

FAA-APPROVED AVIATION

DTMF Microphone

**Repair Manual for Part Numbers:
VM-888DTMF and VM-889DTMF**

DISCLAIMER:

OTTO Engineering Inc. only authorizes replacement of the keypad and coil cord to be replaced in the field. All other repairs must be sent to an FAA certified repair center. This device is classified as a Category 4 device. Any unauthorized repairs are at the risk of the owner.



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Table of Contents:

Cable Replacement Instructions.....4

Keypad Replacement Instructions.....4

Replacement Parts.....9

Revision History.....3

Revision History

Date	Description of Change/Update	By:	Rev Number
3-9-09	Repair Manual Created	Josh Lennart	A
1-12-15	Update J1 connector wiring view	Del Heflin	B
6-05-15	Remove V3-10552, added V3-10383	Diane Rinehart	C
11-05-15	Typo and Layout corrections	Del Heflin	D

MODIFICATIONS:

This manual is to assist customers in the replacement of the keypad and the coiled cord. These modifications should only be done by qualified service personnel. OTTO Engineering Inc. does not guarantee the quality of the workmanship if performed by any other FAA repair station besides OTTO Engineering Inc.

Cable replacement:

1. Remove the four screws from the rear of the case (brass hanger may or may not be present).
2. Carefully start to open up the case.
3. See figure 1 and 2. While opening up the unit, carefully disconnect the front microphone tunnel from the rear microphone tunnel. The drawings show the order of assembly of the felt, microphone, and tunnels.
4. Carefully disconnect the end cable connector in PCB. Gently grab the connector from both sides and slide it out.
5. Insert replacement cable connector in PCB board. See figure 3 for correct
6. Reassemble the front and rear microphone tunnels. Ensure that the felt for each tunnel is in the proper spot. Make sure the PTT actuator lever is still in proper place.
7. Connect the front and rear side of the units together while tucking the two microphone wire to the front tunnel. Make sure the PTT actuator lever is still in proper place.
8. Replace the four screws and verify that the unit is working properly.

Keypad replacement:

1. Execute steps one through three of cable replacements to disassemble the speaker microphone.
2. Refer to figure 3. Remove the flex cable of the keypad from the PCB.
3. Refer to figure 4. Remove the two screws that hold the keypad in the front housing to remove keypad from unit.
4. Install the replacement keypad into the front housing.
5. Install the flex cable into the PCB. Slide flex cable into PCB and press on the two tabs to lock flex into unit.
6. Follow the steps six through eight about to reassemble unit. Verify that the unit is working properly after installation of replacement parts is finished.
7. Reconnect the microphone to the radio and verify microphone sensitivity and DTMF output.

