MOTOROLA

MOTOROLA ORIGINAL
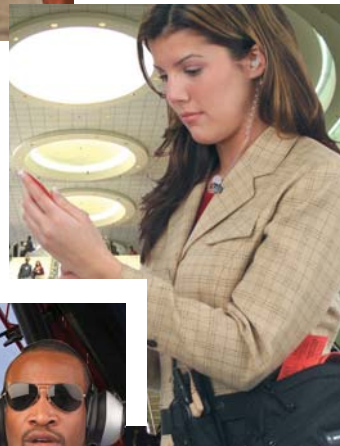
*Two-way
Portable and
Mobile Radio
Accessory and Battery Catalog*

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 Quality...

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...

VL50 Portable

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.

VL50 Portable

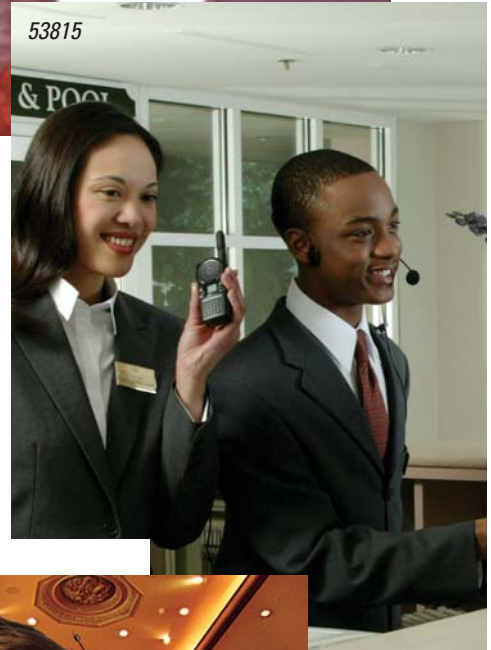These stylish Earpieces and Headsets can help raise the level of service employees provide. They're ideal for Cashiers and Clerks. Managers and Supervisors. Salespeople, Support Staff, Security and more.
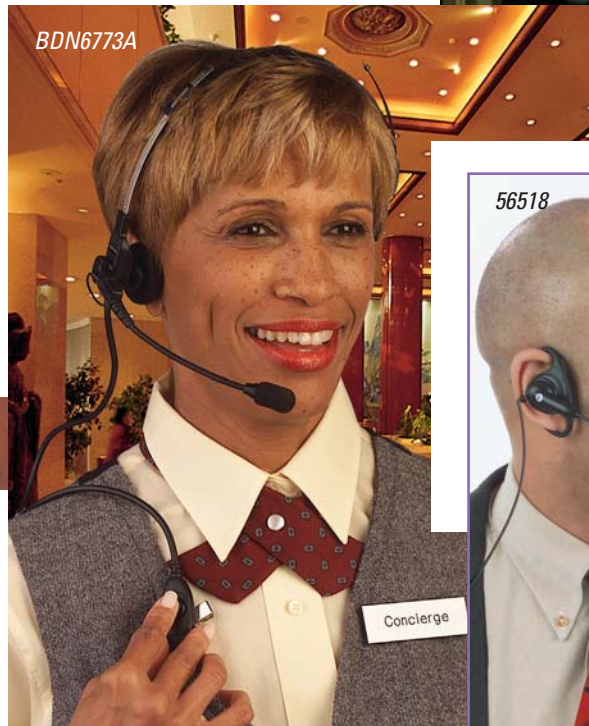
BDN6774A

Earpiece with Microphone is the perfect choice for Retail environments.

53815

BDN6773A

56518

56517

Earpiece with Microphone
BDN6774A

Earbud with Clip
Microphone and Push-to-Talk
HMN8435A

complete line of accessories...

HMN9051A

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 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.

56519

AAA Battery Tray Kit 1564200W18

Li-ion Rechargeable Battery 56557

Multi-Unit Charger 56531

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VL130 Portable

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.
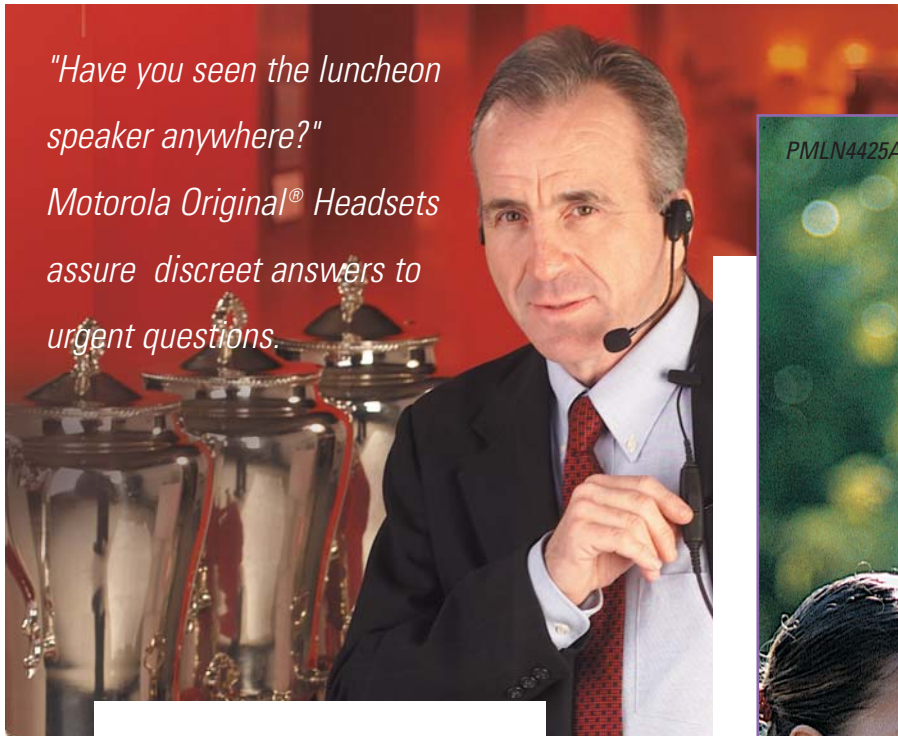
Users on the move find that the programmable function controls on VL130 two-way radios help them connect to exactly the right people.

MOTOROLA ORIGINAL®

programmed functions at reach...

"Have you seen the luncheon speaker anywhere?"
Motorola Original® Headsets assure discreet answers to urgent questions.

PMLN4425A

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.

HMN9030A

HMN9013B

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

RLN4815A

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.

4280384F89
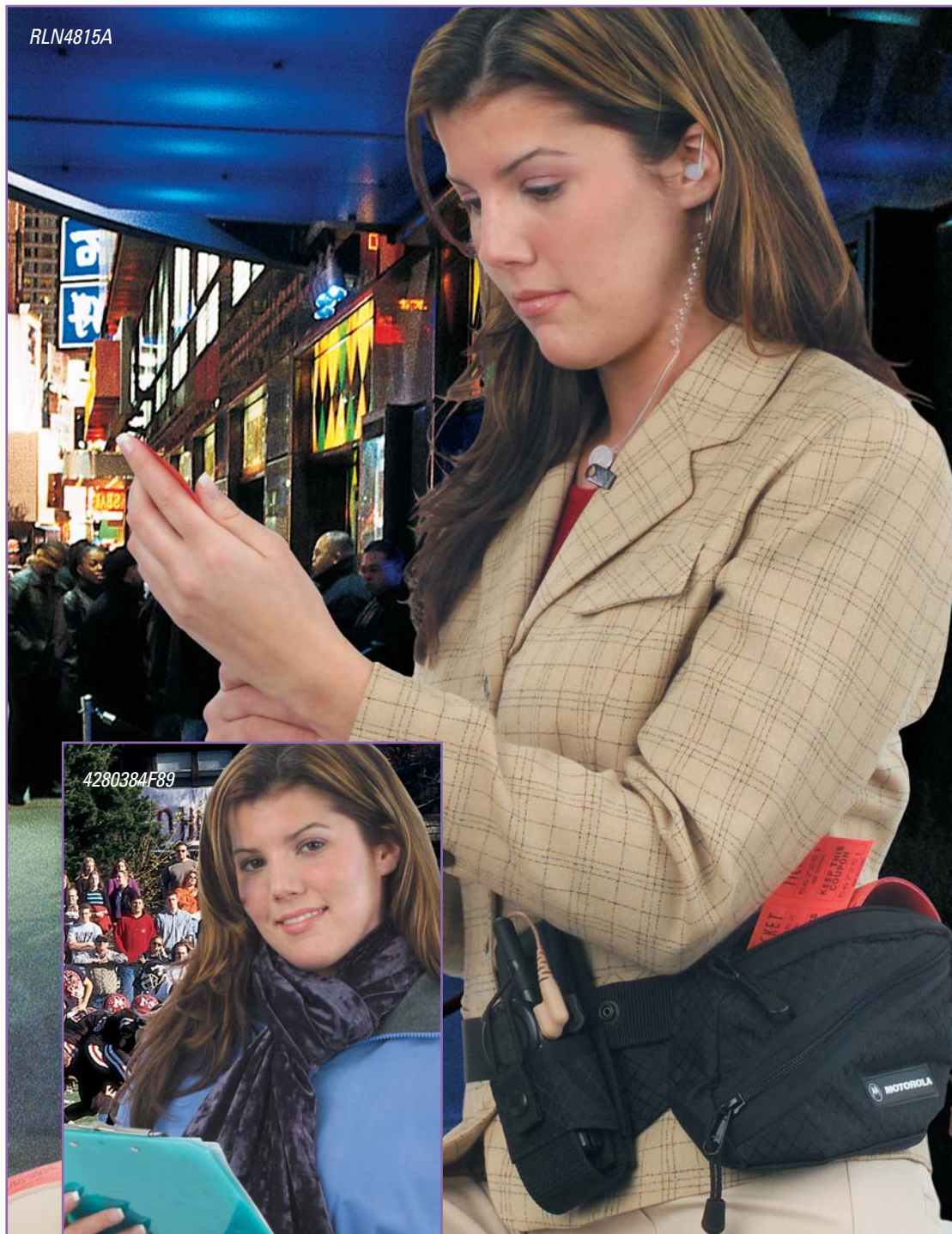
Add an Extension Belt, and a RadioPAK fits great even over bulky jackets!

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
4285820z01   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.

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

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
NAD6502AR   VHF Helical Antenna, 146-174 MHz
PMAD4012A   VHF Stubby Antenna, 136-155 MHz
PMAD4013A   VHF Stubby Antenna, 155-174 MHz
PMAD4027A   VHF Helical Antenna, 136-155 MHz
8504762J02   VHF Helical Antenna, 155-174 MHz

UHF
NAE6483AR   UHF Whip Antenna, 403-512 MHz
8504762J08   UHF Stubby Antenna, 430-470 MHz
PMAE4011A   UHF Stubby Antenna, 435-480 MHz

PMTN4087A

Rapid Rate Charger,

shown with

EPNN7994A Rapid Rate

Charger Transformer,

both sold separately.

HLN9844A

Make the most of a

VL130 two-way radio investment

with these performance-matched

Motorola Original® accessories.

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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.

MOTOROLA
ORIGINAL®

complete line of accessories...

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

HMN9051A

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

BDN6774A
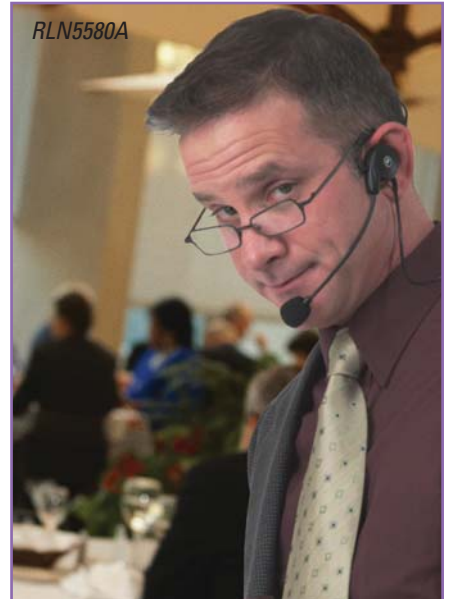
Carry Accessories

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 |

RLN5580A

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.

CP100 Portable

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.

essentials...

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.

