Two-way Portable and Mobile Radio Accessory and Battery Catalog

PORTABLES
- VL50
- VL130
- DTR550/DTR650
- CP100
- CP150/CP200/PR400
- CT250/CT450/CT450-LS
- SP50/SP50+
- P1225/P1225-LS
- GTX Portable
- SP21/GP350/GP300

MOBILES
- CM200/CM300/PM400
- GTX Mobile
- M1225
- SM50/SM120
- M208/M130/M216
- GM300
Motorola Original® Accessories Are Always The Best Choice.

Risk-taking has its place in the business world, but not with vital communication needs. A mismatched battery, a flimsy headset or an ill-fitting carry case are just some of the ways two-way radios may not be ready at the moment users must communicate.

That's why Motorola Original® accessories are the best option for making the most of a two-way radio’s capabilities. Every accessory in this catalog is performance-matched for Motorola radios... designed, built and rigorously tested to meet the same exacting quality standards. So they provide not only enhanced functionality, but also exceptional reliability in real-life usage.

On the following pages, you’ll find proven accessory solutions to help radio users work harder and smarter. Remote speaker microphones for more convenient control. Carry cases for ease when on the move. Earpieces to ensure privacy. Headsets for hands-free operation. High-capacity batteries to extend work time, and more. Because they all carry the Motorola Original® name, they’re solutions to count on.
table of contents...

How the Book is Organized
Motorola Quality
Table of Contents

Portable Radios
VL50 .................................................. 2-5
VL130 ............................................... 6-9
DTR550/DTR650 ................................. 10-11
CP100 ............................................. 12-15
CP150/CP200 and PR400 ............. 16-24
CT250/CT450/CT450-LS .......... 25-35
SP50/SP50+ ............................. 36-47
P1225/P1225-LS ................. 48-61
GTX Portable ......................... 62-71

Mobile Radios
CM200/CM300 and PM400 ........ 72-77
GTX Mobile ........................... 78-79
M1225 ........................................ 80-81

Accessory Matrix
Discontinued Portables
SP21 ........................................... 82-83
GP300 ....................................... 82-83
GP350 ....................................... 82-83
Discontinued Mobiles
SM50/SM120 ...................... 84-85
M130 ....................................... 84-85
GM300 ....................................... 84-85
M208/M216 ...................... 84-85

Terms and Conditions
Definitions ............................... 86-89

Warranty Information
For Catalog Products ................. 90-91

Ordering Information
For Catalog Products ................. 92
**Education**

A Lightweight Headset helps make it convenient and comfortable to manage administration duties or contact colleagues from across the campus.

**Security**

From crowd control to answering an alarm signaling illegal entry, a Remote Speaker Microphone lets security professionals respond instantly without need to reach for the radio controls.

**Hospitality**

Whether coordinating staff for a conference or making a room change for a last-minute guest, an Ultra-Lite Headset helps keep hands free for the keyboard or clipboard.

**Retail**

Great customer service is all about quick response, and an Earpiece with Microphone helps make it easier for each employee to communicate instantly — from price checks to stocking questions.
“Yes sir...
Mr. Jenkins is already in the courtesy limo and on his way back to the hotel.”

so very adaptable...
It’s easy to get everyone on the customer service, security and support teams connected with VL50 two-way radios and companion Motorola Original® accessories.
These stylish Earpieces and Headsets can help raise the level of service employees provide. They’re ideal for Cashiers and Clerks. Managers and Supervisors. Salespeople, Support Staff, Security and more.

**BDN6774A**

*Earpiece with Microphone*

is the perfect choice for Retail environments.

**BDN6773A**

Earpiece with Microphone **BDN6774A**

**Earbud with Clip**

Microphone and Push-to-Talk **HMN8435A**

**VL50 Portable**
Remote Speaker Microphone (RSM)
This Remote Speaker Microphone is a water-resistant compact unit that allows talking and listen-
ing without removing the radio from the belt or case. It has a coiled cord and Push-to-Talk switch. Clothing clip on microphone back clips securely onto shirt or collar.

HMN9051A  Remote Speaker Microphone

Earpieces
Comfortable for extended wear, these compact and durable accessories allow users to receive communication discreetly in low-noise environments.

BDN6774A  Earpiece with Microphone
56517  Earpiece with Inline Microphone and Push-to-Talk
56518  Earpiece with Boom Microphone
HMN8435A  Earbud with Clip Microphone and Push-to-Talk
2-wire transmit and receive.

Headsets
Designed for moderate-noise environments, these accessories let users enjoy communication that’s clear, private and hands-free. Comfortable for extended wear. No adapters required.

BDN6773A  Lightweight, Single-Muff Headset with Swivel Boom Microphone
53815  Ultra-Lite Headset with Boom Microphone

Carrying Accessories
Add protection to a radio while carrying it in comfort.

56519  Carry Case with Adjustable Strap
HCLN4013B  Replacement Swivel Belt Holster

Batteries
It’s always wise to have spare power on hand to assure uninterrupted communication.

56557  Li-ion Rechargeable Battery
110 mAh, 3.6 Volt.
1564200W18  AAA Battery Tray Kit
Allows VL50 radios to operate with three AAA batteries.

Chargers
Extra chargers can help assure VL50 radios are centrally-located and always ready for use.

56553  Double-Unit Charger
56531  Multi-Unit Charger
Allows settings to be quickly copied from radio to radio.
Education
A Lightweight Headset helps make it convenient and comfortable to manage administration duties or contact colleagues from across the campus.

Security
From crowd control to answering an alarm signaling illegal entry, a Remote Speaker Microphone lets security professionals respond instantly without need to reach for the radio controls.

Hospitality
Whether managing a major conference or conducting a facility tour, a RadioPAK helps keep radio users in touch with staff while keeping all the tools needed right at hand.

Retail
Great customer service is all about quick response, and an Earset Boom Microphone helps make it easier for each employee to communicate instantly — from price checks to stocking questions.

Users on the move find that the programmable function controls on VL130 two-way radios help them connect to exactly the right people.
Remote Speaker Microphone (RSM)
This compact, water-resistant unit allows radio users to talk and listen without removing the radio from the belt or case. Attaches securely onto shirt or collar with a swivel clip on the back of the unit. Includes 6-foot coiled cord and Push-to-Talk switch. Ideal for security and maintenance personnel, or anyone who wears work gloves or uniforms.

HMN9030A  Remote Speaker Microphone
HKN9094A  Replacement Coiled Cord for HMN9030A.

Earsets and Headsets
These comfortable-to-wear audio accessories let users enjoy communication that’s clear, private and hands-free.

PMLN4294C  Earset Microphone with Push-to-Talk
PMLN4425A  Earset Boom Microphone with Remote Ring Push-to-Talk
HMN9013B  Lightweight, Single-Muff Headset with Swivel Boom Microphone

Team coordination is key when solving small emergencies that can arise during field trips, on the playground, or when the school bus leaves one rider short. This Earset Boom Microphone with Remote Ring Push-to-Talk helps staff communicate privately and quietly.
Unlike rigid holders, the universal-fit RadioPAK is lightweight and comfortable. An ideal companion for VL130 two-way radios, as well as iDEN® portables and cellular phones. Add an Extension Belt, and a RadioPAK fits great even over bulky jackets!
VL130 RADIO

good to go...

Waterproof Bag
HLN9985B  Waterproof Bag with Large Strap

Carrying Accessories
Add protection to a radio while carrying it in comfort.
HLN9844A  2-Inch Spring Action Belt Clip
4285820g01  Shoulder Strap

Universal RadioPAK™
More comfortable and stylish than conventional cases and holders. Worn around the waist, it features a separate 6 x 8 inch zippered pouch that holds on-the-job necessities like keys, pens and tools. Adjustable, woven, nylon belt fits both men and women.

HLN4815A  RadioPAK Radio/Utility Case
4280384F09  RadioPAK Extension Belt

Battery
It's always wise to have spare power on hand to assure uninterrupted communication.
PMNN4063AR  NiMH Battery, 1300 mAh, 7.2 Volt

Chargers
Extra chargers can help assure VL130 radios are centrally-located and always ready for use.
PMTN4073A  13-Hour Wall Charger
PMTN4087A  Rapid Rate Charger
EPNN7994A  Rapid Rate Charger Transformer
PMTN4086A  Rapid Rate Charger Base
RLN4940A  10-Hour Desktop Charger
WPLN4203A  10-Hour Charger Base

Antennas
If replacement is ever required, why take chances with anything other than Motorola Original quality.

VHF
NA6502AR  VHF Helical Antenna, 146-174 MHz
PMA4012A  VHF Stubby Antenna, 136-155 MHz
PMA4013A  VHF Stubby Antenna, 155-174 MHz
PMA4027A  VHF Helical Antenna, 136-155 MHz
8504762J02  VHF Helical Antenna, 155-174 MHz

UHF
NA6483AR  UHF Whip Antenna, 403-512 MHz
8504762J08  UHF Stubby Antenna, 430-470 MHz
PMA4011A  UHF Stubby Antenna, 435-480 MHz

Make the most of a VL130 two-way radio investment with these performance-matched Motorola Original® accessories.
Education
A Lightweight Headset helps make it convenient and comfortable to manage administration duties or contact colleagues from across the campus.

Security
From crowd control to answering an alarm signaling illegal entry, a Remote Speaker Microphone lets security professionals respond instantly without need to reach for the radio controls.

Hospitality
Whether you’re managing a major conference or conducting a facility tour, a Mini-Keyboard lets you transmit specs, dates, names and other important data for on-the-spot answers.

Retail
Great customer service is all about quick response, and an Earpiece with Microphone helps make it easier for each employee to communicate instantly — from price checks to stocking questions.

Managers and supervisors can get more done in less time thanks to the alphanumeric displays on DTR550 and DTR650 radios.

Add a Mini Keyboard to help increase productivity even more.
Remote Speaker Microphone (RSM)
This Remote Speaker Microphone is a water-resistant compact unit that allows talking and listening without removing the radio from the belt or case. It has a coiled cord and Push-to-Talk switch. Clothing clip on microphone back clips securely onto shirt or collar.
HMN9051A Remote Speaker Microphone

Earpieces
Comfortable for extended wear, these compact and durable audio accessories allow users to receive communication discreetly in low-noise environments.
BDN6774A Earpiece with Microphone
56517 Earpiece with Inline Microphone and Push-to-Talk
56518 Earpiece with Boom Microphone
HMN8435A Earbud with Clip Microphone and Push-to-Talk
2-wire transmit and receive.

Headsets
Designed for moderate-noise environments, these audio accessories let users enjoy communication that's clear, private and hands-free. Comfortable for extended wear. No adapters required.
BDN6773A Lightweight, Single-Muff Headset with Swivel Boom Microphone
RLN5580A Ultra-Lite Headset with Boom Microphone

Carry Accessories
Add protection to a radio while carrying it in comfort.
53961 Carry Holster

Batteries
It's always wise to have spare power on hand to assure uninterrupted communication.
53964 High Capacity Li-ion Battery
53963 Standard Capacity Li-ion Battery

Chargers
Extra chargers can help assure DTR550/DTR650 radios are centrally-located and always ready for use.
53969 1-Hour Rapid Charger
NNTN4679A Vehicular Power Charger
53962 Replacement Drop-In Charging Tray
53960 Multi-Unit Charger

Connectivity
These accessories are a must for communicating data as well as voice — often eliminating the need to carry multiple devices — plus quickly copying settings from one radio to another.
NTN2074A Mini-Keyboard
53968 Cloning Cable

These versatile radios can be charged while still in a Carry Holster! Shown here in a 1-Hour Rapid Charger.
**Education**

A Lightweight Headset helps make it convenient and comfortable to manage administration duties or contact colleagues from across the campus.

**Hospitality**

Whether coordinating staff for a conference or making a room change for a last-minute guest, an Ultra-Lite Earpiece helps keep hands free for the keyboard or clipboard.

**Retail**

Great customer service is all about quick response, and Swivel Belt Holders assure employees have their radios handy when someone needs a quick price check or has a stocking question.

**Security**

From crowd control to answering an alarm signaling illegal entry, a Remote Speaker Microphone lets security professionals respond instantly without need to reach for the radio controls.

*These stylish Earpieces and Headsets can help raise the level of service employees provide. They’re ideal for Cashiers and Clerks. Managers and Supervisors. Salespeople, Support Staff, Security and more.*
Remote Speaker Microphone (RSM)
This Remote Speaker Microphone is a water-resistant compact unit that allows talking and listening without removing the radio from the belt or case. It has a coiled cord and Push-to-Talk switch. Clothing clip on microphone back clips securely onto shirt or collar.

HMN9051A  Remote Speaker Microphone

Surveillance Kit
Surveillance accessories allow the radio user to privately receive messages with the earpiece. They are ideal when environments require discreet communication.

HMN8433A  Receive-Only Earpiece. Beige.

Noise Kits
Extreme Noise Kits provide extra comfort and/or noise protection for users wearing surveillance accessories. Lightweight, translucent tube attaches to Motorola surveillance accessories to provide flexibility and comfort. Clothing clip prevents accessory from being pulled from the ear due to body movement or head rotation. For optimal performance, Extra Loud Earphones are recommended for Noise Kits.

NTN8370A  Extreme Noise Kit. Includes 2 foam earplugs. For high noise environments, provides 24dB of noise reduction. Can be used with Clear Comfortable Earpieces, sold separately.
NTN8371A  Low Noise Kit - Clear Acoustic Tube Assembly. Includes 1 rubber eartip.
5080369E39†  Extra Loud Earphone. Beige.
5080370E91†  Extra Loud Earphone. Black.

SURVEILLANCE REPLACEMENT ACCESSORIES
5080370E97  Standard Rubber Eartips, Clear.
5080384F72  Replacement Foam Plugs, pack of 50 For use with NTN8370. Noise Reduction Rating = 24dB.

Clear Comfortable Earpieces
The Clear Comfortable Earpiece forms to the inside of the ear and is perfect for low noise environments. It's made of easy-to-clean, chemically-inert, hypo-allergenic material. Compatible with NTN8371A and all Surveillance Kits (1, 2, and 3-wire) including HMN8433A.

RLN4760A  Small Custom Earpiece - Right Ear
RLN4761A  Medium Custom Earpiece - Right Ear
RLN4762A  Large Custom Earpiece - Right Ear
RLN4763A  Small Custom Earpiece - Left Ear
RLN4764A  Medium Custom Earpiece - Left Ear
RLN4765A  Large Custom Earpiece - Left Ear

Pellet Style Earpiece
This pellet style earpiece allows users to receive communication discreetly and is comfortable for extended wear.

HMN8435A  Earbud with Clip Microphone and Push-to-Talk

† Extra Loud Earphone exceeds OSHA limits.
From hotels to hospitals, from schools to superstores, a Lightweight Headset helps assure clear and confidential two-way communication even over background noise.
Flexible Ear Receiver
This receive-only earpiece contains a flexible earloop and speaker which rests external to the ear. Black, without volume control.

HMN9040A Flexible Ear Receiver

Ultra-Lite Earpiece
Small and lightweight, this earpiece clips comfortably to the ear and features a boom microphone and in-line Push-to-Talk.

BDN6774A Ultra-Lite Earpiece with Microphone and Push-to-Talk

Lightweight Headset
This Lightweight Headset provides high-clarity, two-way communication, while maintaining the comfort necessary for extended wear in moderate noise environments. No adapter required.

BDN6773A Lightweight Headset
REX4648A Replacement Foam Ear Pad and Windscreen Kit for BDN6773A.

Carry Accessories
Add protection to a radio while carrying it in comfort.

NNTN4020A Leather Carry Case
NNTN4106A Swivel Belt Holster

Battery
It's always wise to have spare power on hand to assure uninterrupted communication.

NNTN4190A NiMH Battery - 1500 mAh, 4.8 Volt

Chargers
Extra chargers can help assure radios are centrally-located and always ready for use.

NNTN4077A 10-Hour Plug-in Charger
Plugs into radio's side connector jack, or drop-in charging tray.

NNTN4019AR Drop-in Charging Tray
For use with NNTN4077A.

NNTN4075AR 2-Hour Drop-in Charger
NNTN4028BR 6-Unit, 7-Hour Charger
120 Volt. Provides radio cloning capability.
Education
A Lightweight Headset helps make it convenient and comfortable to manage administration duties or contact colleagues from across the campus.

Security
From crowd control to answering an alarm signaling illegal entry, a Remote Speaker Microphone lets security professionals respond instantly without need to reach for the radio controls.

Hospitality
Whether coordinating staff for a conference or making a room change for a last-minute guest, an Ultra-Lite Headset helps keep hands free for the keyboard or clipboard.

Retail
Great customer service is all about quick response, and an Ultra-Lite Earpiece helps make it easier for each employee to communicate instantly — from price checks to stocking questions.
Picking-up a client at the airport. Handling baggage in a blizzard, or directing traffic in a downpour. When the workplace environment tests your mettle, it's good to know that Motorola Original® accessories have passed rigorous tests to ensure they won't let you down when the going gets tough.
Remote Speaker Microphone (RSM)
This compact, water-resistant unit allows radio users to talk and listen without removing the radio from the belt or case. Attaches securely onto shirt or collar with a swivel clip on the back of the unit. Includes 6-foot coiled cord and Push-to-Talk switch. Ideal for security and maintenance personnel, or anyone who wears work gloves or uniforms.

HMN9030A* Remote Speaker Microphone
HKN9094A* Replacement Coiled Cord for HMN9030A

Surveillance Kits
Surveillance accessories allow the radio user to privately receive messages with the earpiece. They are ideal when environments require discreet communication.

HMN9727B* Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.
RLN4894A Receive-Only Earpiece with Standard Earphone (1-Wire). Black.

Surveillance Kits - With Extended-Wear Comfort Earpiece
These kits include an extended-wear comfort earpiece that has a rubber eartip and clear, comfortable acoustic tube. Users hear transmissions clearly, while the clear tube provides a discreet appearance.


Noise Kits
Extreme Noise Kits provide extra comfort and/or noise protection for users wearing surveillance accessories. Lightweight, translucent tube attaches to Motorola surveillance accessories to provide flexibility and comfort. Clothing clip prevents accessory from being pulled from the ear due to body movement or head rotation. For optimal performance, Extra Loud Earphones are recommended for Noise Kits.

NTN8370A Extreme Noise Kit. Includes 2 foam earplugs. For high noise environments, provides 24dB of noise reduction. Can be used with Clear Comfortable Earpieces, sold separately.
NTN8371A Low Noise Kit - Clear Acoustic Tube Assembly Includes 1 rubber eartip. For low noise environments, does not provide hearing protection.
5080369E39† Extra Loud Earphone. Beige.
5080370E91† Extra Loud Earphone. Black.

Clear Comfortable Earpieces
The Clear Comfortable Earpiece forms to the inside of the ear and is perfect for low noise environments. It’s made of easy-to-clean, chemically-inert, hypo-allergenic material. Compatible with NTN8371A and all Surveillance Kits.

RLN4760A Small Custom Earpiece - Right Ear
RLN4761A Medium Custom Earpiece - Right Ear
RLN4762A Large Custom Earpiece - Right Ear
RLN4763A Small Custom Earpiece - Left Ear
RLN4764A Medium Custom Earpiece - Left Ear
RLN4765A Large Custom Earpiece - Left Ear

*Intrinsically Safe with PR400 only.
† Extra Loud Earphone exceeds OSHA limits.
Look twice — because at first glance you may not see this security professional is wearing an earpiece. That’s the idea behind discreet, yet practical and comfortable, Motorola Original® surveillance accessories.

**Ear Microphone System (EMS)**

This compact, lightweight unit picks up sound through bone vibrations in the ear canal. The miniature earpiece leaves the hands free and face unobscured, good for rescue and emergency personnel that must retain the ability to help, hear and speak directly to others... those not on the communication system. EMS may be worn with protective masks without reduction in clarity of sound. It’s ideal for high noise environments.

- **BDN6646C** Standard EMS with Push-to-Talk Interface Module
  - For noise levels up to 95dB.

- **BDN6706B** Standard EMS with Voice-Activated Interface Module
  - For noise levels up to 95dB.

**Optional Accessories for the EMS**

- **0180358B38** Remote Push-to-Talk Ring Switch
- **0180300E83** Remote Push-to-Talk Body Switch
- **0180358B32** Earholder, Black, size small. Secures Ear Microphone in ear.
- **0180358B33** Earholder, Black, size medium. Secures Ear Microphone in ear.
- **0180358B34** Earholder, Black, size large. Secures Ear Microphone in ear.
- **0180358B35** Earholder, Clear, size small. Secures Ear Microphone in ear.
- **0180358B36** Earholder, Clear, size medium. Secures Ear Microphone in ear.
- **0180358B37** Earholder, Clear, size large. Secures Ear Microphone in ear.
- **4280369E44** Replacement Belt Clip with Screws

**Pellet Style Earpieces**

These pellet style earpieces allow users to receive communication discreetly and are comfortable for extended wear.

- **HLN9132A** Receive-Only Earbud
- **HMN9036A** Earbud with Clip Microphone and Push-to-Talk

*Intrinsically Safe with PR400 only.*
The same winning quality and dependability you see at professional football stadiums and motor speedways can be yours with Motorola Original® accessories.

Racing teams like CART® use the Racing Headset in the pits for dependable communication.

**NFL® Style Headsets**
NFL Style Headsets are similar to the headsets worn by Coaching Staff in the NFL.

- **RLN5238B** Single-Muff, Lightweight Headset with Swivel Boom Microphone
- **RMN5047A** Single-Muff, Heavy-Duty Headset with Swivel Boom Microphone
  Not compatible with the PR400.

**Racing Headset**
This heavy-duty headset can be worn with most hardhats. Ideal for high-noise environments; racing teams like CART® use it in the pits for dependable communication. Adapter Cable required.

- **RMN5015A** Racing Headset with Noise-Cancelling Swivel Boom Microphone
  Behind-the-Head style, Noise Reduction Rating = 24dB.
- **RKN4090A** Adapter Cable for RMN5015A
Flexible Ear Receiver
This receive-only earpiece contains a flexible earloop and speaker which rests external to the ear. Black, without volume control.

BDN6720A Flexible Ear Receiver
7580372E11 Replacement Foam Ear Cushion for BDN6720A.

Ultra-Lite Earpiece
Small and lightweight, this earpiece clips comfortably to the ear. Features boom microphone and in-line Push-to-Talk.

PMMN4001A Ultra-Lite Earpiece with Microphone and Push-to-Talk

Lightweight Headsets
Lightweight Headsets provide high-clarity, discreet two-way communication, while maintaining the comfort necessary for extended wear in moderate noise environments. No adapter required.

RLN5411A Ultra-Light, Behind-the-Head with Boom Microphone and In-line Push-to-Talk
RMN4016A* Single-Muff, Adjustable, Lightweight Headset with Boom Microphone and In-line Push-to-Talk
HMN9013B* Single-Muff, Adjustable, Lightweight Headset with Boom Microphone
REX4648A Replacement Foam Earpad and Windscreen Kit for HMN9013B and RMN4016A

Hardhat Mount Headset
Ideal for two-way communication in high-noise environments; mounts easily to hardhats with slots, excellent noise reduction of 22dB. Easily replaceable ear seals are filled with liquid and foam combination to provide excellent sealing comfort. 3-foot coiled cord assembly. Adapter Cable required.

RMN4051B Two-way, Hardhat Mount Headset with Noise-Cancelling Boom Microphone
RKN4094A Adapter Cable with In-Line Push-to-Talk. For use with RMN4051B.

Medium Weight Headsets
Medium Weight Headsets offer high-clarity sound, with the additional hearing protection necessary for providing consistent, clear two-way radio communication in harsh, noisy environments.

HMN9021A Medium Weight, Dual-Muff, Over-the-Head Style Headset with In-line PTT Noise Reduction Rating = 24dB.
HMN9022A Medium Weight, Behind-the-Head Style, Dual-Muff Headset Can be worn with hardhat. Noise Reduction Rating = 24dB.
BDN6647G* Medium Weight, Single-Muff Headset with Boom Microphone

Heavy-Duty Headsets
Heavy-Duty Headsets include noise-cancelling boom microphones and can be worn with or without a hardhat. The Push-to-Talk switch is located on the earcup. On voice-activated models, the VOX module is contained within the headset.

BDN6648C Heavy-Duty, Behind-the-Head Style, with Noise-Cancelling Boom Microphone Noise Reduction Rating = 24dB.

Accessory Retainer Clip
RLN5500A Accessory Retainer Clip. Holds audio accessory securely to radio.

