

MODEL 67 ELECTRONIC TELEPHONE HANDSET

CONTENTS	PAGE
1. INTRODUCTION	1
2. GENERAL DESCRIPTION	1
MODEL 0067**-EC2	1
MODEL 0067**-EC3	1
MODEL 0067**-EM2	2
3. INSTALLATION	2
4. FAULT ISOLATION	2
5. DISASSEMBLY AND ASSEMBLY	3

1. INTRODUCTION

1.01 This document covers the Model 67 electronic telephone handset. (See Figure 1.) A general description as well as information on disassembly, assembly, replacement parts, fault isolation, 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 using the Model 67 electronic telephone handset, refer to the appropriate section in Volume 1 of the ITT Telephone Apparatus Practices Manual.

2. GENERAL DESCRIPTION

2.01 The Model 67 electronic telephone handset (see Figure 2) is equipped with an electronic transducer transmitter and a central armature receiver. The transmitter and receiver are housed in a molded plastic handle containing a transmitter holder assembly and a cotton ball baffle. Two molded plastic caps, one each for the transmitter and receiver, are threaded onto the handle. A four-wire cord electrically separates the transmitter and receiver.

2.02 The transmitter holder assembly contains two screw terminals for connecting either the nonmodular handset cord or the modular jack. The transmitter rests on pressure-type connectors in the transmitter holder assembly.



AW 85-170

Figure 1: Model 67 Electronic Telephone Handset

2.03 The nonmodular handset cord and modular jack are terminated with spade-tip lugs for connecting to the receiver.

2.04 The handset contains a cotton ball baffle inserted through the receiver cavity into the handle. This baffle reduces acoustic coupling from the receiver to the transmitter. If the baffle is not used, clarity of reception will be impaired.

2.05 The Model 67 electronic telephone handset will operate only on the Model 2400 electronic telephone. Several versions of the handset are available; the differences are limited to the length and modularity of the handset cords and are described in the following paragraphs. Refer to Table A for ordering information.

MODEL 0067**-EC2

2.06 The Model 0067**-EC2 is a standard electronic telephone handset equipped with a 4-foot, nonmodular, coiled, handset cord.

MODEL 0067**-EC3

2.07 The Model 0067**-EC3 is a standard electronic telephone handset equipped with a 9-foot, nonmodular, coiled, handset cord.

