Motorola Original®
Accessories let you make the most of your Motorola radio’s capabilities.

You likely chose your Motorola portable or mobile radio for its exceptional quality and reliability — certainly a sound business decision. Choosing Motorola Original® accessories for your radio is also the right call to make.

For starters, every Motorola Original® accessory is performance-matched for Motorola radios — designed, built and rigorously tested to the same quality standards. So you can be sure that every product in this catalog will perfectly complement your radio’s performance.

What’s more, insisting on Motorola Original® accessories can help increase your productivity. That’s because you can count on every accessory to do its job time after time. If you take a chance on a mismatched antenna or a cut-rate microphone, your radio may not perform at the moment you have to use it.

We’re pleased to bring you this collection of proven Motorola Original® accessories for your demanding mobile communication needs. You’ll find external speakers designed for high noise environments. Both palm and desk top microphones that deliver enhanced performance. Sirens that come through loud and clear in emergencies. Antennas for virtually any vehicle application and more. They’re all ready to help you work smarter, harder and with greater confidence.
Whether in hot pursuit or investigating a cold case, communication can be made much easier with a CommPort™ Integrated Microphone/Receiver System.

How the Book is Organized

Motorola Quality

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Police
Whether in hot pursuit or investigating a cold case, communication can be made much easier with a CommPort™ Integrated Microphone/Receiver System.

Fire
It takes two hands for climbing ladders and controlling hoses, and solutions like our Chest Pack provide both welcome freedom and valued protection in the heat of the action.

Emergency Response
First responders deserve first-class tools for communicating their position and conditions, and our Lightweight Headsets help everyone quickly and clearly get the message.

Security
From crowd control to answering an alarm signaling illegal entry, a Remote Speaker Microphone lets professionals respond instantly without need to reach for the radio controls.
ASTRO® Digital XTS 3000 / XTS 4250 radios provide exceptional power in a comfortable, ergonomic design.

All models feature precision-controlled signaling, priority scanning capabilities and X-Pand™ Audio Enhancement.

And it’s easy to reprogram each radio as your communication needs change.

precision controlled signalling and priority scanning capability...

RMN5089, RMN5067, RMN5088, RMN5066
Commander™ Series
Remote Speaker

Microphones are the perfect choice for Mission Critical environments.
Spend more time on mission-critical communications — and less time having to ask “what’s your location?” with HMN4080 GPS Remote Speaker Microphone

**Discreet Communication**

An earphone jack located on the microphone head allows the user to receive discreet audio when used with the earpieces shown here. Compatible with the Commander™ Remote Speaker Microphone and Remote Speaker Microphone with Emergency Button on page 5.

**GPS Remote Speaker Microphone**

The Global Positioning System (GPS) Remote Speaker Microphone allows ASTRO® Digital XTS 2250 and XTS 4250 portable two-way radio users in outdoor locations to be automatically tracked by satellite. For optimal GPS coverage, a clear view of sky with no obstructions is required. GPS operation may be limited in buildings, tunnels, parking garages and areas with heavy tree coverage.

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† Compatible with the ASTRO® Digital XTS 2250 and XTS 4250 portable two-way radio (Models I, II, III and Ruggedized), XTS 2250 radio must have tanapa version B hardware and a radio host code R10.00.00 or later. XTS 4250 radios must have a radio host code of R06.01.00 or later, Customer Programming Software (CPS) version R06.00.00 or later.
for tough conditions...

Remote Speaker Microphones (RSM)
These compact Remote Speaker Microphones are water-resistant and allow talking and listening without removing the radio from the belt or case. They have a 6-foot coiled cord assembly, 3.5mm earjack, swivel clip and quick disconnect latch.

NMN6193*  Remote Speaker Microphone
NMN6191*  Noise-Cancelling Remote Speaker Microphone, 3.5mm plug
0104010J46  Replacement Coil Cord Assembly for Remote Speaker Microphone

Remote Speaker Microphones - Commander™ Series
The Commander™ Remote Speaker Microphone features an emergency button, volume control, 16-channel select knob with tactile feedback, 2 programmable buttons and a receive-only 3.5mm earphone jack (not included in submersible model). Ideal for firefighters, police and other professionals who frequently keep their XTS two-way radio inside a case or under clothing. These microphones have controls on the microphone head, allowing operational control from the microphone head.

AARMN5021*  Commander Remote Speaker Microphone
RMN5023*  Fully Submersible Commander Remote Speaker Microphone
For a completely submersible radio/microphone system use with XTS 3000R, XTS 3500R and XTS 5000R portable radios.
RMN5089  Commander II RSM, Water Resistant with 3.5 Audio Jack, Channel Selector
RMN5067  Commander II RSM, Water Resistant without 3.5 Audio Jack, Channel Selector
RMN5088  Commander II Plus RSM, with Channel Selector Fully Submersible
RMN5066  Commander II Plus RSM, without Channel Selector Fully Submersible

Remote Speaker Microphone with Emergency Button
The orange button on the microphone head can be used to signal that the operator needs help. This microphone offers high/low volume control and has a 3.5mm earjack on the microphone head. Emergency activation from the RSM is delayed until programmed Mandown Pre-alert and Post-alert delays elapse. Depending on radio model, factory defaults or previous programming could set the delay times for as long as 8 to 120 seconds.

RMN5038*  Remote Speaker Microphone with Emergency Button

Remote Speaker Microphone Audio Accessories
The following earpieces are compatible with the Commander Remote Speaker Microphone RMN5021A and Remote Speaker Microphone with Emergency Button RMN5038.

RLN4941*  Receive-Only Earpiece with Translucent Tube and Rubber Eartip
AARLN4885*  Receive-Only Covered Earbud
WADN4190*  Receive-Only Flexible Earpiece, 3.5mm plug

UHF Public Safety Microphones (PSM)
Public Safety Speaker Microphones include straight cord assembly, 3.5mm earjack, swivel clip, quick disconnect latch, antenna connector and receive audio high/low toggle switch. Use with radio’s antenna, sold separately. All require RF adapter NTN8327, sold separately.

NMN6247*  Public Safety Microphone with 30 Inch Straight Cord
NMN6250*  Public Safety Microphone with 24 Inch Straight Cord
NMN6251*  Public Safety Microphone with 18 Inch Straight Cord
NTN8327*  RF Adapter. Required for use with all Public Safety Microphones.

