



MOTOROLA

RADIUS P1225

Parts List



**MOTOROLA****RADIUS P1225****Parts List**

REF. NO.	PART NO.	DESCRIPTION
1	0705470V01	Retainer, speaker
2	0780665E01	Boot, microphone
3	0780693E01	Connector, support, microphone
4	1380668E03	Escutcheon, 2-channel
5	1380668E04	Escutcheon, 16-channel
6	1380670E01	Escutcheon, nameplate
7	---	Option Board Kit
8	2780675E03	Chassis
9	3280466U01	Seal, control top
10	3280677E01	Seal, "O" ring
11	3280678E01	Gasket, battery interface
12	---	Label, FCC
13	3580413U01	Felt, speaker
14	3680461U01	Knob, volume
15	3680584B01	Knob, freq., 2-channel
16	3680584B05	Knob, freq., 16-channel
17	3880679E01	Dust Cap
18	3980458U01	Contact, RF ground

REF. NO.	PART NO.	DESCRIPTION
19	3980682E01	Contact, microphone
20	4280456U01	Clip, chassis; 2 used
21	4280490U01	Retainer, keypad
22	4580683E01	Lever, PTT
23	5005589U05	Speaker
24	5080455U01	Microphone
25	5580462U01	Latch, battery
27	7580686E01	Keypad
28	0780552U01	Plate, jack support
29	4105944K01	Spring, battery latch; 2 used
30	---	Board, UHF
31	---	Board, VHF
33	---	Antenna, standard
34	3502018X01	Disk, speaker
35	3880469U01	Button, PTT
36	1580671E05	Housing, basic
39	6180464U01	Light Pipe



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RADIUS P1225-LS

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REF. NO.	PART NO.	DESCRIPTION
1	0708547V01	Retainer, speaker
2	0780665E01	Boot, microphone
3	0780693E01	Connector, support, microphone
5	1380668E05	Escutcheon, control top
6	1380670E02	Escutcheon, nameplate
7	0180537U01	Board, DTMF board
8	2780675E03	Chassis
9	3280466U01	Seal, control top
10	3280677E01	Seal, O-ring
11	3280678E01	Gasket, battery interface
12	3380184R01	Label, FCC
13	3580413U01	Felt, speaker
14	3680461U01	Knob, volume
16	3680529V01	Knob, freq.
17	3880484V01	Dust Cap
18	3980458U01	Contact, rf ground
19	3980682E01	Contact, microphone
20	4280456U01	Clip, chassis; 2 used
22	4580683E01	Lever, PTT
23	5080468U02	Speaker
24	5080455U01	Microphone
25	5580462U01	Latch, battery

REF. NO.	PART NO.	DESCRIPTION
26	HNN9049	Battery Pack, NiCad
27	7580498V01	Keypad
28	0780485V01	Plate, jack support
29	4105944K01	Spring, battery latch; 2 used
30	---	Board, UHF
33	---	Antenna, standard
34	3502018X01	DISK, speaker
35	3880469U01	Button, PTT
38	0180420V03	Housing/Lens Assy.
39	6180464U01	Light Pipe
40	4280664U01	Spport, DTMF
42	3080512U04	Cable, flex
43	1480616U02	Pad, thermal, heatsink
44	0180433V01	Board, display
45	0380652V01	Screw, 2.2 x 6mm
46	7580506C02	Pad, speaker
47	7580581V01	Pad, xtal
48	3080512U02	Cable, flex

NON-REFERENCED ITEMS

3980671U01 Pad, conductor



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RADIUS P1225 Series Portable Accessories

CARRYING ACCESSORIES

Carrying Cases

A variety of carrying accessories are available for your comfort and convenience. The carrying cases are available in sizes designed to fit your radio & battery and permit audio to be heard clearly.