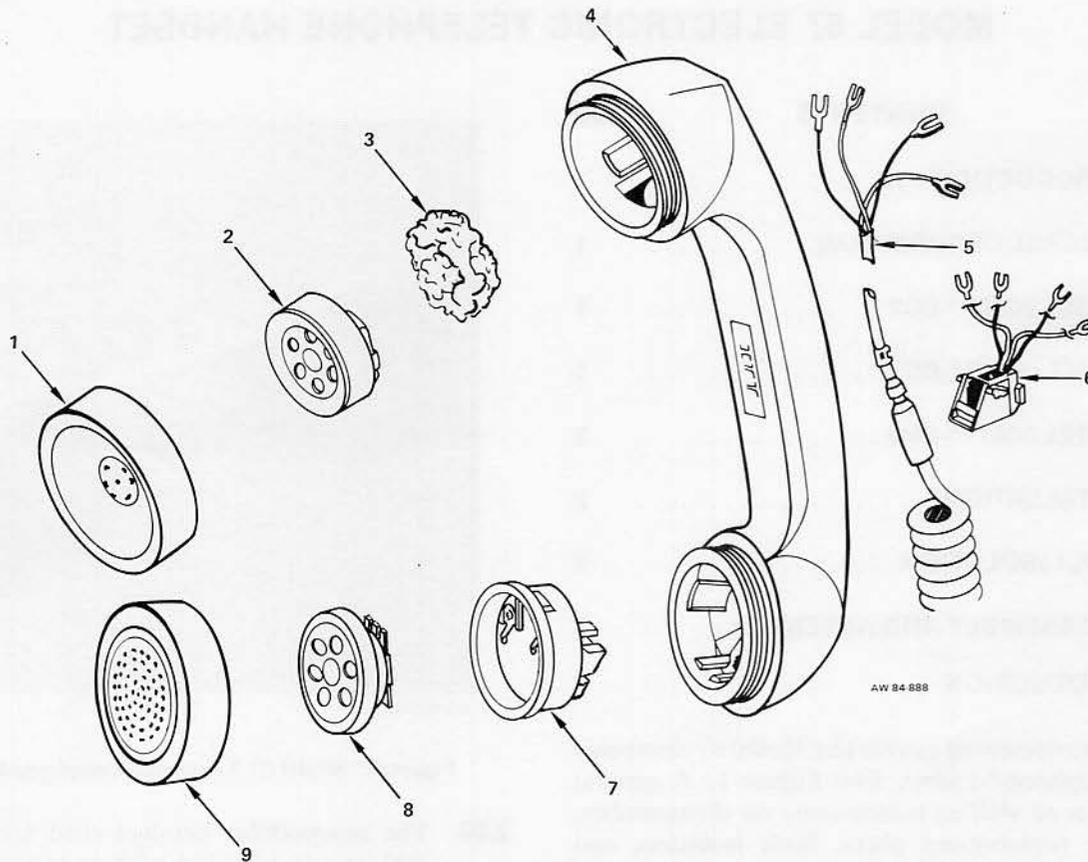


Figure 2: Model 67 Electronic Telephone Handset, Exploded View

MODEL 0067-EM2**

2.08 The Model 0067**-EM2 is a standard electronic telephone handset equipped with a modular jack to accept the plug of a modular handset cord.

3. INSTALLATION

3.01 To install a nonmodular handset, proceed as follows:

- (a) Remove the telephone housing.
- (b) Refer to the applicable telephone circuit label and determine the correct wiring for the handset cord.
- (c) Connect the handset cord to the telephone.
- (d) Attach the handset cord strain relief anchor to the telephone base.
- (e) Reinstall the telephone housing. Ensure that the handset cord passes through the slot in the side of the housing.

3.02 To install a modular handset, proceed as follows:

- (a) Insert one end of the modular handset cord into the modular jack of the handset.
- (b) Insert the other end of the modular handset cord into the appropriate modular jack of the telephone.

4. FAULT ISOLATION

4.01 Proper testing of both the transmitter and receiver requires the use of special test equipment. However, a suspected faulty handset can be adequately checked for maintenance purposes by direct comparison with, or substitution by, a handset that is known to be functioning properly.

4.02 A faulty transmitter can be identified by noise in the circuit or low transmission levels. A DC ohmmeter test is not a reliable method for checking the condition of an electronic transducer transmitter.

TABLE A
ORDERING INFORMATION

CODE NUMBERS			
HANDSET CODE NUMBERS ARE FORMED IN THREE STEPS AS FOLLOWS:			
(1) Handset Model Number (See Part 1)	0067	15	EC2
(2) Color Code (See Part 2)			
(3) Versions (See Part 3)			
PART 1 HANDSET MODEL NUMBER			
CODE	DESCRIPTION	COLOR OFFERED	VERSION OFFERED
0067	Model 67 Electronic Telephone Handset	00, 05, 09, 12, 13, 15, 43, 44, 45, 46, 47 (Available On All Versions)	EC2 EC3 EM2
PART 2 COLORS		PART 3 VERSIONS	
CODE	COLORS	CODE	VERSIONS
00	Black	EC2	Equipped With 4-Foot Nonmodular Handset Cord
05	Moss Green	EC3	Equipped With 9-Foot Nonmodular Handset Cord
09	Ivory	EM2	Equipped With Modular Jack (Cord Must Be Ordered Separately)
12	Aqua Blue		
13	Beige		
15	White		
43	Orange		
44	Light Ash		
45	Cocoa Brown		
46	Harvest Gold		
47	Cherry Red		

AW 84 896

4.03 A faulty receiver can be identified by distortion from a loose or damaged diaphragm or an open coil.

4.04 A faulty handset cord can result in interrupted transmissions or cause transmission to cease completely.

4.05 When a fault is isolated, check the handset wiring and replace the faulty part. If the problem still exists, substitute a handset that is known to be functioning properly.