Mandown, Public Safety Tilt Switch
The Mandown, Public Safety Tilt Switch functions as an external emergency switch that is activated when the radio unit is tilted at an angle greater than 60 degrees. No other audio accessory can be attached to the radio while the tilt switch is attached. Radio must be programmed to enable the emergency tilt feature.

NTN7660*  Mandown, Public Safety Tilt Switch

Epaulet Straps
Black leather Epaulet Strap secures Remote Speaker Microphone to epaulet on shirt or jacket and accommodates back clip in leather cut-outs. Snap closure secures cord to allow reliable communications in hostile environments.

RLN4294  Epaulet Strap, Velcro
RLN4295  Epaulet Strap, with Clip

*Intrinsically Safe (FM)
Surveillance Kits

Surveillance accessories allow the radio user to privately receive messages with the earpiece and are ideal when environments require discreet communication. The following surveillance accessories require the 3.5mm threaded adapter jack BDN6676 that attaches to the radio, unless being used with speaker microphone.

1-WIRE SURVEILLANCE KITS

- BDN6665**: Extra Loud Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.
- BDN6726*: Receive-Only Earpiece with Standard Earphone (1-Wire). Black
- BDN6727**: Extra Loud Receive-Only Earpiece with Standard Earphone (1-Wire). Black

2-WIRE SURVEILLANCE KITS


3-WIRE SURVEILLANCE KITS


Surveillance Kits - With Extended-Wear Comfort Earpiece

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

- RLN5313 Comfort Earpiece, Receive-Only. Black.
- RLN5311 Earpiece w/Microphone and PTT Combined (2-Wire). Beige.
- RLN5312 Earpiece w/Microphone and PTT Combined (2-Wire). Black.

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.

- RLN6230 Extreme Noise Kit. Includes 2 foam earplugs. (Black) For high-noise environments. Noise reduction = 24dB. Can be used with Clear Comfortable Earpieces, sold separately.
- RLN6232 Low Noise Kit - Clear Acoustic Tube Assembly Includes 1 rubber eartip. For low noise environments. Does not provide hearing protection.
- 5080370E91† Extra Loud Earphone. Black.

SURVEILLANCE REPLACEMENT ACCESSORIES

- BDN6676* 3.5mm Jack Adapter with Quick Disconnect Latch
- 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 hypoallergenic material. Compatible with NTN8371 and all Surveillance Kits.

- RLN4760 Small Custom Earpiece - Right Ear
- RLN4761 Medium Custom Earpiece - Right Ear
- RLN4762 Large Custom Earpiece - Right Ear
- RLN4763 Small Custom Earpiece - Left Ear
- RLN4764 Medium Custom Earpiece - Left Ear
- RLN4765 Large Custom Earpiece - Left Ear

*Intrinsically Safe (FM)
†Extra loud earphone (exceeds OSHA limits)
**Completely Discreet Wireless Earpiece Kit**

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

- **RLN4922** Completely Discreet Earpiece Kit
- **RLN4919** Replacement Earguards. 5 per pack.
- **RNN4005** Replacement 1.4 Volt Batteries. 6 per pack.

**Ear Microphone Systems (EMS)**

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

- **BDN6677** EMS with PTT Interface. Black. For standard noise levels (up to 95dB).
- **BDN6678** EMS with PTT Interface. Beige. For standard noise levels up to 95dB.
- **BDN6641** EMS with PTT Interface. Grey. For high-noise levels (up to 105dB).
- **BDN6643** Push-to-Talk and Voice-Activated Interface Module

**Optional Accessories for the EMS**

- **0180300E25** Earguard with Adjustable Loop
- **0180358B38** Remote Push-to-Talk Ring Switch.
- **0180300E35** Remote Push-to-Talk Body Switch.
- **0180358B32** Earholder. Black, size small. Secures Earphone in ear.
- **0180358B33** Earholder. Black, size medium. Secures Earphone in ear.
- **0180358B34** Earholder. Black, size large. Secures Earphone in ear.
- **0180358B35** Earholder. Clear, size small. Secures Earphone in ear.
- **0180358B36** Earholder. Clear, size medium. Secures Earphone in ear.
- **0180358B37** Earholder. Clear, size large. Secures Earphone in ear.
- **4280369E44** Replacement Belt Clip with Screws
- **0180305J46** Training CD-ROM

*Intrinsically Safe (FM)
CommPort: Integrated Microphone/Receiver System

The CommPort System’s advanced, self-adjusting microphone and miniature receiver connect to a two-way radio and make it possible to communicate under the most adverse conditions. A variety of Push-to-Talk options allow the user to customize the CommPort system for almost any application.

- NTN1624* Integrated Ear Microphone/Receiver System with Palm PTT
  Includes 3.5mm adapter BDN6676.
- NTN1625* Integrated Ear Microphone/Receiver System with PTT on Radio Adapter
  Includes 3.5mm adapter BDN6676.
- NTN1663* Integrated Ear Microphone/Receiver System with Ring PTT
  Includes 3.5mm adapter BDN6676.
- NTN1736* Integrated Ear Microphone/Receiver System with Snap-On-Side PTT
  Includes 3.5mm adapter BDN6676.
- NNTN4186* Integrated Ear Microphone/Receiver System with Body PTT
  Includes 3.5mm adapter BDN6676.

Optional Accessories for CommPort

- NKN6510 Replacement Palm PTT Cable for NTN1624
- NKN6512 Replacement Ring PTT Cable for NTN1663
- NKN6525 Replacement Snap-On-Side PTT Cable for NTN1736
- NNTN4188 Replacement Remote PTT Body Switch for NNTN4186
- NKN6508 Replacement Cable for NTN1625
- NTN8819* Ear Microphone Assembly
- NTN8821 CommPort Maintenance Kit. Includes 10 replacement ear tubes, 10 microphone seal strips and 2 windscreens.
- NTN8986 Adhesive Pads. For secure attachment to ear. Pack of 90.
- NTN8988 Ear Straps. For secure attachment to ear. Pack of 10.
- 4285838B01 Replacement Collar Clip
- 4202006A01 Replacement Back Cover Clip
- BDN6676 3.5mm Jack Adapter with Quick Disconnect Latch

*Intrinsically Safe (FM)
Flexible Ear Receiver
This receive-only earpiece contains a flexible earloop and speaker which rests external to the ear. Black, without volume control. It plugs directly into adapter BDN6676 or the earjack on speaker microphones.