HMN9051A

HMN8433A

NTN8371A

NTN8370A

Clear Comfortable Earpieces
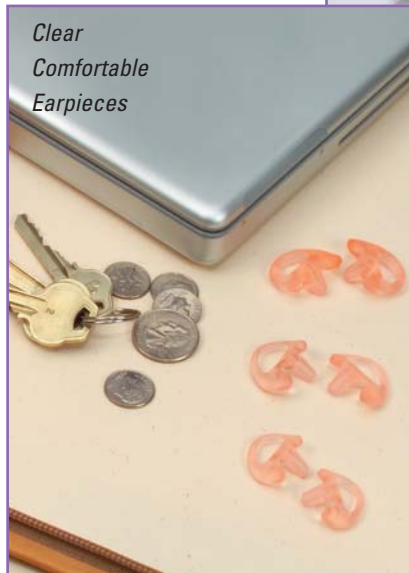
Clear Comfortable Earpieces
From top to bottom:
RLN4765A Large Left
RLN4762A Large Right
RLN4764A Medium Left
RLN4761A Medium Right
RLN4763A Small Left
RLN4760A Small Right

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BDN6773A

These stylish Headsets and Earsets 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

BDN6773A

Concierge
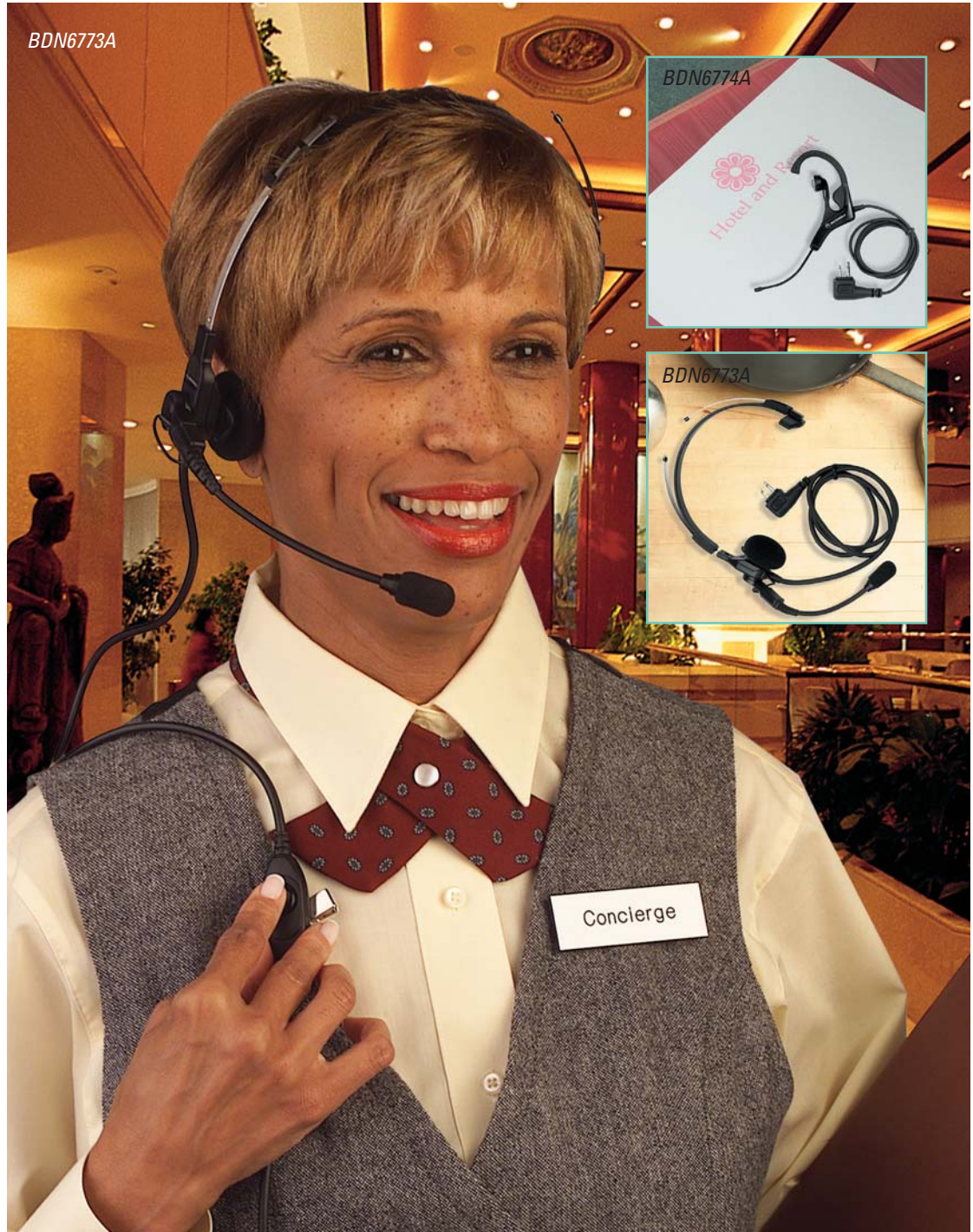
From hotels to hospitals, from schools to superstores, a Lightweight Headset helps assure clear and confidential two-way communication even over background noise.

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.

HMN9051A
NNTN4106A
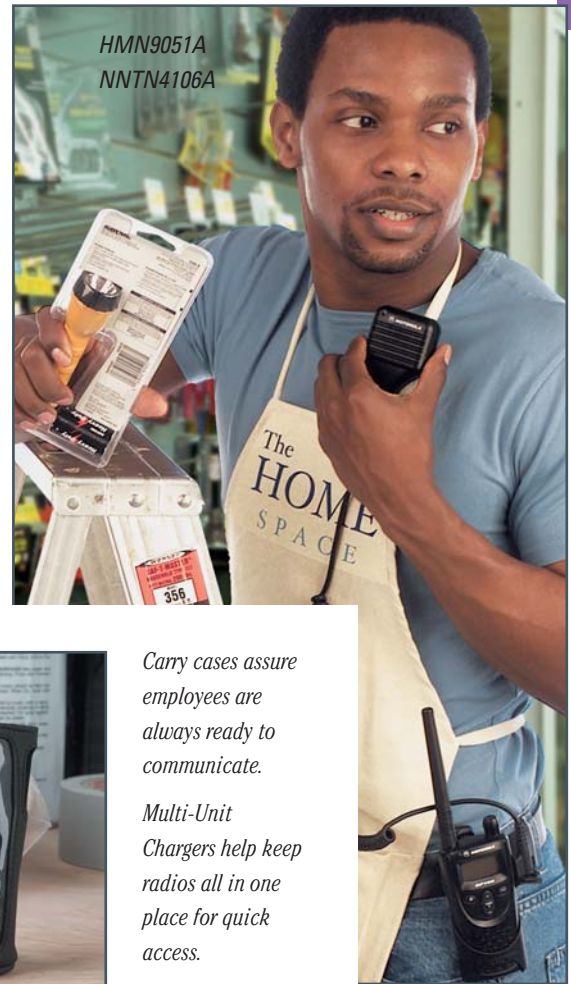
Carry cases assure employees are always ready to communicate.

Multi-Unit Chargers help keep radios all in one place for quick access.

NNTN4020A

NNTN4028BR

NNTN4019AR

NNTN4077A

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.

service to customers...

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.

audio

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.
HMN9754D*   Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige.
RLN4895A   Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Black.

HMN9754D

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.

RLN5318A   Comfort Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Black.
RLN5317A   Comfort Earpiece with Microphone and Push-to-Talk Combined (2-Wire). 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.

NTN8371A

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.

NTN8370A

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, 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

From top to bottom:

RLN4765A
RLN4762A
RLN4764A
RLN4761A
RLN4763A
RLN4760A

*Intrinsically Safe with PR400 only.
† Extra Loud Earphone exceeds OSHA limits.

EMS with

Push-to-Talk

Interface Module.
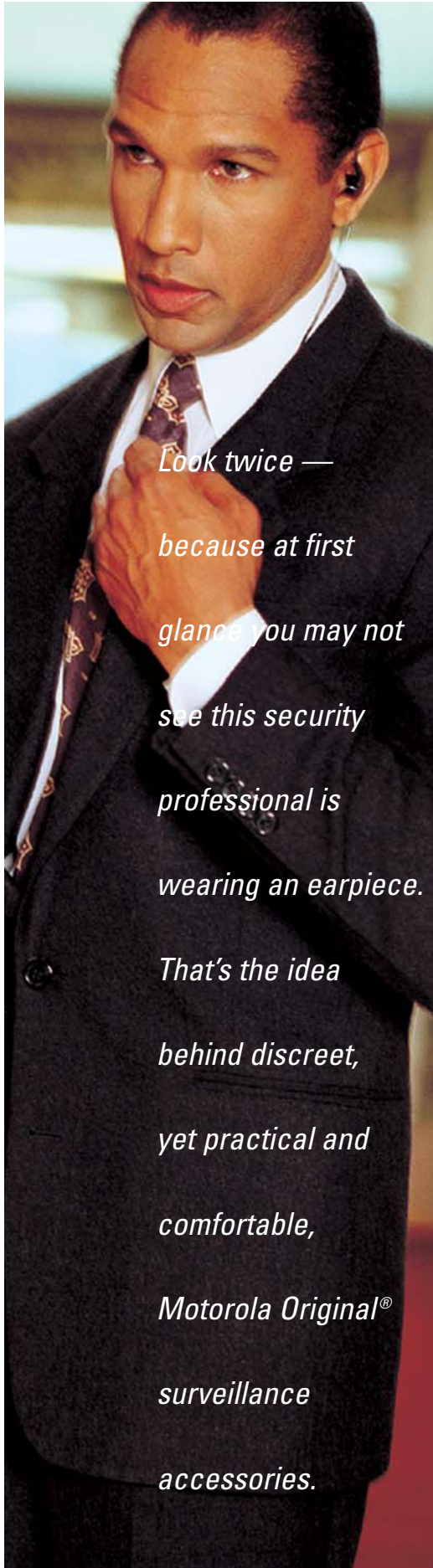
Look twice —

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.

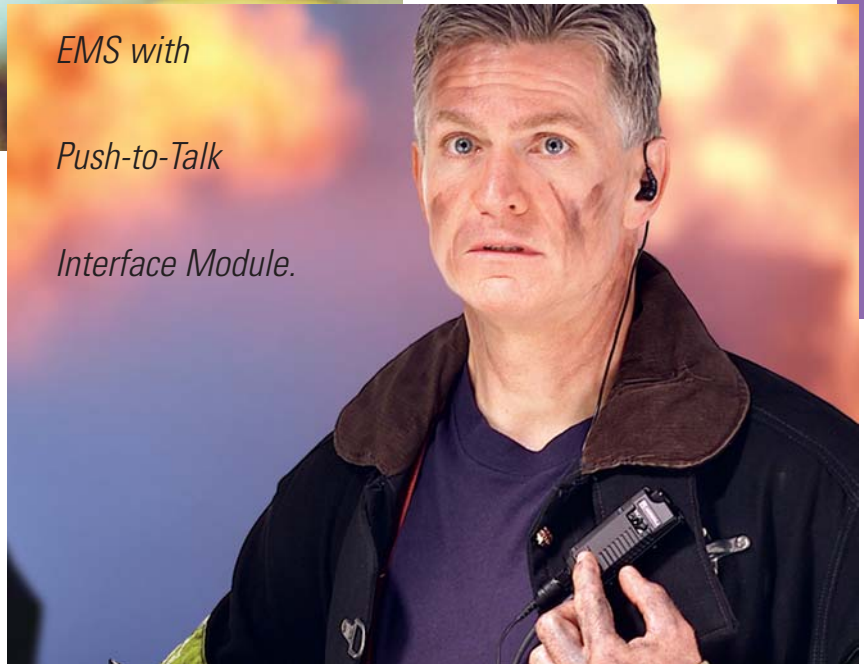|	
BDN6646C*	Standard EMS with Push-to-Talk Interface Module
	For noise levels up to 95dB.
BDN6706B*	Standard EMS with Voice-Activated Interface Module
	For noise levels up to 95dB.
	OPTIONAL ACCESSORIES FOR THE EMS
0180358B38*	Remote Push-to-Talk Ring Switch
0180300E83*	Remote Push-to-Talk Body Switch
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
5080358B28	Eartips. Black, size medium. Pack of 10.
5080358B29	Eartips. Black, size large. Pack of 10.
5080358B30	Eartips. Beige, size medium. Pack of 10.
5080358B31	Eartips. Beige, size large. Pack of 10.

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

HMN9036A

*Intrinsically Safe with PR400 only.

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The same

winning quality

and dependability

you see at professional

football stadiums

and motor speedways

can be yours with

Motorola Original®

accessories.

