

Replacement parts may no longer be available



HT90 Series

Parts List

REF.	
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PART NO. DES 0105950G05 Asse Not ____ 3205472P09 3305153J01 Label, Nameplate 1105932J01 Adhesive, Felt Felt, Speaker 3505152J01 5005181E02 Speaker, (LS401) 7505182J01 Pad, Microphone Boot Microphone (MK401) P/O RPX4654A Bracket, Microphone P/O RPX4654A ----

0300138651

4205670D01

3205332K01

4182093A07

4505177J01

0705175J01

4105176J01

2205390M01

3205082E13

0305466C02

4605170J01

3205082E14

4105172J01

5505150L01

0405171J01

0105954G94

or 0105954G95

0300120621

0484345A06

4210219A25

6505214E01

0305887J01

0105953G48

0705162J01

0305887J01

4305936J01

3905567L02

0400008406

0300138651

4305209J01

DESCRIPTION
Assembly, Front Cover; Standard Not used Gasket, Seal

Boot, Microphone P/O RPX4654A

Connector (P401) P/O RPX4654A

Screw, Phillips: 2-56 x 5/32"

Spring, Actuator; coiled

Screw, Special; 4-40 x 0.140"

Assembly, Housing; includes items

Label, FCC Identification, not field replaceable

Label, Frequency; not field replaceable

*Items 36, 37, 38, & 40 are not field replaceable; order applicable Housing

Actuator, Push-to-Talk

Bracket, Actuator

Spring, Actuator

Gasket, "O" Ring

Gasket, "O" Ring

Pin, Retainer

Stud, Latch

Spring, Latch

Washer, Teflon

36, 37, 38, 39 & 40

Screw, Phillips; 4-40 x 1/4"

Latch, Pawl

Not used

Standard

Silverized

Washer, Seal

Retainer, E-Clip

Contact, Strap

Bushing, Strap

Not used

Contact

Sleeve

Not used

Lockwasher

Gasket, "O" Ring

Assembly (item 2).

PTT Switch (S202)

Bushing, Shoulder

Bracket, PTT Switch

Screw, Slotted; 4-40 x 3/16"

Screw, Slotted; 4-40 x 3/16"

Screw, Phillips; 2-56 x 1/8"

Battery (see page 90)

Contact, Positive

Contact, Negative

Fuse (F501)

Clamp, Speaker

Seal

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 Bushing 61 Panel, Control **Items 59, 60, and 61 are not field repairable; order Assembly 0105956H87	
54B 3205082E17 Seal, "0" 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	
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, "0" Ring 66 0205050E07 Nut, Spanner 67 Not used 68 3205082E38 Seal, "0" 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 1305181J01 Basic Carrier Squelch Models	
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") </td <td></td>	

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



http://www.motorola.com/businessonline





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



NLN7493A

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 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

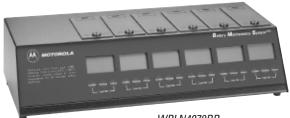


NLN7967A

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)

No other battery analyzer matches the speed,

accuracy, and versatility of

the Battery Optimizing

System II. Ideal for large

fleet, public safety, and all

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:

other users who rely on their



WPLN4124AR

- Support for NiCd, NiMH, Li-ion, and SLA batteries
- 100 watt power supply and programmable from 100 mAH to 4 amps per station
- Interchangeable adapters accomodate 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



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



NTN5243A



Carrying Strap

NTN5243A Carrying Strap

T-Strap 4205297G03 Nylon T-Strap

Belt

4200865599 2" Wide Leather Belt, for all models











Portable Accessories

Audio Accessories



NSN6008A Lapel Speaker



NMN6095A Speaker/Microphone with Coil Cord



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





5083693B04 Earpiece with Volume Control

Mobile Microphone

98 8/03

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

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



BDN6247A





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

BDN6645A

BDN6635B Voice-activated

Headset with Boom

Adapter Cable

Microphone, Requires



BDN6635B

Audio Accessories



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

BDN6636B

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





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 Ear Mic, EM200

0180359A51 Optional PTT Ring Switch for RMN4001A only

0180356B97 Optional PTT Ring Switch for RMN4001B only

0180359A51

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

Flexible Whip-PVC Dip Coated

8505182K01 403-512 MHz

Flexible Whip-Molded

NAE6340B 403-512 MHz





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

6683006J01

Service Tools

6605607E01 Tuning Tool, Tunable Coils and Trimmer Caps

6605607E01 6683006J01 Spline Wrench (0.06"), Fits Screws on Volume, Frequency, and Squelch Knobs

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