BDN6719 Flexible Ear Receiver with 3.5mm Threaded Plug
Adapter BDN6676 required if not used with speaker microphones.

BDN6676 3.5mm Jack Adapter with Quick Disconnect Latch
7580372E11 Replacement Foam Ear Cushion for BDN6719.

Pellet-Style Earpieces
Pellet-style earpieces allow users to receive communication discreetly and are comfortable for extended-wear use.

BDN6780* Earbud with Microphone and Push-to-Talk. Requires adapter BDN6676.

BDN6781* Earbud, receive-only. Requires adapter BDN6676 unless being used with a speaker or microphone.

BDN6676* 3.5mm Jack Adapter with Quick Disconnect Latch
7580372E70 Replacement Foam Cushion for Pellet Earpieces

Temple Transducer
The Temple Transducer represents a significant achievement in headset design and functionality. It allows the user to receive audio without covering the ear. The receiver portion of this accessory rests on the temples and is capable of converting the receive audio from a two-way radio into sound vibration. The sound vibration is transmitted through the surrounding human tissue and bone directly into the inner ear where it is received by the user. It features an In-line PTT and noise-cancelling boom microphone. The Temple Transducer enhances communication and safety by not impairing the user’s hearing of the external sound environment, such as machinery and equipment, warning and fire alarms, the intercom, traffic and even casual conversations with co-workers.

RMN4049* Temple Transducer
0180305J46 Training CD-ROM. For Ear Microphone System and Temple Transducer.

Rugged Temple Transducer
The Rugged Temple Transducer comes equipped with all the features of the basic model. It sports a bigger Push-to-Talk button and a larger noise-cancelling boom microphone. It is fully adjustable for different head sizes, making it comfortable for extended-wear. Over-the-head band allows users to wear helmets, hardhats and other head gear – and it really stays in place. Water-resistant boom microphone is ideal for use in blowing rain and the secure cap on PTT prevents accidental activation in mission critical situations.

RMN5049* Rugged Temple Transducer

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

RMN5015   Racing Headset with Noise-Cancelling Swivel Boom Microphone
           Behind-the-Head style. Noise reduction rating = 24dB
BDN6673   Adapter Cable for RMN5015

Receive-Only Headsets
Receive-Only Headsets are the right choice for high-noise environments where users must hear information clearly, but seldom need to transmit. Dual-Muff headsets feature easily replaceable earseals filled with a liquid and foam combination to provide excellent protection from outside noise as well as comfort. These are for use with Remote and Public Safety Speaker Microphones with a 3.5mm threaded jack. They can also be plugged directly into the radio when used with BDN6676.

RMN4056   Receive-Only Dual-Muff Headband Style Headset. For use with 3.5mm threaded jack. Can be plugged directly into radio with 3.5mm adapter BDN6676. Noise reduction = 24dB.
RMN4057   Receive-Only, Dual-Muff, Hardhat Headset. Mounts easily to hard hats with slots. For use with remote and public safety microphones with 3.5mm threaded jack. Can be plugged directly into radio with 3.5mm adapter BDN6676.
BDN6676   3.5mm Jack Adapter with Quick Disconnect Latch

Lightweight Headsets
Lightweight headsets provide high-clarity, hands-free, discreet two-way communication, while maintaining the comfort necessary for extended-wear in moderate noise environments. Audio adapter BDN6676 required.

NMN6245   Single-Muff Lightweight Headset with In-Line PTT Switch
           Requires audio adapter BDN6676.
NMN6246   Ultra-Light Headset with Boom Microphone, In-Line PTT Switch
           Earbud style receiver. Requires audio adapter BDN6676.
NKN6498   Headset Adapter Cable. For use with NMN1020
BDN6676   3.5mm Jack Adapter with Quick Disconnect Latch
Noise-Cancelling Headsets with Boom Microphone

Ideal for two-way communication in extremely noise 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 RKN4095 required. Hardhat not included.

RMN4052  Tactical Headband Style Headset. Grey, Noise reduction = 24dB.
RMN4053  Tactical Hardhat Mount Headset. Grey, Noise reduction = 22dB.
RKN4095  Adapter Cable with In-Line Push-to-Talk
For use with RMN4052/RMN4053, RMN4051

Replacement Earseals

RLN4923  Replacement Earseals for RMN4051/RMN4052/RMN4053
Includes 2 snap-in earseals.

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. Intrinsically Safe (FM). Separate In-line PTT Adapter Cable RKN4095 required. Hardhat not included.

RMN4051  Two-way, Hardhat Mount Headset w/Noise-Cancelling Boom Microphone. Black.
RKN4094  Adapter Cable with In-Line Push-to-Talk. For use with RMN4051.
RKN4095  In-Line PTT Adapter Cable. For use with RMN4051/RMN4052/RMN4053.

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.

NMN6258*  Medium Weight, Dual-Muff, Over-the-Head Style Headset with In-line PTT Noise reduction rating = 24dB.
NMN6259*  Medium Weight, Dual-Muff, Behind-the-Head Style Headset Can be worn with hardhat. Noise reduction rating = 24dB.

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. Headsets are for use in noise levels up to 125dB. Heavy-duty headsets require radio adapter cable BDN6673, sold separately.

BDN6645*  Push-to-Talk Headset with Boom Microphone Requires adapter cable BDN6673. Noise reduction rating = 24dB.
BDN6635  Voice-Activated (VOX) Headset with Boom Microphone Requires adapter cable BDN6673. Noise reduction rating = 24dB.
BDN6636*  Voice-Activated (VOX) Headset with Throat Microphone Requires adapter cable BDN6673. Noise reduction rating = 24dB.
BDN6673*  Radio Adapter Cable

*Intrinsically Safe (FM)
Leather and Nylon 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 cases are constructed of top grain, 8 ounce leather and all stainless steel hardware. Motorola carry cases were developed to meet the demands of public safety and other users who operate in the most rigorous of environments.