RMN5015A

RLN5238B

RMN5047A
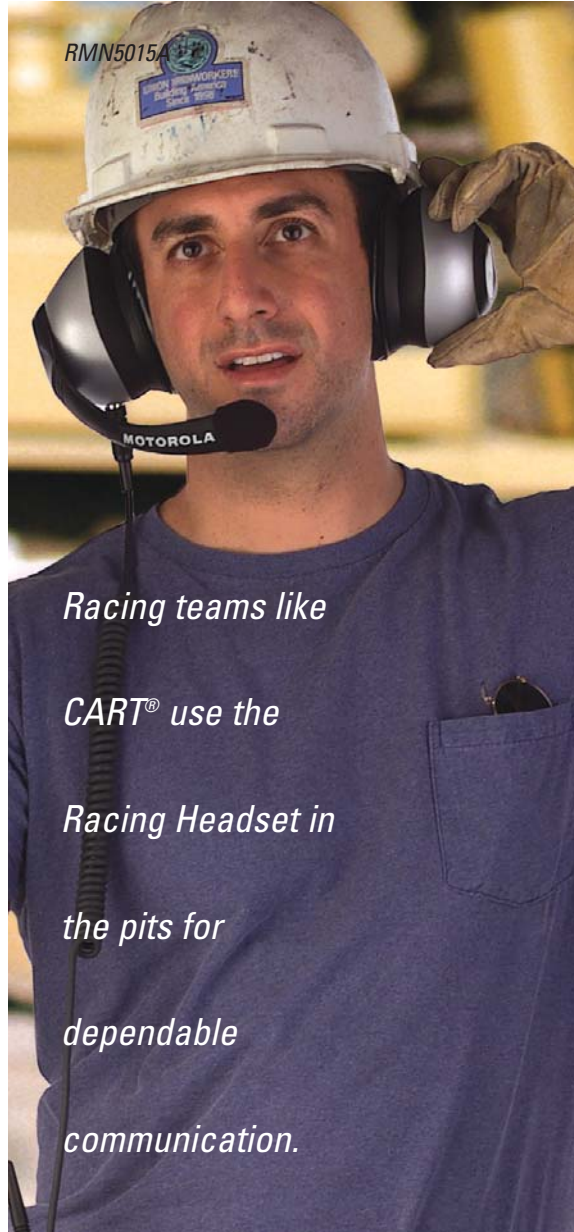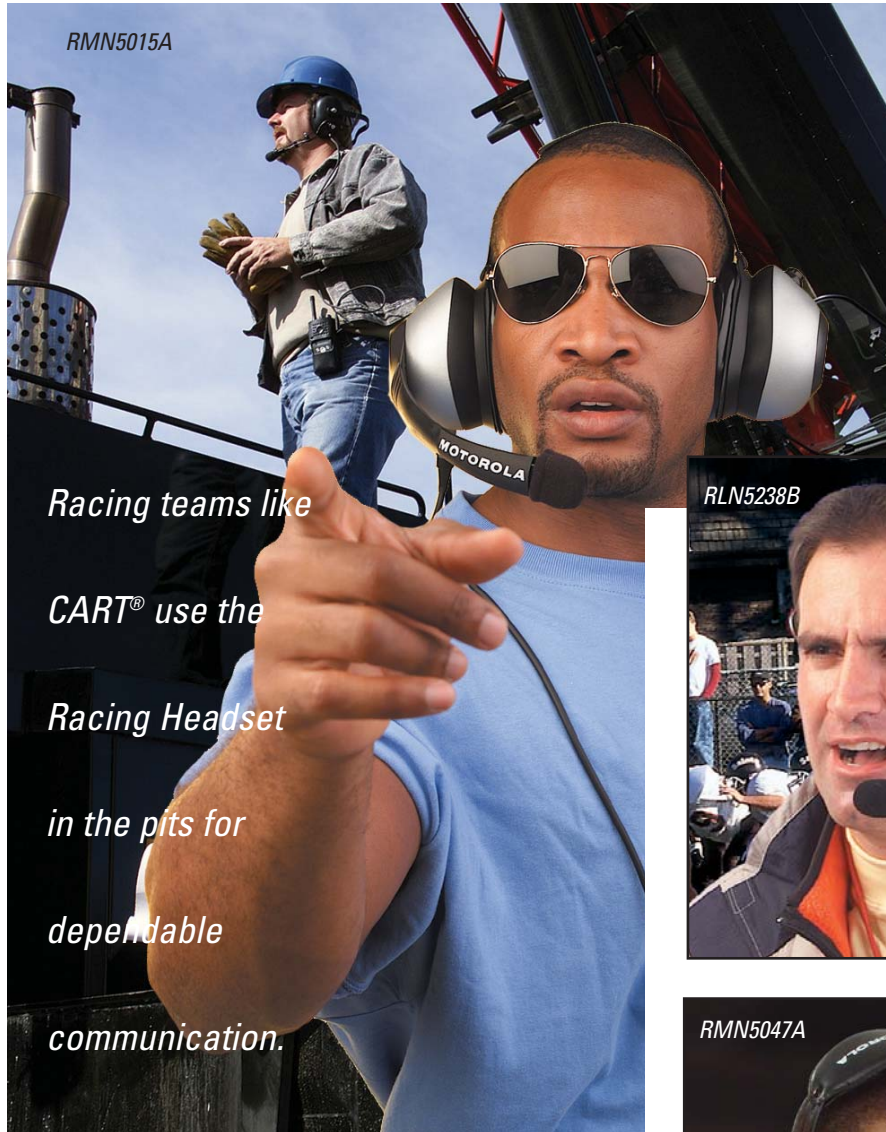
Racing teams like CART® use the Racing Headset in the pits for dependable communication.

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

PMMN4001A

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

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

HMN9013B

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

HMN9021A

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.

BDN6648C

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

*Intrinsically Safe with PR400 only.

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RLN5641A

The higher workers climb, the more important it is 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.

RLN5383A

RLN5642A

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.

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

HLN9701B

Carrying Accessories

BELT LOOPS & CLIPS

4280483B03	2.5-Inch Belt Swivel Loop
4280483B04	3-Inch Belt Swivel Loop
RLN5644A	Spring Action 2-Inch Belt Clip
HLN8255B	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.

4280384F89
RLN5644A
HLN8255B

NTN5243A

HLN6602A

Universal-fit

Chest Pack is a

comfortable solution

for keeping any

two-way radio

handy.

RLN4815A

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. For use with PR400 only.

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.

RLN4570A

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

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

WPLN4161AR

Organized types love the convenience of a Multi-Unit Charger. And no wonder, it helps assure that radios are always good to go, and keeps them in one place so there's no need to hunt throughout the office or factory.

NNTN4970A

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

WPLN4138AR

PR400 charging in a Rapid Rate Desktop Charger sports a stubby antenna.

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.

audio

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

HMN9752B

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.
HMN9754D	Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige.
RLN4895A	Earpiece with Microphone and Push-to-Talk Combined (2-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.

RLN5318A

RLN5318A	Comfort Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Black.
RLN5317A	Comfort Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige.

Noise Kits

NTN8371A

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.

NTN8370A

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).

From top to bottom:

RLN4765A
RLN4762A
RLN4764A
RLN4761A
RLN4763A
RLN4760A

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.

discreet communication...

RLN4922A

Completely

Discreet

Earpiece.

RLN4922A

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.

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!

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.
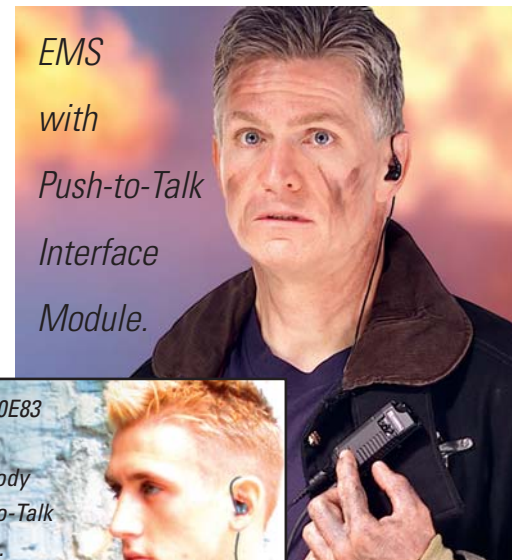
BDN6646C	Standard EMS with Push-to-Talk Interface Module For noise levels up to 95dB.
BDN6706B	Standard EMS with Voice-Activated Interface Module For noise levels up to 95dB.
	OPTIONAL ACCESSORIES FOR THE EMS
0180300E25	Earguard with Adjustable Loop
0180358B38	Remote Push-to-Talk Ring Switch
0180300E83	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
5080358B28	Eartips. Black, size medium. Pack of 10.
5080358B29	Eartips. Black, size large. Pack of 10.
5080358B30	Eartips. Beige, size medium. Pack of 10.
5080358B31	Eartips. Beige, size large. Pack of 10.

0180300E25

EMS

with

Push-to-Talk

Interface

Module.

0180300E83 EMS with Body Push-to-Talk Switch.

Pellet Style Earpieces

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

HMN9036A

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

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audio

RMN5015A

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.

RLN5238B

RMN5047A

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.

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

PMMN4001A

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.

RLN5411A

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.

RMN4051B

HMN9021A

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.

BDN6648C

carrying accessories

RLN4865A

RLN4866A

RLN4867A

RLN4873A

RLN4868A

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.

RLN4874A

RLN4871A

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
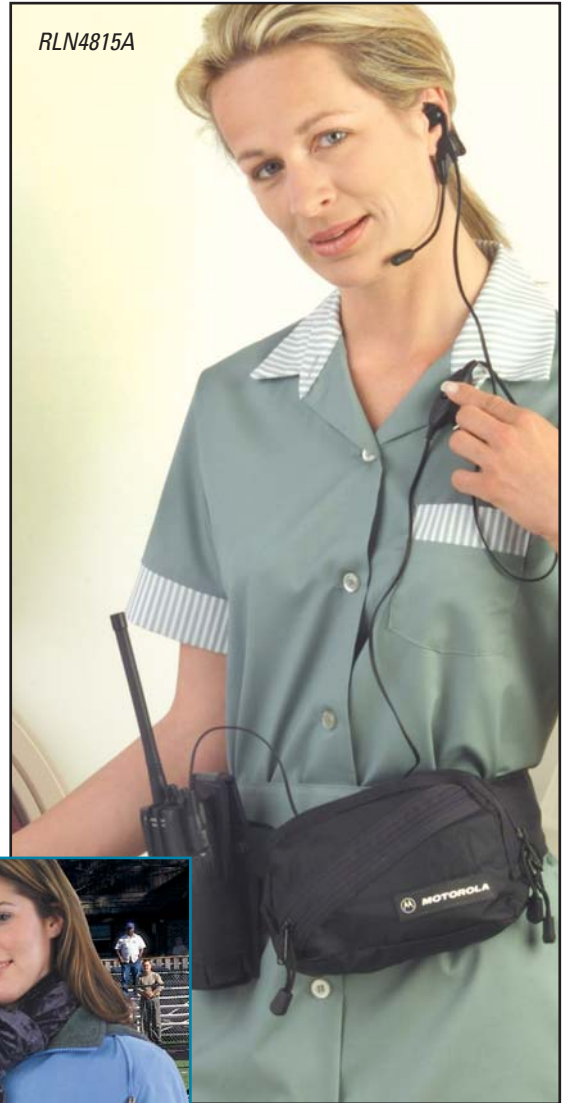|	
NTN5243A	Shoulder Carry Strap - Compatible with leather carry cases only.

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™

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

RLN4815A

4280384F89

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!

batteries & chargers

RLN5218A

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.

PMNN4018AR

AAPMTN4038B

Batteries

PREMIUM NICKEL CADMIUM - NiCD	
PMNN4021AR	NiCD Battery, 1100 mAh, 7.5 Volt
PREMIUM NICKEL METAL HYDRIDE - NiMH	
PMNN4019AR	NiMH Battery, 1200 mAh, 7.5 Volt Intrinsically Safe.
PMNN4018AR	NiMH Battery, 1250 mAh, 7.5 Volt

Chargers

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

SINGLE-UNIT	
AAPMTN4038B	Rapid Rate Single-Unit Charger, 120V
MULTI-UNIT	
RLN5218A	6-Pocket Rapid Rate Multi-Unit Charger, 120 Volt
HLN9293A	Wall Mount Bracket

essential power...

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 Order adapter plates separately.

WPPN4065BR

WPPN4065BR

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 3080384M21.
3080384M21	DC Hard Wire Cable with 3 AH in-line fuse.

Vehicular Power Adapter

3080384G15	Vehicular Power Adapter

RLN4814A

chargers

WPLN4079BR

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
	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.
WPPN4085AR	BMS^PLUS Li-ion Field Upgrade Kit
	Upgrades 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.

WPLN4124AR

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

SP50/SP50+ *Portables*

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.

MOTOROLA ORIGINAL ®

essentials...

HMN9030A

This compact, water-resistant Remote Speaker Microphone allows radio users to talk and listen without removing the radio from the belt or case.

rugged conditions...

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.

audio

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.
HMN9754D	Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige.
RLN4895A	Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Black.

HMN9752B

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.

RLN5318A	Comfort Earpiece with Microphone and Push-to-Talk Combined (2-Wire) Black.
RLN5317A	Comfort Earpiece with Microphone and Push-to-Talk Combined (2-Wire) Beige.

RLN5318A

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.

NTN8371A

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.

NTN8370A

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

From top to bottom:

RLN4765A
RLN4762A
RLN4764A
RLN4761A
RLN4763A
RLN4760A

[†] Extra Loud Earphones exceed OSHA limits.

discreet communication...

RLN4922A

Completely

Discreet

Earpiece.

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.

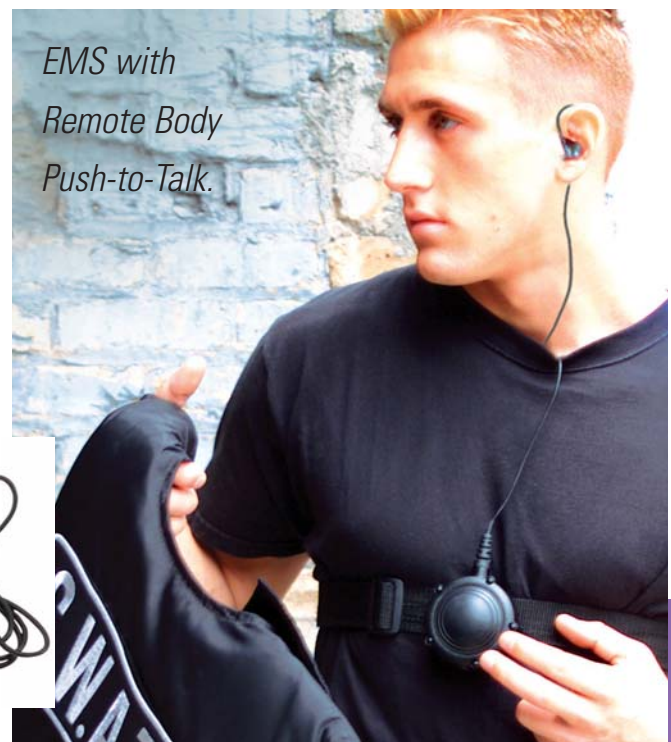|	
RLN4922A	Completely Discreet Earpiece Kit
RLN4919A	Replacement Earguards, 5 per pack.
RNN4005A	Replacement 1.4 Volt Batteries, 6 per pack.

RLN4922A

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!

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
0180358B83	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
5080358B28	Eartips. Black, size medium. Pack of 10.
5080358B29	Eartips. Black, size large. Pack of 10.
5080358B30	Eartips. Beige, size medium. Pack of 10.
5080358B31	Eartips. Beige, size large. Pack of 10.

EMS with Remote Body Push-to-Talk.

Pellet Style Earpieces

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

HMN9036A

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

audio

RMN5015A

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.

RLN5238B

RMN5047A

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.

