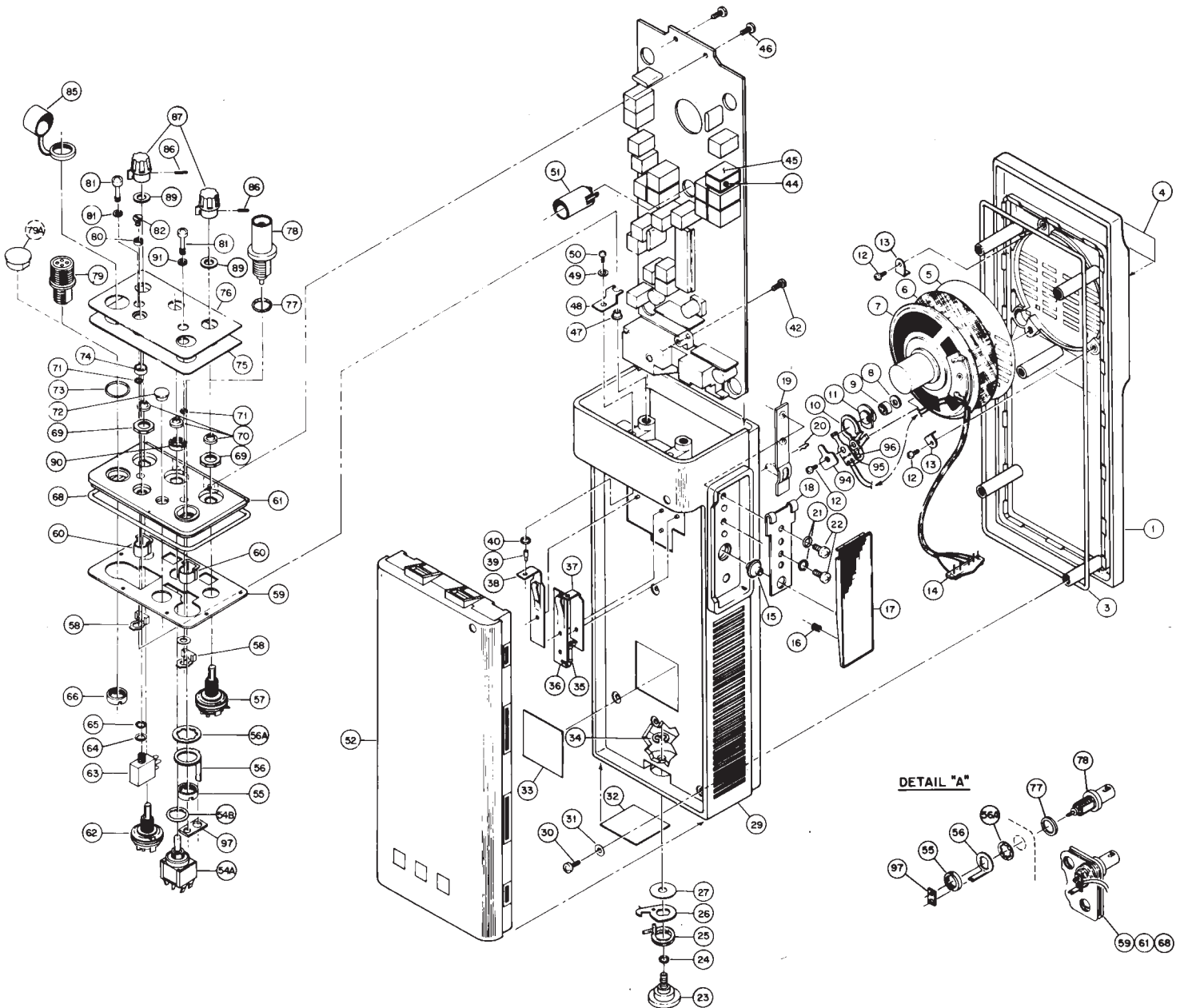


HT90 Series

Parts List



Replacement parts may no longer be available

HT90 Series

Parts List

| REF. NO. | PART NO. | DESCRIPTION |
|----------|-------------------|--|
| 1 | 0105950G05 | Assembly, Front Cover; Standard |
| 2 | ---- | Not used |
| 3 | 3205472P09 | Gasket, Seal |
| 4 | 3305153J01 | Label, Nameplate |
| 5 | 1105932J01 | Adhesive, Felt |
| 6 | 3505152J01 | Felt, Speaker |
| 7 | 5005181E02 | Speaker, (LS401) |
| 8 | 7505182J01 | Pad, Microphone Boot |
| 9 | ---- | Microphone (MK401) P/O RPX4654A |
| 10 | ---- | Bracket, Microphone P/O RPX4654A |
| 11 | ---- | Boot, Microphone P/O RPX4654A |
| 12 | 0300138651 | Screw, Phillips: 2-56 x 5/32" |
| 13 | 4205670D01 | Clamp, Speaker |
| 14 | ---- | Connector (P401) P/O RPX4654A |
| 15 | 3205332K01 | Seal |
| 16 | 4182093A07 | Spring, Actuator; coiled |
| 17 | 4505177J01 | Actuator, Push-to-Talk |
| 18 | 0705175J01 | Bracket, Actuator |
| 19 | 4105176J01 | Spring, Actuator |
| 20 | 2205390M01 | Pin, Retainer |
| 21 | 3205082E13 | Gasket, "O" Ring |
| 22 | 0305466C02 | Screw, Special; 4-40 x 0.140" |
| 23 | 4605170J01 | Stud, Latch |
| 24 | 3205082E14 | Gasket, "O" Ring |
| 25 | 4105172J01 | Spring, Latch |