MODEL I RADIOS ONLY

- NTN8387 Leather Carry Case with Belt Loop, D-rings and T-strap
- NTN8385 High-Activity Swivel Leather Case
  - Features 2.5 Inch swivel belt loop, D-rings and T-strap.
- NTN8386 High-Activity Swivel Leather Case
  - Features 3 Inch swivel belt loop, D-rings and T-strap.
- NTN8725 High-Activity Nylon Case with Belt Loop and T-strap

MODEL II & III RADIOS ONLY

- NTN8382 Leather Case with Belt Loop, D-rings and T-strap
- NTN8380 High-Activity Swivel Leather Case
  - Features 2.5 Inch swivel belt loop, D-rings and T-strap.
- NTN8381 High-Activity Swivel Leather Case
  - Features 3 Inch swivel belt loop, D-rings and T-strap.
- NTN8725 High-Activity Nylon Case with Belt Loop and T-strap
- NTN9184 Leather Case with Belt Loop. For Clamshell Battery.

Carrying Accessories

T-STRAPS

- NTN8383 Leather T-strap, Plain Action Snap
- NTN8364 Leather T-strap, Hard Action Snap
  - Provides additional strength at the snap.

HIGH-ACTIVITY BELT LOOPS

- NTN8039 2.5 Inch Leather Swivel Belt Loop
- NTN8040 3 Inch Leather Swivel Belt Loop

BELT CLIPS

- NTN8266 Standard Removable 2.25 Inch Belt Clip Attachment
- NTN8460 Public Safety 3 Inch Belt Clip Attachment

CARRYING STRAP

- NTN5243 Adjustable, Black Nylon Carrying Strap
  - Attaches to D-ring on cases.
Unlike rigid holders, the universal-fit RadioPAk is lightweight and comfortable. An ideal companion for two-way radios, as well as iDEN® portables and cellular phones.

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

- HLN6602 Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
- 1505596202 Replacement Strap for HLN6602/RLN4570

Break-A-Way Chest Pack
All the features of the original Universal Chest Pack (HLN6602) plus break-a-way tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure.

- 1505596202 Replacement Strap for HLN6602/RLN4570

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.

- RLN4815 RadioPAk Radio/Utility Case
- 4280384F89 RadioPAk Extension Belt
  For waists larger than 40 inches.

Waterproof Bag
Waterproof Bag with Large Strap

Portable Radio Hangers
Portable Radio Hangers slide over and hangs from the vehicle door panel allowing convenient, easy mounting. Radio belt clip required.

- TDN9327 Portable Radio Hanger for door panels up to 2.75 inches.
- TDN9373 Portable Radio Hanger for door panels 2.75 to 3.25 inches.
**Batteries and chargers**

**Battery Characteristics**

- **NiCd batteries** provide the maximum number of charge/discharge cycles and are best suited for temperature extremes.
- **NiMH batteries** provide more talk-time per shift and are less prone to memory effect.
- **Li-Ion batteries** offer the best power-to-weight ratio of all chemistries, with no memory effect.

**Batteries**

- **PREMIUM NICKEL CADMIUM - NiCd**
  - NTN8294_R: NiCd, 1525 mAh 7.5 Volt.
  - NTN8295_R*: NiCd, 1525 mAh 7.5 Volt.
  - NTN8297_R*: NiCd, 1525 mAh 7.5 Volt., Ruggedized.

- **PREMIUM NICKEL METAL HYDRIDE - NiMH**
  - NTN8299_R*: NiMH, 1700 mAh 7.5 Volt.
  - NTN8923_R: NiMH, 1800 mAh 7.5 Volt
  - RN4006: NiMH, 3500 mAh 7.5 Volt
  - RN4007_R*: NiMH, 3500 mAh 7.5 Volt.

- **PREMIUM ALKALINE BATTERY SHELLS**
  - NTN9177: Disposable Battery Shell–Black
  - NTN9183: Disposable Battery Shell–Orange

- **IMPRES™ Batteries**
  IMPRES batteries, when used with an IMPRES charger, provide automatic, adaptive reconditioning, end-of-life display and other advanced features. Data is stored in the battery and communicated to the charger via a unique IMPRES communication protocol which is designed to maximize talk-time and optimize battery cycle life — all automatically.

  - HNN9031: NiCd, 1525 mAh 7.5 Volt
  - HNN9032*: NiCd, 1525 mAh 7.5 Volt.
  - NNTN4435: NiMH, 1800 mAh 7.5 Volt
  - NNTN4436*: NiMH, 1700 mAh 7.5 Volt.
  - NNTN4437*: NiMH, 1700 mAh 7.5 Volt., Ruggedized.
  - NTN9862: Li-Ion, 2750 mAh 7.2 Volt
  - NNTN7335: Li-Ion, 2700 mAh 7.2 Volt

*Intrinsically Safe (FM)
**Single-Unit, Rapid-Rate, Universal Charger**

These tri-chemistry chargers support Nickel Cadmium, Nickel Metal Hydride and Lithium-ion batteries. They will rapid charge most batteries to 90% capacity in one to two hours and employ trickle and maintenance modes that ensure batteries are safely charged to full-capacity.

- NTN1667 Universal Charger, 110 Volt, US Plug
- NTN1668 Universal Charger, 220 Volt, Euro Plug
- RPX4749 Charger Base with Transformer, 230 Volt, UK Plug

**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 build-up. Optional accessories are available that allow the MCC to be used in both AC and DC environments – that’s flexibility.

- WPLN4086_R Charger Kit, 110 Volt AC. Includes single-unit base and 7 Volt adapter plate.
- WPLN4087_R Charger Kit, 220 Volt AC. Includes single-unit base and 7 Volt adapter plate.
- WPPN4002_R 110 Volt AC Single-Unit Base Charger Only
  Adapter plates sold separately.
- WPPN4006_R 220 Volt AC Single-Unit Base Charger Only
  Adapter plates sold separately.
- WPPN4021_R 7 Volt Adapter Plate
- WPPN4065_R Multi-Unit Conditioning Charger, 4-Station Base, 110 Volt.
  Adapter plates sold separately.

Motorola Conditioning Chargers are not compatible with NiMH batteries RNN4006B and RNN4007AR.

