



EXTERNAL SPEAKER-MICROPHONES

1. DESCRIPTION

These external speaker-microphones contain a hand-held speaker, microphone, and push-to-talk switch. A cable, terminated with a special plug, is provided for attaching to the accessory connector on the side of the MT500 universal series "Handie-Talkie" FM portable radios.

When the external speaker-microphone is attached to the radio, the internal speaker in the radio is disabled, and receiver audio output is connected to the external speaker. Similarly, the external microphone is connected to the transmitter and the external push-to-talk switch will energize the PTT relay in the radio.

With the external speaker-microphone attached to the radio, the internal microphone and push-to-talk switch are still operational, but you must always listen at the external speaker.

A spring clip on the back of the external speaker-microphone can be rotated for convenience when securing it to clothing.

2. OPERATION

- Place the lip of the external speaker-microphone plug (P1) in the slot on top of the radio (above the accessory connector) and pivot the plug into the accessory connector on the radio.
- Tighten the threaded stud on the plug into the threaded hole on the radio.
- While listening to the external speaker, turn the radio on and operate as explained in the operating manual supplied with the radio.

NOTE

NMN6089A is used with the NLN4477A Adapter Cable.

3. MAINTENANCE

Refer to the schematic diagram, the exploded view, and the parts lists. Every part in the speaker-microphone is identified and illustrated for assistance in removal and replacement.

For MT500 Universal Series FM Radios

MODEL NMN6081A, STRAIGHT CORD

MODEL NMN6082A, COILED CORD

MODEL NMN6089A, COILED CORD "QUICK DISCONNECT"

Speaker-Microphone Kits:

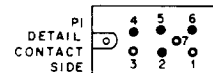
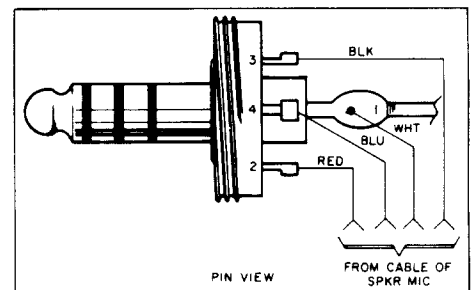
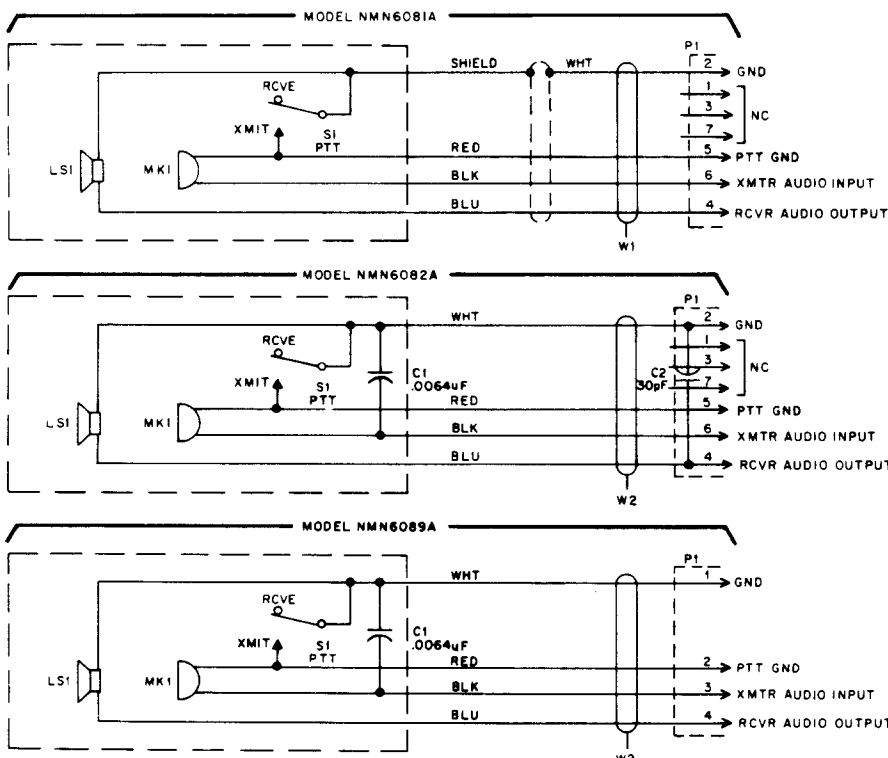
NMN6081A, Straight Cord