*Intrinsically Safe with PR400 only.
Carrying Accessories

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

**NON-DISPLAY MODELS**
- RLN5383A Leather Case with Belt Loop and D-Rings
- RLN5384B Leather Case with 2.5-Inch Swivel and D-Rings
- RLN5385B Leather Case with 3-Inch Swivel and D-Rings
- HLN9701B Nylon Case with Belt Loop and D-Rings

**LIMITED DISPLAY MODELS**
- RLN5640A Leather DTMF Case with Belt Loop and D-Rings
- RLN5641A Leather DTMF Case with 2.5-Inch Swivel and D-Rings
- RLN5642A Leather DTMF Case with 3-Inch Swivel and D-Rings
- HLN9701B Nylon Case with Belt Loop and D-Rings

**FULL DISPLAY MODELS**
- RLN5498A Soft Leather Case with Belt Clip
- RLN5496A Leather Case with Swivel - Full Keypad Models Only
- RLN5497A Leather Case with Swivel - Limited Keypad Models Only
- HLN9701B Nylon Case with Belt Loop and D-Rings

**BELT LOOPS & CLIPS**
- 4280438003 2.5-Inch Belt Swivel Loop
- 4280438004 3-Inch Belt Swivel Loop
- RLN5644A Spring Action 2-Inch Belt Clip
- HLN8255A Spring Action 3-Inch Belt Clip

**CARRYING STRAPS**
- RLN5716A T-Strap for Leather Cases
- NTN5243A Shoulder Carry Strap. For use with carry cases with D-Rings.
Universal-fit
Chest Pack is a comfortable solution for keeping any two-way radio handy.

Chest Pack
Motorola Original® Universal Chest Pack protects radio and provides the freedom from holding it during standby communication mode. Universal Chest Pack fits virtually any radio.

| HLN6602A | Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch |
| 150596202 | Replacement Strap for HLN6602A/RLN4570A |

Break-A-Way Chest Pack
All the features of the original Universal Chest Pack (HLN6602A) plus break-a-way tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure. For use with PR400 only.

| RLN4570A | Break-a-Way Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch |
| 150596202 | Replacement Strap for RLN4570A/HLN6602A |

Universal RadioPAK™
More comfortable and stylish than conventional cases and holders. Worn around the waist, it features a separate 6 x 8 inch zippered pouch that holds on-the-job necessities like keys, pens and tools. Adjustable, woven nylon belt fits both men and women.

| RLN4815A | RadioPAK Radio/Utility Case |
| 4280384F89 | RadioPAK Extension Belt |

Waterproof Bag

| HLN9985B | Waterproof Bag with Large Strap |

Portable Radio Hangers
Portable Radio Hangers slide over and hang from the vehicle panel. Radio belt clip required.

| TDN9327A | Portable Radio Hanger. For door panels up to 2.75 inches. |
| TDN9373A | Portable Radio Hanger. For door panels 2.75 to 3.25 inches. |
batteries, chargers & antennas

Batteries

**PREMIUM NICKEL CADMIUM - NiCD**
- NNTN4496AR NiCD Battery, 1100 mAh, 7.5 Volt

**PREMIUM LITHIUM ION - Li-ion**
- NNTN4497AR Li-ion Battery, 1800 mAh, 7.2 Volt
- NNTN4970A Slim Li-ion Battery, 1600 mAh, 7.2 Volt

**PREMIUM NICKEL METAL HYDRIDE - NiMH**
- NNTN4851A NiMH Battery, 1400 mAh, 7.5 Volt
- NNTN4852A NiMH Battery, 1300 mAh, 7.5 Volt
  *Intrinsically Safe with PR400 only.*

Rapid Rate Chargers

Rapid Rate Chargers will charge batteries within two hours. Our Multi-Unit Charger charges 1 to 6 batteries simultaneously, with radios or separately. Both support NiMH, NiCD and Li-ion batteries.

- WPLN4138AR Desktop Rapid 90-Minute Charger, 120 Volt
  Lightweight and compact, supports NiCD, NiMH and Li-ion.
- WPLN4137AR Desktop Rapid 90-Minute Charger, 120 Volt (Base Only)
  Lightweight and compact, plugs into radio accessory connector.
- WPLN4161AR 6-Pocket, Rapid Rate, Multi-Unit Charger, 120 Volt
  Supports NiCD, NiMH, and Li-ion chemistries.
- EPNN7994A Rapid Rate Charger Transformer (US), 120 Volt
  Plugs into accessory connector. For use with NNTN4496AR only.
- HLN9293A Wall Mount Bracket for WPLN4161AR

10-Hour Chargers

10-Hour Chargers are considered slow-rate chargers and will charge batteries overnight.

- EPNN7997A 10-Hour Plug-in Charger, 120 Volt
  Plugs into accessory connector. For use with NNTN4496AR only.
- WPLN4155AR 10-Hour Desktop Charger, 120 Volt
  Lightweight and compact. For use with NNTN4496AR only.

Antennas

**VHF**
- NAD6502AR VHF Heliflex Antenna, 146-174 MHz
- HAD9742A VHF Stubby Antenna, 146-162 MHz
- HAD9743A VHF Stubby Antenna, 162-174 MHz

**UHF**
- NAE6483AR UHF Flexible Whip Antenna, 403-512 MHz
- NAE6522AR UHF Heliflex Stubby Antenna, 438-470 MHz
- 8505816K26 UHF Heliflex Stubby Antenna, 470-512 MHz
**Education**
Managing administration duties or contacting colleagues on large campuses is convenient and comfortable with the Lightweight Headset.

**Hospitality**
Whether you’re coordinating staff for a conference or requesting a quick room change for a last-minute guest, you need the Ultra-Lightweight Earpiece, so communication won’t slow you down.

**Retail**
In the retailing industry, great customer service depends on fast response. Connect at the touch of a button, with the Flexible Ear Receiver, to get the information you need instantly.

**Security**
When an alarm signals an illegal entry into the building you’re securing, you won’t lose a moment when using professional security accessories like the Ear Microphone System.
Remote Speaker Microphone (RSM)

This compact, water-resistant unit allows radio users to talk and listen without removing the radio from the belt or case. Attaches securely onto shirt or collar with a swivel clip on the back of the unit. Includes 6-foot coiled cord and Push-to-Talk switch. Ideal for security and maintenance personnel, or anyone who wears work gloves or uniforms.

- HMN9030A  Remote Speaker Microphone
- HKN9094A  Replacement Coiled Cord for HMN9030A

Surveillance Kits

Surveillance accessories allow the radio user to privately receive messages with the earpiece. They are ideal when environments require discreet communication.

- HMN9727B  Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.
- RLN4894A  Receive-Only Earpiece with Standard Earphone (1-Wire). Black.

Surveillance Kits - With Extended-Wear Comfort Earpiece

These kits include an extended-wear comfort earpiece that has a rubber eartip and clear, comfortable acoustic tube. Users hear transmissions clearly, while the clear tube provides a discreet appearance.


Noise Kits

Extreme Noise Kits provides extra comfort and/or noise protection for users wearing surveillance accessories. This lightweight, translucent tube attaches to Motorola surveillance accessories to provide flexibility and comfort. Clothing clip prevents accessory from being pulled from the ear due to body movement or head rotation. For optimal performance, Extra Loud Earphones are recommended for Noise Kits.

- NTN8370A  Extreme Noise Kit. Includes 2 foam earplugs. For high noise environments, provides 24dB of noise reduction. Can be used with Clear Comfortable Earpieces, sold separately.
- NTN8371A  Low Noise Kit - Clear Acoustic Tube Assembly. Includes 1 rubber eartip. For low noise environments, does not provide hearing protection.
- 5080369E39†  Extra Loud Earphone. Beige.
- 5080370E91†  Extra Loud Earphone. Black.

SURVEILLANCE REPLACEMENT ACCESSORIES

- 5080370E97 Standard Rubber Eartips, Clear.
- 5080384F72 Replacement Foam Plugs. Pack of 50. For use with NTN8370A. Noise Reduction Rating = 24dB.

Clear Comfortable Earpieces

The Clear Comfortable Earpiece forms to the inside of the ear and is perfect for low noise environments. It's made of easy-to-clean, chemically-inert, hypoallergenic material. Compatible with NTN8371A and all Motorola Surveillance Kits (1, 2, and 3-wire).

- RLN4760A  Small Custom Earpiece - Right Ear
- RLN4761A  Medium Custom Earpiece - Right Ear
- RLN4762A  Large Custom Earpiece - Right Ear
- RLN4763A  Small Custom Earpiece - Left Ear
- RLN4764A  Medium Custom Earpiece - Left Ear
- RLN4765A  Large Custom Earpiece - Left Ear

† Extra Loud Earphone exceeds OSHA limits.
Completely Discreet Wireless Earpiece Kit

Enables users to communicate with ease, in full privacy, without visible equipment. This miniaturized receiver is discreetly hidden in the ear, where it can be worn comfortably for long periods of time. Small as it is, it offers a full range of audio functions including automatic squelch, automatic gain control and noise filtering. Average battery life is approximately 100 hours and includes an end-of-life warning signal when the battery needs to be changed. Kit includes wireless receiver, inductive neckloop, 6 spare batteries and 5 spare earguards. For use with any standard 2 or 3-wire Motorola Surveillance Kit.

RLN4922A Completely Discreet Earpiece Kit
RLN4919A Replacement Earguards, 5 per pack.
RNN4005A Replacement 1.4 Volt Batteries, 6 per pack.

Export Microphone Systems (EMS)

This compact, lightweight unit picks up sound through bone vibrations in the ear canal. The miniature earpiece leaves the hands free and face unobscured, good for rescue and emergency personnel that must retain the ability to help, hear and speak directly to others...those not on the communication system. EMS may be worn with protective masks without reduction in clarity of sound. It’s ideal for high noise environments.

BDN6646C Standard EMS with Push-to-Talk Interface Module
For noise levels up to 95dB.
BDN6706B Standard EMS with Voice-Activated Interface Module
For noise levels up to 95dB.

Optional Accessories for the EMS

0180300E25 Earguard with Adjustable Loop
0180358B38 Remote Push-to-Talk Ring Switch
0180300E83 Remote Push-to-Talk Body Switch
0180358B34 Earholder. Black, size large. Secures Ear Microphone in ear.
4280369E44 Replacement Belt Clip with Screws

Pellet Style Earpieces

These pellet style earpieces allow users to receive communication discreetly and are comfortable for extended wear.

HLM9132A Receive-Only Earbud
HLM9036A Earbud with Clip Microphone and Push-to-Talk
Racing teams like CART® use the Racing Headset in the pits for dependable communication.

**NFL® Style Headsets**

NFL Style Headsets are similar to the headsets worn by Coaching Staff in the NFL.

- RLN5238B Single-Muff, Lightweight Headset with Swivel Boom Microphone
- RMN5047A Single-Muff, Heavy-Duty Headset with Swivel Boom Microphone

**Racing Headset**

This heavy-duty headset can be worn with most hardhats. Ideal for high-noise environments; racing teams like CART® use it in the pits for dependable communication. Adapter Cable required.

- RMN5015A Racing Headset with Noise-Cancelling Swivel Boom Microphone
  - Behind-the-Head style.
  - Noise Reduction Rating = 24dB.
- RKN4090A Adapter Cable for RMN5015A

**Flexible Ear Receiver**

This receive-only earpiece contains a flexible earloop and speaker which rests external to the ear. Black, without volume control.

- BDN6720A Flexible Ear Receiver
- 7580372E11 Replacement Foam Ear Cushion for BDN6720A.
Ultra-Lite Earpiece
Small and lightweight, this earpiece clips comfortably to the ear. Features boom microphone and in-line push-to-talk.

PMMN4001A Ultra-Lite Earpiece with Microphone and Push-to-Talk

Lightweight Headsets
Lightweight Headsets allow for high-clarity, discreet two-way communication, while maintaining the comfort necessary for extended wear in moderate noise environments. No adapter required.

RLN5411A Ultra-Light, Behind-the-Head Headset with Boom Microphone and In-line Push-to-Talk
RMN4016A Single-Muff, Adjustable, Lightweight Headset with Boom Microphone and In-line Push-to-Talk
HMN9013B Single-Muff, Adjustable, Lightweight Headset with Boom Microphone
REX4648A Replacement Foam Earpad and Windscreen Kit for HMN9013A and RMN4016A

Noise-Cancelling Headsets with Boom Microphone
Ideal for two-way communication in extremely noisy environments. Dual-muff, tactical headsets include 2 microphones on outside of earcups which reproduce ambient sound back into headset. Harmful sounds are suppressed to safe levels, and low sounds are amplified up to 5 times original level, but never more than 82dB. Has on/off volume control on earcups. Easily replaceable ear seals are filled with a liquid and foam combination to provide excellent sealing and comfort. 3-foot coiled cord assembly included. Adapter Cable required. Hardhat not included.

RMN4052B Tactical Headband Style Headset. Grey, Noise Reduction Rating = 24dB.
RMN4053B Tactical Hardhat Mount Headset. Grey, Noise Reduction Rating = 22dB.
RKN4094A Adapter Cable with In-Line Push-to-Talk For use with RMN4052B/RMN4053A.

RKN4923A Replacement Earseals for RMN4051B/RMN4052B/RMN4053A Includes 2 snap-in earseals. Recommended replacement interval; once every 6 months to ensure constant level of attenuation, hygiene and comfort.

Hardhat Mount Headset
With Noise-Cancelling Boom Microphone
Ideal for two-way communication in high-noise environments, this headset mounts easily to hardhats with slots, or can be worn alone. Easily replaceable ear seals are filled with a liquid and foam combination to provide excellent sealing and comfort. 3-foot coiled cord assembly included. Noise reduction rating of 22dB. Adapter Cable required. Hardhat not included.

RMN4051B Two-way, Hardhat Mount Headset with Noise-Cancelling Boom Microphone
RKN4094A Adapter Cable with In-Line Push-to-Talk. For use with RMN4051B.

Medium Weight Headsets
Medium Weight Headsets offer high-clarity sound, with the additional hearing protection necessary to provide consistent, clear, two-way radio communication in harsh, noisy environments or situations.

HMN9021A Medium Weight, Dual-Muff, Over-the-Head Style Headset with In-line PTT Noise Reduction Rating = 24dB.
HMN9022A Medium Weight, Dual-Muff, Behind-the-Head Style Headset Can be worn with hardhat. Noise Reduction Rating = 24dB.
BDN6647G Medium Weight, Single-Muff Headset with Boom Microphone.

Heavy-Duty Headset
This Heavy-Duty Headset includes a noise-cancelling boom microphone and can be worn with or without a hardhat. The Push-to-Talk switch is located on the earcup. On voice-activated models, the VOX module is contained within the headset.

BDN6648C Heavy-Duty, Behind-the-Head Style Headset, with Noise-Cancelling Boom Microphone. Noise Reduction Rating = 24dB.
CARRYING CASES

Organized types love the convenience of a Motorola Original® carrying case — and no wonder. It helps assure that two-way radios are always good to go, and helps keep radios protected either in the office or factory.

Carrying Cases

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

**CARRY CASES FOR CT250**
- RLN4865A Leather Case with Belt Loop
- RLN4866A Leather Case with Swivel
- RLN4867A Soft Leather Case with Belt Loop
- RLN4868A Nylon Case with Belt Clip

**CARRY CASES FOR CT450**
- RLN4871A Soft Leather Case with Belt Clip
- RLN4873A Leather Case with Swivel
- RLN4874A Leather Case with Belt Loop
- RLN4868A Nylon Case with Belt Clip

**CARRY CASES FOR CT450-LS**
- RLN4871A Soft Leather Case with Belt Clip
- RLN4873A Leather Case with Swivel - Full Keypad Models Only
- RLN4878A Leather Case with Swivel - Limited Keypad Models Only
- RLN4874A Leather Case with Belt Loop - Full Keypad Models Only
- RLN4879A Leather Case with Belt Loop - Limited Keypad Models Only
- RLN4868A Nylon Case with Belt Clip

Carrying Accessories

**BELT CLIPS**
- HLN9714A Spring Action 2.5-Inch Belt Clip
- HLN9844A Spring Action 2-Inch Belt Clip

**CARRYING STRAP**
- NTN5243A Shoulder Carry Strap - Compatible with leather carry cases only.
Universal-fit

Universal-fit RadioPAK is a lightweight, stylish way to protect any two-way radio, iDEN® phone or cellular phone.

Add an Extension Belt, and a RadioPAK fits great even over bulky jackets!

CT250/CT450/CT450·LS RADIOS

Universal-fit Chest Pack is a comfortable solution for keeping any two-way radio handy.

Universal-fit RadioPAK is a lightweight, stylish way to protect any two-way radio, iDEN® phone or cellular phone.

Add an Extension Belt, and a RadioPAK fits great even over bulky jackets!

Universal-fit Chest Pack
Motorola Original Universal Chest Pack protects radio and provides the freedom from holding it during standby communication mode. Universal Chest Pack fits virtually any radio.

HLN6602A Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
1505596Z02 Replacement Strap for HLN6602A/RLN4570A

Break-A-Way Chest Pack
All the features of the original Universal Chest Pack (HLN6602A) plus break-a-way tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure.

RLN4570A Break-a-Way Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
1505596Z02 Replacement Strap for RLN4570A/HLN6602A

Universal RadioPAK™
The RadioPAK is lightweight and comfortable. Worn around the waist, it keeps radios/phones at hand. It features a separate 6 x 8 inch zippered pouch for other on-the-job necessities. Adjustable, woven nylon belt fits both men and women.

RLN4815A RadioPAK Radio/Utility Case
4280384F89 RadioPAK Extension Belt
For waists larger than 40 inches.

Universal Holders
A great solution for forklift operators! The gooseneck bracket can be mounted inside the forklift and the height adjusted for each driver. The Wheelchair Quick Release can be easily mounted to a wheelchair. Accommodates any Motorola radio.

RLN4943A Universal Holder with Gooseneck Bracket
RLN4944A Wheelchair Quick Release Assembly
RLN4945A Universal Holder with Gooseneck Bracket and Wheelchair Quick Release Assembly

Universal-fit Chest Pack
Motorola Original Universal Chest Pack protects radio and provides the freedom from holding it during standby communication mode. Universal Chest Pack fits virtually any radio.

HLN6602A Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
1505596Z02 Replacement Strap for HLN6602A/RLN4570A

Break-A-Way Chest Pack
All the features of the original Universal Chest Pack (HLN6602A) plus break-a-way tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure.

RLN4570A Break-a-Way Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
1505596Z02 Replacement Strap for RLN4570A/HLN6602A

Universal RadioPAK™
The RadioPAK is lightweight and comfortable. Worn around the waist, it keeps radios/phones at hand. It features a separate 6 x 8 inch zippered pouch for other on-the-job necessities. Adjustable, woven nylon belt fits both men and women.

RLN4815A RadioPAK Radio/Utility Case
4280384F89 RadioPAK Extension Belt
For waists larger than 40 inches.

Universal Holders
A great solution for forklift operators! The gooseneck bracket can be mounted inside the forklift and the height adjusted for each driver. The Wheelchair Quick Release can be easily mounted to a wheelchair. Accommodates any Motorola radio.

RLN4943A Universal Holder with Gooseneck Bracket
RLN4944A Wheelchair Quick Release Assembly
RLN4945A Universal Holder with Gooseneck Bracket and Wheelchair Quick Release Assembly

Universal-fit Chest Pack
Motorola Original Universal Chest Pack protects radio and provides the freedom from holding it during standby communication mode. Universal Chest Pack fits virtually any radio.

HLN6602A Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
1505596Z02 Replacement Strap for HLN6602A/RLN4570A

Break-A-Way Chest Pack
All the features of the original Universal Chest Pack (HLN6602A) plus break-a-way tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure.

RLN4570A Break-a-Way Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
1505596Z02 Replacement Strap for RLN4570A/HLN6602A

Universal RadioPAK™
The RadioPAK is lightweight and comfortable. Worn around the waist, it keeps radios/phones at hand. It features a separate 6 x 8 inch zippered pouch for other on-the-job necessities. Adjustable, woven nylon belt fits both men and women.

RLN4815A RadioPAK Radio/Utility Case
4280384F89 RadioPAK Extension Belt
For waists larger than 40 inches.

Universal Holders
A great solution for forklift operators! The gooseneck bracket can be mounted inside the forklift and the height adjusted for each driver. The Wheelchair Quick Release can be easily mounted to a wheelchair. Accommodates any Motorola radio.

RLN4943A Universal Holder with Gooseneck Bracket
RLN4944A Wheelchair Quick Release Assembly
RLN4945A Universal Holder with Gooseneck Bracket and Wheelchair Quick Release Assembly
Construction sites are often the natural enemy of electronic equipment — which makes it important that carry cases are a custom fit for two-way radios. With Motorola Original® accessories, there’s no "good enough" — workers can trust their radio investment to be securely protected.

**Batteries**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Capacity</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMNN4021AR</td>
<td>PREMIUM NICKEL CADMIUM - NiCD NiCD Battery</td>
<td>1100 mAh</td>
<td>7.5 Volt</td>
</tr>
<tr>
<td>PMNN4019AR</td>
<td>PREMIUM NICKEL METAL HYDRIDE - NiMH NIMH Battery</td>
<td>1200 mAh</td>
<td>7.5 Volt</td>
</tr>
<tr>
<td>PMNN4018AR</td>
<td>NIMH Battery, 1250 mAh, 7.5 Volt</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Chargers**

Chargers can rapidly charge batteries and are specifically designed to meet the requirements of batteries manufactured by Motorola.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAPMTN4038B</td>
<td>Rapid Rate Single-Unit Charger, 120V</td>
</tr>
<tr>
<td>RLN5218A</td>
<td>6-Pocket Rapid Rate Multi-Unit Charger, 120 Volt</td>
</tr>
<tr>
<td>HLN9293A</td>
<td>Wall Mount Bracket</td>
</tr>
</tbody>
</table>
Motorola Conditioning Charger (MCC)
The MCC features Instant Fault Detection technology that detects faulty batteries in seconds. You’ll know right away when a battery won’t operate at peak performance - saving you time and trouble. Each unit rapidly charges NiCD and NiMH batteries, and optimizes battery performance. It’s patented negative pulse charging process minimizes overheating and overcharging, extending useful battery life. Batteries can be left on the charger for extended periods of time, without worry of heat buildup. Optional accessories are available that allow the MCC to be used in both AC and DC environments - that’s flexibility.

WPLN4107BR  MCC Kit, 110 Volt AC. Includes base unit and 7 volt adapter.
WPLN4106BR  MCC Kit, 220 Volt AC. Includes base unit and 7 volt adapter.
WPPN4002BR  Base Charge Unit, 110 Volt AC. Order adapter plates separately.
WPPN4006AR  Base Charge Unit, 220 Volt AC. Order adapter plates separately.
WPPN4082BR  Adapter Plate, 7 Volt
WPPN4065BR  Multi-Unit Conditioning Charger, 4-Station Base, 110 Volt

Vehicular Mounting
RLN4814A  Vehicular Mounting Bracket and Hard Wire Cable for Single-Unit MCC
3080384M21  Includes DC Hard Wire Cable 3080384M21.

Vehicular Power Adapter
3080384G15  Vehicular Power Adapter
Battery Maintenance System® Plus (BMS® Plus)
Increase the useful life of batteries. Interchangeable adapter plates are available to accommodate most Motorola two-way radio batteries, including NiCD, NiMH and Li-ion chemistries. The BMS® Plus is capable of charging, analyzing, conditioning and cycle testing, tracking battery voltage and capacity (mAh). Easy-to-use design supports hundreds of two-way, cellular batteries as well as camcorder batteries with printer port* (Serial-RS-232C port - female 9-pin to male 25-pin cable). 3 year warranty.

WPLN4079BR 6-Station BMS® Plus, 110 Volt AC, 50/60 Hz
WPLN4080BR 6-Station BMS® Plus, 230 Volt AC, 50/60 Hz
NDN4005B 3-Station BMS® Plus, 110 Volt AC, 50/60 Hz
NDN4006B 3-Station BMS® Plus, 230 Volt AC, 50/60 Hz
WPPN4085AR BMS® Plus Li-ion Field Upgrade Kit
Upgrade WPLN4079AR, WPLN4080AR, WPLN7080AR and WPLN4081AR. Allows units to support Li-ion batteries.

*Compatible with the STAR Micronics SP200 series printers and other printers with STAR printer emulation. STAR Micronics printers are available through STAR Micronics distributors.

Battery Maintenance System® Plus Adapter
WPPN4083AR Adapter. Compatible with NiCD and NiMH batteries.
Note: If used with TDN9430, requires Upgrade Kit CDN6142A.

Battery Optimizing System II (BOS II)
No other battery analyzer matches the speed, accuracy, versatility and ease-of-use of the BOS II. New enhancements include new navigation keys and an improved, more intuitive menu system. Regular use of the BOS II can optimize battery performance and help extend battery life, reducing battery replacement costs.

WPLN4124AR BOS II 4-Station Reconditioner,
110-240 Volt AC, 50/60 Hz
Ships with US line cord.