**Vehicular Mounting**

- RLN4814 Vehicular Mounting Bracket and Hard Wire Cable
  For Single-Unit Motorola Conditioning Chargers.
  Includes DC Hard Wire Cable 3080384M21.
- 3080384M21 DC Hard Wire Cable with 3 A In-line fuse.

**Vehicular Power Adapter**

- 3080384G15 Vehicular Power Adapter

*Motorola Conditioning Chargers are not compatible with NiMH batteries RNN4006B and RNN4007AR.*
IMPRES™ Smart Energy Systems

Through the use of its advanced charging algorithm and automatic reconditioning features, the IMPRES Smart Energy System ensures maximum talk-time and optimized battery cycle life. This smart energy system automatically reconditions IMPRES batteries based on actual usage, keeping them in peak condition. Talk-time and cycle life are optimized and the need for manual maintenance programs is eliminated. Its advanced conditioning features allow batteries to be safely left on the charger for extended periods of time without incurring the damaging heat build-up which can decrease battery cycle life. In addition, batteries left in the charger are kept fully charged so they are always ready when needed. This rapid-rate, tri-chemistry charging system will also charge compatible non-IMPRES batteries and supports multiple radio platforms including SABER, XTS and HT 1000 Series portables.

IMPRES™ Single-Unit Chargers

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WPLN4111_R</td>
<td>IMPRES Single-Unit Charger, 110 Volt, US Plug</td>
</tr>
<tr>
<td>WPLN4112_R</td>
<td>IMPRES Single-Unit Charger, 220 Volt, Euro Plug</td>
</tr>
<tr>
<td>WPLN4113_R</td>
<td>IMPRES Single-Unit Charger, 240 Volt, UK Plug</td>
</tr>
<tr>
<td>5889254E01</td>
<td>Battery Adapter. Required for NTN4538_R, NTN4593_R, NTN7014_R and NTN8818 batteries.</td>
</tr>
</tbody>
</table>

IMPRES™ Multi-Unit Chargers

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WPLN4108_R</td>
<td>IMPRES Multi-Unit Charger, 110 Volt, US Plug</td>
</tr>
<tr>
<td>WPLN4109_R</td>
<td>IMPRES Multi-Unit Charger, 220 Volt, Euro Plug</td>
</tr>
<tr>
<td>WPLN4110_R</td>
<td>IMPRES Multi-Unit Charger, 240 Volt, UK Plug</td>
</tr>
<tr>
<td>4385922B01</td>
<td>Battery Adapter. Required for NTN4538_R, NTN4593_R, NTN7014_R and NTN8818 batteries.</td>
</tr>
<tr>
<td>NLN7967</td>
<td>Wall Mount for Multi-Unit Chargers</td>
</tr>
</tbody>
</table>

IMPRES™ Multi-Unit Chargers with Display Modules

Charger Display Modules provide powerful, “real time” analyzing information for IMPRES batteries, including current charge status, battery mAh, percent rated capacity and battery voltage. Readout displays battery kit number, serial number and chemistry and the time remaining to complete the charge for NiCd and NiMH batteries. It also forecasts the number of cycles to next reconditioning and more.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WPLN4130</td>
<td>IMPRES Multi-Unit Charger with Display Modules, 110 Volt, US Plug</td>
</tr>
<tr>
<td>WPLN4131_R</td>
<td>IMPRES Multi-Unit Charger with Display Modules, 220 Volt, Euro Plug</td>
</tr>
<tr>
<td>WPLN4132_R</td>
<td>IMPRES Multi-Unit Charger with Display Modules, 240 Volt, UK Plug</td>
</tr>
<tr>
<td>NLN7967</td>
<td>Wall Mount for Multi-Unit Charger</td>
</tr>
</tbody>
</table>

IMPRES™ Individual Charger Display Module

This module is compatible with the standard IMPRES™ Multi-Unit Charger WPLN4108_R, WPLN4109_R and WPLN4110_R. Up to 6 modules can be used per charger, one for each charging pocket. Includes detailed installation instructions.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLN5382</td>
<td>Charger Display Module for IMPRES Multi-Unit Charger Version 1.3 or Later.</td>
</tr>
</tbody>
</table>

Note: Display Modules compatible with Multi-Unit Charger version 1.2 or earlier require a software flash update.

Version number is located on label on the bottom of the IMPRES™ Multi-Unit charger. If no version is shown, it is earlier than version 1.2. Version 1.2 will appear as V1.20, 1.3 will appear as V1.30, etc.

IMPRES™ CD

This CD provides an interactive guide to the IMPRES Charging System. It outlines the benefits and gives examples of application usage.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0180305J70</td>
<td>IMPRES CD</td>
</tr>
</tbody>
</table>
Battery Maintenance SystemPLUS (BMSPLUS)
Increase the useful life of your batteries. Using interchangeable battery adapters (sold separately), the BMSPLUS is capable of charging and discharging, analyzing, conditioning and cycle testing batteries. It supports NiCd, NiMH and Li-Ion battery chemistries (Li-Ion 6-station units only) and tracks better voltage and capacity (mAh). Its easy-to-use design supports hundreds of two-way, cellular and camcorder batteries. The BMSPLUS offers a 3-year warranty and includes serial printer* port (RS-232).

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>WPLN4079_R</td>
<td>6-Station BMSPLUS, 110 Volt AC, 50/60 Hz, US Plug</td>
<td></td>
</tr>
<tr>
<td>WPLN4080_R</td>
<td>6-Station BMSPLUS, 230 Volt AC, 50/60 Hz, Euro Plug</td>
<td></td>
</tr>
<tr>
<td>WPLN4081_R</td>
<td>6-Station BMSPLUS, 230 Volt AC, 50/60 Hz, UK Plug</td>
<td></td>
</tr>
<tr>
<td>WPPN4085_R</td>
<td>BMSPLUS Li-Ion Field Upgrade Kit. Upgrades WPLN4079_R, WPLN4080_R, WPLN4081_R. Allows units to support Li-ion batteries.</td>
<td></td>
</tr>
<tr>
<td>NDN4005</td>
<td>3-Station BMS, 110 Volt AC, 50/60 Hz. Does not support Li-ion or 3-cell batteries.</td>
<td></td>
</tr>
<tr>
<td>NDN4006</td>
<td>3-Station BMS, 230 Volt AC, 50/60 Hz. Does not support Li-ion or 3-cell batteries.</td>
<td></td>
</tr>
</tbody>
</table>

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

Battery Maintenance SystemPLUS (BMSPLUS) Adapters

- WPPN4019_R Adapter. Compatible with NiCd batteries only.
- WPPN4022_R Adapter. Compatible with both NiCd and NiMH batteries.
- WPPN4086_R Adapter. Compatible with NiCd, NiMH and Li-ion batteries.