NMN6082A, Coiled Cord

NMN6089A, Coiled Cord "Quick Disconnect"

PLF-1238-C

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
C1	2184008H05	<u>CAPACITOR, Fixed:</u> .0064 μ F $\pm$ 10%; 50 V (NMN6082A only)
C2	2182358G95	30 pF $\pm$ 10%; 75 V; N750
LS1	5005334D01	<u>SPEAKER, Dynamic:</u> 39 Ω , 2-inch diameter
MK1	5982575J02	<u>MICROPHONE:</u> Miniature; Res: 700 Ω , Imped: 5000 Ω $\pm$ 30%
P1	2805646F02 or 2805780G02	<u>PLUG:</u> Connector, 7-contact (NMN6081A, NMN6082A) Connector (NMN6089A)
S1	4082159D01	<u>SWITCH:</u> Micro; PTT, SPDT
W1	3084048H02	<u>CORD:</u> Straight, 48"
W2	3084123H02	Coiled



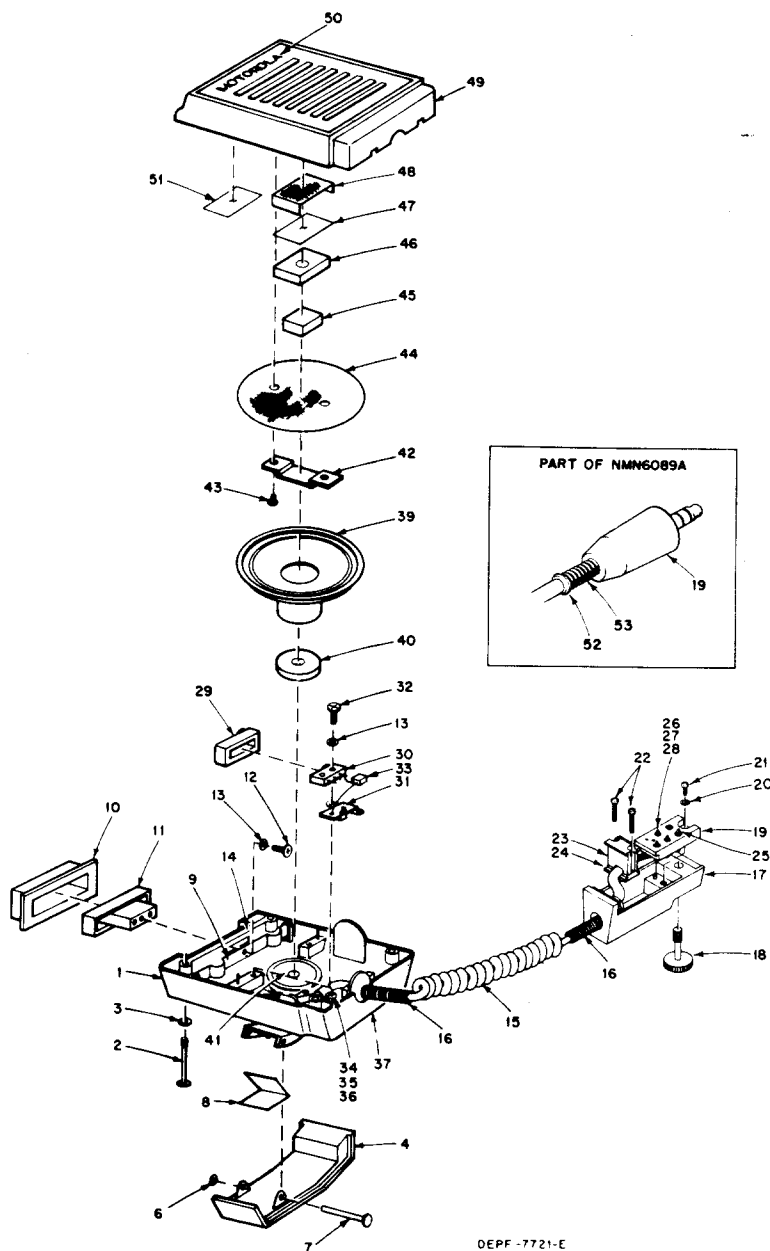
MODELS	SUFFIX
NMN6081A	1
NMN6082A	1
NMN6089A	-