• Supports NiCD, NiMH, Li-ion, and SLA batteries
• Increased power-programmable from 100 mAh to 4 Amps per station
• Programmable adapters allow customization of maintenance routines
• Proprietary reduction cycle restores NiCD and NiMH batteries
• Printer output for reports and labels with computer interface
  (Includes both 9-pin serial and 25-pin parallel ports)
• Universal Power Supply (110-240 VAC)
• Improved processing power and testing resolution,
  including a 3 minute Quicktest
• Interchangeable adapters accommodate nearly all major batteries
antennas

**Stubby Antennas for CT250/CT450**
These stubby antennas are ideal when radio is worn on the belt because the short antenna is non-obtrusive.

- PMAD4012A VHF Stubby Antenna, 136-155 MHz
- PMAD4025A VHF Stubby Antenna, 150-161 MHz
- PMAD4013A VHF Stubby Antenna, 155-174 MHz
- PMAE4002A UHF Stubby Antenna, 403-430 MHz
- 8504762J08 UHF Stubby Antenna, 430-470 MHz

**Flexible Whip Antennas for CT250/CT450**
Flexible whip antennas have a one-piece finish and steel core for optimal radiation characteristics. They provide more comfort when radio is worn on the belt.

- 8504762J01 VHF Flexible Whip Antenna, 136-155 MHz
- PMAD4023A VHF Flexible Whip Antenna, 150-161 MHz
- 8504762J02 VHF Flexible Whip Antenna, 155-174 MHz
- NAE6483AR UHF Flexible Whip Antenna, 403-512 MHz
- NAD6579A VHF Flexible Whip Antenna, 148-161 MHz

**Stubby Antennas for CT450-LS**
These stubby antennas are ideal when radio is worn on the belt because the short antenna is non-obtrusive.

- 8504762J01 UHF Stubby Antenna, 430-470 MHz
- PMAE4006A UHF Stubby Antenna, 465-490 MHz
- PMAE4008A UHF Stubby Antenna, 465-512 MHz
- PMAE4007A UHF Stubby Antenna, 490-512 MHz

**Flexible Whip Antennas for CT450-LS**
Flexible whip antennas have a one-piece finish and steel core for optimal radiation characteristics. They provide more comfort when radio is worn on the belt.

- NAE6483AR UHF Flexible Whip Antenna, 403-512 MHz
Education
A Lightweight Headset helps make it convenient and comfortable to manage administration duties or contact colleagues from across the campus.

Security
From crowd control to answering an alarm signaling illegal entry, a Remote Speaker Microphone lets security professionals respond instantly without need to reach for the radio controls.

Hospitality
Whether coordinating staff for a conference or making a room change for a last-minute guest, an Ultra-Lite Earpiece helps keep hands free for the keyboard or clipboard.

Retail
Great customer service is all about quick response, and a Flexible Ear Receiver helps make it easier for each employee to communicate instantly — from price checks to stocking questions.
This compact, water-resistant Remote Speaker Microphone allows radio users to talk and listen without removing the radio from the belt or case.

With their lightweight and compact design, SP50 and SP50+ two-way radios are handy performers in everyday situations. Add companion Motorola Original® accessories, and radio users can be even more productive.
Remote Speaker Microphone (RSM)
This compact, water-resistant unit allows radio users to talk and listen without removing the radio from the belt or case. Attaches securely onto shirt or collar with a swivel clip on the back of the unit. Includes 6-foot coiled cord and Push-to-Talk switch. Ideal for security and maintenance personnel, or anyone who wears work gloves or uniforms.

HMN9030A  Remote Speaker Microphone
HKN9094A  Replacement Coiled Cord for HMN9030A

Surveillance Kits
Surveillance accessories allow the radio user to privately receive messages with the earpiece. They are ideal when environments require discreet communication.

HMN9727B  Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.
RLN4894A  Receive-Only Earpiece with Standard Earphone (1-Wire). Black.
HMN9752B  Receive-Only Earpiece with Volume Control (1-Wire). Beige.

Surveillance Kits - With Extended-Wear Comfort Earpiece
These kits include an extended-wear comfort earpiece that has a rubber eartip and clear, comfortable acoustic tube. Users hear transmissions clearly, while the clear tube provides a discreet appearance.


Noise Kits
Extreme Noise Kits provide extra comfort and/or noise protection for users wearing surveillance accessories. Lightweight, translucent tube attaches to Motorola surveillance accessories to provide flexibility and comfort. Clothing clip prevents accessory from being pulled from the ear due to body movement or head rotation. For optimal performance, Extra Loud Earphones are recommended for Noise Kits.

NTN8370A  Extreme Noise Kit. Includes 2 foam earplugs. For high noise environments, provides 24dB of noise reduction. Can be used with Clear Comfortable Earpieces, sold separately.
NTN8371A  Low Noise Kit - Clear Acoustic Tube Assembly. Includes 1 rubber eartip. For low noise environments, does not provide hearing protection.
5080370E91  Extra Loud Earphone. Black.

Clear Comfortable Earpieces
The Clear Comfortable Earpiece forms to the inside of the ear and is perfect for low noise environments. It's made of easy-to-clean, chemically-inert, hypo-allergenic material. Compatible with NTN8371A and all Motorola Surveillance Kits.

RLN4760A  Small Custom Earpiece - Right Ear
RLN4761A  Medium Custom Earpiece - Right Ear
RLN4762A  Large Custom Earpiece - Right Ear
RLN4763A  Small Custom Earpiece - Left Ear
RLN4764A  Medium Custom Earpiece - Left Ear
RLN4765A  Large Custom Earpiece - Left Ear

† Extra Loud Earphones exceed OSHA limits.
discreet communication...

**Complete Discreet Wireless Earpiece Kit**

Enables users to communicate with ease, in full privacy, without visible equipment. This miniaturized receiver is discreetly hidden in the ear, where it can be worn comfortably for long periods of time. Small as it is, it offers a full range of audio functions including automatic squelch, automatic gain control and noise filtering. Average battery life is approximately 100 hours and includes an end-of-life warning signal when the battery needs to be changed. Kit includes wireless receiver, inductive neckloop, 6 spare batteries and 5 spare earguards. For use with any standard 2 or 3-wire Motorola Surveillance Kit.

- RLN4922A Completely Discreet Earpiece Kit
- RLN4919A Replacement Earguards, 5 per pack.
- RNN4005A Replacement 1.4 Volt Batteries, 6 per pack.

**Ear Microphone Systems (EMS)**

This compact, lightweight unit picks up sound through bone vibrations in the ear canal. The miniature earpiece leaves the hands free and face unobscured, good for rescue and emergency personnel that must retain the ability to help, hear and speak directly to others...those not on the communication system. EMS may be worn with protective masks without reduction in clarity of sound. It's ideal for high noise environments.

  - For noise levels up to 95dB.
  - For noise levels up to 95dB.

**OPTIONAL ACCESSORIES FOR THE EMS**

- 0180300E25 Earguard with Adjustable Loop
- 0180358B38 Remote Push-to-Talk Ring Switch
- 0180358B83 Remote Push-to-Talk Body Switch
- 0180358B34 Earholder. Black, size large. Secures Ear Microphone in ear.
- 4280369E44 Replacement Belt Clip with Screws

**Pellet Style Earpieces**

These pellet style earpieces allow users to receive communication discreetly and are comfortable for extended wear.

- HLN9132A Receive-Only Earbud
- HMN9036A Earbud with Clip Microphone and Push-to-Talk

The Completely Discreet Earpiece is easy to use, just remove the earpiece from any standard 2 or 3-wire Surveillance Kit and plug in the neckloop, which is easily hidden under clothing. Security personnel will be able to wear this tiny receiver comfortably for hours at a time!
Racing teams like CART® use the Racing Headset in the pits for dependable communication.

NFL® Style Headsets
NFL Style Headsets are similar to the headsets worn by Coaching Staff in the NFL.

- RLN5238B Single-Muff, Lightweight Headset with Swivel Boom Microphone
- RMN5047A Single-Muff, Heavy-Duty Headset with Swivel Boom Microphone

Racing Headset
This heavy-duty headset can be worn with most hardhats. Ideal for high-noise environments; racing teams like CART® use it in the pits for dependable communication. Adapter Cable required.

- RMN5015A Racing Headset with Noise-Cancelling Swivel Boom Microphone
- RKN4090A Adapter Cable for RMN5015A
immediate communication...

Flexible Ear Receiver
This receive-only earpiece contains a flexible earloop and speaker which rests external to the ear. Black, without volume control.
BDN6720A Flexible Ear Receiver
7580372E11 Replacement Foam Ear Cushion for BDN6720A.

Ultra-Lite Earpiece
Small and lightweight, this earpiece clips comfortably to the ear. Features boom microphone and In-line Push-to-Talk.
PMMN4001A Ultra-Lite Earpiece with Microphone and Push-to-Talk

Lightweight Headsets
Lightweight Headsets allow for high-clarity, discreet two-way communication, while maintaining the comfort necessary for extended wear in moderate noise environments. No adapter required.
RLN5411A Ultra-Light, Behind-the-Head Headset with Boom Microphone and In-line Push-to-Talk
RMN4016A Single-Muff, Adjustable, Lightweight Headset with Boom Microphone and In-line Push-to-Talk
HMN9013B Single-Muff, Adjustable, Lightweight Headset with Boom Microphone
REX4648A Replacement Foam Earpad and Windscreen Kit for HMN9013A and RMN4016A

Noise-Cancelling Headsets with Boom Microphone
Ideal for two-way communication in extremely noisy environments. Dual-muff, tactical headsets include 2 microphones on outside of earcups which reproduce ambient sound back into headset. Harmful sounds are suppressed to safe levels, and low sounds are amplified up to 5 times original level, but never more than 82dB. Has on/off volume control on earcups. Easily replaceable ear seals are filled with a liquid and foam combination to provide excellent sealing and comfort. 3-foot coiled cord assembly included. Adapter Cable required. Hardhat not included.
RMN4052B Tactical Headband Style Headset. Grey, Noise Reduction Rating = 24dB.
RMN4053B Tactical Hardhat Mount Headset. Grey, Noise Reduction Rating = 22dB.
RKN4094A Adapter Cable with In-Line Push-to-Talk
For use with RMN4052B/RMN4053A.

REPLACEMENT EARSEALS
RKN4923A Replacement Earseals for RMN4051B/RMN4052B/RMN4053A
Includes 2 snap-in earseals. Recommended replacement interval; once every 6 months to ensure constant level of attenuation, hygiene and comfort.

Hardhat Mount Headset
With Noise-Cancelling Boom Microphone
Ideal for two-way communication in high-noise environments, this headset mounts easily to hardhats with slots, or can be worn alone. Easily replaceable ear seals are filled with a liquid and foam combination to provide excellent sealing and comfort. 3-foot coiled cord assembly included. Noise reduction rating of 22dB. Adapter Cable required. Hardhat not included.
RMN4051B Two-way, Hardhat Mount Headset with Noise-Cancelling Boom Microphone
RKN4094A Adapter Cable with In-Line Push-to-Talk. For use with RMN4051B.

Medium Weight Headsets
Medium Weight Headsets offer high-clarity sound, with the additional hearing protection necessary to provide consistent, clear, two-way radio communication in harsh, noisy environments or situations.
HMN9021A Medium Weight, Dual-Muff, Over-the-Head Style Headset with In-line PTT
Noise Reduction Rating = 24dB.
HMN9022A Medium Weight, Dual-Muff, Behind-the-Head Style Headset
Can be worn with hardhat. Noise Reduction Rating = 24dB.
BDN6647G Medium Weight, Single-Muff Headset with Boom Microphone
Carrying Cases
A variety of carrying accessories are available for comfort and convenience. The carrying cases are available in sizes designed to fit radios with a battery and permit audio to be heard clearly.

**LEATHER CARRYING CASES**
- HLN9125B Hard Leather Case with Belt Loop - Standard models only.
- HLN9122B Hard Leather Case with Belt Loop - Compact models only.
- HLN9129B Hard Leather Case with Swivel - Standard model case with spacer included for use with compact models.

**DTMF CARRYING CASE**
- HLN9128B DTMF Leather Case with Swivel - Standard model case with spacer included for use with compact models.

**NYLON CARRYING CASES**
- HLN9126A Nylon Case with Belt Loop - Standard models only.
- HLN9127A Nylon Case with Belt Loop - Compact models only.

**Carrying Accessories**

**BELTS**
- 4200865599 1.75-Inch Wide Leather Belt - For all models.

**BELT CLIPS**
- HLN9724A 2.5-Inch Belt Clip
- HLN8255B Spring Action 3-Inch Belt Clip

**SWIVELLER**
- HLN9149AR Swivel Belt Loop Adapter

**STRAPS**
- 4280379E59 Replacement Strap For HLN9122A/HLN9125A/HLN9128A/HLN9129A.
- 4280379E58 Replacement Strap For HLN9122B/HLN9125B/HLN9128B/HLN9129B.
Chest Pack
Motorola Original® Universal Chest Pack protects radio and provides the freedom from holding it during standby communication mode. Universal Chest Pack fits virtually any radio.

- HLN6602A: Universal Chest Pack with Radio Holder, Pan Holder and Velcro Secured Pouch
- 1505596Z02: Replacement Strap for HLN6602A/RLN4570A

Break-A-Way Chest Pack
All the features of the original Universal Chest Pack (HLN6602A) plus break-a-way tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure.

- RLN4570A: Break-a-Way Chest Pack with Radio Holder, Pan Holder and Velcro Secured Pouch
- 1505596Z02: Replacement Strap for RLN4570A/HLN6602A

Universal RadioPAK™
The RadioPAK is lightweight and comfortable. Worn around the waist, it keeps radios/phones at hand. It features a separate 6 x 8 inch zippered pouch for other on-the-job necessities. Adjustable, woven nylon belt fits both men and women.

- RLN4815A: RadioPAK Radio/Utility Case
- 4280384F89: RadioPAK Extension Belt. For waists larger than 40 inches.

Waterproof Bag
HLN9985B: Waterproof Bag with Large Strap

Portable Radio Hangers
Portable Radio Hangers slide over and hang from the vehicle panel. Radio belt clip required.

- TDN9327A: Portable Radio Hanger. For door panels up to 2.75 inches.
- TDN9327A: Portable Radio Hanger. For door panels 2.75 to 3.25 inches.

Universal Holders
A great solution for forklift operators! The gooseneck bracket can be mounted inside the forklift and the height adjusted for each driver. The Wheelchair Quick Release can be easily mounted to a wheelchair. Accommodates any Motorola radio.

- RLN4943A: Universal Holder with Gooseneck Bracket
- RLN4944A: Wheelchair Quick Release Assembly
- RLN4945A: Universal Holder with Gooseneck Bracket and Wheelchair Quick Release Assembly
Construction sites are often the natural enemy of electronic equipment, which makes it important that carry cases are a custom fit for two-way radios. With Motorola Original® accessories, there’s no “good enough” — workers can trust their radio investment to be securely protected.

**Batteries**

- HNN9044AR: NiCD Battery, 550 mAh, 7.2 Volt - Compact radio models.
- HNN9018AR: NiCD Battery, 1200 mAh, 7.5 Volt - Standard radio models.

**Single-Unit, Rapid Rate Chargers**

Single-Unit Chargers are available in either desktop or compact styles for small system users. These chargers are designed to meet requirements of batteries manufactured by Motorola.

- HTN9013B: 3-Hour Desktop Charger, 120 Volt*
- HTN9015B: 3-Hour Desktop Charger, European Plug, 220 Volt*
- HTN9059A: 3-Hour Desktop Charger, UK Plug, 220 Volt*

**Single-Unit, Standard Rate Chargers**

Single-Unit Chargers are available in either desktop or compact styles for small system users. These chargers are designed to meet requirements of batteries manufactured by Motorola.

- HTN9014C: 10-Hour Desktop Charger, 120 Volt*
- HTN9016C: 10-Hour Desktop Charger, European Plug, 220 Volt*
- HTN9058B: 10-Hour Desktop Charger, UK Plug, 240 Volt*

**WALL CHARGING ADAPTERS**

- HTN9057A: Wall Charging Adapter, 240 Volt**
- HTN8232A: Wall Charging Adapter, 120 Volt**
- HTN9002A: Wall Charging Adapter, European Plug, 220 Volt**

**Multi-Unit Chargers**

Multi-Unit Chargers can be wall or rack mounted and are ideal for multiple shift operations. They can charge up to 6 batteries simultaneously and are available in a variety of voltages for domestic and international applications.

- HTN9067B: 6-Pocket, 3-Hour Multi-Unit Charger, 120 Volt
- HLN9090B: 6-Pocket Charger Conversion Kit, 120 Volt For use with HTN9013B
- HTN9068A: 6-Pocket, Rapid Rate, Multi-Unit Charger Euro Plug, 220 Volt
- HLN9091A: 6-Pocket Charger Conversion Kit, 220 Volt For use with HTN9015B
- HTN9070A: 6-Pocket, Rapid Rate, Multi-Unit Charger UK Plug, 240 Volt
- HLN9200A: 6-Pocket Charger Conversion Kit, UK Plug, 240 Volt For use with HTN9059A
- HLN9293A: Wall Mount Bracket for Multi-Unit Chargers

*Charging adapter HTN8232 is not recommended for SP50 standard models due to charging time of 18-20 hours.

**Charging time: 18-20 hours for standard and 10 hours for compact radios.
Motorola Conditioning Charger (MCC)
The MCC features Instant Fault Detection technology that detects faulty batteries in seconds. You’ll know right away when a battery won’t operate at peak performance - saving you time and trouble. Each unit rapidly charges NiCD and NiMH batteries, and optimizes battery performance. Its patented negative pulse charging process minimizes overheating and overcharging, extending useful battery life. Batteries can be left on the charger for extended periods of time, without worry of heat buildup. Optional accessories are available that allow the MCC to be used in both AC and DC environments - that’s flexibility.

WPPN4002BR Base Charge Unit, 110 Volt AC. Order adapter plates separately.
WPPN4005AR Base Charge Unit, 220 Volt AC. Order adapter plates separately.
WPPN4065BR Multi-Unit Conditioning Charger, 4-Station Base, 110 Volt Order adapter plates separately.
WPPN4006BR Adapter Plate, 7 Volt
WPLN4092BR Motorola Conditioning Charger Kit, 110 Volt AC. Includes base unit and 7 volt adapter.
WPLN4093BR Motorola Conditioning Charger Kit, 220 Volt AC. Includes base unit and 7 volt adapter.

Vehicular Mounting
RLN4814A Vehicular Mounting Bracket and Hard Wire Cable for Single-Unit MCC
3080384M21 Includes DC Hard Wire Cable 3080384M21.

Vehicular Power Adapter
3080384G15 Vehicular Power Adapter
Battery Maintenance SystemPLUS (BMSPLUS)
Increase the useful life of batteries. Interchangeable adapter plates are available to accommodate most Motorola two-way radio batteries, including NiCD, NiMH and Li-ion chemistries. The BMSPLUS is capable of charging, analyzing, conditioning and cycle testing, tracking battery voltage and capacity (mAh). Easy-to-use design supports hundreds of two-way, cellular batteries as well as camcorder batteries with printer port* (Serial-RS-232C port - female 9-pin to male 25-pin cable). 3 year warranty.

WPLN4079BR 6-Station BMSPLUS, 110 Volt AC, 50/60 Hz
WPLN4080BR 6-Station BMSPLUS, 230 Volt AC, 50/60 Hz
NDN4005B 3-Station BMSPLUS, 110 Volt AC, 50/60 Hz
NDN4006B 3-Station BMSPLUS, 230 Volt AC, 50/60 Hz
WPPN4085AR BMSPLUS Li-ion Field Upgrade Kit
*Compatible with the STAR Micronics SP200 series printers and other printers with STAR printer emulation. STAR Micronics printers are available through STAR Micronics distributors.

Battery Maintenance SystemPLUS Adapter
TDN9447A Standard Adapter. For use with HNN9044A and HNN9018A batteries.

Battery Optimizing System II (BOS II)
No other battery analyzer matches the speed, accuracy, versatility and ease-of-use of the BOS II. New enhancements include new navigation keys and an improved, more intuitive menu system. Regular use of the BOS II can optimize battery performance and help extend battery life, reducing battery replacement costs.

WPLN4124AR BOS II 4-Station Reconditioner,
110-240 Volt AC, 50/60 Hz
Ships with US line cord.

• Supports NiCD, NiMH, Li-ion, and SLA batteries
• Increased power-programmable from 100 mAh to 4 Amps per station
• Programmable adapters allow customization of maintenance routines
• Proprietary reduction cycle restores NiCD and NiMH batteries
• Printer output for reports and labels with computer interface (Includes both 9-pin serial and 25-pin parallel ports)
• Universal Power Supply (110-240 VAC)
• Improved processing power and testing resolution, including a 3 minute Quicktest
• Interchangeable adapters accommodate nearly all major batteries

BOS Battery Adapter
RL-71292 Adapter for HNN9044AR and HNN9018AR NiCD Batteries
antennas

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

- NAE6522AR  UHF Heliflex Stubby Antenna, 438-470 MHz
- NAD6502AR  VHF Heliflex Whip Antenna, 146-174 MHz

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

- NAE6483AR  UHF Flexible Whip Antenna, 403-512 MHz

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

- HAD9742A  VHF Stubby Antenna, 146-162 MHz
- HAD9743A  VHF Stubby Antenna, 162-174 MHz
Education

A Lightweight Headset helps make it convenient and comfortable to manage administration duties or contact colleagues from across the campus.

Security

From crowd control to answering an alarm signaling illegal entry, a Remote Speaker Microphone lets security professionals respond instantly without need to reach for the radio controls.

Hospitality

Whether coordinating staff for a conference or making a room change for a last-minute guest, a Surveillance Kit with Comfort Earpiece helps keep hands free for the keyboard or clipboard.

Retail

Great customer service is all about quick response, and Carrying Accessories can help assure employees have their radios handy when someone needs a quick price check or has a stocking question.
Programmable channel operation makes P1225 and P1225-LS two-way radios easily customizable for changing needs. And these radios can be further tailored for specific work situations with companion Motorola Original® accessories.
Remote Speaker Microphone (RSM)
The Remote Speaker Microphone is a water-resistant, compact unit that allows the user to talk and listen without removing the radio from the belt, case or charger. Ideal for moderate noise level environments. It has a 6-foot coiled cord, Push-to-Talk switch and swivel clip on back of unit housing.

HMN9030A* Remote Speaker Microphone
HKN9094A Replacement Coiled Cord for HMN9030A

Surveillance Kits
Surveillance accessories allow the radio user to privately receive messages with the earpiece. They are ideal when environments require discreet communication.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMN9772B*</td>
<td>Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.</td>
</tr>
<tr>
<td>RLN4894A</td>
<td>Receive-Only Earpiece with Standard Earphone (1-Wire). Black.</td>
</tr>
</tbody>
</table>

Surveillance Kits - With Extended-Wear Comfort Earpiece
These kits include an extended-wear comfort earpiece that has a rubber eartip and clear, comfortable acoustic tube. Users hear transmissions clearly, while the clear tube provides a discreet appearance.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
</table>

Noise Kits
Extreme Noise Kits provide extra comfort and/or noise protection for users wearing surveillance accessories. Lightweight, translucent tube attaches to Motorola surveillance accessories to provide flexibility and comfort. Clothing clip prevents accessory from being pulled from the ear due to body movement or head rotation. For optimal performance, Extra Loud Earphones are recommended for Noise Kits.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTN8370A</td>
<td>Extreme Noise Kit. Includes 2 foam earplugs. For high noise environments, provides 24dB of noise reduction. Can be used with Clear Comfortable Earpieces, sold separately.</td>
</tr>
<tr>
<td>NTN8371A</td>
<td>Low Noise Kit - Clear Acoustic Tube Assembly. Includes 1 rubber eartip. For low noise environments, does not provide hearing protection.</td>
</tr>
<tr>
<td>5080370E91†</td>
<td>Extra Loud Earphone. Black.</td>
</tr>
</tbody>
</table>

Clear Comfortable Earpieces
The Clear Comfortable Earpiece forms to the inside of the ear and is perfect for low noise environments. It's made of easy-to-clean, chemically-inert hypo-allergenic material. Compatible with NTN8371A and all Motorola Surveillance Kits (1, 2, and 3-wire).

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLN4760A</td>
<td>Small Custom Earpiece - Right Ear</td>
</tr>
<tr>
<td>RLN4761A</td>
<td>Medium Custom Earpiece - Right Ear</td>
</tr>
<tr>
<td>RLN4762A</td>
<td>Large Custom Earpiece - Right Ear</td>
</tr>
<tr>
<td>RLN4763A</td>
<td>Small Custom Earpiece - Left Ear</td>
</tr>
<tr>
<td>RLN4764A</td>
<td>Medium Custom Earpiece - Left Ear</td>
</tr>
<tr>
<td>RLN4765A</td>
<td>Large Custom Earpiece - Left Ear</td>
</tr>
</tbody>
</table>

† Extra Loud Earphone exceeds OSHA limits.
*Intrinsically Safe.
discreet communication...