Battery Optimizing System II (BOS II)
No other battery analyzer matches the speed, accuracy, versatility and ease-of-use of the BOS II in providing powerful analyzing capabilities. Users can select from 12 pre-programmed service programs making it quick and easy to get up and running. Because the BOS II is programmable, users can create custom programs to perform a wide variety of tasks specific to individual needs. 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, helping reduce battery replacement costs.

- WPLN4124_R BOS II, 4-Station, 90-264 Volt AC, US Plug. Adapter Plates Required.
- WPLN4125_R BOS II, 4-Station, 90-264 Volt AC, Euro/UK Plug. Adapter Plates Required.
- RL75765 BOS II Battery Adapter. For use with ASTRO XTS 3000 and XTS 4250 radios.

- Quicktest™ diagnostic feature measures a battery’s state of health in approximately 2 to 5 minutes
- 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)
- 100-Watt Universal Power Supply (110-240 VAC) provides up to 4 amps of power per station
- Interchangeable adapter plates accommodate nearly all Motorola two-way batteries and other major brands
vehicular chargers

Vehicular Travel Charger
A great traveling companion that ensures constant communication while on the road. Its small compact design allows the radio to be used while rapid charging in the charger base. Unit includes a voltage regulated vehicular charger adapter, custom charger base, mounting bracket and coil cord.

RLN4884  Vehicular Travel Charger
RLN5914  Universal Mounting Bracket for RLN4884.
   Includes screws and nylon strap cord.

TRAVEL CHARGER TRANSFORMERS
2580600E05  Transformer, 120 Volt, US
2580600E06  Transformer, 230 Volt, European
2580600E07  Transformer, 230 Volt, UK
2580600E08  Transformer, 220 Volt, Argentina

Vehicular Charger
This vehicular charger is a 12 Volt DC unit that supports NiCd, NiMH and Li-Ion batteries for XTS 3000 and XTS 4250. A microprocessor senses the type of battery installed and controls the rate-of-charge accordingly. Batteries are charged at a rapid-rate until fully charged at which point the unit reverts to a trickle charge. Batteries can be charged while on the radio or stand alone. The radio can be operated while in the charger and this unit is PAC RT compatible. The vehicular charger consists of a console, mounting hardware and supply cable.

WPLN4208  Vehicular Charger
Vehicular Adapters

Allow users to adapt XTS 3000, XTS 4250 or XTS 5000 portable radios for mobile operation. They provide in-vehicle rapid and trickle charging for NiCd, NiMH and Li-Ion batteries. These units offer quick radio release and dead battery operation and are powered by attaching the radio supply cable to the 12 Volt battery located inside a police car, utility truck or other vehicle. Connectors are provided for the vehicle’s external antenna, mobile microphone and optional amplified loudspeaker HSN1000 — these are required to allow operation of the portable radio in a way that is similar to that of a mobile. There is also a general interface connector for additional accessories. A color LED indicates battery recharge status. For XTVA operation, a microphone and RF Switch NTN8327 are required.

Vehicular Adapters offer quick radio release and dead battery operation. They are powered by attaching the radio supply cable to the 12 Volt battery located inside a police car, utility truck or other vehicle.

- NTN8561   XTS Vehicular Adapter. Closed Face with Limited Keypad Access, Mini-UHF.
- NTN8560   XTS Vehicular Adapter. Open Face with Limited Keypad Access, Mini-UHF.
- NTN1607   XTS Vehicular Adapter. Closed Face, BNC.
- NTN1606   XTS Vehicular Adapter. Open Face with Limited Keypad Access, BNC.

ADAPTER KITS FOR ACCESSORIES

- NTN8941   XTVA Data Cable Kit. Required for additional accessories, sold separately.
- NTN8943   XTVA Accessory Adapter Kit. Required for additional accessories, sold separately.

REQUIRED ACCESSORIES FOR VEHICULAR ADAPTERS

- NTN8940   Trunnion. Required for operation.
- NTN8270   Tool Wrench for RF Switch. Required for operation.
- NTN8327   RF Adapter. Required for operation.

OPTIONAL ACCESSORIES FOR VEHICULAR ADAPTERS

- PLN7737   Hand Held Control Head
- HSN1000   External Speaker, Amplified, 6-Watt
- HLN9330   Emergency Foot Switch
- GLN7280   Emergency Push Button
- NKN6455   MTVA PA/Speaker Cable
Antenna Characteristics

Heliflex antennas are engineered for maximum output and coverage.

Stubby antennas are non-obtrusive, ideal for wearing the radio on a belt.

Whip antennas are one-piece with a steel core for optimal radiation.
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.

- 8505241U05  6 Inch Flexible Whip Antenna, 403-520 MHz
- 8505241U03  7 Inch Flexible Whip Antenna, 806-869 MHz
- 8505241U11  7 Inch Flexible Whip, Dual Band Antenna, 764-870 MHz

Helical
Helical antennas are sturdy and dependable. Each antenna is designed and built to quality standards. The skirt at the base of the connector helps to seal out damaging elements. The connector is made of plated brass material for long life.

- 8505644V01  6 Inch Helical Antenna, 136-151 MHz
- 8505644V02  6 Inch Helical Antenna, 151-162 MHz
- 8505644V03  6 Inch Helical Antenna, 162-174 MHz
- 8505644V04  3 Inch Helical Antenna, 403-435 MHz
- 8505644V05  3 Inch Helical Antenna, 435-470 MHz
- 8505644V06  3 Inch Helical Antenna, 470-520 MHz

Wideband
Wideband antennas are ideal when the radio is used in different frequencies since one antenna will cover all ranges.