| 26 | 5505150L01 | Latch, Pawl |
| 27 | 0405171J01 | Washer, Teflon |
| 28 | ---- | Not used |
| 29 | ---- | Assembly, Housing; includes items 36, 37, 38, 39 & 40 |
| | 0105954G94 | Standard |
| | or | |
| | 0105954G95 | Silverized |
| 30 | 0300120621 | Screw, Phillips; 4-40 x 1/4" |
| 31 | 0484345A06 | Washer, Seal |
| 32 | ---- | Label, FCC Identification, not field replaceable |
| 33 | ---- | Label, Frequency; not field replaceable |
| 34 | 4210219A25 | Retainer, E-Clip |
| 35 | 6505214E01 | Fuse (F501) |
| 36 | ---- | Contact, Strap |
| 37 | ---- | Contact, Positive |
| 38 | ---- | Contact, Negative |
| 39 | ---- | Bushing, Strap |
| 40 | ---- | Gasket, "O" Ring |
| | | *Items 36, 37, 38, & 40 are not field replaceable; order applicable Housing Assembly (item 2). |
| 41 | ---- | Not used |
| 42 | 0305887J01 | Screw, Slotted; 4-40 x 3/16" |
| 44 | 0105953G48 | PTT Switch (S202) |
| 45 | 0705162J01 | Bracket, PTT Switch |
| 46 | 0305887J01 | Screw, Slotted; 4-40 x 3/16" |
| 47 | 4305936J01 | Bushing, Shoulder |
| 48 | 3905567L02 | Contact |
| 49 | 0400008406 | Lockwasher |
| 50 | 0300138651 | Screw, Phillips; 2-56 x 1/8" |
| 51 | 4305209J01 | Sleeve |
| 52 | ---- | Battery (see page 90) |
| 53 | ---- | Not used |