Soft Carrying Cases

HLN9416A P1225 Nylon Carry Case with Belt Loop

HLN9417A P1225 Leather Carry Case with Belt Loop and "D" Rings

HLN9323A P1225 Leather Carry Case with Swivel

HLN9238A P1225 DTMF/Display and P1225-LS Leather Carry Case with Swivel

HLN9239A P1225 DTMF/Display and P1225-LS Leather Carry Case with Belt Loop



HLN9149AR

Belt Loop Adapter

HLN9149AR Belt Loop Adapter, Swivel (use with HLN9416A, HLN9417A, and HLN9239A carry cases)

Replacement Belt Loops, Strap

425857B01 Replacement Belt Loop, Swivel, 2", for carry cases above

HLN9035A Replacement Belt Loop, Swivel, 2½", for carry cases above

HLN9015A Replacement Strap for Leather Carry Cases, for carry cases above

CARRYING ACCESSORIES

Hard Leather Cases

RLN4804A P1225-LS Hard Leather Carry Case with Swivel Belt Loop

RLN4805A P1225-LS Hard Leather Carry Case with Belt Loop

HLN9974B Replacement T-Strap for above cases

NTN8093B Replacement Belt Loop for above cases

Belt Clips

HLN9724A Belt Clip 2½"

HLN8255B Spring Action 3" Belt Clip

Chest Packs

HLN8414A Chest Pack Carry Holder

HLN6602A Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch

1505596Z02 Replacement Strap for HLN6602A



HLN6602A

Epaulet Strap



RLN4295A

Black leather epaulet strap secures remote speaker microphone to epaulet straps on shirt or jacket and accommodates back clip in leather cut-outs. Snap closure secures remote speaker microphone cord to allow reliable communications in hostile environments.

RLN4295A Epaulet Strap, Small Clip



MOTOROLA

RADIUS P1225 Series Portable Accessories

CARRYING ACCESSORIES

RadioPAK™

It's different from all other holders or cases: more comfortable, more useful, and more stylish. Worn around the waist, it holds two-way, iDEN portables or cellular phones right at hand. Includes a separate 6"x8" zippered pouch for other on-the-job necessities. Adjustable nylon weave belt; fits both men and women.

RLN4815A RadioPAK™ radio/utility case

4280384F89 Universal RadioPAK™ belt lengthener; fits waists larger than 40"

Waterproof Bag

HLN9985A Waterproof Bag with Wrist Strap

Straps

NTN5243A Shoulder Carrying Strap, Adjustable

HLN8052A Wrist Strap



NTN5243A

Portable Radio Hanger

The portable radio hanger slides over and hangs from the door panel in a vehicle. The radio's belt clip slides onto the portable hanger allowing convenient, easy mounting. Two sizes are available to fit door panels. Belt clip required to use radio hanger.



TDN9327A

TDN9327A Portable Radio Hanger for Door Panels up to 2¾"

TDN9373A Portable-Radio Hanger for Door Panels 2¾" to 3¼"

CHARGERS

Choose from standard or rapid charge rates and single or multiple unit chargers. Also available in 110V, 220V or 240V.

Single Unit Standard

HTN9702A Single Unit, Standard Rate Charge, 120V

HTN9804A Single Unit, Standard Rate Charge, 220V (European Plug)

HTN9805A Single Unit, Standard Rate Charge, 240V (U.K. Plug)



HTN9702A

Rapid

HTN9042A Single Unit, Intellicharge Rapid Charger 110 Volts



HTN9042A

HTN9043A Single Unit, Intellicharge Rapid Charger, European Plug, 220 Volts

HTN9044A Single Unit, Intellicharge Rapid Charger, United Kingdom Plug, 240 Volts



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RADIUS P1225 Series Portable Accessories

CHARGERS

Multiple Unit

HTN9164B Multi-Unit, 90 Minute Charge, 110V

HTN9165A Multi-Unit, 90 Minute Charge, 220V

HTN9748C Multi-Unit, One Hour Rapid Rate Charge, 120V

HTN9811C Multi-Unit, One Hour Rapid Rate Charge, 220V (European Plug)

HTN9812C Multi-Unit, One Hour Rapid Rate Charge, 240V (U.K. Plug)