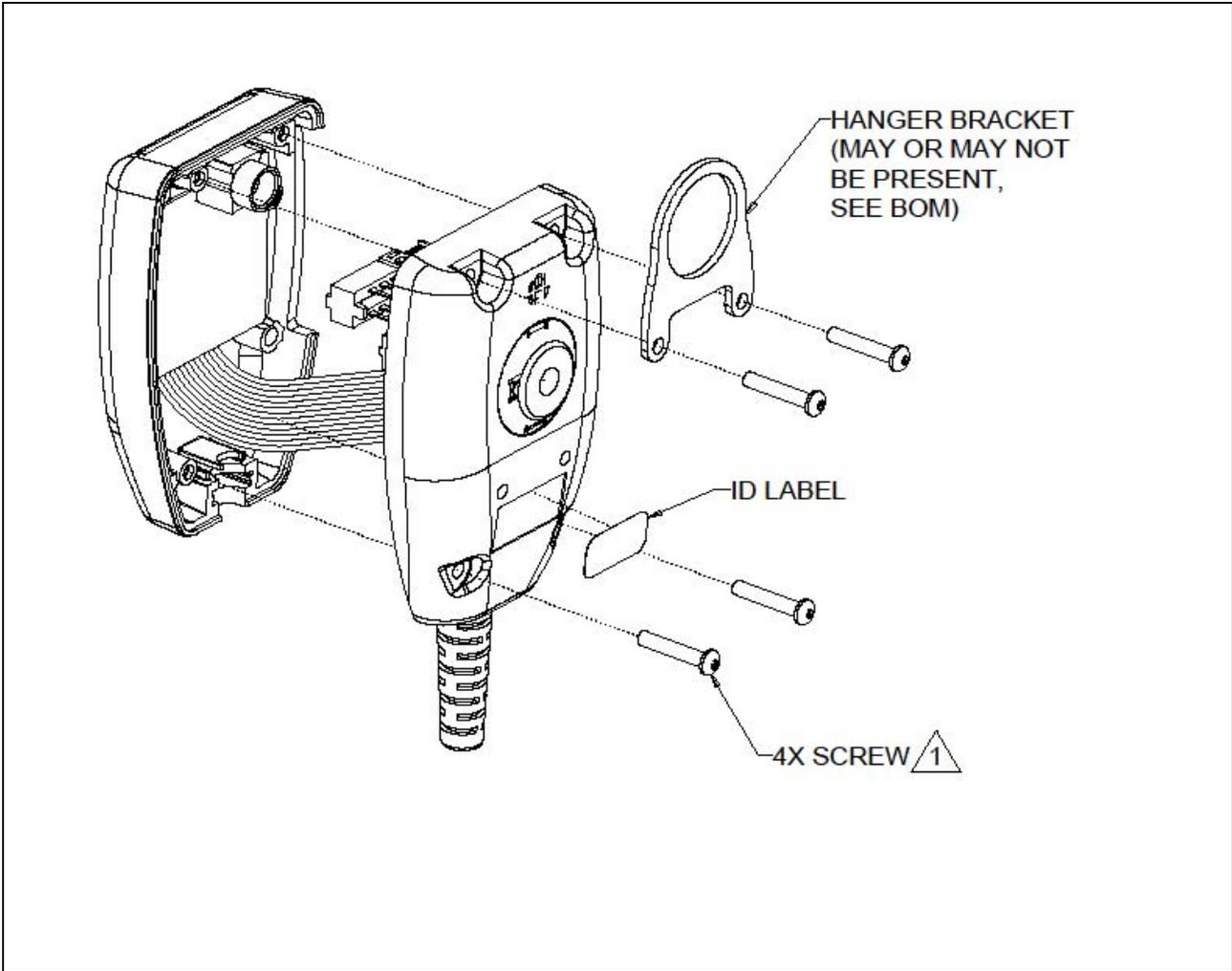


Figure 1

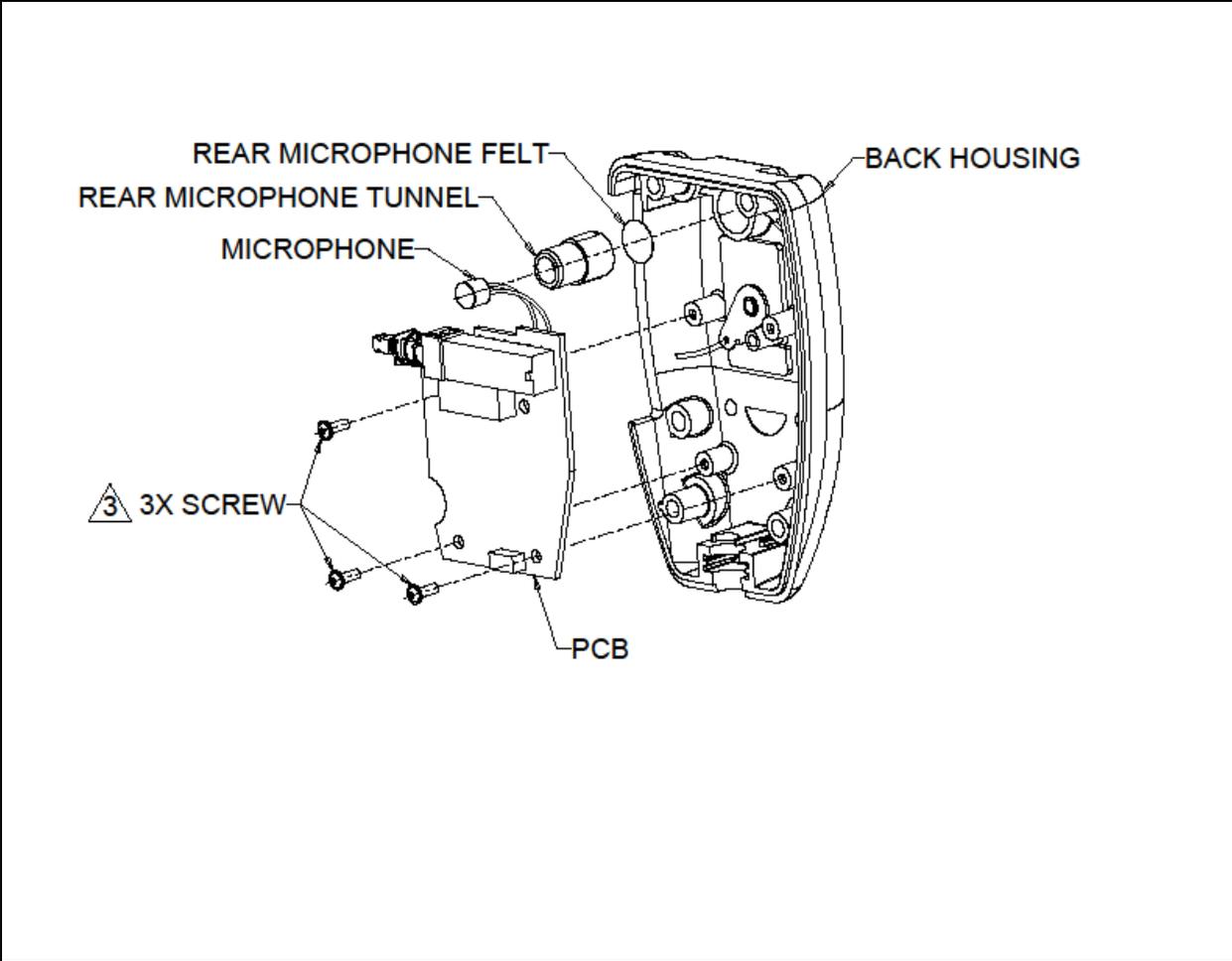


Figure 2

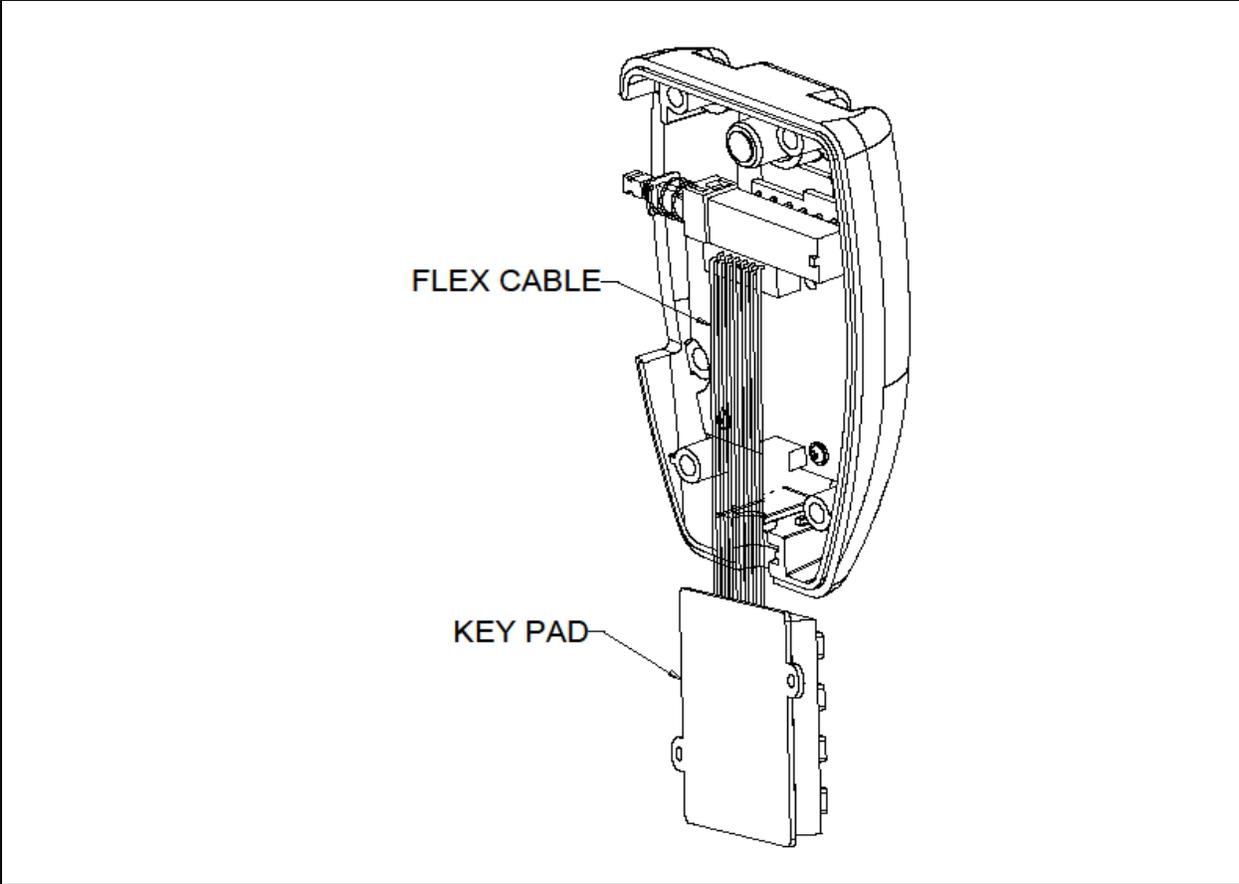


Figure 3