| REF. NO. | PART NO. | DESCRIPTION |
|----------|-------------------|--|
| 54A | 4005120E03 | Switch, Frequency; Toggle (S201) |
| 54B | 3205082E17 | Seal, "O" Ring |
| 55 | 0205050E05 | Nut, Spanner |
| 56 | 2905658K01 | Lug |
| 56A | ---- | Lockwasher, Internal Tooth (p/o item 78) |
| 57 | 0105956H97 | Switch, Volume/On-Off (R202/S204) |
| 58 | 3905195J02 | Contact |
| 59 | ---- | Plate, Retainer |
| 60 | ---- | Bushing |
| 61 | ---- | Panel, Control |
| | | **Items 59, 60, and 61 are not field repairable; order Assembly 0105956H87 |
| 62 | 0105956H99 | Switch, PL/Squelch Control |
| 63 | 0105950G12 | Jack, Speaker (J02) (S203-R201) |
| 64 | 0405662K01 | Washer, Insulating |
| 65 | 3205082E15 | Seal, "O" Ring |
| 66 | 0205050E07 | Nut, Spanner |
| 67 | ---- | Not used |
| 68 | 3205082E38 | Seal, "O" Ring |
| 69 | 0205629L02 | Nut, Hex |
| 70 | 3205933J02 | Seal, Switch |
| 71 | 3205082E11 | Seal, "O" Ring |
| 72 | 3805216J02 | Plug, Seal |
| 73 | 3205082E12 | Seal, "O" Ring |
| 74 | 4305206J01 | Sleeve |
| 75 | 6405208J01 | Plate, Pressure |
| 76 | | Escutcheon, Graphic; for Basic Carrier Squelch Models |
| | 1305181J01 | or |
| | 1305181J02 | Universal, Carrier Squelch Models |
| | or | |
| | 1305181J09 | Basic, PL Squelch Models |
| | or | |
| | 1305181J10 | Universal, PL Squelch Models |
| 77 | 3205082E28 | Seal, "O" Ring |
| 78 | 0900855268 | Connector, Antenna (J203) BNC |
| 79 | RPX4630A | Connector, Universal (J201) |
| 79A | 3805216J01 | Plug, Seal (Basic Models) |
| 80 | 0205050E01 | Nut, Spanner |
| 81 | 0305662D17 | Screw, Captive |
| 82 | 0310129A24 | Screw, Slotted; Nylon |
| 83 | ---- | Not used |
| 84 | ---- | Not used |
| 85 | 3205217J01 | Seal, Cap |
| 86 | 0383174C02 | Screw, Set |
| 87 | 3605207J03 | Knob, Volume and Squelch |
| 88 | ---- | Not used |
| 89 | 0405171J02 | Washer, Nylon; Black |
| 90 | 0282653D07 | Nut, Spanner |
| 91 | 0400009777 | Lockwasher, No. 4 |
| 93 | ---- | Not used |
| 94 | 1405135P01 | Insulator, Mic. |
| 97 | 8405878L02 | Circuit Board, Printed (see Detail "A") |

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 Rapid Charge, 120/240V AC

NLN7967A Wall Mounting Kit, for 6 unit charger



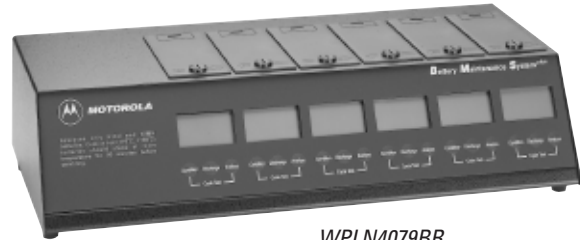
NLN7966B



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

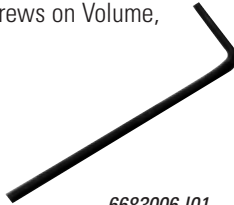
Service Tools

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

Over 7 million customers have made MyRadioMall.com America's #1 choice when it comes to dependable and reliable Motorola Communications at fantastic prices.

We are now celebrating our 12th year of online service and the best is yet to come.



Advanced Radio Systems, Inc
8726 NW 26 Street #6
Miami, Florida 33172
Voice Numbers: 305-884-1795
Toll Free: 1-866-900-Mall (6255)
Fax Number: 305-884-1985

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