**RLN4922A Completely Discreet Earpiece**

The Completely Discreet Earpiece is easy to use, just remove the earpiece from any standard 2 or 3-wire Surveillance Kit and plug in the neckloop, which is easily hidden under clothing. Security personnel will be able to wear this tiny receiver comfortably for hours at a time!

**Completely Discreet Wireless Earpiece Kit**

Enables users to communicate with ease, in full privacy, without visible equipment. This miniaturized receiver is discreetly hidden in the ear, where it can be worn comfortably for long periods of time. Small as it is, it offers a full range of audio functions including automatic squelch, automatic gain control and noise filtering. Average battery life is approximately 100 hours and includes an end-of-life warning signal when the battery needs to be changed. Kit includes wireless receiver, inductive neckloop, 6 spare batteries and 5 spare earguards. For use with any standard 2 or 3-wire Motorola Surveillance Kit.

- RLN4922A Completely Discreet Earpiece Kit
- RLN4919A Replacement Earguards, 5 per pack.
- RNN4005A Replacement 1.4 Volt Batteries, 6 per pack.

**Ear Microphone Systems (EMS)**

This compact, lightweight unit picks up sound through bone vibrations in the ear canal. The miniature earpiece leaves the hands free and face unobscured, good for rescue and emergency personnel that must retain the ability to help, hear and speak directly to others...those not on the communication system. EMS may be worn with protective masks without reduction in clarity of sound. It’s ideal for high noise environments.

- BDN6646C* Standard EMS with Push-to-Talk Interface Module
  - For noise levels up to 95dB.
- BDN6706B* Standard EMS with Voice-Activated Interface Module
  - For noise levels up to 95dB.

**Optional Accessories for the EMS**

- 0180300E25 Earguard with Adjustable Loop
- 0180358B38* Remote Push-to-Talk Ring Switch
- 0180358B32 Remote Push-to-Talk Body Switch
- 0180358B34 Earholder. Black, size large. Secures Ear Microphone in ear.
- 4280369E44 Replacement Belt Clip with Screws

**Pellet Style Earpieces**

These pellet style earpieces allow users to receive communication discreetly and are comfortable for extended wear.

- HMN9132A Receive-Only Earbud
- HMN9036A Earbud with Clip Microphone and Push-to-Talk

*Intrinsically Safe.
The same winning quality
and dependability you see
at professional football
stadiums and motor
speedways can be yours
with Motorola Original®
accessories.

Racing teams like
CART® use the
Racing Headset
in the pits for
dependable
communication.

**NFL® Style Headsets**
NFL Style Headsets are similar to the headsets worn by Coaching Staff in the NFL.

- **RLN5238B** Single-Muff, Lightweight Headset with Swivel Boom Microphone
- **RMN5047A** Single-Muff, Heavy-Duty Headset with Swivel Boom Microphone

**Racing Headset**
This heavy-duty headset can be worn with most hardhats. Ideal for high-noise environments; racing teams like CART® use it in the pits for dependable communication. Adapter Cable required.

- **RMN5015A** Racing Headset with Noise-Cancelling Swivel Boom Microphone
  - Behind-the-Head style.
  - Noise Reduction Rating = 24dB.
- **RKN4090A** Adapter Cable for RMN5015A
Immediate communication...

Flexible Ear Receiver
This receive-only earpiece contains a flexible earloop and speaker which rests external to the ear. Black, without volume control.

BDN6720A Flexible Ear Receiver
7580372E11 Replacement Foam Ear Cushion for BDN6720A

Ultra-Lite Earpiece
Small and lightweight, this earpiece clips comfortably to the ear. Features boom microphone and In-line Push-to-Talk.

PMMN4001A Ultra-Lite Earpiece

Lightweight Headsets
Lightweight Headsets allow for high-clarity, discreet two-way communication, while maintaining the comfort necessary for extended wear in moderate noise environments. No adapter required.

RLN5411A Ultra-Light, Behind-the-Head Headset with Boom Microphone and In-line Push-to-Talk
RMN4016A* Single-Muff, Adjustable, Lightweight Headset with Boom Microphone and In-line Push-to-Talk
HMN9013B* Single-Muff, Adjustable, Lightweight Headset with Boom Microphone
REX4648A Replacement Foam Earpad and Windscreen Kit For HMN9013B and RMN4016A.

*Intrinsically Safe.
Medium Weight Headsets offer high-clarity sound, with the additional hearing protection necessary to provide consistent, clear, two-way radio communication in harsh, noisy environments or situations.
Noise-Cancelling Headsets with Boom Microphone

Ideal for two-way communication in extremely noisy environments. Dual-muff, tactical headsets include 2 microphones on outside of earcups which reproduce ambient sound back into headset. Harmful sounds are suppressed to safe levels and low sounds are amplified up to 5 times original level, but never more than 82dB. Has on/off volume control on earcups. Easily replaceable ear seals are filled with a liquid and foam combination to provide excellent sealing and comfort. 3-foot coiled cord assembly included. Adapter Cable required. Hardhat not included.

RMN4052B  Tactical Headband Style Headset. Grey, Noise Reduction Rating = 24dB.
RMN4053B  Tactical Hardhat Mount Headset. Grey, Noise Reduction Rating = 22dB.
RKN4094A  Adapter Cable with In-Line Push-to-Talk
            For use with RMN4052B/RMN4053A.

REPLACEMENT EARSEALS
RKN4923A  Replacement Earseals for RMN4051B/RMN4052B/RMN4053A
            Includes 2 snap-in earseals. Recommended replacement interval; once every 6
            months to ensure constant level of attenuation, hygiene and comfort.

Hardhat Mount Headset
With Noise-Cancelling Boom Microphone

Ideal for two-way communication in high-noise environments, this headset mounts easily to hardhats with slots, or can be worn alone. Easily replaceable ear seals are filled with a liquid and foam combination to provide excellent sealing and comfort. 3-foot coiled cord assembly included. Noise reduction of 22dB. Adapter Cable required. Hardhat not included.

RMN4051B  Two-way, Hardhat Mount Headset with Noise-Cancelling Boom Microphone
RKN4094A  Adapter Cable with In-Line Push-to-Talk. For use with RMN4051B.

Medium Weight Headsets

Medium Weight Headsets offer high-clarity sound, with the additional hearing protection necessary to provide consistent, clear, two-way radio communication in harsh, noisy environments or situations.

HMN9021A  Medium Weight, Dual-Muff, Over-the-Head Style Headset with In-line PTT
            Noise Reduction Rating = 24dB.
HMN9022A  Medium Weight, Dual-Muff, Behind-the-Head Style Headset
            Can be worn with hardhat. Noise Reduction Rating = 24dB.
BDN6647G  Medium Weight, Single-Muff Headset with Boom Microphone

Heavy-Duty Headset

This Heavy-Duty Headset includes a noise-cancelling boom microphone and can be worn with or without a hardhat. The Push-to-Talk switch is located on the earcup. On voice-activated models, the VOX module is contained within the headset.

BDN6648C  Heavy-Duty, Behind-the-Head Style Headset, with Noise-Cancelling Boom Microphone. Noise Reduction Rating = 24dB.
Workplaces are often the natural enemy of electronic equipment — which makes it important that carry cases are a custom fit for two-way radios. With Motorola Original® accessories, there’s no “good enough” — workers can trust their radio investment to be securely protected.

### Carrying Cases

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

**LEATHER CARRYING CASES**
- HLN9417A Standard Leather Case with Belt Loop and D-Rings
  - For use with Shoulder Strap.
- HLN9323A Standard Leather Case with Swivel
- HLN9238A DTMF Display Leather Case with Swivel
- HLN9239A DTMF Display Leather Case with Belt Loop and D-Rings
  - For use with Shoulder Strap. Fits P1225+LS full and keypad models.

**DTMF CARRYING CASES**
- HLN9238A DTMF Display Leather Case with Swivel
- HLN9239A DTMF Display Leather Case with Belt Loop and D-Rings
  - For use with Shoulder Strap. Fits P1225+LS full and keypad models.

**NYLON CARRYING CASES**
- HLN9416A Nylon Case with Belt Loop

### Carrying Accessories

**BELTS**
- BELTS
- HLN9724A 2.5-Inch Belt Clip
- HLN8255B Spring Action 3-Inch Belt Clip
- HLN9035A Replacement 2.5-Inch Swivel Belt Loop
  - For HLN9416A, HLN9417A, HLN9323A, HLN9239A.
- 4205857B01 Replacement 3-Inch Swivel Belt Loop
  - For HLN9416A, HLN9417A, HLN9323A, HLN9239A.

**BELT CLIPS**
- BELT CLIPS
- HLN9724A 2.5-Inch Belt Clip
- HLN8255B Spring Action 3-Inch Belt Clip
- HLN9035A Replacement 2.5-Inch Swivel Belt Loop
  - For HLN9416A, HLN9417A, HLN9323A, HLN9239A.
- 4205857B01 Replacement 3-Inch Swivel Belt Loop
  - For HLN9416A, HLN9417A, HLN9323A, HLN9239A.

**BELT LOOPS**
- BELT LOOPS
- NTN8039B 2.5-Inch Swivel Belt Loop. For leather cases.
- NTN8040B 3-Inch Swivel Belt Loop
- HLN9035A Replacement 2.5-Inch Swivel Belt Loop
  - For HLN9416A, HLN9417A, HLN9323A, HLN9239A.
- 4205857B01 Replacement 3-Inch Swivel Belt Loop
  - For HLN9416A, HLN9417A, HLN9323A, HLN9239A.

**WRIST STRAP**
- WRIST STRAP
- HLN8052A Wrist Strap
- HLN9149AR Swivel Belt Loop Adapter

**CARRYING STRAP**
- CARRYING STRAP
- NTN5243A Shoulder Carry Strap - Compatible with leather carry cases only.
- HLN9973A Replacement Strap for Nylon and Leather Cases
- HLN9974B Replacement Strap for Carrying Cases. Fits P1225+LS DTMF models.
- HLN9015A Replacement Strap for Leather Cases
  - For HLN9416A, HLN9417A, HLN9323A, HLN9239A.
**Chest Pack**
Motorola Original® Universal Chest Pack protects radio and provides the freedom from holding it during standby communication mode. Universal Chest Pack fits virtually any radio.

- HLN6602A Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
- 1505596202 Replacement Strap for HLN6602A/RLN4570A

**Break-A-Way Chest Pack**
All the features of the original Universal Chest Pack (HLN6602A) plus break-a-way tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure.

- RLN4570A Break-a-Way Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
- 1505596202 Replacement Strap for RLN4570A/HLN6602A

**Universal RadioPAK™**
More comfortable and stylish than conventional cases and holders. Worn around the waist, it features a separate 6 x 8 inch zippered pouch that holds on-the-job necessities like keys, pens and tools. Adjustable, woven nylon belt fits both men and women.

- RLN4815A RadioPAK Radio/Utility Case
- 4280384F89 RadioPAK Belt Lengthener. Fits waists larger than 40 inches.

**Waterproof Bag**
HLN9985B Waterproof Bag with Large Strap

**Portable Radio Hangers**
Portable Radio Hangers slide over and hang from the vehicle panel. Radio belt clip required.

- TDN9327A Portable Radio Hanger. For door panels up to 2.75 inches
- TDN9373A Portable Radio Hanger. For door panels 2.75 to 3.25 inches

**Universal Holders**
A great solution for forklift operators! The gooseneck bracket can be mounted inside the forklift and the height adjusted for each driver. The Wheelchair Quick Release can be easily mounted to a wheelchair. Accommodates any Motorola radio.

- RLN4943A Universal Holder with Gooseneck Bracket
- RLN4944A Wheelchair Quick Release Assembly
- RLN4945A Universal Holder with Gooseneck Bracket and Wheelchair Quick Release Assembly
Multi-Unit Chargers

can charge up to
6 batteries
simultaneously and are
available in a variety
of voltages.

**Batteries**

**PREMIUM NICKEL CADMIUM - NiCD**

- HNN9049A NiCD Battery, 1200 mAh, 7.5 Volt
- HNN9050A NiCD Battery, 1200 mAh, 7.5 Volt. Intrinsically Safe.
- HNN9051A NiMH, 1400 mAh, 7.5 Volt. Compatible only with Intellichargers.

**PREMIUM NICKEL METAL HYDRIDE - NiMH**

- HNN9051A NiMH, 1400 mAh, 7.5 Volt. Compatible only with Intellichargers.

**Single-Unit, Rapid Rate Chargers**

Single-unit Chargers are available in either desktop or compact styles for small system users. These chargers are designed to meet requirements of batteries manufactured by Motorola.

- HTN9042A Single-Unit Intellicharger, 110 Volt
- HTN9043A Single-Unit Intellicharger, European Plug, 220 Volt
- HTN9044A Single-Unit Intellicharger, UK Plug, 240 Volt

**Vehicular Charging Bracket**

For use with rapid rate chargers HTN9042, HTN9630, HTN9802 or HTN9803.

- HLN9719A Vehicular Charger Adapter/Bracket, 12 Volt

**Single-Unit, Standard Rate Chargers**

Single-Unit Chargers are available in either desktop or compact styles for small system users. These chargers are designed to meet requirements of batteries manufactured by Motorola.

- HTN9702A 10-Hour Standard Rate Charger, 110 Volt
- HTN9804A 10-Hour Standard Rate Charger, European Plug, 220 Volt
- HTN9805A 10-Hour Standard Rate Charger, UK Plug, 240 Volt

**Multiple-Unit Chargers (MUC)**

Multiple-Unit Chargers can be wall or rack mounted and are ideal for multiple shift operations. They can charge up to 6 batteries simultaneously and are available in a variety of voltages for domestic and international applications.

- HTN9748C 6-Pocket, 1-Hour Rapid Rate Charger
  - 120 Volt - NiCD only
- HTN9811C 6-Pocket, 1-Hour Rapid Rate Charger
  - 220 Volt - NiCD only
- HTN9812C Charger, European Plug, 220 Volt
  - For use with NiCD batteries
- HTN9060A 6-Pocket, 1-Hour Rapid Rate Charger
  - 110 Volt - NiCD only
- HTN9061A 6-Pocket, 90-Minute Rapid Rate Charger
  - 220 Volt - NiCD only

**WALL MOUNT BRACKETS**

- HLN9203A Wall Mount Bracket
  - For 90-Minute Multi-Unit Charger
- HLN9944A Wall Mount Bracket for Multi-Unit Chargers
Motorola Conditioning Charger (MCC)
The MCC features Instant Fault Detection technology that detects faulty batteries in seconds. You’ll know right away when a battery won’t operate at peak performance - saving you time and trouble. Each unit rapidly charges NiCD and NiMH batteries, and optimizes battery performance. It’s patented negative pulse charging process minimizes overheating and overcharging, extending useful battery life. Batteries can be left on the charger for extended periods of time, without worry of heat buildup. Optional accessories are available that allow the MCC to be used in both AC and DC environments - that’s flexibility.

- WPPN4002BR Base Charge Unit, 110 Volt AC. Order adapter plates separately.
- WPPN4006AR Base Charge Unit, 220 Volt AC. Order adapter plates separately.
- WPPN4065BR Multi-Unit Conditioning Charger, 4-Station Base, 110 Volt Order adapter plates separately.
- WPPN4020BR Adapter Plate, 7 Volt
- WPLN4084BR Motorola Conditioning Charger Kit, 110 Volt AC. Includes base unit and 7 volt adapter.
- WPLN4085BR Motorola Conditioning Charger Kit, 220 Volt AC. Includes base unit and 7 volt adapter.

With the MCC, you’ll know right away when a battery won’t operate at peak performance - saving time and trouble.

Vehicular Mounting
- RLN4814A Vehicular Mounting Bracket and Hard Wire Cable for Single-Unit MCC Includes DC Hard Wire Cable 80384M21.
- 3080384M21 DC Hard Wire Cable. For vehicular installation.
- 3080384G15 Vehicular Power Adapter Cord

Travel Charger
A great traveling companion that ensures constant communication while on the road. Allows rapid charging of the battery while using the radio. Users can talk immediately once the charger is connected and transmit from a previously “dead” battery in just 5 minutes. Includes voltage regulated adapter, custom charger base, mounting bracket and coil cord. Compatible with P1225, GP300, GTX, LTS2000 and P110 radios.

- RLN4833A Vehicular Travel Charger
- 0780384K84 Universal Mounting Bracket for RLN4833A. Includes screws and nylon cord.

TRAVEL CHARGER TRANSFORMERS
- 2580600E06 Transformer, European, 230 Volt. Allows AC indoor use.
- 2580600E08 Transformer, Argentina, 220 Volt. Allows AC indoor use.
**Battery Maintenance System** PLUS (BMS PLUS)
Increase the useful life of batteries. Interchangeable adapter plates are available to accommodate most Motorola two-way radio batteries, including NiCD, NiMH and Li-ion chemistries. The BMS PLUS is capable of charging, analyzing, conditioning and cycle testing, tracking battery voltage and capacity (mAh). Easy-to-use design supports hundreds of two-way, cellular batteries as well as camcorder batteries with printer port* (Serial-RS-232C port - female 9-pin to male 25-pin cable). 3 year warranty.

**WPLN4079BR** 6-Station BMS PLUS, 110 Volt AC, 50/60 Hz
**WPLN4080BR** 6-Station BMS PLUS, 230 Volt AC, 50/60 Hz
**WPLN4085AR** BMS PLUS Li-ion Field Upgrade Kit.
Upgrades WPLN4079AR, WPLN4080AR, WPLN4081AR
**NDN4005B** 3-Station BMS PLUS, 110 Volt AC, 50/60 Hz
Does not support Li-ion or 3-cell batteries.
**NDN4006B** 3-Station BMS PLUS, 230 Volt AC, 50/60 Hz
Does not support Li-ion or 3-cell batteries.

**Battery Maintenance System** PLUS Adapter
**CDN6353A** Adapter, 7.5 Volt, 110 mAh. For use with HNN9049A and HNN9050A batteries.

**Battery Optimizing System II (BOS II)**
No other battery analyzer matches the speed, accuracy, versatility and ease-of-use of the BOS II. New enhancements include new navigation keys and an improved, more intuitive menu system. Regular use of the BOS II can optimize battery performance and help extend battery life, reducing battery replacement costs.

**WPLN4124AR** BOS II 4-Station Reconditioner, 110-240 Volt AC, 50/60 Hz
Ships with US line cord.

- Supports NiCD, NiMH, Li-ion, and SLA batteries
- Increased power-programmable from 100 mAh to 4 Amps per station
- Programmable adapters allow customization of maintenance routines
- Proprietary reduction cycle restores NiCD and NiMH batteries
- Printer output for reports and labels with computer interface (Includes both 9-pin serial and 25-pin parallel ports)
- Universal Power Supply (110-240 VAC)
- Improved processing power and testing resolution, including a 3 minute Quicktest
- Interchangeable adapters accommodate nearly all major batteries

**BOS Battery Adapter**
**RL-75830** Adapter for NiCD battery HNN9049A.
antennas

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

- 8505816K24  UHF Heliflex Stubby Antenna, 403-430 MHz
- NAE6522AR  UHF Heliflex Stubby Antenna, 440-470 MHz
- 8505816K26  UHF Heliflex Stubby Antenna, 470-512 MHz
- HAD9338AR  VHF Heliflex Antenna, 136-162 MHz
- NAD6502AR  VHF Heliflex Antenna, 146-174 MHz

**Tunable VHF**

HAD9728B  VHF Antenna Kit, 146-174 MHz

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

- NAE6483AR  UHF Flexible Whip Antenna, 403-512 MHz

**Stubby**
These stubby antennas are ideal when radio is worn on the belt because the short antenna is non-obtrusive.

- HAD9742A  VHF Stubby Antenna, 146-162 MHz
- HAD9743A  VHF Stubby Antenna, 162-174 MHz
Education
A Lightweight Headset helps make it convenient and comfortable to manage administration duties or contact colleagues from across the campus.

Security
From crowd control to answering an alarm signaling illegal entry, a Remote Speaker Microphone lets security professionals respond instantly without need to reach for the radio controls.

Hospitality
Whether coordinating staff for a conference or making a room change for a last-minute guest, a Surveillance Kit with Comfort Earpiece helps keep hands free for the keyboard or clipboard.

Retail
Great customer service is all about quick response, and Carrying Accessories can help assure employees have their radios handy when someone needs a quick price check or has a stocking question.

Flexible Ear Receiver - BDN6720A
This receive-only earpiece contains a flexible earloop and speaker which rests external to the ear.
flexible dependability...

Filled with convenience features from dual-mode capability to instant talk group identification, GTX two-way portable radios are flexible and dependable.

Add companion Motorola Original® accessories to help radio users be even more productive.
Remote Speaker Microphone (RSM)
The Remote Speaker Microphone is a water-resistant, compact unit that allows the user to talk and listen without removing the radio from the belt, case or charger. Ideal for moderate noise level environments. It has a 6-foot coiled cord, Push-to-Talk switch and swivel clip on back of unit housing.

- HMN9030A* Remote Speaker Microphone
- HKN9094A Replacement Coiled Cord for HMN9030A

Surveillance Kits
Surveillance accessories allow the radio user to privately receive messages with the earpiece. They are ideal when environments require discreet communication.

- HMN9727B Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.
- RLN4894A Receive-Only Earpiece with Standard Earphone (1-Wire). Black.

Surveillance Kits - With Extended-Wear Comfort Earpiece
These kits include an extended-wear comfort earpiece that has a rubber eartip and clear, comfortable acoustic tube. Users hear transmissions clearly, while the clear tube provides a discreet appearance.


Noise Kits
Extreme Noise Kits provide extra comfort and/or noise protection for users wearing surveillance accessories. Lightweight, translucent tube attaches to Motorola surveillance accessories to provide flexibility and comfort. Clothing clip prevents accessory from being pulled from the ear due to body movement or head rotation. For optimal performance, Extra Loud Earphones are recommended for Noise Kits.

- NTN8370A Extreme Noise Kit. Includes 2 foam earplugs. For high noise environments, provides 24dB of noise reduction. Can be used with Clear Comfortable Earpieces, sold separately.
- NTN8371A Low Noise Kit - Clear Acoustic Tube Assembly. Includes 1 rubber eartip. For low noise environments, does not provide hearing protection.
- 5080370E91 Extra Loud Earphone. Black.

Clear Comfortable Earpieces
The Clear Comfortable Earpiece forms to the inside of the ear and is perfect for low noise environments. It’s made of easy-to-clean, chemically-inert hypo-allergenic material. Compatible with NTN8371A and all Surveillance Kits (1, 2, and 3-wire).

- RLN4760A Small Custom Earpiece - Right Ear
- RLN4761A Medium Custom Earpiece - Right Ear
- RLN4762A Large Custom Earpiece - Right Ear
- RLN4763A Small Custom Earpiece - Left Ear
- RLN4764A Medium Custom Earpiece - Left Ear
- RLN4765A Large Custom Earpiece - Left Ear

*Extra Loud Earphone exceeds OSHA limits.
*Intrinsically Safe.
Completely Discreet Wireless Earpiece Kit
Enables users to communicate with ease, in full privacy, without visible equipment. This miniaturized receiver is discreetly hidden in the ear, where it can be worn comfortably for long periods of time. Small as it is, it offers a full range of audio functions including automatic squelch, automatic gain control and noise filtering. Average battery life is approximately 100 hours and includes an end-of-life warning signal when the battery needs to be changed. Kit includes wireless receiver, inductive neckloop, 6 spare batteries and 5 spare earguards. For use with any standard 2 or 3-wire Motorola Surveillance Kit.

- RLN4922A Complete Discreet Earpiece Kit
- RLN4919A Replacement Earguards, 5 per pack.
- RNN4005A Replacement 1.4 Volt Batteries, 6 per pack.

Flexible Ear Receiver
This receive-only earpiece contains a flexible earloop and speaker which rests external to the ear. Black, without volume control.

- BDN6720A Flexible Ear Receiver
- 7580372E11 Replacement Foam Ear Cushion for BDN6720A.

Lightweight Headsets
Lightweight Headsets allow for high-clarity, discreet two-way communication, while maintaining the comfort necessary for extended wear in moderate noise environments. No adapter required.