- 8505518V01  8 Inch Wideband Antenna, 136-174 MHz

Stubby
This quarterwave stubby antenna is ideal when the radio is worn on a belt because the short antenna is unobtrusive. This broad band antenna can be used for both 800 and 900 MHz applications.

- 8505241U06  4 Inch Stubby Antenna, 806-941 MHz
**Police**

Whether in hot pursuit or investigating a cold case, communication can be made much easier with a CommPort™ Integrated Microphone/Receiver System.

**Fire**

It takes two hands for climbing ladders and controlling hoses, and solutions like our Chest Pack provide both welcome freedom and valued protection in the heat of the action.

**Emergency Response**

First responders deserve first-class tools for communicating their position and conditions, and our Lightweight Headsets help everyone quickly and clearly get the message.

**Security**

From crowd control to answering an alarm signaling illegal entry, a Remote Speaker Microphone lets professionals respond instantly without the need to reach for the radio controls.
ASTRO® Digital XTS 1500™/XTS 2250™ radios offer high performance capability in an easy-to-use small size.

Lightweight and convenient to carry, these radios feature Noise Reduction Software for enhanced audio quality and support multiple system configurations to match your needs.

“Yes Captain... we put the engine fire out, the ambulance just got here, so we’re heading back to the station.”
NMN6191 Noise-Cancelling Remote Speaker Microphone

is the perfect choice when you must be heard the first time.

In the case.
Out of the case.
In. Out.
It’s more efficient to leave a radio in place and wear a microphone on a uniform jacket or shirt collar — and Motorola Original® audio accessories make it possible.

The Remote Speaker Microphone with Emergency Button has an earphone jack located on the microphone head that allows the user to receive discreet audio when used with the following earpieces RLN4941, AARLN4885 and WADN4190.
Remote Speaker Microphones (RSM)
These compact Remote Speaker Microphones are water-resistant and allow talking and listening without removing the radio from the belt or case. They have a 6-foot coiled cord assembly, 3.5mm earjack, swivel clip and quick disconnect latch.

NMN6193*  Remote Speaker Microphone
NMN6191*  Noise-Cancelling Remote Speaker Microphone
0104010J46  Replacement Coil Cord Assembly for Remote Speaker Microphone

Remote Speaker Microphone with Emergency Button
The orange button on the microphone head can be used to signal that the operator needs help. This microphone offers high/low volume control and has a 3.5mm earjack on the microphone head. Emergency activation from the RSM is delayed until programmed Mandown Pre-alert and Post-alert delays elapse. Depending on radio model, factory defaults or previous programming could set the delay times for as long as 8 to 120 seconds.

RMN5038*  Remote Speaker Microphone with Emergency Button

Public Safety Microphones (PSM)
Public Safety Speaker Microphones include straight cord assembly, 3.5mm earjack, swivel clip, antenna connector and receive audio high/low toggle switch. Use with radio’s antenna, sold separately. RF adapter is included. Not for use in VHF frequency bands.

RMN5072*  Public Safety Microphone with 30 Inch Straight Cord
RMN5073*  Public Safety Microphone with 24 Inch Straight Cord
RMN5074*  Public Safety Microphone with 18 Inch Straight Cord

RSM/PSM Audio Accessories
The following earpieces are compatible with the Remote Speaker Microphone with Emergency Button RMN5038 and Public Safety Microphones RMN5072, RMN5073 and RMN5074.

RLN4941  Receive-Only Earpiece with Translucent Tube and Rubber Eartip
AARLN4885  Receive-Only Covered Earbud
WADN4190  Receive-Only Flexible Earpiece

Epaulet Straps
Black leather Epaulet Strap secures Remote Speaker Microphone to epaulet on shirt or jacket and accommodates back clip in leather cut-outs. Snap closure secures cord to allow reliable communications in hostile environments.

RLN4294  Epaulet Strap, Velcro
RLN4295  Epaulet Strap, with Clip

*Intrinsically Safe (FM)
## Surveillance Kits

Surveillance accessories allow the radio user to privately receive messages with the earpiece and are ideal when environments require discreet communication. The following surveillance accessories require the 3.5mm threaded adapter jack BDN6676 that attaches to the radio, unless being used with speaker microphone.

### 1-Wire Surveillance Kits

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>BDN6664*</td>
<td>Receive-Only Earpiece with Standard Earphone (1-Wire)</td>
<td>Beige</td>
</tr>
<tr>
<td>BDN6665**</td>
<td>Extra Loud Receive-Only Earpiece with Standard Earphone (1-Wire)</td>
<td>Beige</td>
</tr>
<tr>
<td>BDN6726*</td>
<td>Receive-Only Earpiece with Standard Earphone (1-Wire)</td>
<td>Black</td>
</tr>
<tr>
<td>BDN6727**</td>
<td>Extra Loud Receive-Only Earpiece with Standard Earphone (1-Wire)</td>
<td>Black</td>
</tr>
<tr>
<td>BDN6666*†</td>
<td>Receive-Only Earpiece with Volume Control and Earloop (1-Wire)</td>
<td>Beige</td>
</tr>
<tr>
<td>BDN6728*</td>
<td>Receive-Only Earpiece with Volume Control and Earloop (1-Wire)</td>
<td>Black</td>
</tr>
</tbody>
</table>

### 2-Wire Surveillance Kits

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>BDN6667*</td>
<td>Earpiece with Microphone and Push-to-Talk Combined (2-Wire)</td>
<td>Beige</td>
</tr>
<tr>
<td>BDN6669**</td>
<td>Extra Loud Earpiece with Microphone and Push-to-Talk Combined (2-Wire)</td>
<td>Beige</td>
</tr>
<tr>
<td>BDN6729*</td>
<td>Earpiece with Microphone and Push-to-Talk Combined (2-Wire)</td>
<td>Black</td>
</tr>
<tr>
<td>BDN6731**</td>
<td>Extra Loud Earpiece with Microphone and Push-to-Talk Combined (2-Wire)</td>
<td>Black</td>
</tr>
</tbody>
</table>