PMMN4001A

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

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 HMN9013A and RMN4016A

RLN5411A

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.
                  R E P L A C E M E N T   E A R S E A L S
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.

RMN4053B

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.

HMN9021A

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

RMN4051B

carrying accessories

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 are available in sizes designed to fit radios with a battery and permit audio to be heard clearly.

HLN9125B

HLN9128B

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.

HLN9149AR

RLN4815A

Universal-fit RadioPAK

is a lightweight,

stylish way

to protect any

two-way radio,

iDEN® phone or

cellular phone.

4280384F89

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

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

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.

RLN4570A

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.

TDN9327A

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

batteries & chargers

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.

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

HNN9044AR

HTN9013B

Batteries

PREMIUM NICKEL CADMIUM - NiCD

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.

HTN9014C

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.

essential power...

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.
WPPN4008BR	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.

WPPN4065BR

WPPN4065BR

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 3080384M21.
3080384M21	DC Hard Wire Cable. For vehicular installation.

RLN4814A

Vehicular Power Adapter

3080384G15	Vehicular Power Adapter

MOTOROLA ORIGINAL ®

45

chargers

WPLN4079BR

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
                     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.
WPPN4085AR   BMS^{PLUS} Li-ion Field Upgrade Kit
                     Upgrades WPLN4079AR, WPLN4080AR, 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
TDN9447A   Standard Adapter. For use with HNN9044A and HNN9018A batteries.

WPLN4124AR

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

P1225/P1225·LS Portables

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.

RLN5317A

PMMN4001A

field programmable...

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.

audio

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

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.
HMN9754D*	Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige.
RLN4895A	Earpiece with Microphone and Push-to-Talk Combined (2-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.

RLN5318A

RLN5318A	Comfort Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Black.
RLN5317A	Comfort Earpiece with Microphone and Push-to-Talk Combined (2-Wire). 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.

NTN8371A

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.

NTN8370A

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 hypo-allergenic material. Compatible with NTN8371A and all Motorola Surveillance Kits (1, 2, and 3-wire).

From top to bottom:

RLN4765A
RLN4762A
RLN4764A
RLN4761A
RLN4763A
RLN4760A

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.

MOTOROLA
ORIGINAL

discreet communication...

RLN4922A

Completely

Discreet

Earpiece.

RLN4922A

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.

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!
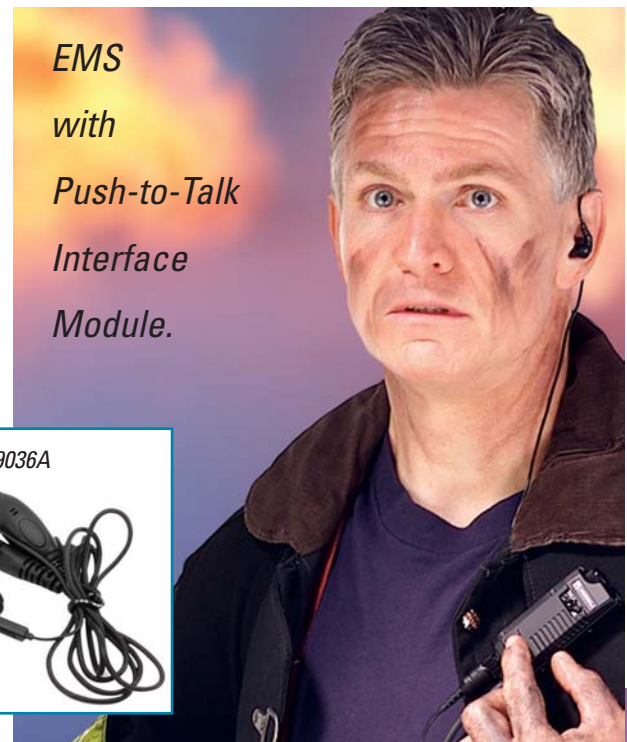
Ear Microphone Systems (EMS)

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 worm 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
0180358B83	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
5080358B28	Eartips. Black, size medium. Pack of 10.
5080358B29	Eartips. Black, size large. Pack of 10.
5080358B30	Eartips. Beige, size medium. Pack of 10.
5080358B31	Eartips. Beige, size large. Pack of 10.

EMS

with

Push-to-Talk

Interface

Module.

HMN9036A

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.

RMN5015A

The same winning quality and dependability you see at professional football stadiums and motor speedways can be yours with Motorola Original® accessories.
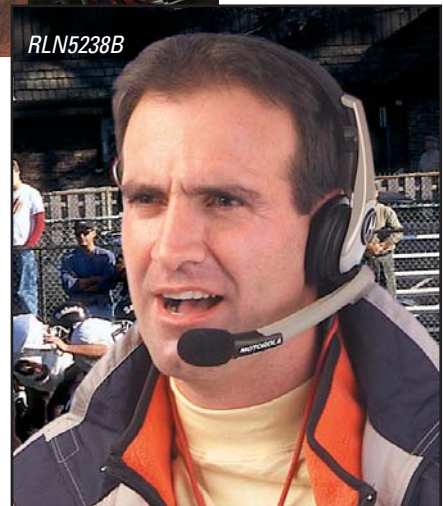
Racing teams like CART® use the Racing Headset in the pits for dependable communication.

RLN5238B

RMN5047A

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...

MOTOROLA
ORIGINAL ®

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.
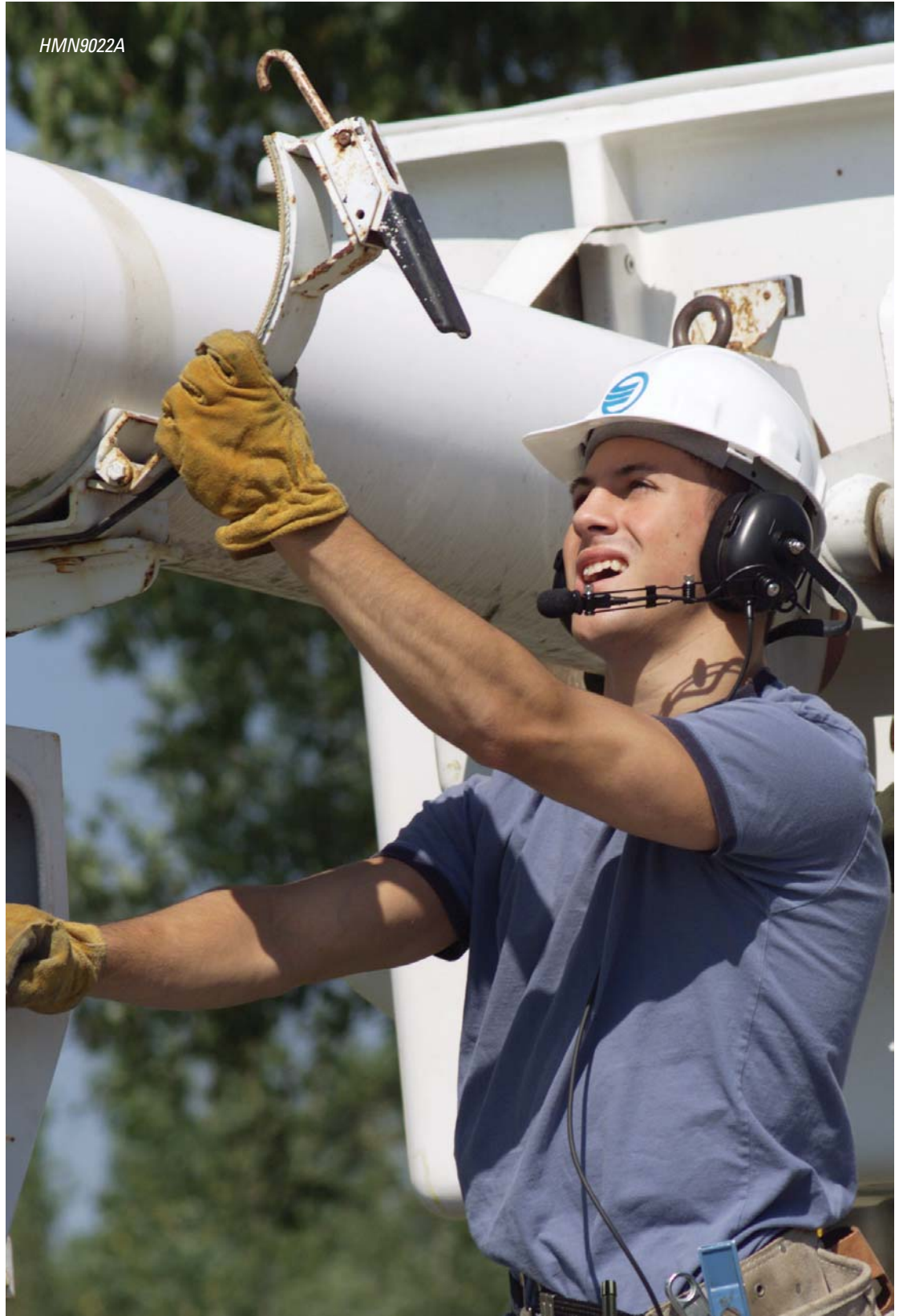
*Intrinsically Safe.

PMMN4001A

RLN5411A

HMN9013B

BDN6720A

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audio

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.

HMN9022A

safer communication...

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.

RMN4053B

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.

HMN9021A

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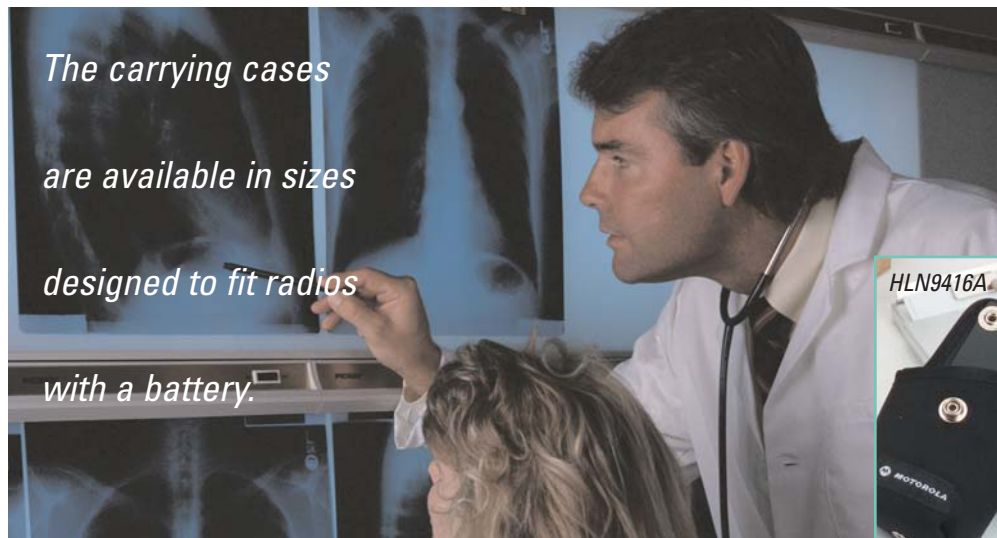
This Heavy-Duty Headset includes a noise-cancelling boom microphone and can be worn with or without a hardhat. The Push-to-Talk switch is located on the earcup. On voice-activated models, the VOX module is contained within the headset.

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

BDN6648C

carrying accessories

The carrying cases

are available in sizes

designed to fit radios

with a battery.

HLN9416A

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.

HLN9323A

LEATHER CARRYING CASES
HLN9417A	Standard Leather Case with Belt Loop and D-Rings For use with Shoulder Strap.
HLN9323A	Standard Leather Case with Swivel

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

HLN9417A

Carrying Accessories

BELTS
4200865599	1.75-Inch Wide Leather Belt - All models.

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

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.

HLN9238A

WRIST STRAP
HLN8052A	Wrist Strap

SWIVELLER
HLN9149AR	Swivel Belt Loop Adapter

CARRYING STRAP
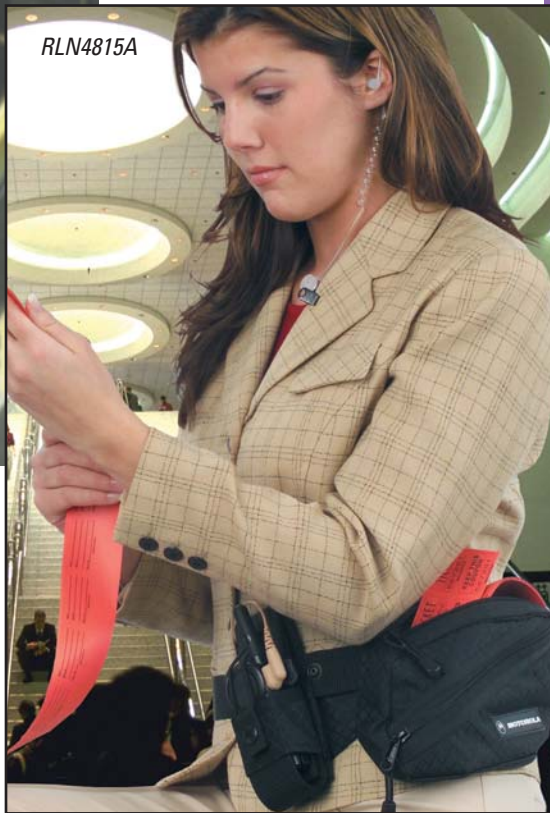|	
NTN5243A	Shoulder Carry Strap - Compatible with leather carry cases only.
HLN9973A	Replacement Strap for Nylon and Leather Cases
HLN9974B	Replacement Strap for Carrying Cases. Fits P1225·LS DTMF models.
HLN9015A	Replacement Strap for Leather Cases For HLN9416A, HLN9417A, HLN9323A, HLN9239A.

