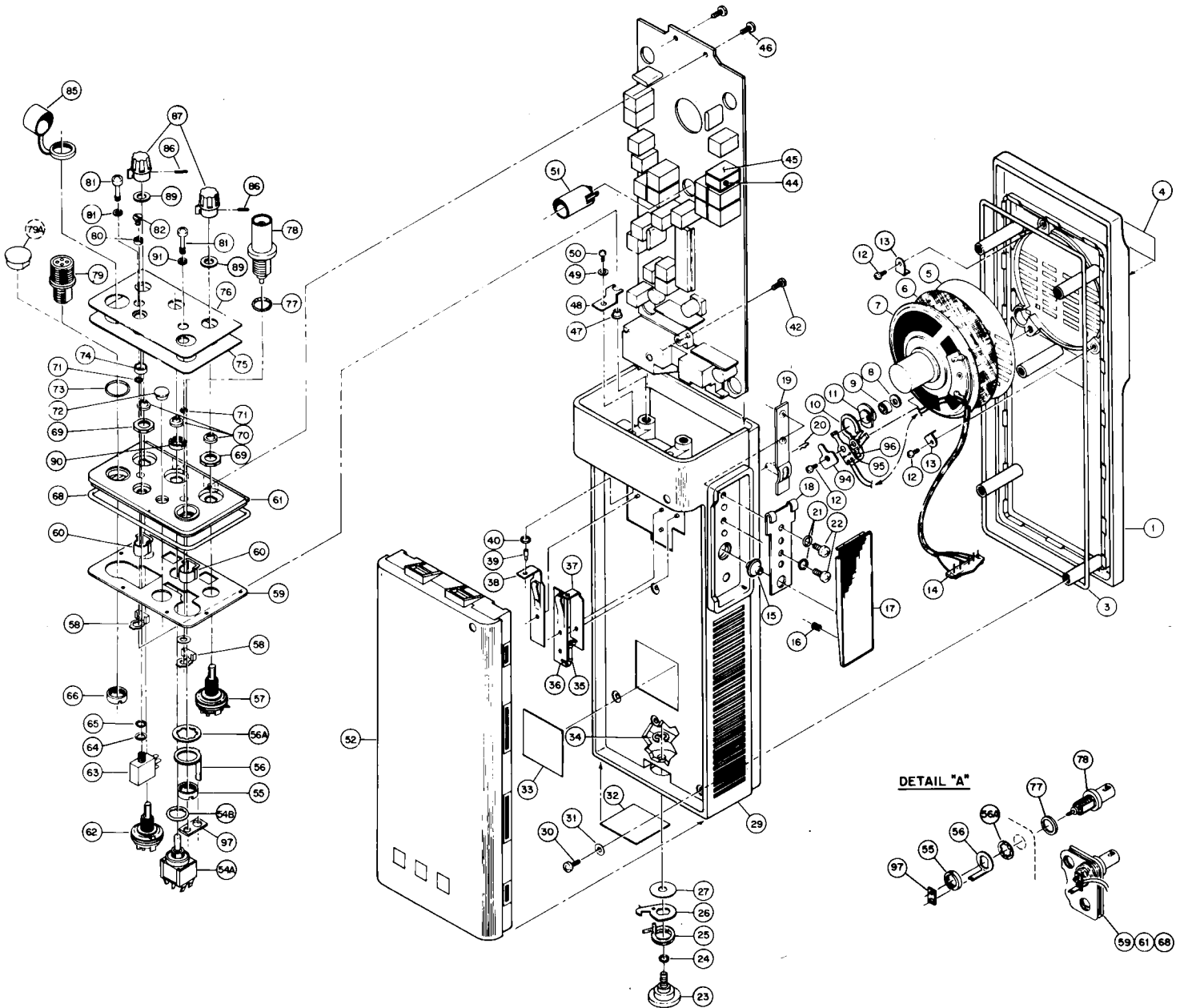


HT90 Series

Parts List



Replacement parts may no longer be available

HT90 Series

Parts List

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	0105950G05	Assembly, Front Cover; Standard	54A	4005120E03	Switch, Frequency; Toggle (S201)
2	----	Not used	54B	3205082E17	Seal, "O" Ring
3	3205472P09	Gasket, Seal	55	0205050E05	Nut, Spanner
4	3305153J01	Label, Nameplate	56	2905658K01	Lug
5	1105932J01	Adhesive, Felt	56A	----	Lockwasher, Internal Tooth (p/o item 78)
6	3505152J01	Felt, Speaker	57	0105956H97	Switch, Volume/On-Off (R202/S204)
7	5005181E02	Speaker, (LS401)	58	3905195J02	Contact
8	7505182J01	Pad, Microphone Boot	59	----	Plate, Retainer
9	----	Microphone (MK401) P/O RPX4654A	60	----	Bushing
10	----	Bracket, Microphone P/O RPX4654A	61	----	Panel, Control
11	----	Boot, Microphone P/O RPX4654A			**Items 59, 60, and 61 are not field
12	0300138651	Screw, Phillips: 2-56 x 5/32"			repairable; order Assembly 0105956H87
13	4205670D01	Clamp, Speaker	62	0105956H99	Switch, PL/Squelch Control
14	----	Connector (P401) P/O RPX4654A	63	0105950G12	Jack, Speaker (J02) (S203-R201)
15	3205332K01	Seal	64	0405662K01	Washer, Insulating
16	4182093A07	Spring, Actuator; coiled	65	3205082E15	Seal, "O" Ring
17	4505177J01	Actuator, Push-to-Talk	66	0205050E07	Nut, Spanner
18	0705175J01	Bracket, Actuator	67	----	Not used
19	4105176J01	Spring, Actuator	68	3205082E38	Seal, "O" Ring
20	2205390M01	Pin, Retainer	69	0205629L02	Nut, Hex
21	3205082E13	Gasket, "O" Ring	70	3205933J02	Seal, Switch
22	0305466C02	Screw, Special; 4-40 x 0.140"	71	3205082E11	Seal, "O" Ring
23	4605170J01	Stud, Latch	72	3805216J02	Plug, Seal
24	3205082E14	Gasket, "O" Ring	73	3205082E12	Seal, "O" Ring
25	4105172J01	Spring, Latch	74	4305206J01	Sleeve
26	5505150L01	Latch, Pawl	75	6405208J01	Plate, Pressure