5. DISASSEMBLY AND ASSEMBLY

5.01 To disassemble the Model 67 electronic telephone handset, proceed as follows while referring to Figure 2 and Table B:

- (a) Loosen the receiver cap by turning it in a counterclockwise direction; remove the cap from the handle.
- (b) Tilt the handle to one side and remove the receiver.
- (c) Disconnect the two wires from the receiver by disengaging each spade-tip lug from the screw terminals.
- (d) Remove the cotton ball baffle from the handle.
- (e) Loosen the transmitter cap by turning it in a counterclockwise direction; remove the cap from the handle.

TABLE B

REPLACEMENT PARTS LIST

INDEX NO	PART NUMBER	DESCRIPTION MODEL 67 ELECTRONIC TELEPHONE HANDSET	QUANTITY USED		
			67/EC2	67/EC3	67/EM2
1	079289-0**	Cap, Receiver	1	1	1
2	183463-102	Receiver	1	1	1
3	079545-101	Baffle, Cotton Ball	1	1	1
4	184298-0**	Handle	1	1	1
5	1005**-048	Cord, Coiled (4-Foot Nonmodular)	1	—	—
5	1005**-108	Cord, Coiled (9-Foot Nonmodular)	—	1	—
6	182947-101	Modular Jack Assembly	—	—	1
7	184303-101	Transmitter Holder Assembly	1	1	1
8	184305-102	Transmitter, Electronic Transducer	1	1	1
9	079290-0**	Cap, Transmitter	1	1	1

AW 84-895

** Substitute 2-digit color code when ordering.

- (f) Remove the transmitter.
- (g) Lift the transmitter holder assembly from the handle, loosen the two screw terminals, and disengage the spade-tip lugs.
- (h) For nonmodular handsets, remove the handset cord by guiding it through the hole in the handle. For modular handsets, remove the modular jack by lifting it from the transmitter holder assembly.

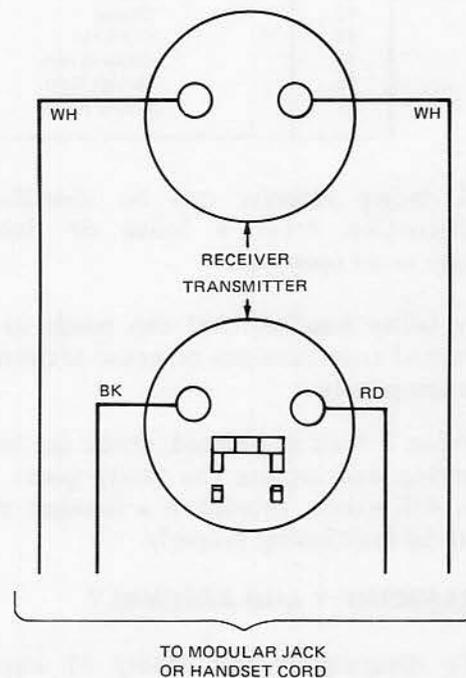
5.02 To assemble the handset, proceed as follows:

- (a) For nonmodular handsets, insert the handset cord through the small hole in the end of the handle and pull the cord through the hole until the strain relief section of the cord is in place. For modular handsets, press the modular jack into the u-shaped slot on the bottom of the transmitter holder.
- (b) Feed the two WH leads through the handle and out the receiver cavity.
- (c) Insert the cotton ball baffle through the receiver cavity and into the handle.
- (d) Connect the spade-tip lug on each of the two WH leads to a screw terminal on the receiver (see Figure 3).
- (e) Place the receiver into the handle; thread the receiver cap onto the handle by turning it in a clockwise direction.
- (f) Connect the RD and BK lead spade-tip lugs to the screw terminals on the transmitter holder assembly.

- (g) Place the transmitter holder assembly into the handle (see Figure 2).

Note: When assembling the nonmodular handset, the u-shaped slot on the bottom of the transmitter holder must engage the cord strain relief.

- (h) Place the transmitter into the transmitter holder assembly; make sure that the two terminals on the transmitter contact the two pressure-type connectors in the transmitter holder assembly. Thread the transmitter cap onto the handle by turning it in a clockwise direction.



AW 84-899

Figure 3: Handset Wiring Diagram