- RLN5411A Ultra-Light, Behind-the-Head Headset with Boom Microphone and In-line Push-to-Talk
- RMN4016A Single-Muff, Adjustable, Lightweight Headset with Boom Microphone and In-line Push-to-Talk
- HMN9013B Single-Muff, Adjustable, Lightweight Headset with Boom Microphone
- REX4648A Replacement Foam Earpad and Windscreen Kit for HMN9013B and RMN4016A.
## Carrying Accessories

### Carrying Cases

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLN9428A</td>
<td>DTMF Leather Case with Belt Loop - Standard battery.</td>
</tr>
<tr>
<td>HLN9873A</td>
<td>Leather Case with Swivel</td>
</tr>
<tr>
<td>HLN9429A</td>
<td>DTMF Leather Case with Belt Loop - FM approved 1100 mAh battery.</td>
</tr>
<tr>
<td>HLN9431A</td>
<td>DTMF Leather Case with Belt Loop - FM approved 600 mAh slim battery.</td>
</tr>
<tr>
<td>HLN9421A</td>
<td>DTMF Leather Case with High Activity Swivel Belt Loop - Standard battery.</td>
</tr>
<tr>
<td>HLN9720A</td>
<td>DTMF Leather Case with Belt Loop and D-Rings</td>
</tr>
<tr>
<td>HLN9426A</td>
<td>DTMF Leather Case with High Activity Swivel Belt Loop For FM approved 1100 mAh battery.</td>
</tr>
<tr>
<td>HLN9427A</td>
<td>DTMF Leather Case with High Activity Swivel Belt Loop For FM approved 600 mAh battery.</td>
</tr>
</tbody>
</table>

### Carrying Accessories

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLN9076B</td>
<td>Molded Carry Holder - High capacity battery.</td>
</tr>
<tr>
<td>HLN9724A</td>
<td>2.5-Inch Belt Clip</td>
</tr>
<tr>
<td>HLN8255B</td>
<td>Spring Action 3-Inch Belt Clip</td>
</tr>
<tr>
<td>TDN1002A</td>
<td>Swiveller. Includes holster belt and strap.</td>
</tr>
<tr>
<td>TDN1003A</td>
<td>Spare Swiveller Button</td>
</tr>
<tr>
<td>HLN9149AR</td>
<td>Swiveller Belt Loop Adapter. For HLN9421A, HLN9426A, HLN9427A.</td>
</tr>
<tr>
<td>HLN9975A</td>
<td>Strap for DTMF. Snap closure.</td>
</tr>
<tr>
<td>NTN5243A</td>
<td>Adjustable Black Carrying Strap. Attaches to D-Ring on case.</td>
</tr>
</tbody>
</table>
**HLN6602A**
Universal-fit Chest Pack is a comfortable solution for keeping any two-way radio handy.

**Chest Pack**
Motorola Original® Universal Chest Pack protects radio and provides the freedom from holding it during standby communication mode. Universal Chest Pack fits virtually any radio.

- **HLN6602A** Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
- **1505596Z02** Replacement Strap for HLN6602A/RLN4570A

**Break-A-Way Chest Pack**
All the features of the original Universal Chest Pack (HLN6602A) plus break-a-way tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure.

- **RLN4570A** Break-a-Way Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
- **1505596Z02** Replacement Strap for RLN4570A/HLN6602A

**Universal RadioPAK™**
More comfortable and stylish than conventional cases and holders. Worn around the waist, it features a separate 6 x 8 inch zippered pouch that holds on-the-job necessities like keys, pens and tools. Adjustable, woven nylon belt fits both men and women.

- **RLN4815A** RadioPAK Radio/Utility Case
- **4280384F89** RadioPAK Extension Belt. For waists larger than 40 inches.

**Waterproof Bag**
HLN9985B Waterproof Bag with Large Strap

**Portable Radio Hangers**
Portable Radio Hangers slide over and hang from the vehicle panel. Radio belt clip required.

- **TDN9327A** Portable Radio Hanger. For door panels up to 2.75 inches.
- **TDN9373A** Portable Radio Hanger. For door panels 2.75 to 3.25 inches.

**Universal Holders**
A great solution for forklift operators! The gooseneck bracket can be mounted inside the forklift and the height adjusted for each driver. The Wheelchair Quick Release can be easily mounted to a wheelchair. Accommodates any Motorola radio.

- **RLN4943A** Universal Holder with Gooseneck Bracket
- **RLN4944A** Wheelchair Quick Release Assembly
- **RLN4945A** Universal Holder with Gooseneck Bracket and Wheelchair Quick Release Assembly

**Accessory Clamp**
FLN8660A Accessory Clamp. Ensures secure connection for all audio accessories.
Construction sites are often the natural enemy of electronic equipment — which makes it important that carry cases are a custom fit for two-way radios.

With Motorola Original® accessories, there’s no "good enough" — workers can trust their radio investment to be securely protected.

Batteries

**PREMIUM NICKEL CADMIUM - NiCD**
- HNN8308A NiCD Battery, 600 mAh, 7.5 Volt, Slim
- HNN9628B NiCD Battery, 1200 mAh, 7.5 Volt
- HNN9701A NiCD Battery, 1100 mAh, 7.5 Volt, Intrinsically Safe
- HNN9808B NiCD Battery, 600 mAh, 7.5 Volt, Slim, Intrinsically Safe
- HNN8133C NiCD Battery, 1200 mAh, 7.5 Volt, Intrinsically Safe

**POWER NICKEL CADMIUM - NiCD**
- WPNN4044AR NiCD Battery, 1000 mAh, 7.5 Volt

Single-Unit, Rapid Rate Chargers

Single-Unit Intellichargers utilize an enhanced charging algorithm that helps maximize the life of batteries. They rapid charge both NiCD and NiMH batteries in approximately 1 hour.
- HTN9042A Single-Unit Intellicharger, 110 Volt*
- HTN9043A Single-Unit Intellicharger, European Plug, 220 Volt*
- HTN9044A Single-Unit Intellicharger, UK Plug, 240 Volt*

*90 minute charge time for NiCD and NiMH batteries.

Single-Unit, Standard Rate Chargers

Single-Unit Chargers are available in either desktop or compact styles for small system users. These chargers are designed to meet requirements of batteries manufactured by Motorola.
- HTN9702A 10-Hour Standard Rate Charger, 120 Volt
- HTN9804A 10-Hour Standard Rate Charger, European Plug, 220 Volt
- HTN9805A 10-Hour Standard Rate Charger, UK Plug, 240 Volt

Multiple-Unit Chargers (MUC)

Multiple-Unit Chargers can be wall or rack mounted and are ideal for multiple shift operations. They can charge up to 6 batteries simultaneously and are available in a variety of voltages for domestic and international applications.
- HTN9748C 6-Pocket, 1-Hour Rapid Rate Charger, 120 Volt - NiCD only.
- HTN9811C 6-Pocket, 1-Hour Rapid Rate Charger, 220 Volt - NiCD only.
- HTN9812C 6-Pocket, 1-Hour Rapid Rate Charger, 240 Volt - NiCD only.
- HTN9860A 6-Pocket, 1-Hour Rapid Rate Charger, 110 Volt - NiCD only.
- HTN9061A 6-Pocket, 90-Minute Rapid Rate Charger, 220 Volt - NiCD only.

**WALL MOUNT BRACKETS**
- HLN9293A Wall Mount Bracket for 90-Minute Multi-Unit Charger
- HLN9944A Wall Mount Bracket for Multi-Unit Chargers
Motorola Conditioning Charger (MCC)
The MCC features Instant Fault Detection technology that detects faulty batteries in seconds. You'll know right away when a battery won't operate at peak performance - saving you time and trouble. Each unit rapidly charges NiCD and NiMH batteries, and optimizes battery performance. It's patented negative pulse charging process minimizes overheating and overcharging, extending useful battery life. Batteries can be left on the charger for extended periods of time, without worry of heat buildup. Optional accessories are available that allow the MCC to be used in both AC and DC environments - that's flexibility.

- **WPPN4002BR**: Base Charge Unit, 110 Volt AC. Order adapter plates separately.
- **WPPN4006AR**: Base Charge Unit, 220 Volt AC. Order adapter plates separately.
- **WPPN4065BR**: Multi-Unit Conditioning Charger, 4-Station Base, 110 Volt. Order adapter plates separately.
- **WPPN4005CR**: Adapter Plate, 7 Volt
- **WPLN4088CR**: Motorola Conditioning Charger Kit, 110 Volt AC. Includes base unit and 7 volt adapter.
- **WPLN4089CR**: Motorola Conditioning Charger Kit, 220 Volt AC. Includes base unit and 7 volt adapter.

Vehicular Battery Eliminator
The Vehicular Battery Eliminator saves battery life by drawing power from a vehicle's battery. Simply replace the radio battery with the Battery Eliminator and then plug it into the vehicle power adapter.

- **HKN8036B**: Vehicular Charger Adapter/Bracket, 12 Volt

Vehicular Mounting

- **HLN9719A**: Vehicular Charger Adapter/Bracket, 12 Volt. For use with Rapid Rate Chargers HTN9830, HTN9802, HTN9803, HTN9167, HTN9160, HTN9169, HTN9042, HN9043 and HTN9044.
- **RLN4814A**: Vehicular Mounting Bracket and Hard Wire Cable for Single-Unit MCC. Includes DC Hard Wire Cable 3080384M21.
- **3080384M21**: DC Hard Wire Cable. For vehicular installation.
- **3080384G15**: Vehicular Power Adapter Cord

Travel Charger
A great traveling companion that ensures constant communication while on the road. Allows rapid charging of the battery while using the radio. Users can talk immediately once the charger is connected and transmit from a previously “dead” battery in just 5 minutes. Includes voltage regulated adapter, custom charger base, mounting bracket and coil cord. Compatible with P1225, GP300, GTX, LTS2000 and P110 radios.

- **RLN4833A**: Vehicular Travel Charger
- **0780384K84**: Universal Mounting Bracket for RLN4833A. Includes screws and nylon cord.

**TRAVEL CHARGER TRANSFORMERS**

- **2580600E05**: Transformer, US, 120 Volt. Allows AC indoor use.
- **2580600E06**: Transformer, European, 230 Volt. Allows AC indoor use.
- **2580600E07**: Transformer, UK, 230 Volt. Allows AC indoor use.
- **2580600E08**: Transformer, Argentina, 220 Volt. Allows AC indoor use.
Battery Maintenance System\textsuperscript{PLUS} (BMS\textsuperscript{PLUS})

Increase the useful life of batteries. Interchangeable adapter plates are available to accommodate most Motorola two-way radio batteries, including NiCD, NiMH and Li-ion chemistries. The BMS\textsuperscript{PLUS} is capable of charging, analyzing, conditioning and cycle testing, tracking battery voltage and capacity (mAh). Easy-to-use design supports hundreds of two-way, cellular batteries as well as camcorder batteries with printer port* (Serial-RS-232C port - female 9-pin to male 25-pin cable). 3 year warranty.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Voltage</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>WPLN4079BR</td>
<td>6-Station BMS\textsuperscript{PLUS}, 110 Volt AC, 50/60 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WPLN4080BR</td>
<td>6-Station BMS\textsuperscript{PLUS}, 230 Volt AC, 50/60 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WPPN4085AR</td>
<td>BMS\textsuperscript{PLUS} Li-ion Field Upgrade Kit</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Upgrades WPLN4079AR, WPLN4080AR, WPLN4081AR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NDN4005B</td>
<td>3-Station BMS\textsuperscript{PLUS}, 110 Volt AC, 50/60 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NDN4006B</td>
<td>3-Station BMS\textsuperscript{PLUS}, 230 Volt AC, 50/60 Hz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Compatible with the STAR Micronics SP200 series printers and other printers with STAR printer emulation. STAR Micronics printers are available through STAR Micronics distributors.

Battery Maintenance System\textsuperscript{PLUS} Adapters

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Voltage</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDN9437A</td>
<td>Adapter. For use with HNN9701A battery.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDN9662A</td>
<td>Adapter. For use with HNN9628A battery.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDN9438A</td>
<td>Adapter. For use with HNN8308A/HNN9808B batteries.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Battery Optimizing System II (BOS II)

No other battery analyzer matches the speed, accuracy, versatility and ease-of-use of the BOS II. New enhancements include new navigation keys and an improved, more intuitive menu system. Regular use of the BOS II can optimize battery performance and help extend battery life, reducing battery replacement costs.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Voltage</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>WPLN4124AR</td>
<td>BOS II 4-Station Reconditioner, 90-264 Volt AC, 50/60 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ships with US line cord.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Adapter plates required.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WPLN4125AR</td>
<td>BOS II 4-Station Reconditioner, 90-264 Volt AC, 50/60 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ships with European/UK line cord.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Adapter plates required.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Supports NiCD, NiMH, Li-ion, and SLA batteries
- Increased power-programmable from 100 mAh to 4 Amps per station
- Programmable adapters allow customization of maintenance routines
- Proprietary reduction cycle restores NiCD and NiMH batteries
- Printer output for reports and labels with computer interface (includes both 9-pin serial and 25-pin parallel ports)
- Universal Power Supply (110-240 VAC)
- Improved processing power and testing resolution, including a 3 minute Quicktest
- Interchangeable adapters accommodate nearly all major batteries

BOS Battery Adapter

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Voltage</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL-71683</td>
<td>Standard Adapter</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
antennas

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

- 8505241U03 Flexible Whip Antenna, 806-869 MHz
- 8505241U04 Flexible Whip Antenna, 896-941 MHz

Stubby
This quarterwave stubby antenna is ideal when radio is worn on the belt because the short antenna is non-obtrusive. This is a broadband antenna that can be used for both 800 MHz and 900 MHz applications.

- 8505241U06 Flexible Whip Antenna, 896-941 MHz
  Broadband, operates in 800/900 MHz band.
**Construction**
Forklift drivers come in different shapes and sizes, and a Gooseneck Mounting Bracket makes it easy to adjust the radio position for operator comfort.

**Delivery Services**
Hands-free operation is a must when new directions and instructions are incoming, and a Visor Microphone can help assure that couriers arrive on target and on time.

**Public Administration**
Crowd control is enhanced when everyone can hear what’s being said, and a Public Address Kit helps professionals get the word out loud and clear.

**Transportation Fleets**
Dispatchers have more important things to do than locating and mapping which vehicle is where — and our Global Positioning System options can automatically handle the task.
rugged operation...

With their lightweight and compact design, CM200/CM300 and PM400 two-way radios are handy performers in everyday situations. Add companion Motorola Original® accessories, and all radio users can be even more productive.
Clear communication is a matter of personal preference; some mobile radio users prefer handsets, some prefer microphones and some would rather not hold anything in their hands at all. So it’s good to know that Motorola makes it easy to suit the needs of drivers and passengers alike.

**Microphones and Accessories**

- **HMN1035C** Heavy-Duty Palm Microphone with 10.5-foot Coil Cord
  - Larger, designed for gloves
  - Ships standard with PM400 radios

- **HMN3413A** Compact Palm Microphone with 7-foot Coil Cord with Clip
  - Ships standard with PM400 radios

- **RMN5029A** Enhanced Keypad Microphone with 7-foot Coil Cord with Clip
  - Features backlit 12-digit with Clip DTMF keypad that generates tones needed to access telephone communication systems

- **HMN3596A** Compact Palm Microphone with 7-foot Coil Cord
  - Replacement compact microphone

- **AAREX4617A** Telephone-Style Handset
  - Includes cup and hardware

- **HLN9073B** Microphone Hang-Up Clip
  - Compatible with all Motorola microphones
  - Mounts in vehicle to secure mobile microphone
  - Installation required

- **HLN9414A** Universal Hang-Up Clip
  - Compatible with all Motorola microphones
  - No installation required

**External Speakers and Public Address Systems**

- **HSN8145B** External 7.5 Watt Speaker
  - For users in high-noise environments

- **RSN4001A** External 13 Watt Speaker
  - For extremely noisy environments

- **RLN5288A** Public Address Kit
  - Includes two cables for mobile connection to public address box and speaker cables
  - Requires HSN1000B speaker

- **HSN1000B** 6 Watt Amplified External Speaker
  - Required for use with RLN5288A

- **HKN9324AR** 15-Foot Public Address/Speaker Cable
  - One cable is required per speaker
Hands-Free Accessories

AARMN4027A Visor Microphone
For use with external Push-to-Talk accessories.
Provides wind noise reduction.
Requires RLN4857A, RLN4856A or RLN4858A for operation.

RLN4856A Foot Switch with Push-to-Talk
Mounts to vehicle floor, must be used with AARMN4027A.

RLN4857A Pushbutton with Push-to-Talk
Must be used with AARMN4027A.
PTT button can be held or mounted in vehicle.

RLN4858A Gooseneck Mount with Push-to-Talk
Mounts to steering column, must be used with AARMN4027A.

RLN4836AR Emergency Foot Switch
Sends a signal to the base station and activates the microphone.

Mounting Accessories

GLN7324A Low-Profile Mounting Bracket
Dash or floor mount.

GLN7317A High-Profile Mounting Bracket
Offers more clearance between dash and radio.
Dash or floor mount.

HLN9227A 8-Inch Gooseneck Mounting Bracket
Mounts inside the forklift, height adjustable for each driver.

RLN4779A Key Lock Mounting Bracket
Requires key to lock/unlock radio in mounting bracket.

HLN8097A Removable Slide Mount
Allows users to remove radio when they leave the vehicle.

Alarm Accessories

HLN9328C External Alarm Relay Cable - Horn and Lights

GLN7282A Alarm Buzzer Kit

Installation Accessories

HKN4137AR 15 Amp, 2 Volt, 1-45 Watt Low-Power Cable
Cable used to connect the battery to the radio chassis.

HKN4191B 20 Amp, 12 Volt, 40-60 Watt High-Power Cable
Cable used to connect the battery to the radio chassis.

HLN9242A 16-Pin Accessory Kit with Expanded Connector
Kit allows modification of existing 16-pin connector for enhanced reliability. Includes 9 wires with lugs, 1 connector housing, 16 crimping terminals, 2 tie straps and 1 extraction tool.

HKN9327BR Ignition Switch Cable with Housing Connector
Used to connect auto battery to radio, allows mobiles to turn on with ignition. Requires HLN9242.

Removable Slide Mount allows users to remove radio when they leave the vehicle.
The PM400 converts easily to a desktop base station when a desktop microphone and desktop tray are utilized.

**Control Station Accessories**
- HMN3000B: Desktop Microphone, Black
- RLN5391A: Desktop Tray without Speaker
- RLN5390A: Desktop Tray with Speaker
  - Allows for increased volume.
- HPN4002B: Power Supply and Cable (1-25 Watt Models)
  - For use with low-power radios.
- HPN4001B: Power Supply and Cable (25-60 Watt Models)
  - For use with high-power radios.

**Replacement Cables**
- HKN4139A: Power Cable of Low-Power Control Stations 12 Volt (1-25 Watt Models)
- HKN9455A: Power Cable of High-Power Control Stations 12 Volt (25-60 Watt Models)
Mobile Data Accessories
Mobile data accessories greatly expand the function and versatility of the CM and PM Series radios. Fleet dispatchers and drivers can benefit from several Global Positioning System options that can locate and map traveling vehicles. All of the necessary hardware and software is available from Motorola to truly customize the user’s capabilities.

Antennas
For optimum range and quality, it is important to match the CM and PM Series mobile radio’s frequency with the proper Motorola Original® antenna. Every unit needs one. Seven VHF and four UHF models are available for the various CM200/CM300 and PM400 configurations. These are available as standard 1/4 wave models or can include 3dB, 3.5dB or 5dB signal gain. A permanent roof mount antenna is a reliable and secure option. However, some users who periodically remove the radio from their vehicles may prefer a magnetic mount antenna.

**VHF ANTENNAS**
- HAD4006A 136-144 MHz, 1/4 Wave Roof Mount Antenna
- HAD4007A 144-152 MHz, 1/4 Wave Roof Mount Antenna
- HAD4008A 150.8-162 MHz, 1/4 Wave Roof Mount Antenna
- HAD4009A 162-174 MHz, 1/4 Wave Roof Mount Antenna
- RAD4000A 140-174 MHz, 3dB Gain Antenna Only
- HAD4014A 140-174 MHz, 3dB Gain Roof Mount
- RAD4000AMB 140-174 MHz, 3dB Gain Magnetic Mount

**UHF ANTENNAS**
- HAE4003A 450-470 MHz, 1/4 Wave Roof Mount Antenna
- TAE6053A 430-450 MHz 1/4 Wave Roof Mount Antenna
- RAE4004ARB 450-470 MHz, 5dB Gain Roof Mount Antenna
- RAE4004AMB 440-470 MHz, 5dB Gain Magnetic Mount Antenna
Transportation
Ease of operation is key in large fleets, and a Telephone-Style Handset offers a familiar and comfortable way for drivers to communicate.

Customer Service
One day you’re in the field. The next day has you behind a desk. A Low Power Control Station Package makes it easy to convert a GTX mobile radio for inside use.

Public Utilities
Worker safety has never been so important, and an External Alarm Relay Cable can help provide professionals with the peace of mind to go to whatever location the job requires.

Delivery Services
Hear one number wrong, and an important package won’t get where it’s needed on time. An External Speaker can help make everything clear under noisy conditions.

Microphones
- HMN3413A Standard Compact Microphone
- HMN3220B Compact Microphone with Hang Up Kit
- HMN4016A Noise-Cancelling Microphone
- HMN1035C Heavy-Duty Palm Microphone
- HMN3013A Non-Backlit Full Size DTMF Microphone
- AAREX4617A Telephone-Style Handset

Speakers
- HSN9326A External 5 Watt Speaker
- FSN5510A External 7.5 Watt Speaker

Cables
- GKN6270A Standard Power Cable
- GKN6271A Ignition Switch Cable
- HKN4191B Power Supply Cable
- GKN6272AR High Power (60W) power supply cable
- GLN7323A Emergency Foot Switch
- GKN6272AR External Alarm Relay Cable Kit

Alarms
- GLN7323A Emergency Foot Switch

Get the message across loud and clear with the External 7.5 Watt Speaker, FSN5510A.
GTX MOBILE

complete line of accessories...

Control Station and Accessories

HLN3067A - Low Power Control Station Package
Converts the GTX mobile for desktop use.
Perfect for dispatch. Includes adapter cable, base tray, black desk microphone, and power supply.

GLN7317A - Non-locking Bracket
GLN7318A - Desktop Tray Without Speaker.
For securing mobile in place.

HPN4002B - Control Station Power Supply, 1-25 watt.

HMN3000B - Desktop Microphone
HKN9088B - Adapter Cable

Low Profile Antennas

UHF
RAE4162A - White 410-430 MHz 3dB Gain Antenna
RAE4163A - Black 410-430 MHz 3dB Gain Antenna
RAE4164A - Black 430-450 MHz 3dB Gain Antenna
RAE4165A - White 430-450 MHz 3dB Gain Antenna
RAE4166A - Black 470-490 MHz 3dB Gain Antenna
RAE4167A - White 450-470 MHz 3dB Gain Antenna
RAE4168A - Black 450-470 MHz 3dB Gain Antenna
RAE4169A - White 470-490 MHz 3dB Gain Antenna

VHF
RAD4207A - White 150-168 MHz Unity Gain Antenna
RAD4208A - Black 150-168 MHz Unity Gain Antenna
RAD4209A - Black 142-160 MHz Unity Gain Antenna
RAD4210A - White 142-160 MHz Unity Gain Antenna

800 MHz
RAF4217A - White 821-896 MHz 3dB Gain Antenna
RAF4218A - Black 821-896 MHz 3dB Gain Antenna
RAF4219A - Black 806-866 MHz 3dB Gain Antenna
RAF4220A - White 806-866 MHz 3dB Gain Antenna

Low Profile Antenna Kits

UHF
RAE4162ARB - White 410-430 MHz 3dB Gain Roof Mount Antenna
RAE4163ARB - Black 410-430 MHz 3dB Gain Roof Mount Antenna
RAE4164ARB - Black 430-450 MHz 3dB Gain Roof Mount Antenna
RAE4165ARB - White 430-450 MHz 3dB Gain Roof Mount Antenna
RAE4166ARB - Black 470-490 MHz 3dB Gain Roof Mount Antenna
RAE4167ARB - White 450-470 MHz 3dB Gain Roof Mount Antenna
RAE4168ARB - Black 450-470 MHz 3dB Gain Roof Mount Antenna
RAE4169ARB - White 470-490 MHz 3dB Gain Roof Mount Antenna

VHF
RAD4207ARB - White 150-168 MHz Unity Gain Roof Mount Antenna
RAD4208ARB - Black 150-168 MHz Unity Gain Roof Mount Antenna
RAD4209ARB - Black 142-160 MHz Unity Gain Roof Mount Antenna
RAD4210ARB - White 142-160 MHz Unity Gain Roof Mount Antenna

800 MHz
RAF4217ARB - White 821-896 MHz 3dB Gain Roof Mount Antenna
RAF4218ARB - Black 821-896 MHz 3dB Gain Roof Mount Antenna
RAF4219ARB - Black 806-866 MHz 3dB Gain Roof Mount Antenna
RAF4220ARB - White 806-866 MHz 3dB Gain Roof Mount Antenna

Antenna Mounts

3080384M44 - Black Magnetic
With 12 feet of RG58A/U Cable, Mini-UHF Crimp Chrome Magnetic

3080384M45 - Black 12 feet of RG58A/U Cable, Mini-UHF Crimp 3/4 Roof Mount

3080384M48 - Black 17 feet of RG58A/U Cable, Mini-UHF Crimp Chrome Trunk Mount

3080384M46 - Black 17 feet of RG58A/U Cable, Mini-UHF Crimp Black Trunk Mount

3080384M47 - Black 17 feet of RG58A/U Cable, Mini-UHF Crimp
Transportation
Ease of operation is key in large fleets, and a Telephone-Style Handset offers a familiar and comfortable way for drivers to communicate.