27	0405171J01	Washer, Teflon	76		Escutcheon, Graphic; for
28	----	Not used		1305181J01	Basic Carrier Squelch Models
29	----	Assembly, Housing; includes items 36, 37, 38, 39 & 40		or	
	0105954G94	Standard		1305181J02	Universal, Carrier Squelch Models
	or			or	
	0105954G95	Silverized		1305181J09	Basic, PL Squelch Models
30	0300120621	Screw, Phillips; 4-40 x 1/4"		or	
31	0484345A06	Washer, Seal		1305181J10	Universal, PL Squelch Models
32	----	Label, FCC Identification, not field replaceable	77	3205082E28	Seal, "O" Ring
33	----	Label, Frequency; not field replaceable	78	0900855268	Connector, Antenna (J203) BNC
34	4210219A25	Retainer, E-Clip	79	RPX4630A	Connector, Universal (J201)
35	6505214E01	Fuse (F501)	79A	3805216J01	Plug, Seal (Basic Models)
36	----	Contact, Strap	80	0205050E01	Nut, Spanner
37	----	Contact, Positive	81	0305662D17	Screw, Captive
38	----	Contact, Negative	82	0310129A24	Screw, Slotted; Nylon
39	----	Bushing, Strap	83	----	Not used
40	----	Gasket, "O" Ring	84	----	Not used
		*Items 36, 37, 38, & 40 are not field replaceable; order applicable Housing Assembly (item 2).	85	3205217J01	Seal, Cap
41	----	Not used	86	0383174C02	Screw, Set
42	0305887J01	Screw, Slotted; 4-40 x 3/16"	87	3605207J03	Knob, Volume and Squelch
44	0105953G48	PTT Switch (S202)	88	----	Not used
45	0705162J01	Bracket, PTT Switch	89	0405171J02	Washer, Nylon; Black
46	0305887J01	Screw, Slotted; 4-40 x 3/16"	90	0282653D07	Nut, Spanner
47	4305936J01	Bushing, Shoulder	91	0400009777	Lockwasher, No. 4
48	3905567L02	Contact	93	----	Not used
49	0400008406	Lockwasher	94	1405135P01	Insulator, Mic.
50	0300138651	Screw, Phillips; 2-56 x 1/8"	97	8405878L02	Circuit Board, Printed (see Detail "A")
51	4305209J01	Sleeve			
52	----	Battery (see page 90)			
53	----	Not used			