PARTS LOCATION AND IDENTIFICATION

Speaker-Microphone Exploded View
NMN6081A Straight Cord
NMN6082A Coiled Cord

PLF-1239-D

ITEM NO.	DESCRIPTION	MOTOROLA PART NO.
1	HOUSING, Back	0105958B64
2	SCREW, Captive	0382210E03
3	WASHER, Insulator	0482418B09
4	CLIP, Pocket	4284416H05
5	NOTUSED	-----
6	NUT	0210101A85
7	PIN, Clip	2282395B35
8	SPRING, Clip	4105942A01
9	SPRING, Actuator	4184491H01
10	BOOT	3205720B01
11	PUSHBUTTON	3805718B01
12	SCREW, Tapping; 2-56 x 5/16"	0300136914
13	LOCKWASHER, #2	0400008406
14	INSERT, Microphone	4305721B01
15	CORD (W1) or (W2), See Note	-
16	SPRING, Strain Relief (NMN6081A, NMN6082A)	4105466B02
17	HOUSING, Connector (NMN6081A, NMN6082A)	1505710D01
18	SCREW, Thumb (NMN6081A, NMN6082A)	0305822D03
19	PLUG, Connector; (P1) See Note	-
20	LOCKWASHER	0400115361
21	SCREW, Phillips; 2-56 x 1/4"	0300132342
22	SCREW, Phillips; 2-56 x 3/8" (NMN6081A, NMN6082A)	0300139750
23	STRAP, Cable (NMN6081A, NMN6082A)	4205591E01
24	CLAMP, Cable (NMN6081A, NMN6082A)	4205590E01
25	CONTACT, Stud	3905533E01
26	PIN, Contact (NMN6081A, NMN6082A)	3905767D01
27	SPRING, Contact (NMN6081A, NMN6082A)	4105768D01
28	RING, Retaining	4205463E01
29	BOOT	3205719B01
30	SWITCH (S1), See Note	-
31	STRIP, Terminal	3100125063
32	SCREW, Phillips; 2-56 x 5/16"	0300129074
33	CAPACITOR (C1), See Note	-
34	CLAMP, Cable	4284409H01
35	SCREW, Phillips; 4-40 x 1/4"	0300120621
36	LOCKWASHER, #4	0400007683
37	NAMEPLATE	3305150B19
38	NOT USED	-
39	SPEAKER (LS1), See Note	-
40	PAD	7505771 B01
41	INSULATOR	1405922A01
42	BRACKET	0782158J01
43	SCREW, Slotted, 5/32"	0300139205
44	GRILLE, Cloth; felt	3505715B01
45	MICROPHONE (MK1), See Note	-
46	GASKET	3205735B01
47	SCREEN	3505450B01
48	GRILL	1382159J01
49	HOUSING, Front	1505722B03
50	NAMEPLATE	3305159D01
51	INSULATOR	1482392E05
52	SLEEVE, Strain Relief (NMN6089A)	3784379H01
53	SPRING, Strain Relief (NMN6089A)	4105275B01



DEPF-7721-E

NOTE: For part value and description, refer to electrical parts list contained in this manual.

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