HLN9973A

MOTOROLA ORIGINAL®

HLN6602A

Universal-fit

Chest Pack is a

comfortable solution

for keeping any

two-way radio handy.

RLN4815A

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

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.

RLN4570A

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.

TDN9327A, TDN9373A

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

RLN4943A

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batteries & chargers

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

HTN9042A

Batteries

PREMIUM NICKEL CADMIUM - NiCD
HNN9049A   NiCD Battery, 1200 mAh, 7.5 Volt
HNN9050A   NiCD Battery, 1200 mAh, 7.5 Volt. Intrinsically Safe.

PREMIUM NICKEL METAL HYDRIDE - NiMH
HNN9051A   NiMH, 1400 mAh, 7.5 Volt. Compatible only with Intellichargers.

HLN9719A

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

HNN9049A

Vehicular Charging Bracket

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

HLN9719A   Vehicular Charger Adapter/Bracket, 12 Volt

HTN9702A

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

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
HLN9293A   Wall Mount Bracket
            For 90-Minute Multi-Unit Charger
HLN9944A   Wall Mount Bracket for Multi-Unit Chargers

HTN9060A

essential power...

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.

WPPN4065BR

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.

WPPN4065BR

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 3080384M21.
3080384M21	DC Hard Wire Cable. For vehicular installation.
3080384G15	Vehicular Power Adapter Cord

RLN4814A

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.

RLN4833A

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chargers

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.

WPLN4079BR

WPLN4124AR

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

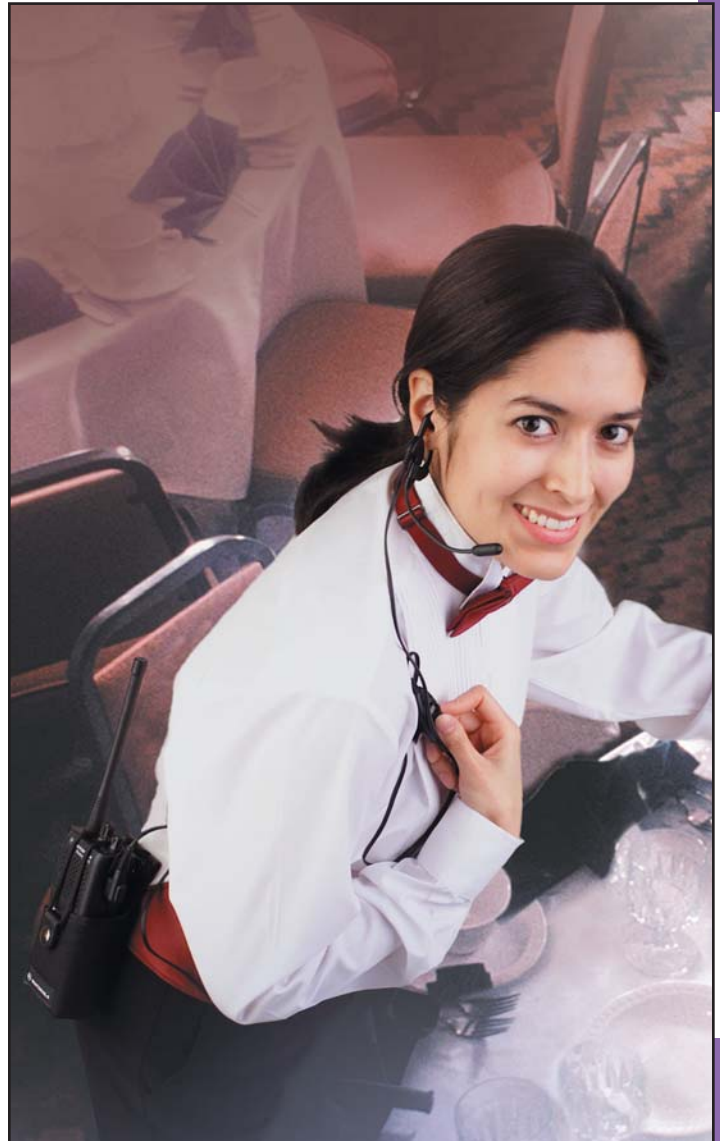|	
HAD9728B	VHF Antenna Kit, 146-174 MHz

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

GTX Portable

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.

audio

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

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.
HMN9754D	Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige.
RLN4895A	Earpiece with Microphone and Push-to-Talk Combined (2-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.

RLN5318A

RLN5318A	Comfort Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Black.
RLN5317A	Comfort Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige.

Noise Kits

NTN8371A

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.

NTN8370A

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 hypo-allergenic material. Compatible with NTN8371A and all Surveillance Kits (1, 2, and 3-wire).

From top to bottom:

RLN4765A
RLN4762A
RLN4764A
RLN4761A
RLN4763A
RLN4760A

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.

RLN4922A

Completely

Discreet

Earpiece.

RLN4922A

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.

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!

Flexible Ear Receiver

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

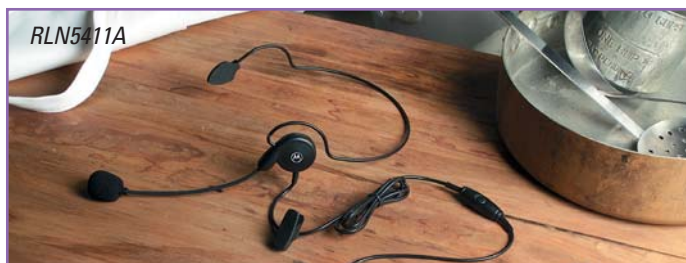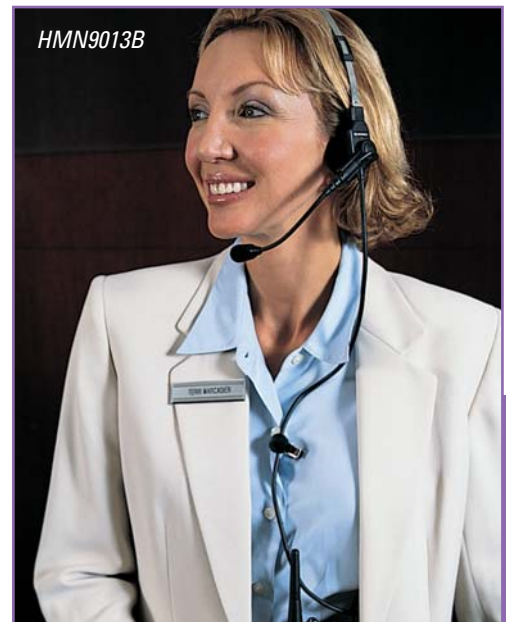|	
BDN6720A	Flexible Ear Receiver
7580372E11	Replacement Foam Ear Cushion for BDN6720A.

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.

HMN9013B

RLN5411A

Carrying cases are available in sizes designed to fit radios with a battery and permit audio to be heard clearly.

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" — users can trust their radio investment to be securely protected.

HLN9428A

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.

STANDARD BELT LOOP CARRYING CASES

HLN9428A	DTMF Leather Case with Belt Loop - Standard battery.
HLN9873A	Leather Case with Swivel
HLN9429A	DTMF Leather Case with Belt Loop - FM approved 1100 mAh battery.
HLN9431A	DTMF Leather Case with Belt Loop - FM approved 600 mAh slim battery.

HIGH ACTIVITY SWIVEL CARRYING CASES

HLN9421A	DTMF Leather Case with High Activity Swivel Belt Loop - Standard battery.
HLN9720A	DTMF Leather Case with Belt Loop and D-Rings
HLN9426A	DTMF Leather Case with High Activity Swivel Belt Loop For FM approved 1100 mAh battery.
HLN9427A	DTMF Leather Case with High Activity Swivel Belt Loop For FM approved 600 mAh battery.

HLN9421A

Carrying Accessories

CARRY HOLDER

HLN9076B	Molded Carry Holder - High capacity battery.

BELT CLIPS

HLN9724A	2.5-Inch Belt Clip
HLN8255B	Spring Action 3-Inch Belt Clip

SWIVELLER

TDN1002A	Swiveller. Includes holster belt and strap.
TDN1003A	Spare Swiveller Button
HLN9149AR	Swiveller Belt Loop Adapter. For HLN9421A, HLN9426A, HLN9427A.

T-STRAPS

HLN9975A	Strap for DTMF. Snap closure.

CARRYING STRAPS

NTN5243A	Adjustable Black Carrying Strap. Attaches to D-Ring on case.

HLN9076B

NTN5243A

HLN6602A

Universal-fit

Chest Pack is

a comfortable

solution for keeping

any two-way

radio handy.

RLN4815A

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.

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

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.

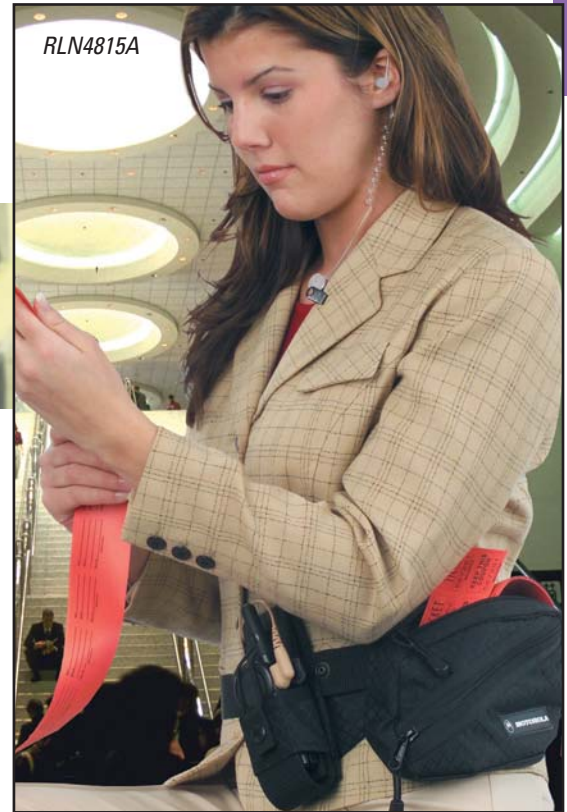|	
TDN9327A	Portable Radio Hanger. For door panels up to 2.75 inches.
TDN9373A	Portable Radio Hanger. For door panels 2.75 to 3.25 inches.

RLN4570A

TDN9327A, TDN9373A

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.

RLN4943A

67

batteries & chargers

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.

HTN9042A

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

HLN9719A

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.

HTN9702A

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.
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

HLN9293A	Wall Mount Bracket for 90-Minute Multi-Unit Charger
HLN9944A	Wall Mount Bracket for Multi-Unit Chargers

HTN9014C

essential power...

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.

WPPN4065BR

WPPN4065BR

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 HTN9630, HTN9802, HTN9803, HTN9167, HTN9168, 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

RLN4814A

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.

RLN4833A

chargers

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
WPPN4085AR	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.

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

WPLN4079BR

Battery Maintenance System^{PLUS} Adapters

TDN9437A	Adapter. For use with HNN9701A battery.
TDN9662A	Adapter. For use with HNN9628A battery.
TDN9438A	Adapter. For use with HNN8308A/HNN9808B 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,
	90-264 Volt AC, 50/60 Hz
	Ships with US line cord.
	Adapter plates required.
WPLN4125AR	BOS II 4-Station Reconditioner,
	90-264 Volt AC, 50/60 Hz
	Ships with European/UK line cord.
	Adapter plates required.

- 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

WPLN4124AR

BOS Battery Adapter

|	
RL-71883	Standard Adapter

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.
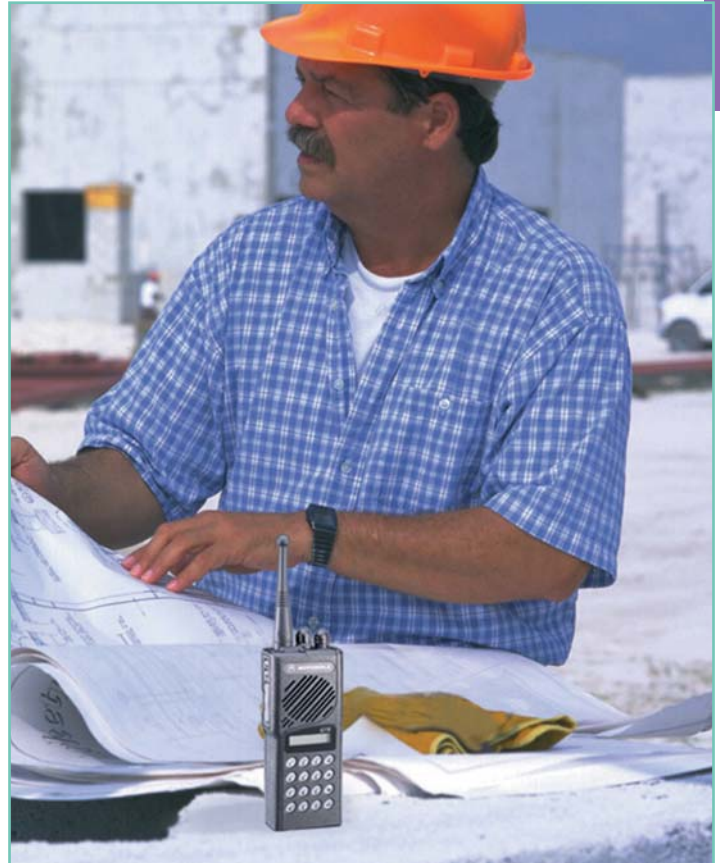
Construction

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.

AAREX4617A

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
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.

AAREX4617A

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.

HSN8145B

HSN1000B

RSN4001A

communicate clearly...