Cancelled Product HT90: Aftermarket support criteria has been met for spare parts. Items may no longer be available.

HT90 Series

Portable Accessories

Chargers

Single Unit Chargers

These units are capable of charging a battery in or out of the radio and automatically revert to a trickle charge rate when fully charged. The rapid charge battery must be used in a rapid charger to attain the 1 hour charge rate. Visual indication when the battery is fully charged is provided by the rapid charger.



NLN7493A

NLN7493A Compact Standard Charge 120V AC

NLN7647A Standard Charge, 240V AC

NLN7648A Rapid Charge, 240V AC

Multiple Unit Chargers

These 6 compartment units accommodating either radio or battery alone can be desk, wall, or rack mounted. A switch is provided for either 117V or 234V AC operation. Other features are similar to the single unit chargers.

For systems where cost and space are the overriding concerns, the compact single unit charger with plug-in transformer is the answer. This unit will charge the radio only at the standard 16 hour charge rate.



NLN7966B

NLN7966B Rapid Charge, 120/240V AC

NLN7967A Wall Mounting Kit, for 6 unit charger

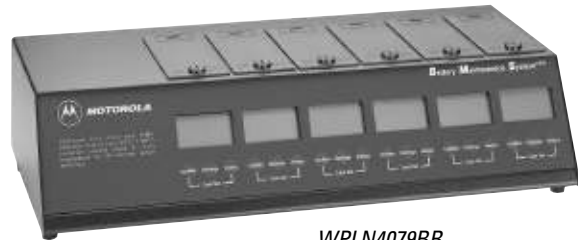


NLN7967A

Battery Maintenance System^{plus} (BMS^{plus})

Using interchangeable battery adapters (sold separately), the BMS^{plus} is capable of charging and discharging, analyzing, conditioning and cycle test on batteries; tracking battery voltage and capacity (mAh).

The BMS^{plus} offers a 3 year warranty. Its easy-to-use design supports hundreds of 2-way, cellular, and camcorder batteries with printer port* (Serial-RS-232C port – uses female 9-pin to male 25-pin cable).



WPLN4079BR

WPLN4079BR Six-Station, 110V AC, 50/60 Hz

WPLN4080BR Six-Station, 230V AC, 50/60 Hz

NDN4005B Three-Station, 110V AC, 50/60 Hz

NDN4006B Three-Station, 230V AC, 50/60 Hz

BMS^{plus} Adapter

TDN9440A Standard Adapter, HT90

Optional Adapters

****TDN9432A** Adapter, Universal Alligator Clip Lead

****TDN9527A** Adapter, Universal Dip Switch

*Compatible with the STAR Micronics SP200 series printers, available from any STAR Micronics distributor, and other printers with STAR emulation.