Emergency Services
Crowd control is enhanced when everyone can hear what’s being said, and a Public Address Kit helps professionals get the word out loud and clear.

Public Utilities
Worker safety has never been so important, and an External Alarm Relay Cable can help provide professionals with the peace of mind to go to whatever location the job requires.

Delivery Services
Hear one number wrong, and an important package won’t get where it’s needed on time. An External Speaker can help make everything clear under noisy conditions.

Microphones and Accessories
- HMN3001A Compact Microphone with LED Indicator. Includes 10-foot cord and hang-up clip.
- HMN3008A Compact Microphone. Includes 10-foot cord and hang-up clip.
- HMN3174B Compact Microphone with TX LED Indicator. Includes 7-foot coil cord and hang-up clip.
- HMN1035C Heavy-Duty Palm Microphone. Comes with 10.5-foot coil cord.
- AAREX4617A Telephone-Style Handset Kit

Mic Jackets
Mic Jackets provide protection to the “head” of the remote speaker microphone, helping to keep it free from dust, dirt, metal particles and other on-the-job grime.
- RLN5023A Mic Jacket Kit. Compatible with HMN3174B.
- RLN5014A Mic Jacket Kit. Compatible with HMN1035C.
- RLN5018A Mic Jacket Kit. Compatible with HMN3008A.

Microphone Accessories
- HLN9559A 7-Foot Extended Coil Cord for Heavy-Duty Microphones
- HLN9560A 10.5-Foot Coil Cord for Microphones
- HLN9673B Microphone Hang-Up Clip. Compatible with all microphones.
- HLN9414A Universal Hang-Up Clip. Compatible with all microphones.
Control Station and Accessories

HPN9012A Control Station Power Supply, 1-25 Watt. 115 Volt AC only. For 25W mobiles only.
No control station cable needed.

HPN8393D Control Station Power Supply, Up to 45 Watt. 115/230 Volt AC only. Also compatible with GR300/GR400 repeaters.

HKN9018A Control Station Cable. Interfaces power cable to power supply cable. For HPN8383 only.

HMN3000B Desktop Microphone. Black.

HLN9226C Mobile Holder. Attaches mobiles to power supply.

HKN9088B Mobile Mini-U Antenna Adapter 8-foot cable.

Vehicular Power Adapter

HKN9407A Vehicular Power Adapter Available for models operating at 25W only.

Installation Accessories

HKN4137A HKN4137A 16-Pin Conductor Cable - same as HLN9989 (3-foot long enhanced connectors) Low Power Cable to Battery

HKN9327BR Ignition Switch Cable with Housing Connector SM60/SM120 mobiles require HLN9242A.

HKN9557A PL259/Mini-U Antenna Adapter – 8-Inch cable Not recommended for 800 MHz.

2880376E84 Mini-U Connector - For all bands.

HLN8027A Mini-UHF to BNC Adapter

HLN9242A 16-Pin Accessory Kit with Expanded Connector Allows existing 16-pin connector accessories to be modified for enhanced connector reliability when used with SM Series or M1225 mobiles. Includes 9 wires with lugs, 1 connector housing 16 crimping terminals, 2 tie straps and 1 extraction tool.

Mounting Accessories

HLN9617A Key Lock Mounting Bracket

HLN9154A Non-Locking Bracket Standard with SM Series and M1225 mobiles.

HLN9227A 8-Inch Goose Neck Mounting Bracket

HLN9162A 5-Inch Goose Neck Mounting Bracket

HLN9179A Quick Release Mounting Bracket

HLN9228A Clam Shell Mounting Bracket

HLN9408A Gooseneck Decor Sleeve Used to cover gooseneck and wires.

HLN9534A Right Angle Mini-UHF Connector

HLN9573A Shorting Plug Kit for Microphone Jack Covers microphone jack when radio is used as deskset.

Public Address Accessories

HLN3145BR Public Address Kit Requires HSN1000B. Includes 2 cables for connection to public address box to speaker cables.

HKN9324AR 15-Foot Public Address/Speaker Cable One cable needed per speaker.

HSN1000B 6 Watt Amplified Eternal Speaker for Public Address Minimum of 1 speaker required.

External Speaker

HSN9008A 7.5 Watt External Speaker with Accessory Connector. Modified for enhanced connection reliability when used with the SM Series. Provides higher output receiver audio.

Alarm Accessories

HLN9328C External Alarm Relay Cable - Horn and Lights

Low Band Antennas

VHF

HAD4006A 136-144 MHz 1/4 Wave Roof Mount Antenna

HAD4007A 144-152 MHz 1/4 Wave Roof Mount Antenna

HAD4008A 150-162 MHz 1/4 Wave Roof Mount Antenna

HAD4009A 162-174 MHz 1/4 Wave Roof Mount Antenna

HAD4014AR 140-174 MHz 3dB Gain Roof Mount Antenna

RAD4000AMBR 140-174 MHz 3dB Magnetic Mount Antenna

UHF

HAE4003A 450-470 MHz 1/4 Wave Roof Mount Antenna

HAE4004A 470-512 MHz 1/4 Wave Roof Mount Antenna

HAE4011A 450-470 MHz 3.5dB Gain Roof Mount Antenna

HAE4012A 470-512 MHz 3.5dB Gain Roof Mount Antenna

RAE4004ARB 470-490 MHz 5dB Gain Roof Mount Antenna

RAE4004AMBR 440-470 MHz 5dB Gain Magnetic Mount Antenna

ANTENNA ADAPTERS

HKN9557A Mini UHF to UHF Adapter Cable

2880376E84 Mini UHF Antenna Connector

HLN8027A Mini UHF to BNC Connector
We continually improve our products to ensure trouble-free performance.

Motorola two-way radios make them smaller, lighter, and more feature-rich.

But whichever radio you own, it's been built with Motorola's renowned quality — designed for long life, and engineered for trouble-free performance.

That's why even though a particular portable radio may be discontinued, we still support it with accessories that can help you make it as good as new.

Item No. Descriptions

Remote Speaker Microphones
- HMN9051: Remote Speaker Microphone with Coiled Cord and Swivel Clothing Clip
- HMN9031: Remote Speaker Microphone with Coiled Cord and Swivel Clothing Clip
- HMN9030: Remote Speaker Microphone with Coiled Cord and Swivel Clothing Clip

Ear Microphones and Accessories
- HMN9047: Ear Microphone with Voice Activated and Push-to-Talk Interface Module
- HMN9048: Ear Microphone with Push-to-Talk Interface Module
- BDN6706: Ear Microphone with Voice Activated and Push-to-Talk Interface Module
- BDN6646: Ear Microphone with Push-to-Talk Interface Module
- 018058BS3: Medium Earholder for Ear Microphone System (EMS)
- 018030EB3: Body Switch Push-to-Talk for Ear Microphone System (EMS)
- 018038BS8: Ring Switch Push-to-Talk for Ear Microphone System (EMS)

Audio Earpieces and Accessories
- HMN9040: Flexible Ear Receiver, Black - Earpiece without Volume Control
- HMN9727: Earpiece without Volume Control, Beige (1-Wire)
- HMN9433: Earpiece without Volume Control, Beige (1-Wire)
- HMN9043: Earpiece with Volume Control, (1-Wire)
- HMN9052: Earpiece with Volume Control, Beige (1-Wire)
- RHN4984: Earpiece without Volume Control, Black (1-Wire)
- HMN9042: Earpiece without Volume Control, (1-Wire)
- BDN6774: Ultra-Light Earpiece with Boom Microphone and In-Line PTT
- RLN5171: 2-Wire Comfort Earpiece with Combined Microphone and PTT, Beige
- GP350 requires Audio Adapter HNL9482.
- RHN518: 2-Wire Comfort Earpiece with Combined Microphone and PTT, Black
- GP350 requires Audio Adapter HNL9482.
- HMN9044: Earpiece with Microphone and Push-to-Talk Combined, (2-Wire)
- HMN9754: Earpiece with Microphone and Push-to-Talk Combined, Beige, (2-Wire)
- RHN4985: Earpiece with Microphone and Push-to-Talk Combined, Black, (2-Wire)
- NTN8370: Extreme Noise Kit. Noise Reduction Rating = 24dB.
- NTN8321: Low Noise Kit
- 50803872: Replacement Foam Plugs - Pack of 50. For use with NTN8370. Noise Reduction Rating = 24dB.
- 50803767: Replacement Rubber Ear Tips - Pack of 25.
- RHN4922: Completely Discreet Earpiece
- HLN9096: Audio Accessory Security Clamp

Headsets and Accessories
- RHN5411: Ultra-Light Headset, Behind-the-Head with In-Line PTT and Boom Microphone. GP350 requires Audio Adapter HLN9482.
- RHN5238: NFL Style Lightweight Headset. GP350 requires Audio Adapter HNL9482.
- RMN5047: NEL-Style Heavy-Duty Headset. GP350 requires Audio Adapter HNL9482.
- HMN9013: Lightweight, Adjustable Headset with Swivel Boom Microphone. GP350 requires Audio Adapter HNL9482.
- HMN9046: Lightweight, Adjustable Headset with Swivel Boom Microphone
- BDN673A: Lightweight, Adjustable Headset with Swivel Boom Microphone
- BDN6647: Medium Weight, Single-Muff Headset with Boom Microphone. GP350 requires Audio Adapter HNL9482.
- BDN6648: Heavy-Duty Headset with Noise-Cancelling Boom Microphone, Behind-the-Head (can be worn with hardhat) Noise Reduction Rating = 24dB. GP350 requires Audio Adapter HNL9482.
- RKN4030: Adapter Cable for Racing Headset RMN5015
- RKN4040: Replacement Windscreen and Foam Ear Pad for BDN673A, RMN4016 and HMN9013.
- 5080371E6: Replacement Ear Pads. For use with BDN6647.
- 5080371E9: Replacement Windscreen for Boom Microphone. For use with BDN6647.
- RMN4051: Two-way Hardhat Mount Headset. Noise Reduction = 22dB. GP300 Requires RKN4094, GP350 Requires RKN4096A.
- RMN4053: Noise-Cancelling Tactical Hardhat Mount Headset. Noise Reduction = 22dB. GP300 Requires RKN4094, GP350 Requires RKN4096A.
- RMN404A: Adapter Cable. Required for use with RMN4051, RMN4052 and RMN4053 - For GP300 radios.
- RKN4046A: Adapter Cable. Required for use with RMN4051, RMN4052 and RMN4053 - For GP350 radios.

Carrying Cases
- HLN8017A: Nylon Carrying Case. For fully approved FM 1200 mAh battery.
- HLN8019A: Nylon Carrying Case with Belt Loop
- HLN8036A: Nylon Carrying Case with Belt Loop
- HLN9758B: Nylon Carrying Case with Belt Loop
- HLN9225A: Standard Leather Carrying Case with Swivel
- HLN9241A: Leather Carrying Case with Belt Loop and D-Rings
- HLN9270A: Standard Leather Carrying Case with Belt Loop and D-Rings
- HLN9873A: Standard Leather Carrying Case with Swivel and D-Rings
- HLN8937A: Leather Carrying Case with Belt Loop
- HLN9417A: Leather Carrying Case with Belt Loop and D-Rings
- HLN8006A: Leather Carrying Case with Belt Loop and D-Rings. For fully approved FM 1200 mAh battery.
- HLN9046A: Leather Carrying Case with Swivel and D-Rings. For fully approved FM 1200 mAh battery.
- HLN9211A: Slim Leather Carrying Case with Belt Loop and D-Rings
- HLN9411A: DTMF Leather Carrying Case with Swivel and D-Rings
- HLN9017A: DTMF Leather Carrying Case with Swivel and D-Rings. For fully approved FM 1200 mAh battery.
- HLN9020A: DTMF Standard Leather Carrying Case with Belt Loop
- HLN9909A: DTMF Standard Leather Carrying Case with Belt Loop and D-Rings
- HLN9418A: DTMF Standard Leather Carrying Case with Swivel
<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>420085599</td>
<td>1.75-Inch Wide Leather Belt - For all models</td>
</tr>
<tr>
<td>HLN052A</td>
<td>Wrist Strap</td>
</tr>
<tr>
<td>NTLN423A</td>
<td>Shoulder Carrying Strap</td>
</tr>
<tr>
<td>HLN084A</td>
<td>Replacement Strap for Molded Holder HLN9976B</td>
</tr>
<tr>
<td>HLN073A</td>
<td>Replacement Strap for Leather Carrying Cases</td>
</tr>
<tr>
<td>HLN074B</td>
<td>Replacement Strap for Leather Carrying Cases</td>
</tr>
<tr>
<td>HLN076B</td>
<td>Molded Carrying Holder with 3-Inch Spring Action Belt Clip</td>
</tr>
<tr>
<td>HLN414A</td>
<td>Chest Pack Carrying Holder</td>
</tr>
<tr>
<td>HLN995B</td>
<td>Waterproof Bag - Includes Large Carrying Strap</td>
</tr>
<tr>
<td>HLN724A</td>
<td>2.5-Inch Belt Clip</td>
</tr>
<tr>
<td>RLPN255B</td>
<td>3-Inch Spring Action Belt Clip</td>
</tr>
<tr>
<td>PKLN4124A</td>
<td>Replacement Belt Clip</td>
</tr>
<tr>
<td>HLN5333A</td>
<td>Replacement Belt Clip 3-Inch</td>
</tr>
<tr>
<td>TDN1002A</td>
<td>Swiveller - Includes holder, belt and strap</td>
</tr>
<tr>
<td>HLN062A</td>
<td>Swivel Belt Loop Adapter</td>
</tr>
<tr>
<td>HLN035A</td>
<td>Replacement Swivel Belt Loop 2.5-Inch</td>
</tr>
<tr>
<td>HLN039B</td>
<td>Replacement Swivel Belt Loop 2.5-Inch</td>
</tr>
<tr>
<td>NTN040B</td>
<td>Replacement Swivel Belt Loop 2.5-Inch</td>
</tr>
<tr>
<td>TDN1003A</td>
<td>Replacement/Spare Swiveller Button</td>
</tr>
<tr>
<td>HLN062A</td>
<td>Universal Belt Clip Adapter</td>
</tr>
<tr>
<td>RLPN437A</td>
<td>Belt Holder and Velcro Secured Pocket</td>
</tr>
<tr>
<td>150359202</td>
<td>Replacement Strap for HLN062A and RLN4570A</td>
</tr>
<tr>
<td>RLN418A</td>
<td>Universal Radio/PKX™ with Radio Holder - With adjustable belt</td>
</tr>
<tr>
<td>TDN372A</td>
<td>Portable Radio Hanger for door panels up to 2.75-Inch</td>
</tr>
<tr>
<td>TDN337A</td>
<td>Portable Radio Hanger for door panels 2.75-in to 3.25-in</td>
</tr>
<tr>
<td>RLN494A</td>
<td>Universal Holder with Gooseneck Bracket</td>
</tr>
<tr>
<td>RLN494A</td>
<td>Universal Holder with Gooseneck Bracket and Wheelchair Quick Release Assembly</td>
</tr>
<tr>
<td>RLN494A</td>
<td>Wheelchair Quick Release Assembly</td>
</tr>
<tr>
<td>HNN908B</td>
<td>NiCD, 600 mAh, 7.5V Slim Battery - Intrinsically Safe (FM)</td>
</tr>
<tr>
<td>HNN936I</td>
<td>NiCD, 1500 mAh, 7.5V Battery - Intrinsically Safe (FM)</td>
</tr>
<tr>
<td>HNN970I</td>
<td>NiCD, 1100 mAh, 7.5V Battery - Intrinsically Safe (FM)</td>
</tr>
<tr>
<td>HNN933I</td>
<td>NiCD, 1200 mAh, 7.5V Battery</td>
</tr>
<tr>
<td>HNN933I</td>
<td>NiCD, 1200 mAh, 7.5V Battery</td>
</tr>
<tr>
<td>HNN938B</td>
<td>NiCD, 600 mAh, 7.5V Battery</td>
</tr>
<tr>
<td>HNN908B</td>
<td>NiCD, 600 mAh, 7.5V Slim Battery</td>
</tr>
<tr>
<td>HNN004R</td>
<td>NiCD, 550 mAh, 7.2V</td>
</tr>
<tr>
<td>HNN8133</td>
<td>NiCD, 1200 mAh, 7.5V Battery - Intrinsically Safe (FM)</td>
</tr>
<tr>
<td>WPNN4044_R</td>
<td>NiCD, 1000 mAh, 7.5V Battery</td>
</tr>
<tr>
<td>HKN0118</td>
<td>Universal Battery with Radios Holder</td>
</tr>
<tr>
<td>HNN903B</td>
<td>Universal Carrying Case with Radio Holder, Pen Holder</td>
</tr>
<tr>
<td>RLN4571A</td>
<td>Universal Carrying Case with Radio Holder, Pen Holder</td>
</tr>
<tr>
<td>HLN6602A</td>
<td>Molded Carrying Holder with 3-Inch Spring Action Belt Clip</td>
</tr>
</tbody>
</table>

**Batteries**

| HNN908B | NiCD, 600 mAh, 7.5V Slim Battery - Intrinsically Safe (FM) |
| HNN936I | NiCD, 1500 mAh, 7.5V Battery - Intrinsically Safe (FM) |
| HNN970I | NiCD, 1100 mAh, 7.5V Battery - Intrinsically Safe (FM) |
| HNN933I | NiCD, 1200 mAh, 7.5V Battery |
| HNN933I | NiCD, 1200 mAh, 7.5V Battery |
| HNN938B | NiCD, 600 mAh, 7.5V Battery |
| HNN908B | NiCD, 600 mAh, 7.5V Slim Battery |
| HNN004R | NiCD, 550 mAh, 7.2V |
| HNN8133 | NiCD, 1200 mAh, 7.5V Battery - Intrinsically Safe (FM) |
| WPNN4044_R | NiCD, 1000 mAh, 7.5V Battery |

**Battery Eliminators**

| HKN039 | Vehicular Battery Eliminator - Utilizes vehicle battery for power |
| HLN452 | Vehicular Battery Eliminator |

**Battery Maintenance Systems**

| WPNN4079_R | Battery Maintenance System™ [BMS™] 230V AC, 50/60 Hz 6-Station Conditioner charges and discharges, analyzes, conditions, cycle tests, and more. Supports NiCD, NiMH and Li-ion batteries. Adapter plates sold separately. |
| WPNN4080_R | Battery Maintenance System™ [BMS™] 230V AC, 50/60 Hz 6-Station Conditioner charges and discharges, analyzes, conditions, cycle tests, and more. Supports NiCD, NiMH and Li-ion batteries. Adapter plates sold separately. |
| NDN4005 | 3-Station, 110V AC, 50/60 Hz Not for Li-ion or 3 cell batteries |
| NDN4006 | 3-Station, 110V AC, 50/60 Hz  Not for Li-ion or 3 cell batteries |
| TDN437 | BMS Battery Adapter. For use with WPNN4079_R, WPNN4080_R, WPNN4081_R, WPNN4082_R |
| TDN438 | BMS Battery Adapter. For use with HN8030A and HN8803B |
| TDN447 | BMS Battery Adapter. For use with HN8004A batteries. |
| CDNN189 | Adapter, 7.5V 1200 mAh |
| TDN662 | Adapter. For use with HN8026A. Without belt clip. |
| WPNN4855_R | BMS Field Upgrade Kit - Allows units to support Li-ion batteries. For use with WPNN4079AR, WPNN4080AR and WPNN4081AR. |
| WPNN4124_R | BUS III, 4-Station, 90-264 V AC (US). Adapter plates required. |
| WPNN4124_R | BUS III, 4-Station, 90-264 V AC (UK). Adapter plates required. |
| RL-71885 | Standard Adapter. For GP300, GP350 radios. |
| RL-71290 | Standard Adapter. For SP21 radios. |

**Motorola Conditioning Chargers**

| WPNN4055_R | 4 Station Conditioning Charger. 110V, Base only |
| WPNN4055_R | 4 Station Conditioning Charger. 110V, Base only |
| 3003084015 | Vehicular Power Adapter for Single and Multi-Unit Chargers. |
| WPNN4002_R | Base Charge Unit Only, 110V AC |
| WPNN4002_R | Base Charge Unit Only, 220V AC |
| WPNN4088_R | Motorola Conditioning Charger - 60 minute rapid charge |
| WPNN4089_R | Motorola Conditioning Charger - 60 minute rapid charge |
| WPNN4094_R | Motorola Conditioning Charger Kit, 110V AC |
| WPNN4095_R | Motorola Conditioning Charger Kit, 220V AC |
| WPNN4095_R | Motorola Conditioning Charger Kit, 220V AC |
| WPNN4095_R | Adapter Plate Only - For Conditioning Charger |
| WPNN4007_R | Adapter Plate Only, 7V |

**Vehicular Chargers**

| RLN4614 | 3003084M21, DC Hard Wire Cable |
| 3003084M21 | DC Hard Wire Cable - For Vehicular Installation Included with RLN4041A |
| HLN9719 | Vehicular Charger/Adapter/Bracket, 12V, for use with HTN8042, HTN8043, HTN8044, Charger Base HN80BB, with transformer, sold separately. |
| RLN4633 | Travel Charger |
| 250600505 | Transformer, 120V (US) |
| 250600505 | Transformer, 230V (EU) |
| 250600507 | Transformer, 230V (UK) |
| 250600508 | Transformer, 240V (Argentina) |
| HLN251 | 3-Hour Vehicular Charger Adapter Bracket, 12V - For HTN9026 |

**Antennas**

| HAD9383AR | VHF Heliflex Antenna, 136-174 MHz |
| NAD6520AR | VHF Heliflex Antenna, 146-174 MHz |
| HAD9471AR | VHF Stubby Antenna, 146-162 MHz |
| HAD9471AR | VHF Stubby Antenna, 162-174 MHz |
| HAD9728B | Tunable Antenna Kit, 136-174 MHz |
| NA9E4854AR | UHF Whip Antenna, 403-512 MHz |
| 8505816K24 | UHF Heliflex Antenna, Red, Molded, 403-433 MHz |
| 8505816K25 | UHF Heliflex Antenna, Green, Molded, 450-470 MHz |
| 8505816K26 | UHF Heliflex Stubby Antenna, Black, Molded, 470-512 MHz |
## Discontinued mobile radios...

New vehicle models come out every year, but that doesn’t mean you suddenly trade in your old one. Motorola two-way radios are no different.

We make continuous model upgrades, yet we never change our quality standard. That’s why we expect every mobile radio to deliver years of reliable, no-problem performance — and we show it by offering accessories that can help keep discontinued models working like new.

