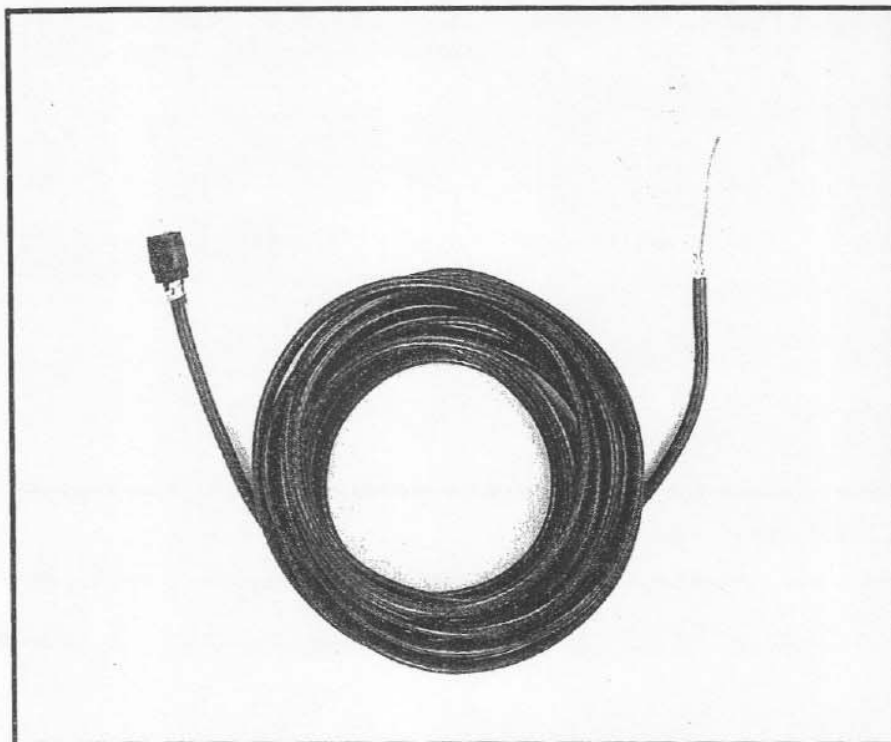




Electro-Voice®

a MARK IV company

Model CO9R Repair Kit For E-V Models CO90-CO90E

CO9R Repair Kit Parts List (Part No. 88990)

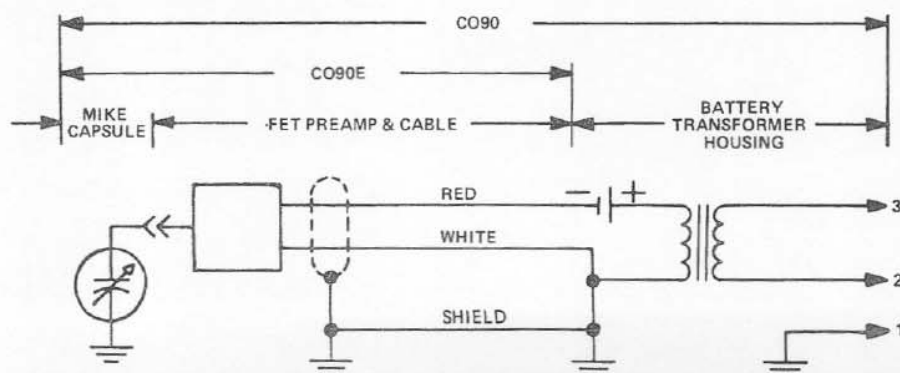
Item	Description	Part No.	Required
1	Electronics & cable assembly	88802	1
2	Banding clamp	20247	1
3	Instruction sheet	53488	1

Tools Required

- .035 Allen wrench
- .050 Allen wrench
- Wire strippers
- Diagonal wire cutter
- Crimping or regular gas pliers
- Soldering iron
- Solder

DESCRIPTION

The CO9R is a repair kit for Electro-Voice microphones, CO90 and CO90E. The repair kit contains a replacement electronics cable assembly and a banding clamp. Detailed repair instructions are printed on the back side of the page. These parts have been packaged in a repair kit because they are subjected to the greatest abuse. Other replacement parts for the Models CO90 and CO90E may be ordered from Electro-Voice. A complete parts list is included in the engineering data sheet for the CO90 and CO90E. This repair kit has been provided for the convenience of field repair. Authorized factory repair service may be obtained by returning the microphone to Electro-Voice, Inc., ATTN: Repair Department, 600 Cecil Street, Buchanan, Michigan 49107.