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.
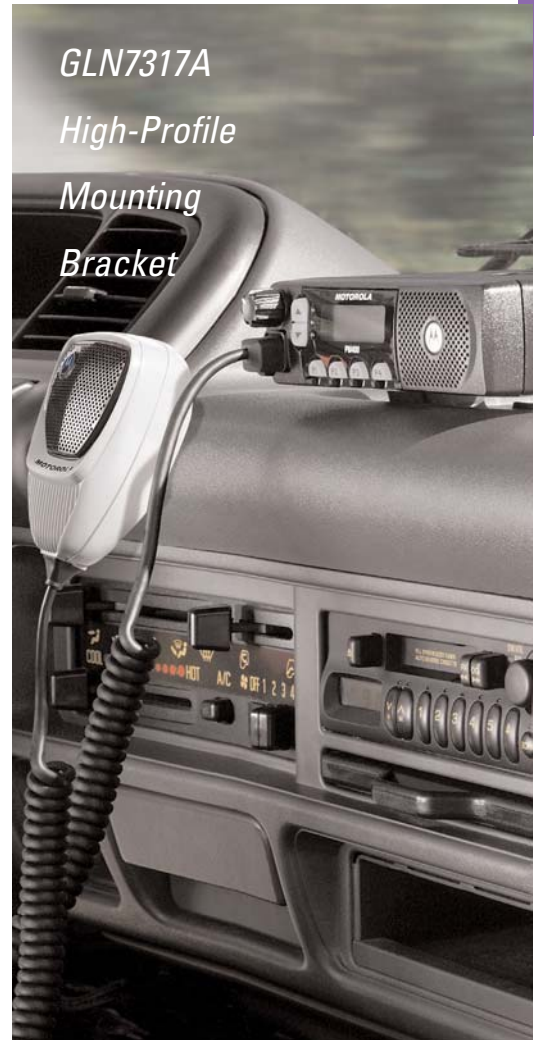
GLN7317A

High-Profile

Mounting

Bracket

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

HMN3000B
RLN5391A

The PM400

converts easily

to a desktop

base station

when a desktop

microphone and

desktop tray

are utilized.
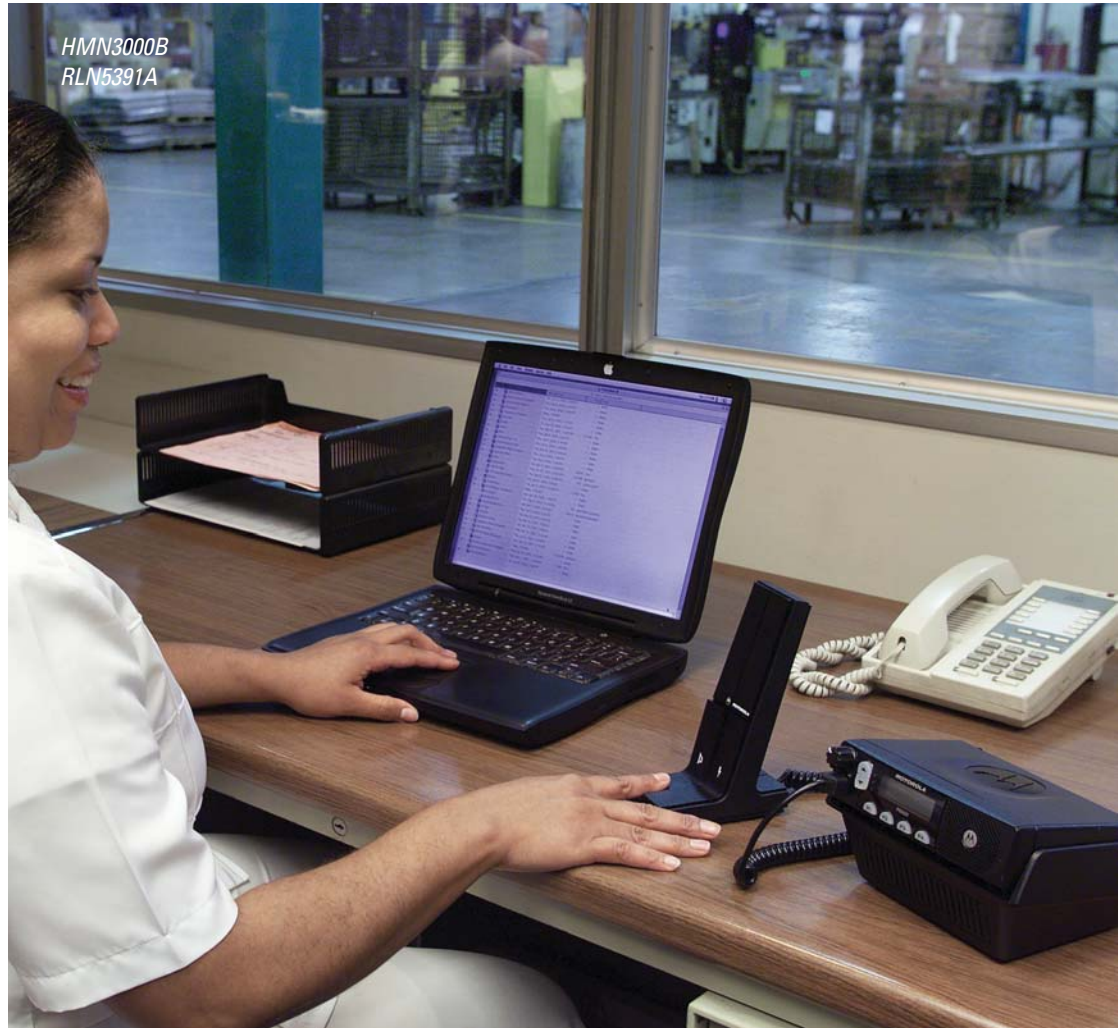
Control Station Accessories

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 & antennas

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.

RDN7364A	Base Radio Channel Controller
RDN7367A	Mobile Display Terminal with GPS
RDN7368A	Mobile Display Terminal
RDN7369A	Stand-Alone Modem with GPS
RDN7372A	Fixed Mount GPS Active Antenna
RDN7373A	Mobile Printer
RDN7374A	Programming Software
RDN7375A	Magnetic Mount GPS Antenna
RDN7377A	MAPS (US) Regional Software
RDN7378A	AVL Messaging Status Software
RDN7380A	Mobile Programming Hardware
RDN7738A	Serial Breakout Unit
RDN7739A	3-Foot Flying Lead Cable
RDN7740A	15-Foot Flying Lead Cable

RDN7368A
Mobile Display Terminal

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

GTX Mobile

HMN3413A

HMN1035C

Microphones

HMN3413A	Standard Compact Microphone
HMN3220B	Compact Microphone with Hang Up Kit
HMN4016A	Noise-Cancelling Microphone
	Screens out background noise.
	GTX Privacy Plus only.
HMN1035C	Heavy-Duty Palm Microphone.
	Comes with 10.5-foot coil cord.
HMN3013A	Non-Backlit Full Size DTMF Microphone
AAREX4617A	Telephone-Style Handset

AAREX4617A

Speakers

HSN9326A	External 5 Watt Speaker
	For extremely noisy environments.
	Requires 16-pin connector.
FSN5510A	External 7.5 Watt Speaker
	Offers high level of volume output.

Cables

GKN6270A	Standard Power Cable
GKN6271A	Ignition Switch Cable
HKN4191B	Power Supply Cable
	High Power (60W) power supply cable.

Alarms

GKN6272AR	External Alarm Relay Cable Kit
GLN7323A	Emergency Foot Switch

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

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.
HLN6405A	Rubber Desk Tray without Speaker. Low power, for use with model 1.
HMN3000B	Desktop Microphone
HKN9088B	Adapter Cable

HLN6405A

Desktop Microphone HMN3000B requires Adapter Cable HKN9088A, replacements sold separately.

Antenna Kits

800 MHz

HAF4002A	806-900 MHz 1/4 Wave Roof Mount Antenna
RRA4914B	806-900 MHz 3dB Gain Stainless Roof Mount Antenna
RRA4990A	809-900 MHz 3dB Gain Black Chrome Roof Mount Antenna
RRA4983A	806-900 MHz 3dB Gain Low Loss Stainless Roof Mount Antenna
RRA4986A	806-900 MHz 3dB Gain Low Loss Black Chrome Roof Mount Antenna

900 MHz

RRA4935A	890-960 MHz 3dB Gain Roof Mount Antenna (14-foot cable)
RAF4003ARM	890-960 MHz 3dB Gain low Loss Roof Mount Antenna (22-foot cable)

ANTENNA ADAPTERS

HKN9557A	Mini UHF to UHF Adapter Cable
2880376E84	Mini UHF Antenna Connector
HLN8027A	Mini UHF to BNC Connector

RRA4935A

HAF4002A
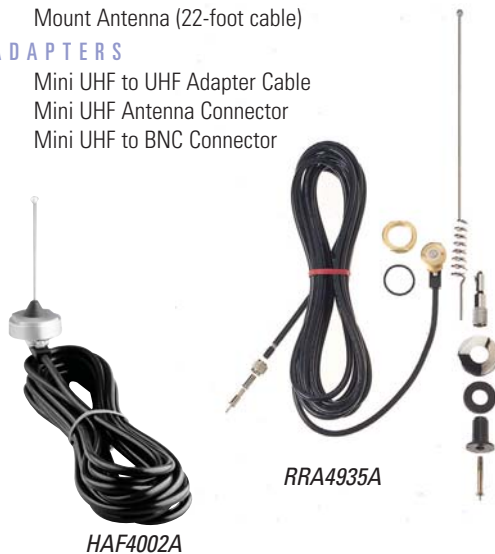
Low Profile Antennas

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

800MHz

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
3080384M45	Chrome Magnetic With 12 feet of RG58A/U Cable, Mini-UHF Crimp
3080384M48	3/4 Roof Mount With 17 feet of RG58A/U Cable, Mini-UHF Crimp
3080384M46	Chrome Trunk Mount With 17 feet of RG58A/U Cable, Mini-UHF Crimp
3080384M47	Black Trunk Mount With 17 feet of RG58A/U Cable, Mini-UHF Crimp

M1225 Mobile

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.

HMN3001A

HMN1035C

Microphone Accessories

HLN9559A	7-Foot Extended Coil Cord for Heavy-Duty Microphones
HLN9560A	10.5-Foot Coil Cord for Microphones
HLN9073B	Microphone Hang-Up Clip. Compatible with all microphones.
HLN9414A	Universal Hang-Up Clip. Compatible with all microphones.

AAREX4617A

complete line of accessories...

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 HPN9383 only.
HMN3000B	Desktop Microphone. Black.
HLN9226C	Mobile Holder. Attaches mobiles to power supply.
HKN9088B	Mobile Mini-U Antenna Adapter 8-foot cable.

Desktop Microphone HMN3000B requires Adapter Cable HKN9088B, replacements sold separately.

HPN8393D

Vehicular Power Adapter

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

Installation Accessories

HKN4137A	HKN4137A 16-Pin Conductor Cable—same as HLN9969 (3-foot long enhanced connectors) Low Power Cable to Battery
HKN9327BR	Ignition Switch Cable with Housing Connector SM50/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	150.8-162 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
RAD4000AMB	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	450-470 MHz 5dB Gain Roof Mount Antenna
RAE4004AMB	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