HTN9748C

Multi-Unit Charger Conversion Kits

HLN9405A Multi-Unit Charger Conversion Kit, 120V (for use with HTN9167 and HTN9630)

HLN9406A Multi-Unit Charger Conversion Kit, 220V (for use with HTN9168 and HTN9802)

HLN9407A Multi-Unit Charger Conversion Kit, 120V (for use with HTN9803)

Charger Adapter/ Bracket

HLN9719A Vehicular Charger Adapter/ Bracket, Rapid Rate Charge, 12 volt (for use with HTN9042, HTN9630, HTN9802, HTN9803)



HLN9719A

Wall Mount

HLN9944A Wall Mount Bracket, Use with One Hour Multi-Unit Chargers (HTN9748, HTN9811 and HTN9812)

HLN9293A Wall Mount Bracket, Use with 90 Minute Multi-Unit Chargers (HTN9164, HTN9165)

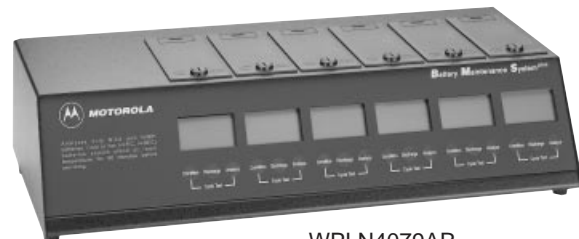
BATTERY MAINTENANCE SYSTEM^{PLUS} (BMS Plus)

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).

WPLN4079AR Six Station, 110V AC, 50/60 Hz

WPLN4080AR Six Station, 230V AC, 50/60 Hz



WPLN4079AR

Adapter

CDN6353A Adapter, 7.5V, 1100 mAh

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



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RADIUS P1225 Series Accessories, Antennas

BATTERY OPTIMIZING SYSTEM (BOS)

The Battery Optimizing System accommodates NiCD, NiMH, Li-Ion, and SLA. Four independent stations for simultaneous service of 4 batteries. Reads battery capacity in percentage of nominal rating; verifies voltage; measures battery temperature and displays battery impedance in milliohms. (Adapter sold separately).



WPLN4071AR

WPLN4071AR 4 Station, 110V AC, 50/60 Hz

WPLN4073AR 4 Station, 230V AC, 50/60 Hz

Adapters

RL-75830 Standard Adapter, P1225

MOTOROLA CONDITIONING CHARGER (MCC)

The MCC will help extend battery life and enhance battery operation. It will safely condition and charge your specified Nickel Cadmium (NiCD) and Nickel Metal Hydride (NiMH) batteries in approximately an hour.

WPLN4084AR MCC Kit, 110V AC; includes both base unit and 7V adapter

WPLN4085AR MCC Kit, 220V AC; includes both base unit and 7V adapter

WPPN4002AR 110V AC Base Charge Unit only

WPPN4006AR 220V AC Base Charge Unit only

WPPN4020AR 7 Volt Adapter plate only

3080384G15 Cigarette Lighter Adapter Cord

MCC Multi-Unit Conditioning Charger

WPPN4065AR Four-station Base, 110V. (Order adapter plates separately)

PORTABLE ANTENNAS

Heliflex Antenna

Motorola Heliflex antennas are specifically engineered for maximum output and greatest communication coverage.

HAD9338AR

Heliflex, 136-162MHz, 6"

NAD6502AR

Heliflex, 146-174MHz, 6"

8505816K07

Heliflex, 400-440MHz, 3"

8505816K08

Heliflex, 438-470MHz, 3"

8505816K09

Heliflex, 470-520MHz, 3"



NAD6502AR

8505816K07

Tunable VHF antenna

Tunable VHF antenna kit gives the best coverage.

HAD9728B

VHF Kit, 146-174MHz, 6"

Stubby Antenna

This stubby quarterwave antenna is ideal when radio is worn on the belt because the short antenna is non-obtrusive.