**Universal adapters available as an option to accommodate all radio types.

HT90 Series

Portable Accessories

Battery Optimizing System II (BOS II)



WPLN4124AR

No other battery analyzer matches the speed, accuracy, and versatility of the Battery Optimizing System II. Ideal for large fleet, public safety, and all other users who rely on their battery performance. Now with increased power, more sophisticated programming options, and easier to use navigation paths, optimizing your batteries was never easier. Key features include:

- Support for NiCd, NiMH, Li-ion, and SLA batteries
- 100 watt power supply and programmable from 100 mA to 4 amps per station
- Interchangeable adapters accommodate all major brands
- Includes a variety of user programs and allows for customizable programming
- Proprietary recondition cycle restores NiCd and NiMH batteries
- Increased processing power and testing resolution – including a three minute Quicktest that measures the batteries State of Health (SoH)
- Printer output for reports and labels
- Three year warranty

WPLN4124AR BOS II, Four-Station, 100-240V AC (US line cord)

WPLN4125AR BOS II, Four-Station, 100-240V AC (UK/Euro line cords)

BOS Adapter

RL-71163 Standard Adapter, HT90

Optional Adapters

RL-70115 Adapter, Universal; services Li-ion

RL-70110 Adapter, Universal; service NiCd and NiMH

Carrying Accessories



NLN7444A

Carrying Cases

Carrying case accessories provide added protection for your radio while enhancing a quality appearance. T-strap not included.

NLN7444A Urethane Case, Standard

NLN7693A Urethane Case, swivel belt loop not included

Carrying Strap

NTN5243A Carrying Strap



NTN5243A



4205297G03

T-Strap

4205297G03 Nylon T-Strap

Belt

4200865599 2" Wide Leather Belt, for all models

Swivel Belt Loop

4282421J06 Leather, 2.5"



4200865599

HT90 Series

Portable Accessories

Audio Accessories



NSN6008A Lapel Speaker



NMN6095A

NMN6095A Speaker/Microphone with Coil Cord



RLN4295A

Epaulet Strap

Black leather epaulet straps secure remote speaker microphones to epaulet of shirts or jackets and attach around cord. Allows reliable communications in hostile environments with clip style strap.

RLN4295A Epaulet Strap, Small Clip



5083693B04

5083693B04 Earpiece with Volume Control

Mobile Microphone

HMN1001B Mobile Microphone



HMN1001B

Audio Accessories

Headsets

All headset accessories include adapter cables and can be plugged directly into radio. No additional equipment is required.

Low to moderate noise level (less than 100 dB) lightweight headset with Electret condenser microphone and single speaker. *NOTE:* Cannot be worn with headgear.

BDN6247A In-line push-to-talk switch

BDN6248A Pendant-thumb push-to-talk switch



BDN6247A

High noise level headset (up to 115 dB) with military noise-cancelling microphone and dual speaker. *NOTE:* Can be used with or without hard hat or fire helmet.

BDN6261A Body/foot switch that can be belt mounted

Listen Only Headphones

For all portables and pagers provided with earphone jack. Headphones are equipped with a 40 inch cable terminated with micro plug.

BDN6268A Lightweight headphone with single speaker

BDN6269A Noise-attenuating headphone with dual speakers

BDN6270A Noise attenuating headphone with dual speaker for use with or without hard hat or fire helmet



BDN6270A

HT90 Series

Portable Accessories

Audio Accessories

Heavyduty Headsets

Heavyduty headsets include Noise-Cancelling Microphones and can be worn with or without a hardhat. Headsets are for use in noise levels up to 125 dB. The Push-To-Talk switch is located on the earcup. The Vox module is contained within the headset on voice activated units. Heavy-duty headsets require radio adapter cable.



