2) consists of a plastic hookswitch cradle, a spring stack-up cradle switch assembly with mounting screw, a plunger, a pivot arm, and a coiled spring.



AW 85-119

Figure 2: Model 186177 Hookswitch Cradle Assembly, Component Locations

**SECTION 55-177-121, ISS 1**

**2.04** The Model 186177 hookswitch cradle assembly is identified by a code number. Refer to ordering information in Table A for an explanation of the code number.

**3. REMOVAL**

**3.01** To remove the hookswitch cradle assembly from the telephone, proceed as follows:

- (a) Remove the telephone faceplate.
- (b) Remove the telephone housing.
- (c) Remove the telephone dial to provide access to the terminal board.
- (d) Disconnect the leads of the hookswitch cradle assembly from the terminal board.
- (e) Remove the four mounting screws that attach the hookswitch cradle assembly to the telephone base.

**4. DISASSEMBLY**

**4.01** To disassemble the hookswitch cradle assembly, proceed as follows while referring to Figure 2:

(a) Using a pair of needle-nose pliers, remove the coiled spring that is attached to both the pivot arm and the mounting bracket of the cradle switch assembly.

(b) Loosen the cradle switch assembly mounting screw.

(c) Carefully lift and disengage the cradle switch assembly from the pivot arm, and remove it from the hookswitch cradle assembly.

(d) Remove the pivot arm from the plastic hookswitch cradle.

(e) Remove the plunger by lifting it out of the brackets of the hookswitch cradle.

**5. REPLACEMENT PARTS**

**5.01** Replacement parts for the hookswitch cradle assembly are listed in Table B, and shown in Figure 3.

TABLE A

ORDERING INFORMATION

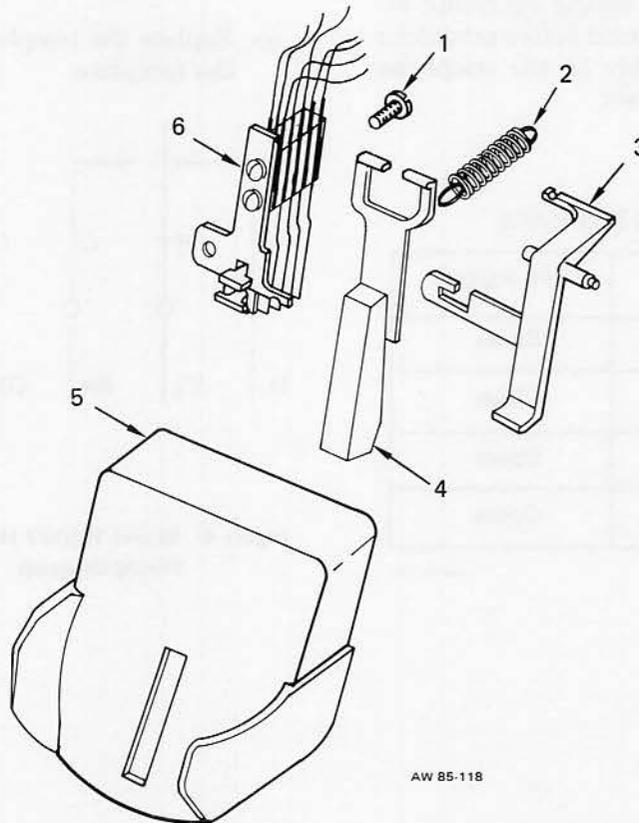
CODE NUMBERS				
HOOKSWITCH CRADLE ASSEMBLY CODE NUMBERS ARE FORMED IN THREE STEPS AS FOLLOWS:				
		186177	0	00
(1) Hookswitch Cradle Assembly Model Number (See Part 1)	_____		_____	_____
(2) Style (See Part 2)	_____			_____
(3) Color (See Part 3)	_____			_____
<b>PART 1 HOOKSWITCH CRADLE ASSEMBLY MODEL NUMBER</b>				
<b>CODE</b>	<b>DESCRIPTION</b>			
186177	Model 186177 Hookswitch Cradle Assembly			
<b>PART 2 STYLE</b>		<b>PART 3 COLOR</b>		
<b>CODE</b>	<b>DESCRIPTION</b>	<b>CODE</b>	<b>DESCRIPTION</b>	
0	Standard	00	Black	
		05	Moss Green	
		13	Beige	
		15	White	
		44	Light Ash	
		45	Cocoa Brown	