HAD9742A

Stubby, 146-162MHz, 3"

HAD9743A

Stubby, 162-174MHz, 3"

Flexible Whip Antenna

Flexible Whip antennas have a one-piece finish and steel core for optimal radiation characteristics. Provides more comfort when radio is worn on the belt.

NAE6483AR

Flexible Whip, 450-470MHz, 6"



NAE6483AR



MOTOROLA

RADIUS P1225 Series

Batteries, Accessories

BATTERIES

Nickel-Cadmium

Part Number **HNN9049A**
Volts: 7.5 V
Avg. MAH: 1200
Charge: Rapid
Dimensions: 5½"
FM Rating: (NA)

Part Number **HNN9050A**
Volts: 7.5 V
Avg. MAH: 1000
Charge: Rapid
Dimensions: 5½"
FM Rating: IS & NI

AUDIO ACCESSORIES



HMN9030A

Remote Speaker Microphone

Provides remote transmit and receive capability conveniently while radio remains in the case.

HMN9030A Remote Speaker Microphone with Coil Cord and Clip Back

HKN9094A Replacement Cord for HMN9030A

AUDIO ACCESSORIES

Surveillance Accessories

Surveillance accessories allow the user to privately receive communications with the earpieces and are ideal for covert operations.



HMN9754DR

HMN9727BR Earpiece Without Volume Control

HMN9752BR Earpiece With Volume Control

HMN9754DR Two-piece Surveillance Microphone, Push-To-Talk and Microphone are Combined in One Piece

5080386B90 Rubber Ear Inserts for Surveillance Accessories (25 per pack)

BDN6720A Flexible Ear Receiver

Noise Kits

Lightweight translucent tube attaches to Motorola surveillance accessories. Clothing clip prevents the accessory from being pulled from the ear due to body movement or head rotation.

NTN8370A Extreme Noise Kit, includes 2 foam earplugs for loud environments

NTN8371A Low Noise Kit, includes rubber eartip for low noise environments

5080384F72 Replacement Foam Plugs. Pack of 50 (for use with NTN8370A)



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RADIUS P1225 Series Portable Accessories

AUDIO ACCESSORIES

Earpiece

The clear comfortable earpiece forms to the inside of your ear and is perfect for low noise environments. Compatible with the NTN8371A, clear acoustic tube assembly, and most surveillance kits (1, 2 and 3 wire). This earpiece is made of easy-to-clean chemically inert, hypoallergenic material.

There are 3 items needed to make this product work:

1. Clear Comfortable Earpiece
2. Clear Acoustic Tube Assembly (NTN8371A)
3. Surveillance Kits

RLN4760A Small Custom Earpiece, right ear

RLN4763A Small Custom Earpiece, left, ear

RLN4761A Medium Custom Earpiece, right ear

RLN4764A Medium Custom Earpiece, left ear

RLN4762A Large Custom Earpiece, right ear

RLN4765A Large Custom Earpiece, left ear

Ear Microphone System

This compact unit picks up the voice through bone vibrations in the ear canal. Ideal for use in high noise environments. Available in PTT or Voice-activated (VOX) capabilities for total hands free communications.

BDN6646C*

Ear Microphone for Standard Noise Levels (Up To 95 dB) With Push-To-Talk (only) Interface Module



BDN6706B

BDN6706B

Ear Microphone for Standard Noise Levels (Up To 95 dB) With Voice-Activated/Push-To-Talk Interface Module

AUDIO ACCESSORIES

Optional Accessories

0180358B38*

Remote Push-To-Talk Ring Switch



0180358B38

5080358B28 Eartips, Black, Size Medium (10 per pack)

5080358B29 Eartips, Black, Size Large (10 per pack)

5080358B30 Eartips, Beige, Size Medium (10 per pack)

5080358B31 Eartips, Beige, Size Large (10 per pack)

0180358B32 Earholder, Black, Size Small; secures ear mic in ear

0180358B33 Earholder, Black, Size Medium; secures ear mic in ear

0180358B34 Earholder, Black, Size Large; secures ear mic in ear

0180358B35 Earholder, Clear, Size Small; secures ear mic in ear

0180358B36 Earholder, Clear, Size Medium; secures ear mic in ear

0180358B37 Earholder, Clear, Size Large; secures ear mic in ear



0180358B33

4280369E44 Replaceable Belt Clip with Screws

0180300E25 Earguard with Adjustable Loop; secures ear mic in ear



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RADIUS P1225 Series Portable Accessories

AUDIO ACCESSORIES

Headsets

The broad line of headsets allows you to choose the right product for your application.