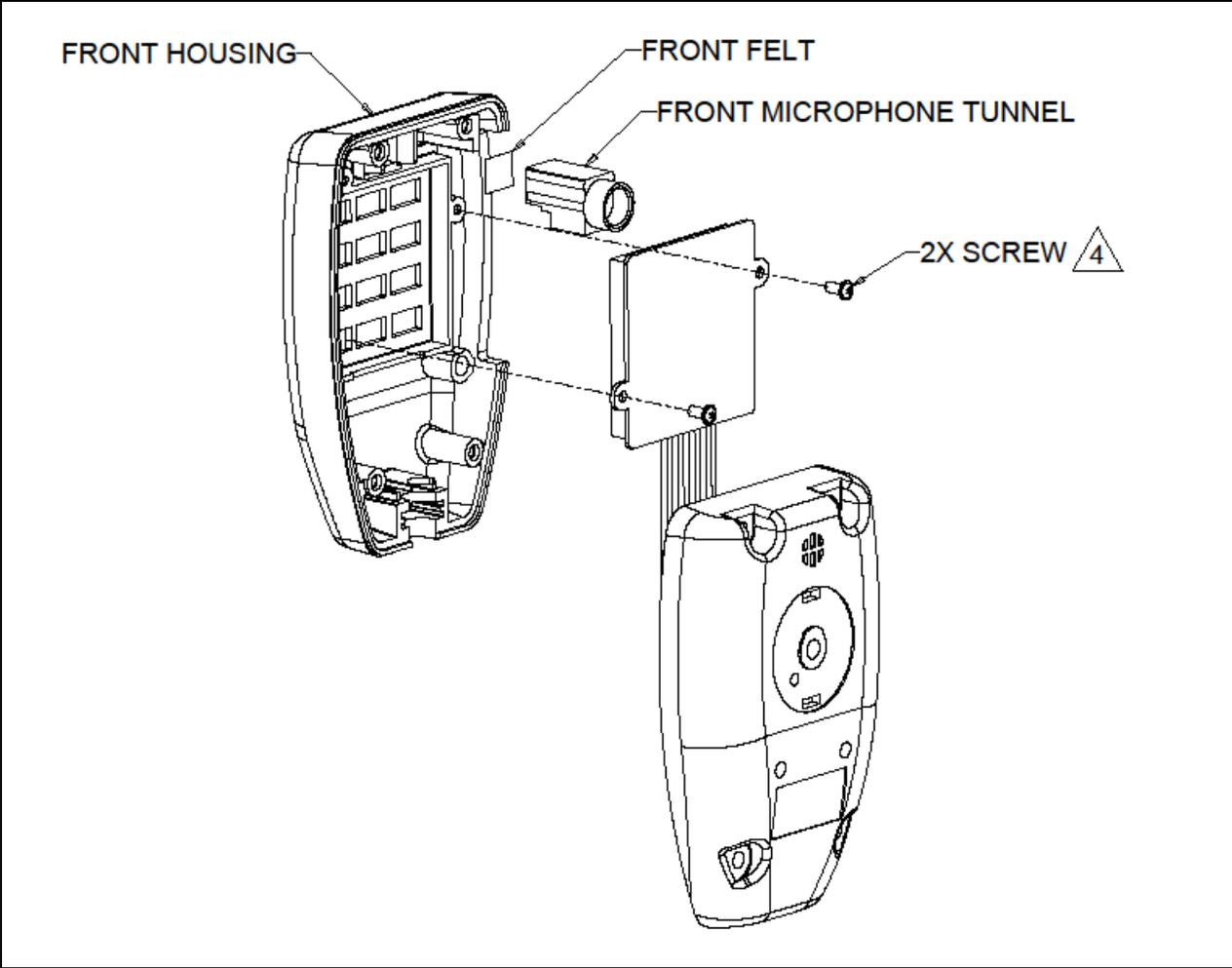


Figure 4

ORDERING INFORMATION:

Replacement parts:

Part #	Description
C101343A	Replacement Keypad
V3-10382	Replacement cord for VM-888DTMF
V3-10383	Replacement cord for VM-889DTMF

For warranty information, customer service, or to order replacement parts, please contact:

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