### Microphones

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>SM50</th>
<th>SM120</th>
<th>M130</th>
<th>GM300</th>
<th>M208</th>
<th>M216</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMN3001</td>
<td>Compact Microphone with LED Indicator, 10-foot Coil Cord and Hang-up Clip</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HMN3008</td>
<td>Compact Microphone with LED Indicator, 7-foot Coil Cord and Hang-up Clip</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HMN3174</td>
<td>Compact Microphone with TX LED Indicator, 7-foot Coil Cord and Hang-up Clip</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HMN1035</td>
<td>Heavy-Duty Palm Microphone with 10.5-foot Coil Cord</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AAREX617</td>
<td>Telephone Style Handset with Hang-up Clip</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HMN3596</td>
<td>Compact Palm Microphone with 7-foot Coil Cord</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN8143</td>
<td>Non-Backlit Touch-Code Microphone with Hang-up Clip</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HMN1037</td>
<td>Non-Backlit Touch-Code Microphone with Hang-up Clip</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HMN1056</td>
<td>Compact Palm Microphone with 7-foot Coil Cord</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Microphone Accessories

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>SM50</th>
<th>SM120</th>
<th>M130</th>
<th>GM300</th>
<th>M208</th>
<th>M216</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLN5023</td>
<td>Mic Jacket Kit - Compatible with HMN3174</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RLN5014</td>
<td>Mic Jacket Kit - Compatible with HMN1035</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RLN5015</td>
<td>Mic Jacket Kit - Compatible with HMN1056</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RLN5016</td>
<td>Mic Jacket Kit - Compatible with HMN1037</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RLN5018</td>
<td>Mic Jacket Kit - Compatible with HMN3596</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN9559</td>
<td>7-foot Replacement Coil Cord - For HMN1056 and HMN1035</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN9560</td>
<td>10.5-foot Extended Replacement Coil Cord for Heavy-Duty Microphones</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN8073</td>
<td>Microphone Hang-Up Clip - For all Microphones</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN9414</td>
<td>Universal Hang-Up Clip - For all Microphones</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### General Accessories

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>SM50</th>
<th>SM120</th>
<th>M130</th>
<th>GM300</th>
<th>M208</th>
<th>M216</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLN9457</td>
<td>Hardware Kit - For use with Expanded Accessory Connector</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>HLN9573</td>
<td>Shorting Plug Kit for Microphone Jack - Used when application calls for desktop set-up, covers microphone jack.</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN8375</td>
<td>DTMF Decoder Board</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKN9401</td>
<td>Vehicular Power Adapter - Available for mobiles operating at 25W only.</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### External Speakers

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>SM50</th>
<th>SM120</th>
<th>M130</th>
<th>GM300</th>
<th>M208</th>
<th>M216</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSN9008</td>
<td>7.5 Watt External Speaker with Accessory Connector</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSN8145</td>
<td>7.5 Watt External Speaker - For receiver audio.</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Control Station Accessories

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>SM50</th>
<th>SM120</th>
<th>M130</th>
<th>GM300</th>
<th>M208</th>
<th>M216</th>
</tr>
</thead>
<tbody>
<tr>
<td>HKN9010</td>
<td>Control Station Panel - Interfaces radio power cable to power supply cable, for HPN8393 only.</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKN3000</td>
<td>Desktop Microphone, Black</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HMN1038</td>
<td>Desktop Microphone, Beige</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKN9088</td>
<td>Mobile Mini-UHF Antenna Adapter - 8-foot cable</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKN4139</td>
<td>Power Cable for Low Power Control Station - For 1-45W models, for Control Stations shipped before 4/1993.</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN9180</td>
<td>High Power Control Station Package - For 25-60W models.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKN9400</td>
<td>Power Cable for High Power Control Station - For 25-60W models, for Control Stations shipped before 4/1993</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HPN4002</td>
<td>Power Supply and Cable, 1-25W</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HPN4001</td>
<td>Power Supply and Cable, 25-60W</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Mounting Accessories

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>SM50</th>
<th>SM120</th>
<th>M130</th>
<th>GM300</th>
<th>M208</th>
<th>M216</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLN9117</td>
<td>Key Lock Mounting Bracket</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN9114</td>
<td>Non-Locking Bracket - Standard with SM Series radios.</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN9162</td>
<td>5-Inch Goose Neck Mounting Bracket</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN9227</td>
<td>8-Inch Goose Neck Mounting Bracket</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN8179</td>
<td>Quick Release Mounting Bracket</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN0226</td>
<td>Clam Shell Mounting Bracket</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN9408</td>
<td>Gooseneck Decor Sleeve - Used to cover goose neck and wires.</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN9294</td>
<td>Key Lock Mounting Bracket</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN5189</td>
<td>Non-Locking Bracket</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN8413</td>
<td>Slide Mount Tray Bracket - For vehicular floor hump mount.</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN9414</td>
<td>Sleeve Mounting Bracket</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN9450</td>
<td>45-88 Degree Floor Mount Wedge. M130/GM300 requires HLN8404 or HLN9100. M208/M216 requires HLN8404.</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN9100</td>
<td>Three Point Mounting Bracket - For use with HLN9450.</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN5226</td>
<td>Extra Stability Mount for M130/GM300 - For use with HLN5189.</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN8091</td>
<td>Removable Slide Mount Tray Package - Maximum of 2 external accessory wires can be attached.</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN8090</td>
<td>Radio Slide Mount Tray - Vehicle half of slide tray package (HLN8097).</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN8144</td>
<td>Remote Mount Kit, 8-foot. Assumes use of power cable provided with radio.</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN9027</td>
<td>In-Dash Bezel Mounting Tray</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITEM NO.</td>
<td>DESCRIPTIONS</td>
<td>SM50</td>
<td>M120</td>
<td>M130</td>
<td>GM300</td>
<td>M208</td>
<td>M216</td>
</tr>
<tr>
<td>---------</td>
<td>--------------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>-------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td>HKN4137</td>
<td>Low Power Cable to Battery</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKN9019</td>
<td>16-Pin Conductor Cable - Same as HKN9969, 3-foot long enhanced connector.</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKN9327</td>
<td>Ignition Switch Cable with Housing Connector - Requires HLN9242 connector.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKN9557</td>
<td>PL259 Mini-UHF Antenna Adapter, 6-Inch cable - Not recommended for use with 800 MHz.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>2880376E84</td>
<td>Mini-UHF Connector - For all bandwidths</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN8027</td>
<td>Mini-UHF to BNC Adapter</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN9242</td>
<td>16-Pin Accessory Kit with Expanded Connector</td>
<td>Allows 16-pin connector accessories to be modified for use with SM Series mobiles. Includes 9 wires with lugs, 1 connector housing, 16 crimping terminals, 2 tie straps and 1 extraction tool.</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HKN4191</td>
<td>High Power Cable to Battery</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Public Address Accessories**

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTIONS</th>
<th>SM50</th>
<th>M120</th>
<th>M130</th>
<th>GM300</th>
<th>M208</th>
<th>M216</th>
</tr>
</thead>
<tbody>
<tr>
<td>HKN9324</td>
<td>15-ft Public Address/Speaker Cable - One cable per speaker.</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSN1000</td>
<td>6 Watt Amplified External Speaker - For public address audio, minimum of 1 required.</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSN9326</td>
<td>5 Watt External Speaker for Receiver Audio. Requires 16-pin options connector.</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Alarm Accessories**

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTIONS</th>
<th>SM50</th>
<th>M120</th>
<th>M130</th>
<th>GM300</th>
<th>M208</th>
<th>M216</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLN9328</td>
<td>External Alarm Relay Cable - Horn and lights.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RLN5132</td>
<td>Emergency Push Button Alarm Cable</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLN9330</td>
<td>Emergency Foot Switch Alarm Cable - For GM300 16 channel radio only.</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Antennas**

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTIONS</th>
<th>SM50</th>
<th>M120</th>
<th>M130</th>
<th>GM300</th>
<th>M208</th>
<th>M216</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAD4006</td>
<td>136-144 MHz 1/4 Wave, Roof Mount Antenna</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAD4007</td>
<td>144-152 MHz 1/4 Wave, Roof Mount Antenna</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAD4008</td>
<td>150-162 MHz 1/4 Wave, Roof Mount Antenna</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAD4009</td>
<td>162-174 MHz 1/4 Wave, Roof Mount Antenna</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAD4011</td>
<td>140-174 MHz 3dB Gain, Roof Mount Antenna</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAD4000AMB</td>
<td>140-174 MHz 3dB Gain, Mag Mount Antenna</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAE4002</td>
<td>400-450 MHz 1/4 Wave, Roof Mount Antenna</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAE4003</td>
<td>450-470 MHz 1/4 Wave, Roof Mount Antenna</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAE4004</td>
<td>470-512 MHz 1/4 Wave, Roof Mount Antenna</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAE4010</td>
<td>408-420 MHz 3.5dB Gain, Roof Mount Antenna</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAE4011</td>
<td>450-470 MHz 3.5dB Gain, Roof Mount Antenna</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAE4012</td>
<td>470-495 MHz 3.5dB Gain, Roof Mount Antenna</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAE4013</td>
<td>494-512 MHz 3.5dB Gain, Roof Mount Antenna</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAE4004AR</td>
<td>450-470 MHz 5dB Gain, Roof Mount Antenna</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAB4002AR</td>
<td>29.7-36 MHz 1/4 Wave, Base Loaded Roof Mount Antenna</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAB4003AR</td>
<td>36-42 MHz 1/4 Wave, Base Loaded Roof Mount Antenna</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAB4004AR</td>
<td>42-50 MHz 1/4 Wave, Base Loaded Roof Mount Antenna</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DEFINITIONS
“Motorola” shall mean the Radio Products and Services Division of the Government & Enterprise Mobility Solutions (GEMS) of Motorola, Inc. “Customer” shall mean the individual, company, and/or entity purchasing Products from Motorola. “Products” shall collectively mean the Replacement Parts, Batteries, Accessories, Test & Site Equipment, and Software ordered by the Customer from the Motorola Radio Products and Services Division’s then current Price and Availability List (“Price and Availability List”).

CONFIRMING ORDERS
If Customer chooses to send in a confirming order, the confirming order should be clearly marked “confirming”. Motorola is not responsible for duplicate shipments sent out if the reason for the duplicate shipment was that a confirming order was not marked “confirming”. If a confirming order differs in any way from the original order, the original order takes precedence.

PRICING AND TAXES
The prices are located in the Price and Availability List and are subject to change without notice. Up to date Pricing and Availability can be found at www.motorola.com/businessonline. Orders will be charged at prices in effect the day an order is entered. Special Pricing may be available, call your local account manager to determine applicability. Programs, promotions, quoted or contract prices supersede the prices in the then current Price and Availability List, provided the quotation or the contract is current at the time the order is placed. Customers will be invoiced upon shipment.

The prices set forth are exclusive of any amount for Federal, State and/or Local excise, sales, use, property, retailer’s occupation or similar taxes. If any such excluded tax is determined to be applicable or if Motorola is required to pay any such tax, the prices set forth in the then current Price and Availability List shall be increased by the amount of such tax and any interest or penalty incurred, and Customer shall pay to Motorola the full amount of any such increase no later than ten (10) days after receipt of an invoice therefore, unless otherwise noted on the invoice.

SHIPPING, DELIVERY, TITLE AND SECURITY
Shipping and handling charges shall be paid by the Customer. Customer agrees to pay such amount quoted without regard to the actual charges applicable at the time of shipment. Motorola will ship only to Customer’s facility or the facility of one of Customer’s affiliates. Motorola will not drop ship to third parties at the request of a Customer. Unless otherwise directed by the Customer, all shipments will be routed via ground surface parcel or heavy-weight common carrier depending on weight and size.

If Customer is placing a rated order under the Defense Priorities and Allocations System (“DPAS”), with a requested delivery date of fewer than thirty days from Motorola’s receipt of order, Customer must so advise the Motorola Federal Contracts Department via facsimile at 410-712-4996 to ensure proper handling.

Emergency shipments will be routed by air or by the fastest method with consideration given to weight and size limitations and will be subject to an additional shipping fee. Shipments outside of the U.S., Canada or Mexico will be routed by air. Unless otherwise agreed to by Motorola, all deliveries are F.O.B. Factory shipping facility(ies) or F.O.B destinations for state and local government entities and title and risk of loss to Products sold shall pass to Customer at the F.O.B. point. Shipping or delivery dates are best estimates only.

Motorola reserves the right to make deliveries in installments and these terms and conditions shall be severable as to such installments. Delivery delay or default of any installment shall not relieve Customer of its obligation to accept and pay for remaining deliveries. Claims for shipment shortages shall be deemed waived unless presented to Motorola in writing within forty-five (45) days of delivery of each shipment.

Customer hereby grants to Motorola as security for all of Customer’s obligations to Motorola, of any kind whatsoever, now or hereafter arising from this agreement or any other agreement with Motorola, a first priority security interest in all Products held in inventory or used as equipment by Customer, together with all contract rights, accounts, chattel paper and general intangibles relating thereto and all proceeds resulting therefrom.

Upon request, Customer agrees to cooperate in whatever manner necessary to assist Motorola in perfection of said security interest. Furthermore, Customer hereby irrevocably appoints Motorola as its attorney-in-fact to take any action and to execute any instrument which Motorola may deem necessary or advisable to accomplish the foregoing. Such power of attorney is coupled with an interest.

Motorola has no obligation for payments of any applicable foreign import duties.

PAYMENT
The Customer shall make net payment to Motorola in accordance with the terms stated herein by mail to Motorola at P.O. Box 93042, Chicago, Illinois 60673-3042 or at such other place as Motorola may designate in writing or as reflected on an invoice. Payment shall be made in ten (10) days after the date of invoice for each product, accessory, or other charge, unless otherwise agreed to in writing. Service charges at the maximum rate permitted by applicable law may be invoiced on accounts more than thirty (30) days past due and shall be due and payable upon receipt of invoice.

All payments made by Customer to Motorola in connection with this agreement or any other agreement with Motorola shall applied by Motorola, in its sole discretion, to such obligations or liabilities (whether arising under this agreement or any other agreement with Motorola) as Motorola shall direct.
PATENT, COPYRIGHT AND TRADEMARKS

A. Indemnification
Motorola agrees to defend, at its expense, any suits against Customer based upon a claim that any Motorola manufactured Products furnished hereunder directly infringe a U.S. patent or copyright and to pay costs and damages finally awarded in any such suit, provided that Motorola is notified promptly in writing of the suit and at Motorola’s request and at its expense is given control of said suit and all requested assistance for defense of same, including all appeals thereof.

If the use or sale of any such Product(s) furnished hereunder is enjoined as a result of such suit, Motorola, at its option and at no expense to Customer, shall obtain for the Customer the right to use or sell such Product(s) or shall substitute an equivalent Product reasonably acceptable to Customer and extend this indemnity thereto or shall accept the return of such Product(s) and reimburse Customer the purchase price therefor, less a reasonable charge for reasonable wear and tear. This indemnity does not extend to any suit based upon any infringement or alleged infringement of any patent or copyright by the combination of any such Product(s) furnished hereunder and other elements not furnished by Motorola nor does it extend to any such Product(s) of Customer’s design or formula, nor does it extend to any Product(s) that are modified, changed or altered. The foregoing states the entire liability of Motorola for patent or copyright infringement.

IN NO EVENT SHALL MOTOROLA BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM INFRINGEMENT OR ALLEGED INFRINGEMENT OF PATENTS OR COPYRIGHTS.

B. Copyrights and Mask Works
Works Laws in the United States and other countries preserve for Motorola certain exclusive rights, in the Motorola Software, mask works and other works of authorship furnished hereunder including without limitation the exclusive rights to prepare works derived from same, reproduce same in copies and distribute copies of same.

C. Logos and Trademarks
1) The Products shipped under the terms and conditions hereof will carry Motorola’s logo or such other logo as expressly agreed to by Motorola.
2) In order that Motorola may protect and preserve its trademarks, trade names, corporate slogans, corporate logo, goodwill and Product designations, Customer, without the express written consent of Motorola, shall have no right to use any such marks, names, slogans or designations of Motorola in the sale, lease or advertising of any Products or on any Product, Product container, component part, business forms, sales, advertising and promotional materials or other business supplies or materials, whether in writing, orally or otherwise.

D. License Disclaimer
Except for the right to use the Motorola Software and Product for the purposes provided herein which arises by operation of law and except as expressly provided herein, nothing contained herein, or otherwise shall be deemed to grant to Customer either directly or by implication, estoppel or otherwise, any license or right under any patents, copyrights, trademarks or trade secrets of Motorola or any third party.

E. Non-Exclusive License.
All software and firmware made available by Motorola will be subject to the terms and conditions of Motorola’s applicable Software License Agreements(s), (“SLA”), incorporated herein by reference. The terms of the applicable SLAs will be made available upon Customer’s request and the SLAs will be executed by Customer upon request of Motorola.

EXCUSABLE DELAY
In addition to other limitations on liability set forth herein, Motorola shall not be liable for any delay or failure to perform due to any cause beyond its control. Causes include, but are not limited to, strikes, acts of God, acts of the Customer, interruptions of transportation or inability to obtain necessary labor, materials or facilities, default of any supplier, or delays in FCC frequency authorization or license grant. In the event Motorola is unable to wholly or partially perform because of any cause beyond its control, Motorola may terminate any order without any liability to Customer.

LIMITATIONS
A. EXCEPT FOR PERSONAL INJURY AND EXCEPT AS PROVIDED FOR IN THE SECTION “PATENT, COPYRIGHT AND TRADEMARKS”, MOTOROLA’S TOTAL LIABILITY ARISING OUT OF OR RELATED TO PURCHASE OF PRODUCTS, WHETHER FOR BREACH OF CONTRACT, WARRANTY, MOTOROLA’S NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, IS LIMITED TO THE PRICE OF THE PARTICULAR PRODUCTS SOLD HEREUNDER WITH RESPECT TO WHICH LOSSES OR DAMAGES ARE CLAIMED. CUSTOMER’S SOLE REMEDY IS TO REQUEST MOTOROLA AT MOTOROLA’S OPTION TO EITHER REFUND THE PURCHASE PRICE OR REPAIR OR REPLACE PRODUCTS THAT ARE NOT AS WARRANTED. IN NO EVENT, WHETHER FOR BREACH OF CONTRACT, WARRANTY, MOTOROLA’S NEGLIGENCE, STRICT LIABILITY IN TORT, OR OTHERWISE, WILL MOTOROLA BE LIABLE FOR INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, FRUSTRATION OF ECONOMIC OR BUSINESS EXPECTATIONS, LOSS OF PROFITS, LOSS OF DATA, COST OF CAPITAL, COST OF SUBSTITUTE PRODUCT(S), FACILITIES OR SERVICES, DOWNTIME COST OR ANY CLAIM AGAINST CUSTOMER BY ANY OTHER PARTY.

B. IT IS FURTHER UNDERSTOOD THAT MOTOROLA IS NOT AN INSURER AND THAT CUSTOMER WILL OBTAIN ALL INSURANCE, IF ANY, THAT IS DESIRED AND THAT MOTOROLA DOES NOT REPRESENT OR WARRANT THAT MOTOROLA PRODUCTS WILL AVOID OR PREVENT OCCURRENCES, OR THE CONSEQUENCES THEREFROM, WHICH ARE MONITORED, DETECTED OR CONTROLLED WITH USE OF THE PRODUCTS.

C. TIME TO SUIT. EXCEPT FOR MONEY DUE UPON AN OPEN ACCOUNT, NO ACTION SHALL BE BROUGHT FOR ANY BREACH OF A CONTRACT TO PURCHASE PRODUCTS MORE THAN TWO (2) YEARS AFTER THE ACCRUAL OF SUCH CAUSE OF ACTION EXCEPT WHERE A SHORTER LIMITATION PERIOD IS PROVIDED BY APPLICABLE LAW.

D. EXCEPT FOR MONEY DUE UPON AN OPEN ACCOUNT, NO ACTION SHALL BE BROUGHT FOR ANY BREACH OF A CONTRACT TO PURCHASE PRODUCTS MORE THAN TWO (2) YEARS AFTER THE ACCRUAL OF SUCH CAUSE OF ACTION EXCEPT WHERE A SHORTER LIMITATION PERIOD IS PROVIDED BY APPLICABLE LAW.
E. WARRANTIES. IN ANOTHER SECTION OF THE PRICE AND AVAILABILITY LIST, MOTOROLA HAS PROVIDED CUSTOMER WITH ITS PRODUCT WARRANTY AND, IF APPLICABLE, ITS SOFTWARE LICENSE, WHICH WARRANTY AND LICENSE, TO THE EXTENT APPLICABLE, ARE INCORPORATED INTO AND MADE A PART OF THESE TERMS AND CONDITIONS. THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED WHICH ARE SPECIFICALLY EXCLUDED, INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF SUCH WARRANTIES AND LICENSE.

PRODUCT EQUIPMENT COMPATIBILITY
Motorola agrees that the Product will perform in accordance with the specifications stated in Motorola’s catalogue sheets. This does not extend to the performance of the Product as a part of a larger system generally nor specifically to the Product in combination with products, elements or components not supplied by Motorola.

PRODUCT REPLACEMENTS
Motorola may provide product replacements for ordered parts and accessories for currently manufactured radios as long as the replaced item is the same or better technology and sold at the same price. The invoice will reflect either the actual product shipped or the product ordered and no order modification is required.

When replacement parts and accessories are needed for radio products no longer being manufactured, Motorola cannot guarantee that an equivalent or better part or accessory will always be available or that the replacement item found can be sold at the same price.

Motorola reserves the right to cancel the ordered item without penalty if the ordered item is no longer available or if Motorola offers the item at a higher price and mutual agreement on price cannot be reached.

To effect administrative savings to the Government, Finance Offices are instructed to make payments in accordance with this paragraph without requiring an order modification for replacement products sold at the same price.

SALES TO GOVERNMENTAL ENTITIES
A. Third Party Sales. In the event that Customer elects to provide Products or services to a Governmental entity, or to a prime contractor selling to a Governmental entity, Customer does so solely at its own option and risk and agrees not to obligate Motorola as a subcontractor or otherwise to such Governmental entity. Customer remains solely and exclusively responsible for compliance with all laws governing such sales to such an entity. Further, Motorola makes no representations, certifications, or warranties whatsoever with respect to the ability of its goods, services, or prices to satisfy any such laws. The term “Governmental entity” as used above includes any U.S. Federal, State, or Local Government agency or instrumentality as well as any Foreign (non U.S.) Government agency or instrumentality.

B. Sales to Governments. In the event that Customer is a state or local government agency in the United States or instrumentality, a foreign (non U.S.) government agency or instrumentality, or a contractor to such an entity, Customer agrees to promptly advise Motorola of any special government terms or conditions of sale and/or of any state and/or local law, regulation or ordinance that may be applicable to this sale. Customer’s offer is conditioned upon such notice and upon Motorola’s acceptance, in writing, of any such special requirements.

C. Sales to Federal Government. The following additional provisions apply to orders from Federal Government agencies:

The “DEFINITIONS” section above is deleted and replaced by the following: “Motorola” shall mean the United States Federal Government Markets Division of the Government & Enterprise Mobility Solutions of Motorola, Inc. “Customer” shall mean the entity that purchases products from Motorola. “Products” shall collectively mean the Replacement Parts, Batteries, Accessories, Test & Site Equipment, and software ordered by the Customer from Motorola’s then current Price and Availability.

United States Federal Government orders calling for RPSD products, parts and accessories cannot exceed $25,000.00 and all such orders are to be paid via credit card. Motorola is not a small business. Motorola’s tax ID number is 36-1115800.

For all orders, payment should be made by Government-wide commercial purchase card.

Motorola makes no representation or certification with respect to the ability of any ordered item to satisfy requirements of FAR or FAR supplement provisions related to product content, including but not limited to provisions relating to the Buy American Act and Trade Agreements Act.

D. The following clauses from the Federal Acquisition Regulation (“FAR”) are incorporated by reference: FAR52.218-8, FAR52.222-21, FAR52.222-26, FAR 52.222-35, FAR 52.222-36, FAR 52.222-37, FAR 52.212-4(i), and FAR 52.233-1.
ACCESS TO RECORDS AND FACILITIES
Motorola reserves the right to control access to its facilities and records along with those of its subcontractors and suppliers. Such control must include the right to deny access to those facilities and records deemed to be confidential or proprietary.

EXPORT CONTROL PROVISION
Customer must comply with all applicable export and re-export laws and regulations of Customer’s country and the U.S.A. The exporting and re-exporting of Products from the U.S.A. is subject to the U.S. Department of State Munitions Control Regulations. Certain of Motorola’s communications products are controlled products and require special licensing.

Specifically, but without limitation, Customer agrees that it will not resell or reexport any Motorola parts or associated software or technical data in any form without obtaining appropriate export or re-export licenses from the United States Government or other applicable licensing body. If, at the time or times of Motorola’s performance hereunder, a validated export license is required to lawfully export any parts or associated technical data or software, then the issuance of such license to Motorola constitutes a condition precedent to Motorola’s obligations hereunder.

Additional Terms and Conditions for International Transactions
Customer bears all charges of whatever nature imposed at the time of or after delivery of the Products to the carrier at the F.O.B. point, including, but not limited to, freight, taxes, consular fees and custom duties. After delivery to the carrier at the F.O.B. point, Customer bears all risk of loss or damage to the Products.

Unless otherwise agreed to in writing by Motorola, payment to Motorola shall be in U.S. currency available in Schaumburg, Illinois, U.S.A., in advance of shipment or by a confirmed, irrevocable letter of credit acceptable to Motorola. Customer shall comply with all applicable export laws and regulations of Customer’s country and the U.S.A. Specifically, but without limitation, Customer agrees that it will not resell or re-export any Motorola Products or associated software or technical data in any form without obtaining appropriate export or re-export licenses from the United States Government or other applicable licensing body. If, at the time or times of Motorola’s performance hereunder, a validated export license is required to lawfully export any parts or associated technical data or software, then the issuance of such license to Motorola shall constitute a condition precedent to Motorola’s obligations hereunder.

Customer shall effect or secure at its own cost all governmental permits, licenses and registrations required in connection with the importation into and any resale of the goods in Customer’s country and comply with all other applicable laws and regulations.

Motorola will not do business with any customer where Motorola reasonably knows or suspects such customer has engaged in legally questionable or unethical practices. Customer agrees to comply with this Motorola policy.


GENERAL
(A) Customer acknowledges that customer has read and understands the terms and conditions herein and agrees to be bound by them, that it is the complete and conclusive statement of the parties and understanding between the parties relating to the subject matter hereof and all understanding and agreements, oral and written, herefore made between Motorola and Customer, are merged in this agreement which alone fully and completely expresses their agreement.