POSITIVE PRESSURE ON DIAPHRAM CAUSE POSITIVE VOLTAGE ON PIN 2

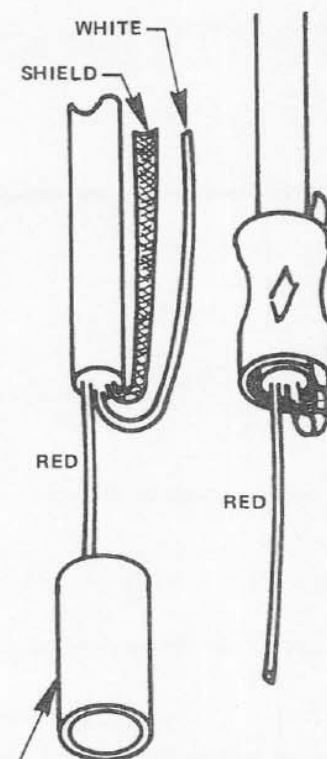
FIGURE 1 — Schematic

1. Disassemble the CO90/CO9E microphone to be repaired as follows: (refer to Figure 3)
 - a. Remove the head capsule (Item 2) by unscrewing it from the electronics housing (Item 5).
 - b. Remove the battery transformer/housing and belt clip (Items 14 and 15) by unscrewing them from Item 12.
2. Cut the miniature microphone cable anywhere between Item 5 and Item 12.
3. Loosen set screw (Item 11) in the electronics housing with an .035 Allen wrench by turning it counterclockwise several turns.
4. Push the cable on Item 3 towards Item 5 and remove Item 3 completely from Item 5. You may discard the old Item 3.
5. Thread the cable end of replacement Item 3 through the hole in Item 5. Pull on the cable until the electronics assembly is seated in Item 5. Tighten set screw (Item 11) until it snug and Item 3 is retained in Item 5. Screw the head capsule (Item 1) onto the electronics housing (Item 5). (NOTE: This completes the repair of the CO90E.)

6. On Item 12 remove set screw (Item 13) with an .050 Allen wrench. Push the cable towards the metal shell (Item 12) until the plastic inserts (Item 7) are free from Item 12.
7. Item 7 can now be separated, exposing the contact assembly (Items 10, 9, 8) and the banding clamp (Item 6).
8. Unsolder the red wire from the contact assembly (Items 10, 9, 8).

Refer to Figure 2 for the following steps:

- NOTE: Stripping of the delicate inner conductors is best accomplished with the tip of a hot soldering iron.
9. Making certain the white wire on the new replacement cable assembly (Item 3) is stripped completely of insulation, twist the shield and the white wire together and fold them back onto the microphone cable.
 10. Carefully position the new banding clamp (Item 6) over the end of the cable and squeeze it with a pair of pliers to capture the shield and white wire. Trim the excess wire from the banding clamp.
 11. Solder the red wire to the contact assembly (Items 10, 9, 8).
 12. Assemble the repaired microphone by reversing Steps 7 and 6.



ITEM 6 — PART NO. 20247

FIGURE 2 — Banding Clamp Cable Assembly

REPLACEMENT PARTS LIST

Item	Description	Part No.	Req'd
1	Windscreen	89631	1
2	Head capsule	88803	1
3	Electronics & cable assembly	88802	1
4	Tie clasp	70316	1
5	Rear case	70515JJ	1
6	Banding clamp	20247	1
7	Plastic insert	79604UA	2
8	Washer	38576	1
9	Steel washer	38649AD	1
10	Rivet	20077AD	1
11	Set screw #2-56	62439BB	1
12	Steel shell	70846JJ	1
13	Set screw #4-40	62929AD	1
14	Belt clip	A70281	1
15	Battery/Transformer housing	88801	1

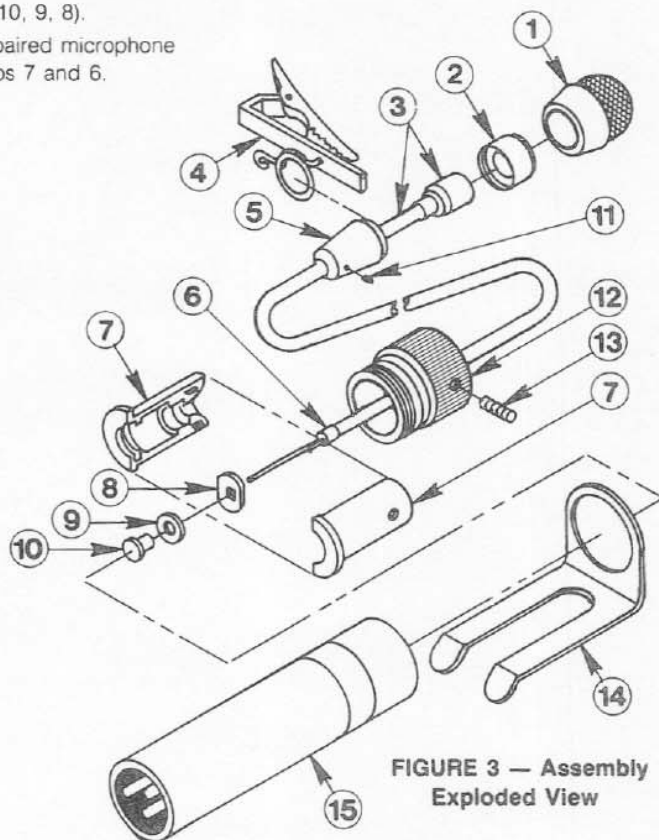


FIGURE 3 — Assembly Exploded View



ELECTRO-VOICE, INC., 600 Cecil Street, Buchanan, Michigan 49107

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