TABLE B  
REPLACEMENT PARTS LIST

INDEX NO	PART NUMBER	DESCRIPTION	QUANTITY USED
		<b>Model 186177 Hookswitch Cradle Assembly</b>	<b>0**</b>
1	096407-102	Screw, Mounting	1
2	075307-102	Spring, Coiled	1
3	186175-101	Arm, Pivot	1
4	088773-101	Plunger	1
5	186174-0**	Cradle, Hookswitch	1
6	186178-101	Cradle Switch Assembly	1
	181978-162	Wire Assembly, SL (Not Shown)	1
	181978-161	Wire Assembly, YL (Not Shown)	1
	181978-119	Wire Assembly, BN (Not Shown)	1
	181978-160	Wire Assembly, GN (Not Shown)	1
	181978-112	Wire Assembly, WH (Not Shown)	1
	181978-113	Wire Assembly, RD (Not Shown)	1
	181978-114	Wire Assembly, BK (Not Shown)	1

AW 85-147

\*\* Substitute 2-digit color code when ordering.



AW 85-118

Figure 3: Model 186177 Hookswitch Cradle Assembly, Exploded View

**6. ASSEMBLY**

**6.01** To assemble the hookswitch cradle assembly, proceed as follows:

- (a) Install the plunger in the plastic hookswitch cradle.
- (b) Install the pivot arm.
- (c) Install the cradle switch assembly. Carefully engage the t-shaped operating bar with the slot of the pivot arm.
- (d) Insert the mounting screw for the cradle switch assembly.
- (e) Using a pair of needle-nose pliers, place one end of the coiled spring in the slot on the mounting bracket of the cradle switch assembly. Attach the other end to the slot on the pivot arm.

**7. OPERATION**

**7.01** A check of the correct spring operating sequence should be performed before mounting the hookswitch cradle assembly to the telephone base. The procedure is as follows:

- (a) Manually press down the plunger to simulate going on-hook.
- (b) Release the plunger to simulate going off-hook, and check the spring operating sequence while referring to Table C and Figure 4.

**8. INSTALLATION**

**8.01** To install the hookswitch cradle assembly on a telephone, proceed as follows:

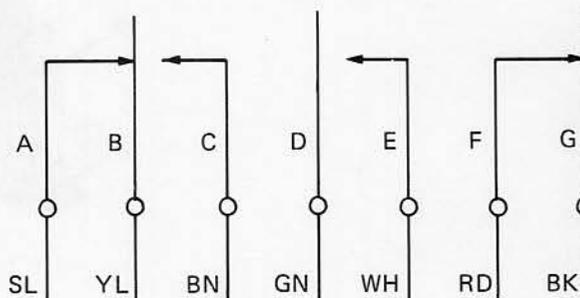
- (a) Remove the telephone faceplate and telephone housing.
- (b) Mount the hookswitch cradle assembly on the telephone base using the four mounting screws.
- (c) Remove the dial to provide access to the terminal board.
- (d) Connect the wires to the terminal board while referring to the circuit label of the telephone.
- (e) Replace the telephone dial, the housing, and the faceplate.

TABLE C

CONTACT OPERATING SEQUENCE

CONTACT	ON-HOOK	OFF-HOOK
B-C	Opens	Closes
D-E	Opens	Closes
A-B	Closes	Opens
F-G	Closes	Opens

AW 85-148



AW 85-120

Figure 4: Model 186177 Hookswitch Cradle Assembly, Wiring Diagram