BDN6645A

BDN6645A Push-To-Talk Headset with Boom Microphone, Requires Adapter Cable



BDN6635B

BDN6635B Voice-activated Headset with Boom Microphone, Requires Adapter Cable

Audio Accessories



BDN6636B

BDN6636B Voice-activated Headset with Throat Microphone, Requires Adapter Cable

BDN6637A Radio Adapter Cable

Helmet Kits

The following DO NOT include headgear.
NOTE: All helmet and face mask kits require a radio cable assembly (order separately).

Industrial/Police helmet kits for Bullard (Industrial) headgear with military noise-cancelling microphone.

BDN6275A Single Speaker



BDN6275A

Helmet kit for Seer 1601, 1602 1/2 Shell (Police) headgear with military noise-cancelling microphone.

BDN6277A Single Speaker

HT90 Series



Portable Accessories, Antennas

Audio Accessories

Cable Assemblies

NOTE: All helmet kits require one of the following cable assemblies:

BDN6288A Cable assembly for Industrial Radio helmet kit with pendant-thumb push-to-talk switch



BDN6288A

BDN6292A Cable assembly for Police Radio helmet kit with handlebar push-to-talk switch for belt mounted control box (only applies to BDN6291A)

Ear Mics

Single unit microphone and speaker worn in the ear. Eliminates the need for handheld microphones or conventional headsets. Compact, rugged design allows use under hearing protectors and protective clothing. Order cable separately.



RMN4001B

RMN4001B Ear Mic, EM200

0180359A51 Optional PTT Ring Switch for RMN4001A only



0180359A51

0180356B97 Optional PTT Ring Switch for RMN4001B only

Portable Antennas

Heliflex

Each antenna is color coded on the connector indicating frequency.

8505183K06 136-142 MHz Dip Coated, Red

8505183K07 142-150 MHz Dip Coated, Yellow

8505183K04 150-162 MHz Dip Coated, Black

8505183K05 162-174 MHz Dip Coated, White

8505183K01 440-470 MHz Dip Coated, Black

8505309N07 470-512 MHz Dip Coated, White

8505309N01 136-150 MHz Injection Molded, Red

8505309N02 142-150 MHz Injection Molded, Yellow

8505309N03 150-156 MHz Injection Molded, Black

8505309N08 156-162 MHz Injection Molded, Orange

8505309N04 162-174 MHz Injection Molded, White

8505309N05 403-440 MHz Injection Molded, Yellow

8505309N06 440-470 MHz Injection Molded, Black

8505309N07 470-512 MHz Injection Molded, White

8505183K06

8505183K04

8505183K01

8505309N01

8505309N05

8505182K01

Flexible Whip-PVC Dip Coated

8505182K01 403-512 MHz

Flexible Whip-Molded

NAE6340B 403-512 MHz

HT90 Series

Batteries,
Service Tools &
Aids, Manuals

Portable Batteries

Nickel-Cadmium Premium

Part Number: **NLN7434A**
Volts: 12.5
Avg. mAh: 630
Height: 6-3/16"
Intrinsically Safe: Yes

Part Number: **NLN7435A**
Volts: 12.5
Avg. mAh: 630
Height: 6-3/16"
Intrinsically Safe: Yes



NLN7435A

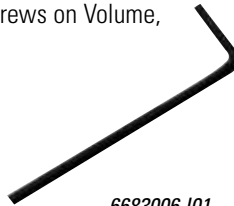
Service Tools

6605607E01 Tuning Tool, Tunable Coils and Trimmer Caps



6605607E01

6683006J01 Spline Wrench (0.06"), Fits Screws on Volume, Frequency, and Squelch Knobs



6683006J01

Service Aids

Radio Test Cables

Used with RTX4005, Portable Radio Test Set, for transmitter, receiver alignment and performance checks.

RTK4038B Test Cable, Testing Done with Radio Front Cover Off

Manuals

136-174 MHz

6881022C75 Models H23/H33HMB/HMU 2W, 5W Service Manual

406-512 MHz

6881022C80 Models H24/H34HMB/HMU 1W, 4W Service Manual