(B) No modification of or additions to these terms and conditions shall be binding upon Motorola unless such modification is in writing and signed by an officer of Motorola.

(C) If any term or provision of these terms and conditions is held by a court or other tribunal to be invalid, void, unenforceable, then that term or provision shall be inoperative and insofar as it is in conflict with law, but the remaining terms and provisions shall nevertheless continue in full force and effect and the rights and obligations of the parties shall be construed and enforced as if these terms and conditions did not contain the particular term or provision held to be invalid, void or unenforceable.

(D) Section and paragraph headings used herein are for convenience only and are not to be deemed or construed to be part of these terms and conditions.

(E) The failure of Motorola to insist, in any one or more instances, upon the performance of any of the terms, covenant or conditions of these terms and conditions, or to exercise any right herein, shall not be construed as a waiver or relinquishment of the future performance of any such term, covenant or condition or the future exercise of such right, but the obligation of the Customer with respect to such future performance will continue in full force and effect.

(F) THESE TERMS AND CONDITIONS AND THE RIGHTS AND DUTIES OF THE PARTIES WILL BE GOVERNED AND INTERPRETED IN ACCORDANCE WITH THE LAWS OF THE STATE OF ILLINOIS.

(G) By placing an order, the person placing the order is representing that he or she has the requisite authority to place the order, and has made an affirmative determination that the order can be properly placed in accordance with the terms and conditions set forth herein.

(H) If this is an order covered by an existing contract, basic ordering agreement, or basic purchasing agreement between Customer and Motorola, then only the terms, conditions, and prices of that contract or agreement apply to the order, and Customer is solely responsible for verifying that the applicable pricing is reflected in this order.
Warranty Information...

This warranty applies within the fifty (50) United States, the District of Columbia and Canada.

LIMITED WARRANTY FOR RADIO PRODUCTS AND SERVICES DIVISION ("RPSD") PRODUCTS LISTED IN THE PRICE AND AVAILABILITY LIST

I. WHAT THIS WARRANTY COVERS AND FOR HOW LONG:

A. RPSD Products Other Than Batteries:
The Radio Products and Services Division of the Commercial, Government and Industrial Solutions Sector of Motorola, Inc. or, if applicable, Motorola Canada Limited ("Motorola") warrants the Motorola, Inc. manufactured radio communications products, including original equipment crystal devices and channel elements ("Product"), against material defects in material and workmanship under normal use and service for a period of One (1) Year from the date of shipment. Motorola, at its option, will at no charge either repair the Product (with new or reconditioned parts), replace it with the same or equivalent Product (using new or reconditioned Product), or refund the purchase price of the Product during the warranty period provided purchaser notifies Motorola according to the terms of this warranty. Repaired or replaced Product is warranted for the balance of the original applicable warranty period. All replaced parts of the Product shall become the property of Motorola.

This express limited warranty is extended by Motorola to the original end user purchaser purchasing the Product for purposes of leasing or for commercial, industrial, or governmental use only, and is not assignable or transferable to any other party. This is the complete warranty for the Product manufactured by Motorola. Motorola assumes no obligations or liability for additions or modifications to this warranty unless made in writing and signed by an officer of Motorola. Unless made in a separate written agreement between Motorola and the original end user purchaser, Motorola does not warrant the installation, maintenance or service of the Product.

Motorola cannot be responsible in any way for any ancillary equipment not furnished by Motorola which is attached to or used in connection with the Product, or for operation of the Product with any ancillary equipment, and all such equipment is expressly excluded from this warranty. Because each system, which may use the Product, is unique, Motorola disclaims liability for range, coverage, or operation of the system as a whole under this warranty. Non Motorola manufactured items such as Site Equipment sold by Motorola carry the Original Equipment Manufacturer's warranty.

B. RPSD Two-Way Rechargeable Batteries:
Capacity and Workmanship Warranty:
MOTOROLA INC. ("MOTOROLA") warrants the MOTOROLA two-way radio batteries listed below ("Product"). Products will be replaced (with new or reconditioned parts) during the applicable Warranty Period if: 1.) the battery develops leakage; 2.) the battery clip breaks due to poor workmanship; 3.) the battery's seam welds open; or 4.) the battery has contact problems with either the applicable two-way radio or battery charger due to misalignment or plastic residue blocking the battery's contacts.

Motorola, at its option, will replace the Product (with new or reconditioned parts) at no charge during the applicable warranty period provided it is returned in accordance with the terms of this warranty. Replacement batteries are warranted for the balance of the original applicable warranty period.

This warranty is extended by MOTOROLA to the original end user purchaser only and is not assignable or transferable to any other party. This is the complete warranty for the Product manufactured by MOTOROLA. MOTOROLA assumes no obligations or liability for additions or modifications to this warranty unless made in writing and signed by an officer of MOTOROLA. MOTOROLA cannot be responsible in any way for any ancillary equipment not furnished by MOTOROLA which is attached to or used in connection with the Product, or for operation of the Product with any ancillary equipment, and all such equipment is expressly excluded from this warranty. For battery recycling information please call 1-800-422-4210 for details and request your RBRC shipper ID registration form.

C. Cellular and iDEN Phone Batteries:

1. 12 Month Warranty:

MOTOROLA INC. ("MOTOROLA") warrants the MOTOROLA manufactured cellular and iDEN batteries listed below ("Product") against defects in material and workmanship under normal use and service for a period of time from the date of manufacture* as scheduled below ("Warranty Period"):  

<table>
<thead>
<tr>
<th>Product</th>
<th>Warranty Period Motorola</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufactured NiCD Batteries</td>
<td>Twelve (12) Months</td>
</tr>
<tr>
<td>Motorola Manufactured NiMH Batteries</td>
<td>Twelve (12) Months</td>
</tr>
<tr>
<td>Motorola Manufactured Li-ion Batteries</td>
<td>Twelve (12) Months</td>
</tr>
</tbody>
</table>

2. 12 Month Workmanship Warranty:

For the workmanship defects listed below, Motorola warrants against defects in material and workmanship under normal use and service for a period of time from the date of manufacture* as scheduled below ("Warranty Period"):  

<table>
<thead>
<tr>
<th>Product</th>
<th>Warranty Period Motorola</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufactured NiCD Batteries</td>
<td>Twelve (12) Months</td>
</tr>
<tr>
<td>Motorola Manufactured NiMH Batteries</td>
<td>Twelve (12) Months</td>
</tr>
<tr>
<td>Motorola Manufactured Li-ion Batteries</td>
<td>Twelve (12) Months</td>
</tr>
</tbody>
</table>

* Date of manufacture is determined by the date code shown on the Product.

A Product will be replaced during the applicable 12 Month Workmanship Warranty Period if:

1.) the battery develops leakage; 2.) the battery clip breaks due to poor workmanship; 3.) the battery's seam welds open; or 4.) the battery has contact problems with either the applicable two-way radio or battery charger due to misalignment or plastic residue blocking the battery's contacts.

Motorola, at its option, will replace the Product (with new or reconditioned parts) at no charge during the applicable warranty period provided it is returned in accordance with the terms of this warranty. Replacement batteries are warranted for the balance of the original applicable warranty period.

This express limited 12 month warranty is extended by MOTOROLA to the original end user purchaser only and is not assignable or transferable to any other party. This is the complete warranty for the Product manufactured by MOTOROLA. MOTOROLA assumes no obligations or liability for additions or modifications to this warranty unless made in writing and signed by an officer of MOTOROLA. MOTOROLA cannot be responsible in any way for any ancillary equipment not furnished by MOTOROLA which is attached to or used in connection with the Product, or for operation of the Product with any ancillary equipment, and all such equipment is expressly excluded from this warranty.

Exceptions:
The Motorola NiMH NTN739BBR prismatic battery is warranted for six (6) months capacity and twenty-four (24) months workmanship from the date of manufacture.

XTS3500 mAh NiMH RNN40008, RNN40007AR 70% to minimum (3000 mAh) for 12 months and has a 24 month workmanship warranty.

NiCD impres™ Batteries used with a non-impres™ charger qualify for a 18 month capacity and 24 month workmanship warranty replacement.

impres™ NiMH/Li-ion used with a non-impres™ charger qualify for 12 month capacity and 24 month workmanship warranty.

* Date of manufacture is determined by the date code shown on the Product.

A Product will be replaced during the applicable 24 Month Workmanship Warranty Period if:

1.) the battery develops leakage; 2.) the battery clip breaks due to poor workmanship; 3.) the battery's seam welds open; or 4.) the battery has contact problems with either the applicable two-way radio or battery charger due to misalignment or plastic residue blocking the battery's contacts.
II. GENERAL PROVISIONS:
This warranty does not limit the full extent of Motorola's responsibilities regarding the Product. Repair, replacement or refund of the purchase price, at Motorola's option, is the exclusive remedy. THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES, MOTOROLA DISCLAIMS ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL MOTOROLA BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, FOR ANY LOSS OF USE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, LOST PROFITS OR SAVINGS OR OTHER INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE SUCH PRODUCT, TO THE FULL EXTENT SUCH MAY BE DISCLAIMED BY LAW.

III. HOW TO GET WARRANTY SERVICE:
Purchaser must notify Motorola's representative or call RPDS at 1-800-422-4210 within the applicable warranty period for information regarding warranty service.

IV. WHAT THIS WARRANTY DOES NOT COVER:
A) Defects or damage resulting from use of the Product in other than its normal and customary manner.
B) Defects or damage from misuse, accident, water, or neglect.
C) Defects or damage from improper testing, operation, maintenance, installation, alteration, modification, or adjustment.
D) Breakage or damage to antennas unless caused directly by defects in material workmanship.
E) A Product subjected to unauthorized Product modifications, disassemblies or repairs (including, without limitation, the addition to the Product of non-Motorola supplied equipment) which adversely affect performance of the Product or interfere with Motorola's normal warranty inspection and testing of the Product to verify any warranty claim.
F) Product which has had the serial number removed or made illegible.
G) Freight costs to the repair depot.
H) A Product which, due to illegal or unauthorized alteration of the software/firmware in the Product, does not function in accordance with Motorola's specifications or with the FCC type acceptance labelling in effect for the Product at the time the Product was initially distributed from Motorola.
I) Scratches or other cosmetic damage to Product surfaces that does not affect the operation of the Product.
J) That the software in the Product will meet the purchaser's requirements or that the operation of the software will be uninterrupted or error-free.
K) Normal and customary wear and tear.
L) Non-Motorola manufactured equipment unless bearing a Motorola Part Number in the form of an alpha numeric number (i.e., TDE6030B).
M) Processing of data from, into, and between the year 2000 and the year 2001.

V. GOVERNING LAW
In the case of a Product sold in the United States and Canada, this Warranty is governed by the laws of the State of Illinois and the Province of Ontario, respectively.

VI. PATENT AND SOFTWARE PROVISIONS
Motorola will defend, at its own expense, any suit brought against the end user purchaser to the extent that it is based on a claim that the Product or its parts infringe a United States patent, and Motorola will pay those costs and damages finally awarded against the end user purchaser in any such suit which are attributable to any such claim, but such defense and payments are conditioned on the following:
A) that Motorola will be notified promptly in writing by such purchaser of any notice of such claim;
B) that Motorola will have sole control of the defense of such suit and all negotiations for its settlement or compromise; and
C) should the Product or its parts become, or in Motorola's opinion be likely to become, the subject of a claim of infringement of a United States patent, that such purchaser will permit Motorola, at its option and expense, either to procure for such purchaser the right to continue using the Product or its parts or to replace or modify the same so that it becomes noninfringing or to grant such purchaser a credit for the Product or its parts as depreciated and accept its return. The depreciation will be an equal amount per year over the lifetime of the Product or parts as established by Motorola. Motorola will have no liability with respect to any claim of patent infringement which is based upon the combination of the Product or its parts furnished hereunder with software, apparatus or devices not furnished by Motorola, nor will Motorola have any liability for the operation of ancillary equipment or software not furnished by Motorola which is attached to or used in connection with the Product. The foregoing states the entire liability of Motorola with respect to infringement of patents by the Product or any of its parts thereof.

Laws in the United States and other countries preserve for Motorola certain exclusive rights for copyrighted Motorola software such as the exclusive rights to reproduce in copies and distribute copies of such Motorola software. Motorola software may be used in the Product in which the software was originally embodied and such software in such Product may not be replaced, copied, distributed, modified in any way, or used to produce any derivative thereof. No other use including, without limitation, alteration, modification, reproduction, distribution, or reverse engineering of such Motorola software or exercise of rights in such Motorola software is permitted. No license is granted by implication, estoppel or otherwise under Motorola patent rights or copyrights.

TO OBTAIN WARRANTY SERVICE:
Replacement Parts/Kits/Accessories/Batteries
To obtain warranty service on replacement parts/kits/accessories/batteries, the item must be delivered, transportation prepaid to:
Motorola
Radio Products and Services Division
Attn: Warranty Dept.
222 Galvin Drive
Elgin, Illinois 60123

Each shipment of returned items must include a Motorola Warranty Replacement Form, with each item being returned listed by quantity, type, frequency of code, defect code, radio model number and serial number (when returning items removed from a Motorola radio) sales or factory order number. Items returned with no manufacturer's date code will be assumed to be out of warranty and subject to charges for repair or replacement.

In the event that Motorola in its discretion elects to replace an item, and a replacement is ordered prior to the return of the defective product, credit for the defective product will be issued against the replacement order provided that the defective units covered by this warranty are returned within forty-five (45) days of the replacement order date and the replacement factory order number is properly provided. After 45 days, Motorola's sole obligation is limited to replacement of the defective unit covered by this warranty with a unit that meets original factory specifications, and credit cannot be issued.

Cellular Motorola Manufactured Accessories
Effective January 1, 2000, a new Limited Lifetime Warranty was instituted for the following accessories purchased after January 1, 2000: vehicle power adapters, carry cases, holsters, chargers (desktop bases and AC power supplies) and hands-free headsets. For all other accessories, and all accessories purchased prior to January 1, 2000, the warranty period begins on the date of the consumer purchase and lasts for twelve months. Proof of purchase documentation or the MSN/SN of the associated telephone determines the warranty period. Although the date codes are on some of the accessories or ancillary components such as batteries, there are no date codes on others such as antennas. Therefore, the best way to determine if an accessory is in warranty is to verify the consumer's proof of purchase. The proof of purchase documentation must be included for replacement under warranty. Accessories are not considered repairable.

Warranty policies for Cellular parts are indicated in the "Authorized Cellular Servicer Agreement." Test Equipment. Motorola manufactured items, including service monitors, should be returned to the Test Equipment Service Center and processed per the Test Equipment Products Limited Warranty on the following page. Third party manufactured items should be returned to the facility designated by the Manufacturer. Motorola will notify the customer who to contact for warranty service of said items. For further information call:
In the U.S. and Canada: 1-800-422-4210
Outside the U.S. 1-847-538-8003
U.S. Federal Government: 1-800-826-1913

MOTOROLA TEST EQUIPMENT PRODUCTS LIMITED WARRANTY (EXCLUDES EXPORT SHIPMENTS)
Motorola Test Equipment Products, and Motorola Service Monitors, (herein the "product") that are manufactured or distributed by Motorola's Radio Products and Services Division are warranted by Motorola for a period of one (1) year from date of shipment against defects in material and workmanship. This express warranty extends to the original purchaser only. In the event of a defect, malfunction, or failure during the period of warranty of a Motorola manufactured Test Equipment item, Motorola, at its option, will either repair or replace the product providing Motorola received written notice specifying the nature of the defect during the period of warranty, and the defective product is returned to: Motorola, Test Equipment Service, 2216 Galvin Drive, Elgin, IL 60123 transportation prepaid. Proof of purchase and evidence of date of shipment (packing list or invoice), must accompany the return of the defective product.

For a RETURN AUTHORIZATION – PLEASE CALL 1-800-323-6967.
Transportation charges for the return of the product to Purchaser shall be prepaid by Purchaser. This warranty is void, as determined in the reasonable judgement of Motorola, if:
A) The product has not been operated in accordance with the procedures described in the operating instruction.
B) The seals on non-user serviceable components or modules are broken.
C) The product has been subject to misuse, abuse, damage, accident, negligence, repair or alteration.

Many items manufactured by third parties are warranted directly by the manufacturer. In such cases customers may be put in direct contact with the manufacturer's service facility for warranty repair or replacement. In no event shall Motorola be liable for any special, incidental or consequential damages. In the event Motorola elects to repair a defective product by replacing a module or subassembly, Motorola, at its option, may replace such defective module or subassembly with a new or reconditioned replacement module or subassembly. Only the unexpired warranty of the warranty product will remain in force on the replacement module or subassembly.

EXCEPT AS SPECIFICALLY SET FORTH HEREIN, ALL WARRANTIES EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, ARE EXCLUDED.
Ordering Information...

**HOW TO PLACE AN ORDER**
**Please contact Motorola at:**

**United States and Canada**
Hours: 7:00 a.m.–7:00 p.m. CST/CDT, Mon-Fri.
Motorola Radio Products and Services Division
Attn: Order Processing
1307 East Algonquin Road, 1st Floor
Schaumburg, IL 60196
Telephone: 1-800-422-4210
Fax: 1-800-622-6210
Internet: http://www.motorola.com/businessonline

**United States Federal Government**
Hours: 7:00 a.m.–5:00 p.m. CST/CDT, Mon-Fri.
Motorola
U.S. Federal Government Markets Division
7031 Columbia Gateway Dr.
Columbia, MD 21046
Telephone: 1-800-826-1913
Fax: 1-800-526-8641

**All Other Locations Outside the United States**
Hours: 8:00 a.m.–4:30 p.m. CST/CDT, Mon-Fri.
Motorola Radio Products and Services Division
Attn: International Order Processing
1307 East Algonquin Road, 1st Floor
Schaumburg, IL 60196
Telephone: 847-538-8023
Fax: 847-576-3023
Internet: https://www.motorola.com/businessonline

**EMERGENCY ORDERS**
Emergency orders can be placed anytime day or night, including weekends. This special service, called S.O.S., is provided for customers who are repairing equipment destroyed in natural disasters and other hardship cases. All items ordered through our S.O.S. help line will be shipped via FedEx Priority 1 or via air freight priority service. During business hours call 1-800-422-4210
No S.O.S. weekend service is available to customers outside the United States.

**MAIL AND FAX**
**ORDERING INSTRUCTIONS**
Mail and fax orders should include the following:
1. Signed original purchase order
2. Motorola 10-digit customer number, complete bill to address
3. Complete sold to address
4. Complete ship to address
5. Shipping terms/instructions
6. Terms of payment (if applicable)
7. Quantities and correct units of measure
8. Motorola part number
   (frequency or code required for crystals)
9. Partial or complete shipment specified
   (shipped partial unless complete requested).
   Crystal orders are shipped complete.
10. Credit card orders should include card number and expiration date, not applicable to orders outside the U.S.
11. Purchase order number

Orders from outside the U.S. must also include the following:
1. Proper Documentation, i.e. Letter of Credit, Import Permit
2. Type of Packing Desired (export or domestic)
3. Country of Ultimate Destination

**SAME DAY SHIPPING**
In the United States, faxed orders received by 4:00 p.m. CST/CDT, Mon-Fri. will be shipped the same day; orders called-in at 1-800-422-4210 by 6:00 p.m. CST/CDT, Mon-Fri. will be shipped the same day.

**PURCHASE ORDER NUMBER**
Orders from outside the U.S. must also include the following:
1. Proper Documentation, i.e. Letter of Credit, Import Permit
2. Type of Packing Desired (export or domestic)
3. Country of Ultimate Destination

**CUSTOMER SERVICE INFORMATION**
If questions arise on back orders, order/billing discrepancies, or return authorizations, call:

**In the U.S. and Canada:**
1-800-422-4210 (7:00 a.m.–7:00 p.m. CST/CDT, Mon-Fri.)

**Outside the U.S.**:
1-847-538-8023 (8:00 a.m.–4:30 p.m. CST/CDT, Mon-Fri.)
or Fax: 1-847-576-3023

**U.S. Federal Government**:
1-800-826-1913 (7:00 a.m.–5:00 p.m. CST/CDT, Mon-Fri.)
Radio Products and Services Division’s Parts Identification

For assistance in identifying unknown part numbers for Motorola Two-Way Radio, IDEN, Pager, Cellular, Site and Test Equipment Products, call RPSD’s Parts Identification Department at 1-800-422-4210, between 7:00 a.m. and 7:00 p.m. CST/CDT, Mon-Fri.

In the U.S., if you know the part number you are looking for, but cannot locate it in this Price and Availability List, please call our Customer Service Department at 1-800-422-4210 between 7:00 a.m. and 7:00 p.m. CST/CDT, Mon-Fri.

Identification of Manual Numbers

The Price and Availability List does not identify Service Manuals by radio model due to space limitations. If you would like assistance in identifying the proper manual number for your Motorola unit, visit us at www.motorola.com/businessonline or contact RPSD’s Parts Identification. The phone number is 1-800-422-4210. The fax number is 1-800-622-6210.

Order Discrepancies/Returns

If questions arise on order discrepancies and for return authorization call:
In the U.S.: 1-800-422-4210
Outside the U.S.: 847-538-8023 or Fax: 847-576-3023
U.S. Federal Government: 1-800-826-1913

Any order discrepancy must be brought to our attention within ten (10) days of shipment, sixty (60) days on orders outside the U.S. Authorization must be acquired from RPSD prior to return of any material. Returns from outside the U.S. require form ERA (Equipment Return Authorization) which must be obtained before any return of goods. The authorization number must be visible on the outside of your package. Mark all packages “Attn: Return Goods”. Motorola RPSD offers free freight on returns by providing prepaid and preaddressed labels, which are e-mailed, faxed or mailed at the time of the ERA request.

A tracking number is placed on the label for reference to each individual ERA request. It is important to maintain records of the tracking number until credit has been issued by Motorola. Except for crystals and other specific items, Motorola Radio Products and Services Division will accept the return of new and unused Motorola products in their original packaging material within 45 calendar days of the original shipment of the product.

After 45 calendar days, a 20% restocking fee will be assessed. Restocking fees for tower hardware, site equipment and test stations will be applied per the individual supplier’s policy set forth in the supplier’s terms and conditions accompanying product packing slip, and products ordered to a specific frequency or code may not be returnable. Note: The 20% restocking fee applies to returns of new and unused computer and computer peripheral products, and no returns of computers or peripherals will be accepted beyond 45 days. After 90 days, no returns of new, unused equipment (tower, site and test equipment included) will be accepted by Motorola. Crystal service items may not be returned unless they are under warranty. Defective crystals will be replaced with identical crystals. To obtain credit a return authorization must be requested by contacting RPSD. The product must be delivered, transportation prepaid to:

Motorola Radio Products and Services Division
Attn: Return Goods
2222 Galvin Drive
Elgin, Illinois 60123

Returned goods credits will be issued against MasterCard/Visa card number if used on original order. Motorola is not responsible for credit limits and bank serviced/interest fees charged on the unpaid balance of any credit card account.

Motorola may provide product replacements for ordered parts and accessories for currently manufactured radios as long as the replaced item is the same or better technology and sold at the same price. The invoice will reflect either the actual product shipped or the product ordered and no order modification is required.

When replacement parts and accessories are needed for radio products no longer being manufactured, Motorola cannot guarantee that an equivalent or better part or accessory will always be available or that the replacement item found can be sold at the same price. Motorola reserves the right to cancel the ordered items without penalty if the ordered item is no longer available or if Motorola offers the item at a higher price and mutual agreement on price cannot be reached.

To effect administrative savings to the Government, Finance Offices are instructed to make payments in accordance with this paragraph without requiring an order modification for replacement products sold at the same price.

Radio Service Software Technical Support Lines

FIXED PRODUCTS AND CONTROL STATIONS:
In the U.S. – 1-800-448-3245
Outside the U.S. – 847-576-7300

MOBILE AND PORTABLE PRODUCTS:
In the U.S. – 1-800-927-2744

WIRELESS DATA DIVISION PRODUCTS:
U.S. and Canada – 1-800-934-4721

PAGING PRODUCTS:
In the U.S. – 1-800-548-9954
In Canada – 1-800-461-4575

TWO-WAY RADIO SUPPORT PRODUCTS:
In the U.S. – 1-800-927-2744
Outside the U.S. – 319-385-5395
Fax – 319-385-5407

General Information

Test Equipment Service
Required Documentation: Form ERA (Equipment Return Authorization) must be obtained before any test equipment is returned for calibration or repairs. Test equipment received without this form will not be accepted. Contact:

Test Equipment Service
2216 Galvin Drive
Elgin, IL 60123
Call 1-800-323-6967 in the U.S. or 847-576-7025 outside of the U.S.
Fax: 847-576-8113

Customers outside of the U.S. should consult with their local Motorola, Inc. Radio Products and Services Division Representative for the service depot nearest them.
Call us and order today...