MOTOROLA
ORIGINAL ®

We continually improve Motorola two-way radios to 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	SP21™	GP350™	GP300™
Remote Speaker Microphones				
HMN9051	Remote Speaker Microphone with Coiled Cord and Swivel Clothing Clip	X		
HMN9031	Remote Speaker Microphone with Coiled Cord and Swivel Clothing Clip		X	
HMN9030	Remote Speaker Microphone with Coiled Cord and Swivel Clothing Clip			X
Ear Microphones and Accessories				
HMN9047	Ear Microphone with Voice Activated and Push-to-Talk Interface Module		X	
HMN9048	Ear Microphone with Push-to-Talk Interface Module		X	
BDN6706	Ear Microphone with Voice Activated and Push-to-Talk Interface Module			X
BDN6646	Ear Microphone with Push-to-Talk Interface Module			X
0180358B33	Medium Earholder for Ear Microphone System (EMS)		X	X
0180300E83	Body Switch Push-to-Talk for Ear Microphone System (EMS)		X	X
0180358B38	Ring Switch Push-to-Talk for Ear Microphone System (EMS)		X	X
Audio Earpieces and Accessories				
BDN6720	Flexible Ear Receiver, Black - Earpiece without Volume Control. GP350 requires Audio Adapter HLN9482.		X	X
HMN9040	Flexible Ear Receiver, Black - Earpiece without Volume Control	X		
HMN9727	Earpiece without Volume Control, Beige (1-Wire)			X
HMN8433	Earpiece without Volume Control, Beige (1-Wire)	X		
HMN9043	Earpiece with Volume Control, (1-Wire)		X	
HMN9752	Earpiece with Volume Control, Beige (1-Wire)			X
RLN4894	Earpiece without Volume Control, Black (1-Wire)			X
HMN9042	Earpiece without Volume Control, (1-Wire)		X	
BDN6774	Ultra-Light Earpiece with Boom Microphone and In-Line PTT	X		
PMMN4001	Ultra-Light Earpiece with Boom Microphone and In-Line PTT. GP350 requires Audio Adapter HLN9482.		X	X
RLN5317	2-Wire Comfort Earpiece with Combined Microphone and PTT, Beige GP350 requires Audio Adapter HLN9482.		X	X
RLN5318	2-Wire Comfort Earpiece with Combined Microphone and PTT, Black GP350 requires Audio Adapter HLN9482.		X	X
HMN9044	Earpiece with Microphone and Push-to-Talk Combined, (2-Wire)		X	
HMN9754	Earpiece with Microphone and Push-to-Talk Combined, Beige, (2-Wire)			X
RLN4895	Earpiece with Microphone and Push-to-Talk Combined, Black, (2-Wire)			X
NTN8370	Extreme Noise Kit. Noise Reduction Rating = 24dB.	X	X	X
NTN8371	Low Noise Kit	X	X	X
5080384F72	Replacement Foam Plugs - Pack of 50. For use with NTN8370, Noise Reduction Rating = 24dB.	X	X	X
5080370E97	Replacement Rubber Eartips - Pack of 25.	X	X	X
RLN4922	Completely Discreet Earpiece		X	X
HLN9482	Audio Accessory Adapter. Allows GP350 radio to use GP300 accessories.		X	
HLN8096	Audio Accessory Security Clamp			X
Headsets and Accessories				
RLN5411	Ultra-Light Headset, Behind-the-Head with In-Line PTT and Boom Microphone. GP350 requires Audio Adapter HLN9482.		X	X
RLN5238	NFL® Style Lightweight Headset. GP350 requires Audio Adapter HLN9482.		X	X
RMN5047	NFL® Style Heavy-Duty Headset. GP350 requires Audio Adapter HLN9482.		X	X
HMN9013	Lightweight, Adjustable Headset with Swivel Boom Microphone. GP350 requires Audio Adapter HLN9482.		X	X
HMN9046	Lightweight, Adjustable Headset with Swivel Boom Microphone		X	
BDN6773A	Lightweight, Adjustable Headset with Swivel Boom Microphone	X		
HMN9021	Medium Weight, Dual-Muff Headset, Over- the-Head. Noise Reduction Rating = 24dB. GP350 requires Adapter HLN9482.		X	X
HMN9022	Medium Weight, Dual-Muff Headset, Behind-the-Head. Noise Reduction Rating = 24dB. GP350 requires Adapter HLN9482.		X	X
BDN6647	Medium Weight, Single-Muff Headset with Boom Microphone. GP350 requires HLN9482 Adapter.		X	X
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 HLN9482.		X	X
RMN5015	Racing Headset. Noise Reduction Rating = 24dB. Requires Adapter Cable RKN4090.			X
RKN4090	Adapter Cable for Racing Headset RMN5015			X
REX4648	Replacement Windscreen and Foam Ear Pad for BDN6773, RMN4016 and HMN9013.	X	X	X
5080371E66	Replacement Ear Pads. For use with BDN6647.		X	X
3580371E59	Replacement Windscreen for Boom Microphone. For use with BDN6647.		X	X
RMN4051	Two-way Hardhat Mount Headset. Noise Reduction = 22dB. GP300 Requires RKN4094, GP350 Requires RKN4096A.		X	X
RMN4052	Noise-Cancelling Tactical Headband Style Headset. Noise Reduction = 24dB. GP300 Requires RKN4094, GP350 Requires RKN4096A.		X	X
RMN4053	Noise-Cancelling Tactical Hardhat Mount Headset. Noise Reduction = 22dB. GP300 Requires RKN4094, GP350 Requires RKN4096A.		X	X
RKN4094A	Adapter Cable. Required for use with RMN4051, RMN4052 and RMN4053 - For GP300 radios.			X
RKN4096A	Adapter Cable. Required for use with RMN4051, RMN4052 and RMN4053 - For GP350 radios.		X	
Carrying Cases				
HLN9017A	Nylon Carrying Case. For fully approved FM 1200 mAh battery.			X
HLN9416A	Nylon Carrying Case with Belt Loop		X	X
HLN9836A	Nylon Carrying Case with Belt Loop	X		
HLN9750B	Nylon Carrying Case with Belt Loop			X
HLN9323A	Standard Leather Carrying Case with Swivel		X	
HLN9720A	Standard Leather Carrying Case with Belt Loop and D-Rings			X
HLN9873A	Standard Leather Carrying Case with Swivel and D-Rings			X
HLN9837A	Leather Carrying Case with Belt Loop	X		
HLN9417A	Leather Carrying Case with Belt Loop and D-Rings		X	
HLN9008A	Leather Carrying Case with Belt Loop and D-Rings. For fully approved FM 1200 mAh battery.			X
HLN9009A	Leather Carrying Case with Swivel and D-Rings. For fully approved FM 1200 mAh battery.			X
HLN9721A	Slim Leather Carrying Case with Belt Loop and D-Rings			X
HLN8411A	DTMF Leather Carrying Case with Swivel and D-Rings			X
HLN9011A	DTMF Leather Carrying Case with Swivel and D-Rings. For fully approved FM 1200 mAh battery.			X
HLN9420A	DTMF Standard Leather Carrying Case with Belt Loop		X	
HLN9970A	DTMF Standard Leather Carrying Case with Belt Loop and D-Rings			X
HLN9418A	DTMF Standard Leather Carrying Case with Swivel		X	

ITEM NO.	DESCRIPTIONS	SP21™	GP350™	GP300™
Carrying Accessories				
4200865599	1.75-Inch Wide Leather Belt - For all models	X	X	X
HLN8052A	Wrist Strap			X
NTN5243A	Shoulder Carrying Strap			X
HLN9084A	Replacement Strap for Molded Holder HLN9076B			X
HLN9973A	Replacement Strap for Leather Carrying Cases		X	X
HLN9974B	Replacement Strap for Leather Carrying Cases	X	X	X
HLN9076B	Molded Carrying Holder with 3-Inch Spring Action Belt Clip			X
HLN8414A	Chest Pack Carrying Holder			X
HLN9985B	Waterproof Bag - Includes Large Carrying Strap	X	X	X
HLN9724A	2.5-Inch Belt Clip			X
HLN8255B	3-Inch Spring Action Belt Clip	X	X	X
PMLN4124A	Replacement Belt Clip	X		
HLN5533A	Replacement Belt Clip 3-Inch			X
TDN1002A	Swiveller - Includes holster, belt and strap			X
HLN9149AR	Swivel Belt Loop Adapter	X		X
HLN9035A	Replacement Swivel Belt Loop 2.5-Inch			X
HLN8039B	Replacement Swivel Belt Loop 2.5-Inch		X	
NTN8040B	Replacement Swivel Belt Loop 3-Inch		X	X
TDN1003A	Replacement/Spare Swiveller Button			X
HLN6602A	Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pocket	X	X	X
RLN4570A	Break-A-Way Chest Pack	X	X	X
1505596Z02	Replacement Strap for HLN6602A and RLN4570A	X	X	X
RLN4815A	Universal RadioPAK™ with Radio Holder - With adjustable belt.	X	X	X
4280384F89	RadioPAK™ Belt Lengthener. For waists larger than 40 inches.	X	X	X
TDN9327A	Portable Radio Hanger for door panels up to 2.75-Inch		X	X
TDN9373A	Portable Radio Hanger for door panels 2.75-Inch to 3.25-Inch		X	X
RLN4943A	Universal Holder with Gooseneck Bracket Provides flexible mounting solutions for portable radios.	X	X	X
RLN4945A	Universal Holder with Gooseneck Bracket and Wheelchair Quick Release Assembly	X	X	X
RLN4944A	Wheelchair Quick Release Assembly	X	X	X
Batteries				
HNN9808	NiCD, 600 mAh, 7.5V Slim Battery - Intrinsically Safe (FM)			X
HNN9361	NiCD, 1000 mAh, 7.5V Battery - Intrinsically Safe (FM)		X	
HNN9701	NiCD, 1100 mAh, 7.5V Battery - Intrinsically Safe (FM)			X
HNN9360	NiCD, 1200 mAh, 7.5V Battery		X	
HNN9628	NiCD, 1200 mAh, 7.5V Battery			X
HNN8308	NiCD, 600 mAh, 7.5V Slim Battery			X
HNN9044	NiCD, 550 mAh, 7.2V	X		
HNN8133	NiCD, 1200 mAh, 7.5V Battery - Intrinsically Safe (FM)			X
WPNN4044_R	NiCD, 1000 mAh, 7.5V Battery			X
Battery Eliminators				
HKN8036	Vehicular Battery Eliminator - Utilizes vehicle battery for power.			X
HLN9452	Vehicular Battery Eliminator		X	
Battery Maintenance Systems				
WPLN4079_R	Battery Maintenance System PLUS (BMSPLUS), 110V AC, 50/60 Hz 6-Station Reconditioner charges and discharges, analyzes, conditions, cycle tests, and more. Supports NiCD, NiMH and Li-ion batteries. Adapter plates sold separately.	X	X	X
WPLN4080_R	Battery Maintenance System PLUS (BMSPLUS), 230V AC, 50/60 Hz 6-Station Reconditioner charges and discharges, analyzes, conditions, cycle tests, and more. Supports NiCD, NiMH and Li-ion batteries. Adapter plates sold separately.	X	X	X
NDN4005	3-Station, 110V AC, 50/60 Hz. Not for Li-ion or 3 cell batteries.	X	X	X
NDN4006	3-Station, 230V AC, 50/60 Hz. Not for Li-ion or 3 cell batteries.	X	X	X
TDN9437	BMS Battery Adapter. For use with WPLN4079_R & WPLN4080_R.			X
TDN9438	BMS Battery Adapter. For use with HNN8308A and HNN9808B.			X
TDN9447	BMS Battery Adapter. For use with HNN9044 batteries.	X		
CDN6189	Adapter, 7.5V, 1200 mAh.		X	
TDN9662	Adapter. For use with HNN9628A. Without belt clip.			X
WPPN4085_R	BMS Field Upgrade Kit - Allows units to support Li-ion batteries. For use with WPLN4079AR, WPLN4080AR and WPLN4081AR.		X	X
WPLN4124_R	BOS II, 4-Station, 90-264 V AC (US). Adapter plates required.	X	X	X
WPLN4125_R	BOS II, 4-Station, 90-264 V AC (Euro/UK). Adapter plates required.	X	X	X
RL-71883	Standard Adapter. For GP300, GP350 radios.		X	X
RL-71292	Standard Adapter. For SP21 radios.	X		

ITEM NO.	DESCRIPTIONS	SP21™	GP350™	GP300™
Chargers				
HTN9042	Single-Unit Intellicharger, 120V 90 minute charge time for NiCD and NiMH batteries.		X	X
HTN9043	Single-Unit Intellicharger, 220V, Euro Plug 90 minute charge time for NiCD and NiMH batteries.		X	X
HTN9044	Single-Unit Intellicharger, 240V, UK Plug 90 minute charge time for NiCD and NiMH batteries.		X	X
HTN9702	10-Hour Standard Rate Charger, 110V		X	X
HTN9804	Single-Unit Standard Charger, 220V 10-Hour, Euro Plug		X	X
HTN9805	Single-Unit Standard Charger, 240V 10-Hour, UK Plug		X	X
HTN9060	6-Unit, 90-Minute Rapid Rate Charger, 120V For use with NiCD and NiMH batteries only.		X	X
HTN9061	6-Unit, 90-Minute Rapid Rate Charger, 220V, Euro Plug For use with NiCD and NiMH batteries only.		X	X
HTN9748	6-Unit, 1-Hour Rapid Rate Charger, 120V For use with NiCD batteries only		X	X
HTN9811	6-Unit, 1-Hour Rapid Rate Charger, 220V, Euro Plug For use with NiCD batteries only.		X	X
HTN9812	6-Unit, 1-Hour Rapid Rate Charger, 240V, UK Plug For use with NiCD batteries only.		X	X
HLN9405	6-Unit Charger Conversion Kit, 120V, for use with HTN9042	X		
HTN9026_R	Single-Unit Charger, 3-Hour Rapid Rate, 120V	X		
HTN8232	Wall Charging Adapter, Standard Rate, 120V 18-20 hours for standard models and 10 hours for compact.	X		
HTN9002	Wall Charging Adapter, Standard Rate, 220V, Euro Plug 18-20 hours for standard models and 10 hours for compact.	X		
HLN8371	10-Hour Desktop Charging Tray, Standard Rate, 120V Requires HTN8232 or HTN9002, ships standard with all radios.	X		
HTN9295	Multi-Unit Charger Conversion Kit Accommodates up to 6 HLN8371 or HTN9026, sold separately.	X		
HLN9113	Desktop Charger Converter Kit. Compatible with HLN8371, HTN9026 or HTN942. Allows you to drop entire radio into desktop or spare battery charger.		X	X
HLN9293	Wall Mounting Bracket for 90-Minute Multi-Unit Charger For GP300, use with HTN9060 and HTN9061.		X	X
Motorola Conditioning Chargers				
WPPN4065_R	4 Station Conditioning Charger. 110V, Base only Requires adapter plates, sold separately.		X	X
3080384G15	Vehicular Power Adapter for Single and Multi-Unit Chargers.		X	X
WPPN4002_R	Base Charge Unit Only, 110V AC		X	X
WPPN4006_R	Base Charge Unit Only, 220V AC		X	X
WPLN4088_R	Motorola Conditioning Charger - 60 minute rapid charge Includes 7.2V Base, 110V AC, adapter plate and transformer.			X
WPLN4089_R	Motorola Conditioning Charger - 60 minute rapid charge Includes 7.2V Base, 220V AC, adapter plate and transformer.			X
WPLN4094_R	Motorola Conditioning Charger Kit, 110V AC Includes base unit and 7V adapter.		X	
WPLN4095_R	Motorola Conditioning Charger Kit, 220V AC Includes base unit and 7V adapter.		X	
WPPN4005_R	Adapter Plate Only - For Conditioning Charger			X
WPPN4007_R	Adapter Only, 7V		X	
Vehicular Chargers				
RLN4814	3080384M21, DC Hard Wire Cable		X	X
3080384M21	DC Hard Wire Cable - For Vehicular Installation Included with RLN4814A.		X	X
HLN9719	Vehicular Charger Adapter/Bracket, 12V. For use with HTN9042, HTN9043, HTN9044. Charger Base HTN9886, without transformer, sold separately.		X	
RLN4833	Travel Charger		X	X
2580600E05	Transformer, 120V (US)			X
2580600E06	Transformer, 230V (Euro)			X
2580600E07	Transformer, 230V (UK)			X
2580600E08	Transformer, 240V (Argentina)			X
HLN8251	3-Hour Vehicular Charger Adapter Bracket, 12V - For HTN9026.	X		
Antennas				
HAD9338AR	VHF Heliflex Antenna, 136-150.8 MHz	X		X
NAD6502AR	VHF Heliflex Antenna, 146-174 MHz		X	X
HAD9742A	VHF Stubby Antenna, 146-162 MHz	X	X	X
HAD9743A	VHF Stubby Antenna, 162-174 MHz		X	X
HAD9728B	Tunable Antenna Kit, 136-174 MHz		X	X
NAE6483AR	UHF Whip Antenna, 403-512 MHz	X	X	X
8505816K24	UHF Heliflex Antenna, Red, Molded, 403-433 MHz		X	X
8505816K25	UHF Heliflex Antenna, Green, Molded, 450-470 MHz		X	
8505816K26	UHF Heliflex Stubby Antenna, Black, Molded, 470-512 MHz		X	X

MOTOROLA ORIGINAL ®

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.