HMN9013A

HMN9013A Lightweight Headset with Swivel Boom Microphone, Single Speaker. PTT Button must be pressed to transmit.

5005125R02 Replacement Windscreen and Foam Ear Pad for HMN9013A and HMN9787A

BDN6647F Medium Weight Headset with Boom Microphone, Single Speaker. PTT Button on radio must be pressed to transmit.

5080371E66 Replacement Ear Pad for BDN6647F

3580371E59 Replacement Windscreen for BDN6647F



BDN6648C

BDN6648C Heavy Duty Headset with Noise Cancelling Boom Microphone, For Use Under Hardhat; Noise Reduction Rating=24dB

AUDIO ACCESSORIES

HLN9523A Audio Accessory Retainer

HMN9021A Medium Weight, Over-the-Head Dual Muff Headset; Noise Reduction Rating=24dB

HMN9022A Medium Weight, Behind-the-Head Dual Muff Headset; Noise Reduction Rating=24dB; can be worn with hardhat

Lightweight Headsets

RMN4016 Lightweight Single Muff Headset with Swivel Boom Mic for left or right ear operation and in-line PTT button is FM and CE approved. *NOTE: For P1225, VOX must be turned off in the RSS (Radio Service Software) for the RMN4016 headset to operated with the radio. For P1225-LS, the RMN4016 must be used to utilize the PTT.*



HMN9030A

5005125R02 Replaceable Ear Pad



MOTOROLA

RADIUS P1225 Series Service Aids, Manuals

SERVICE AIDS

Programming Stand

HLN9359A Programming Stand

Radio Interface Box (RIB)

Links radio programming cable and computer interface together. Provides required voltage shift to enable communications between radio and computer. Requires computer interface cable, radio test and programming cable, and a 9 volt snap type battery (6088278J01), order separately.



RLN4008B

RLN4008B Radio Interface Box

Computer Interface Cable

Used to connect computer's serial adapter to Radio Interface Box.

3080369B71 Cable, RIB to 25 pin D

3080369B72 Cable, RIB to 9 pin D



3080369B71

Wall Mounted Power Supply



0180357A57

Used to supply power to the radio interface box, RLN4008B

0180357A57 Wall Mounted Power Supply, 110 Volts

0180358A56 Wall Mounted Power Supply, 220 Volts

SERVICE AIDS

AT to XT Computer Adapter

RLN4438A Allows 3080369B72 to plug into a XT style communications port

Test Set Cable

RKN4034 Connects radio to RTX4005 Test Box

Programming Software

Utilizing your personal computer, this software enables you to add or reprogram the P1225 as your requirements change. Requires Radio Interface Box, proper cables, and programming stand order separately.

HVN9054B Programming Software, 3½" diskettes (includes RSS Getting Started Manual and storage box)

Minimum Platform Requirements

- 80386 Microprocessor
- 4 MB of RAM
- HDD (Hard Disk Drive) 30 MB or higher
- Microsoft® Windows™ 3.1 or higher
- 1.44 MB 3.5 in FDD (Floppy Disk Drive)
- Two (2) serial ports
- One (1) parallel (printer) port

Recommended Platform Requirements

- 80486 Microprocessor
- 8 MB of RAM
- HDD 80 MB or higher
- Microsoft® Windows™ 3.1 or higher
- 1.44 MB 3.5 in FDD
- Two (2) serial ports
- Mouse or trackball
- One (1) parallel (printer) port

REFERENCE MANUALS

6880904Z94

Service Manual

HLN9234B

Operator Manual Kit