ITEM NO.	DESCRIPTIONS	SM50 SM120	M130	GM300	M208 M216
Microphones					
HMN3001	Compact Microphone with LED Indicator, 10-foot Coil Cord and Hang-up Clip	X	X		
HMN3008	Compact Microphone with LED Indicator, 7-foot Coil Cord and Hang-up Clip	X			
HMN3174	Compact Microphone with TX LED Indicator, 7-foot Coil Cord and Hang-up Clip	X			
HMN1035	Heavy-Duty Palm Microphone with 10.5-foot Coil Cord	X	X	X	X
AAREX4617	Telephone Style Handset with Hang-up Cup	X	X	X	X
HMN3596	Compact Palm Microphone with 7-foot Coil Cord		X	X	
HLN8143	Non-Backlit Touch-Code Microphone with Hang-up Clip		X		
HMN1037	Non-Backlit Touch-Code Microphone with Hang-up Clip			X	X
HMN1056	Compact Palm Microphone with 7-foot Coil Cord				X
Microphone Accessories					
RLN5023	Mic Jacket Kit - Compatible with HMN3174	X			
RLN5014	Mic Jacket Kit - Compatible with HMN1035			X	X
RLN5015	Mic Jacket Kit - Compatible with HMN1056				X
RLN5016	Mic Jacket Kit - Compatible with HMN1037			X	X
RLN5018	Mic Jacket Kit - Compatible with HMN3596			X	
HLN9559	7-foot Replacement Coil Cord - For HMN1056 and HMN1035	X	X	X	
HLN9560	10.5-foot Extended Replacement Coil Cord for Heavy-Duty Microphones	X	X	X	
HLN9073	Microphone Hang-Up Clip - For all Microphones	X	X	X	X
HLN9414	Universal Hang-Up Clip - For all Microphones	X	X	X	X
General Accessories					
HLN9457	Hardware Kit - For use with Expanded Accessory Connector Includes 16 connector pins, (5) 8-Inch wires with pins attached and extra housing.		X	X	X
HLN9573	Shorting Plug Kit for Microphone Jack - Used when application calls for desktop set-up, covers microphone jack.		X	X	X
HLN8375	DTMF Decoder Board			X	
REX4126	5 Button - Dust proof, pack of 5.				X
HKN9407	Vehicular Power Adapter - Available for mobiles operating at 25W only.	X			
External Speakers					
HSN9008	7.5 Watt External Speaker with Accessory Connector	X			
HSN8145	7.5 Watt External Speaker - For receiver audio.		X	X	
Control Station Accessories					
HPN9012	1-25 Watt Power Supply, 115V AC - For 25W mobiles only, control station cable not required.	X			
HPN8393	Up to 45 Watt Power Supply, 115/230V AC - Also used with GR300/GR400 Repeaters.	X			
HKN9018	Control Station Cable - Interfaces radio power cable to power supply cable, for HPN8393 only.	X			
HMN3000	Desktop Microphone, Black	X			X
HMN1038	Desktop Microphone, Beige			X	X
HLN9226	Mobile Holder - Attaches mobile radio to power supply.	X			
HKN9088	Mobile Mini-UHF Antenna Adapter - 8-foot cable	X	X	X	X
HKN4139	Power Cable for Low Power Control Station - For 1-45W models, for Control Stations shipped before 4/1993.		X	X	
HLN3199	High Power Control Station Package - For 25-60W models.		X	X	X
HKN9455	Power Cable for High Power Control Station - For 25-60W models, for Control Stations shipped before 4/1993		X	X	X
HPN4002	Power Supply and Cable, 1-25W		X	X	
HPN4001	Power Supply and Cable, 25-60W		X	X	X
HLN5292	Base Station Tray		X	X	X
Mounting Accessories					
HLN9617	Key Lock Mounting Bracket	X			
HLN9154	Non-Locking Bracket - Standard with SM Series radios.	X			
HLN9162	5-Inch Goose Neck Mounting Bracket	X			
HLN9227	8-Inch Goose Neck Mounting Bracket	X			
HLN9179	Quick Release Mounting Bracket	X			
HLN9228	Clam Shell Mounting Bracket	X			
HLN9408	Gooseneck Decor Sleeve - Used to cover goose neck and wires.	X			
HLN9284	Key Lock Mounting Bracket		X	X	
HLN5189	Non-Locking Bracket		X	X	
HLN8413	Slide Mount Tray Bracket - For vehicular floor hump mount.		X	X	
HLN9404	Sleeve Mounting Bracket		X	X	X
HLN9450	45-60 Degree Floor Mount Wedge. M130/GM300 requires HLN9404 or HLN9100. M208/M216 requires HLN9404.		X	X	X
HLN9100	Three Point Mounting Bracket - For use with HLN9450.		X	X	
HLN5226	Extra Stability Mount for M130/GM300 - For use with HLN5189.		X	X	
HLN8097	Removable Side Mount Tray Package - Maximum of 2 external accessory wires can be attached.		X	X	
HLN8098	Radio Slide Mount Tray - Vehicle half of slide tray package (HLN8097).		X	X	
HLN8099	Vehicle Slide Mount Tray - Vehicle half of slide tray package (HLN8097).		X	X	
HLN8144	Remote Mount Kit, 8-foot. Assumes use of power cable provided with radio.		X	X	
HLN9027	In-Dash Bezel Mounting Tray		X	X	

these accessories still available!

ITEM NO.	DESCRIPTIONS	SM50 SM120	M130	GM300	M208 M216
Installation Accessories					
HKN4137	Low Power Cable to Battery	X	X	X	
HKN9019	16-Pin Conductor Cable - Same as HKN9969, 3-foot long enhanced connector.	X			
HKN9327	Ignition Switch Cable with Housing Connector - Requires HLN9242 connector.	X	X	X	X
HKN9557	PL259 Mini-UHF Antenna Adapter, 8-Inch cable - Not recommended for use with 800 MHz.	X	X	X	X
2880376E84	Mini-UHF Connector - For all bandwidths.	X	X	X	X
HLN8027	Mini-UHF to BNC Adapter	X	X	X	
HLN9242	16-Pin Accessory Kit with Expanded Connector. 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.	X			
HKN4191	High Power Cable to Battery		X		X
Public Address Accessories					
HKN9324	15-ft Public Address/Speaker Cable - One cable per speaker.		X	X	
HSN1000	6 Watt Amplified External Speaker - For public address audio, minimum of 1 required.		X	X	
HSN9326	5 Watt External Speaker for Receiver Audio. Requires 16-pin options connector.				X
Alarm Accessories					
HLN9328	External Alarm Relay Cable - Horn and lights.	X	X	X	X
RLN5132	Emergency Push Button Alarm Cable			X	X
HLN9330	Emergency Foot Switch Alarm Cable - For GM300 16 channel radio only.			X	X
Antennas					
HAD4006	136-144 MHz 1/4 Wave, Roof Mount Antenna	X		X	
HAD4007	144-152 MHz 1/4 Wave, Roof Mount Antenna	X	X	X	
HAD4008	150-162 MHz 1/4 Wave, Roof Mount Antenna	X	X	X	
HAD4009	162-174 MHz 1/4 Wave, Roof Mount Antenna	X	X	X	
HAD4014	140-174 MHz 3dB Gain, Roof Mount Antenna	X	X	X	
RAD4000AMB	140-174 MHz 3dB Gain, Mag Mount Antenna	X			
HAE4002	403-430 MHz 1/4 Wave, Roof Mount Antenna			X	
HAE4003	450-470 MHz 1/4 Wave, Roof Mount Antenna	X	X	X	
HAE4004	470-512 MHz 1/4 Wave, Roof Mount Antenna	X	X	X	
HAE4010	406-420 MHz 3.5dB Gain, Roof Mount Antenna			X	
HAE4011	450-470 MHz 3.5dB Gain, Roof Mount Antenna		X	X	
HAE4012	470-495 MHz 3.5dB Gain, Roof Mount Antenna		X	X	
HAE4013	494-512 MHz 3.5dB Gain, Roof Mount Antenna		X	X	
RAE4004ARB	450-470 MHz 5dB Gain, Roof Mount Antenna		X	X	
RAB4002ARB	29.7-36 MHz 1/4 Wave, Base Loaded Roof Mount Antenna				X
RAB4003ARB	36-42 MHz 1/4 Wave, Base Loaded Roof Mount Antenna				X
RAB4004ARB	42-50 MHz 1/4 Wave, Base Loaded Roof Mount Antenna				X

Terms and Conditions...

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 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 my 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 AVERT OR PREVENT OCCURRENCES, OR THE CONSEQUENCES THEREFROM, WHICH ARE MONITORED, DETECTED OR CONTROLLED WITH USE OF THE PRODUCTS.

C. TIME TO SUE. EXCEPT FOR MONEY DUE UPON AN OPEN ACCOUNT, NO ACTION SHALL BE BROUGHT FOR ANY BREACH OF A CONTRACT TO PUR CHASE 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.

Terms And Conditions

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: FAR52.219-8, 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.

HEREUNDER SHALL BE GOVERNED BY AND INTERPRETED ACCORDING TO THE LAWS OF THE STATE OF ILLINOIS, U.S.A. EXCLUDING APPLICATION OF THE U.N. CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALES OF GOODS (1980).

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, heretofore 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.

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 product, 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 the battery capacity falls below 80% of rated capacity unless otherwise noted. For the workmanship defects listed below Motorola warrants against defects in workmanship under normal use and service for a period of time from the date of manufacture* as scheduled below ("Warranty Period"):

Capacity/Product	Workmanship Warranty
Motorola Manufactured NiCD impres™ Batteries	24 month capacity/ 24 month workmanship
Motorola Manufactured NiMH impres™ Batteries	18 month capacity/ 24 month workmanship
Motorola Manufactured Li-ion impres™ Batteries	18 month capacity/ 24 month workmanship
Motorola Manufactured NiCD Premium Batteries	18 month capacity/ 24 month workmanship
Motorola Manufactured NiMH and Li-ion Batteries	12 month capacity/ 24 month workmanship
Motorola Manufactured NiCD, NiMH Power Batteries	12 month capacity/ 12 month workmanship
MAGONE Competitive Batteries (all manufacturers)	12 month capacity/ 12 month workmanship

Exceptions
The Motorola NiMH NTN7396BR prismatic battery is warranted for six (6) months capacity and twenty-four (24) months workmanship from the date of manufacture.

XTS3500 mAh NiMH RNN4006B, RNN4007AR 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.

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"):

Product	Warranty Period Motorola
Manufactured NiCD Batteries	Twelve (12) Months
Motorola Manufactured NiMH Batteries	Twelve (12) Months
Motorola Manufactured Li-ion Batteries	Twelve (12) Months

    2. 12 Month Workmanship Warranty:
For the workmanship defects listed below, Motorola warrants against defects in workmanship under normal use and service for a period of time from the date of manufacture* as scheduled below ("Warranty Period"):

Product	Warranty Period Motorola
Manufactured NiCD Batteries	Twelve (12) Months
Motorola Manufactured NiMH Batteries	Twelve (12) Months
Motorola Manufactured Li-ion Batteries	Twelve (12) Months

* 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.

II. GENERAL PROVISIONS:

This warranty sets forth 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, COM-MERCIAL LOSS, LOST PROFITS OR SAVINGS OR OTHER INCIDENTAL, SPECIAL, INDI-RECT 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 RPSD 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 published specifications or with the FCC type acceptance labeling 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 date 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 its 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 use 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 only 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
2222 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 manu-facturer'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 replace-ment 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 replace-ment 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 doc-umentation 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 moni-tors, should be returned to the Test Equipment Service Center and processed per the Test Equipment Products Limited Warranty on the following page. Third party manu-factured 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: 1-847-538-8023
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 "prod-uct") 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 ship-ment against defects in material and workmanship. This express warranty is extend-ed to the original purchaser only. In the event of a defect, malfunction, or failure dur-ing the period of warranty of a Motorola manufactured Test Equipment items, 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 war-ranty, and the defective product is returned to: Motorola, Test Equipment Service, 2216 Galvin Drive, Elgin, IL 60123 transportation prepaid. Proof of purchase and evi-dence 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 Motorola. 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 manufacture. 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 recondi-tioned replacement module or subassembly. Only the unexpired warranty of the war-ranty 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...

MOTOROLA