### 3-Wire Surveillance Kits

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>BDN6668*</td>
<td>Earpiece with Microphone and Push-to-Talk Separate (3-Wire)</td>
<td>Beige</td>
</tr>
<tr>
<td>BDN6670**</td>
<td>Extra Loud Earpiece with Microphone and Push-to-Talk Separate (3-Wire)</td>
<td>Beige</td>
</tr>
<tr>
<td>BDN6730*</td>
<td>Earpiece with Microphone and Push-to-Talk Separate (3-Wire)</td>
<td>Black</td>
</tr>
<tr>
<td>BDN6732**</td>
<td>Extra Loud Earpiece with Microphone and Push-to-Talk Separate (3-Wire)</td>
<td>Black</td>
</tr>
</tbody>
</table>

### Surveillance Kits - With Extended-Wear Comfort Earpiece

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLN5314</td>
<td>Receive-Only Comfort Earpiece. Beige.</td>
<td></td>
</tr>
<tr>
<td>RLN5313</td>
<td>Receive-Only Comfort Earpiece. Black.</td>
<td></td>
</tr>
<tr>
<td>RLN5311</td>
<td>Earpiece w/Microphone and PTT Combined (2-Wire). Beige.</td>
<td></td>
</tr>
<tr>
<td>RLN5312</td>
<td>Earpiece w/Microphone and PTT Combined (2-Wire). Black.</td>
<td></td>
</tr>
</tbody>
</table>

### Noise Kits

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLN6230</td>
<td>Extreme Noise Kit. Includes 2 foam earplugs. Black.</td>
<td>Black</td>
</tr>
<tr>
<td></td>
<td>For high-noise Noise reduction =24dB. Can be used with Clear Comfortable Earpieces, sold separately.</td>
<td></td>
</tr>
<tr>
<td>RLN6232</td>
<td>Low Noise Kit - Clear Acoustic Tube Assembly Includes 1 rubber ear tip. For low noise environments, does not provide hearing protection.</td>
<td></td>
</tr>
<tr>
<td>5080369E39†</td>
<td>Extra Loud Earphone. Beige.</td>
<td></td>
</tr>
<tr>
<td>5080370E91†</td>
<td>Extra Loud Earphone. Black.</td>
<td></td>
</tr>
</tbody>
</table>

### Surveillance Replacement Accessories

- 3.5mm Jack Adapter with Quick Disconnect Latch BDN6676*
- Replacement Foam Plugs. Pack of 50. 5080384F72

### Clear Comfortable Earpieces

The Clear Comfortable Earpiece forms to the inside of the ear and is perfect for low noise environments. It’s made of easy-to-clean, chemically-inert hypoallergenic material. Compatible with NTN8371 and all Surveillance Kits.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLN4760</td>
<td>Small Custom Earpiece - Right Ear</td>
<td></td>
</tr>
<tr>
<td>RLN4761</td>
<td>Medium Custom Earpiece - Right Ear</td>
<td></td>
</tr>
<tr>
<td>RLN4762</td>
<td>Large Custom Earpiece - Right Ear</td>
<td></td>
</tr>
<tr>
<td>RLN4763</td>
<td>Small Custom Earpiece - Left Ear</td>
<td></td>
</tr>
<tr>
<td>RLN4764</td>
<td>Medium Custom Earpiece - Left Ear</td>
<td></td>
</tr>
<tr>
<td>RLN4765</td>
<td>Large Custom Earpiece - Left Ear</td>
<td></td>
</tr>
</tbody>
</table>

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

RLN4922  Completely Discreet Earpiece Kit
RLN4919  Replacement Earguards. 5 per pack.

Ear Microphone Systems (EMS)
This compact, lightweight unit picks up sound through bone vibrations in the ear canal. The miniature earpiece leaves the hands-free and face unobscured, good for rescue and emergency personnel that must retain the ability to help, hear and speak directly to others...those not on the communication system. EMS may be worn with protective masks without reduction in clarity of sound. It’s ideal for high-noise environments. Available in PTT or Voice-Activated (VOX). Interface Module is required and sold separately.

BDN6677*  EMS with PTT Interface. Black. For standard noise levels (up to 95dB).
BDN6678*  EMS with PTT Interface. Beige. For standard noise levels (up to 95dB).
BDN6641*  EMS with PTT Interface. Grey. For high-noise levels (up to 105dB).
BDN6708*  Push-to-Talk Only Interface Module
BDN6671*  Push-to-Talk and Voice-Activated Interface Module

0180300E25  Earguard with Adjustable Loop
0180358B38* Remote Push-to-Talk Ring Switch.
0180300E83* Remote Push-to-Talk Body Switch.
0180358B34  Earholder. Black, size large. Secures Ear Microphone in ear.
428069E44  Replacement Belt Clip with Screws
0180305J46  Training CD-ROM
For Ear Microphone System and Temple Transducer.

*Intrinsically Safe (FM)
Take advantage of these high-quality Motorola Original® audio accessories that offer clear reception, lightweight convenience and all-day comfort.

The CommPort System is ideal for firefighters and other public safety professionals because it’s compatible with most headgear and airmasks.

CommPort: Integrated Microphone/Receiver System

The CommPort System’s advanced, self-adjusting microphone and miniature receiver connect to a two-way radio and make it possible to communicate under the most adverse conditions. A variety of Push-to-Talk options allow users to customize the CommPort System for almost any application.

- NTN1624* Integrated Ear Microphone/Receiver System with Palm PTT
  Includes 3.5mm adapter BDN6676.
- NTN1625* Integrated Ear Microphone/Receiver System with PTT on Radio Adapter
  Includes 3.5mm adapter BDN6676.
- NTN1663* Integrated Ear Microphone/Receiver System with Ring PTT
  Includes 3.5mm adapter BDN6676.
- NTN1736* Integrated Ear Microphone/Receiver System with Snap-On-Side PTT
  Includes 3.5mm adapter BDN6676.
- NNTN4186* Integrated Ear Microphone/Receiver System with Body PTT
  Includes 3.5mm adapter BDN6676.

Optional Accessories for CommPort

- NKN6510 Replacement Palm PTT Cable for NTN1624
- NKN6512 Replacement Ring PTT Cable for NTN1663
- NKN6525 Replacement Snap-On-Side PTT Cable for NTN1736
- NNTN4188 Replacement Remote PTT Body Switch for NNTN4186
- NTN8819* Ear Microphone Assembly
- NKN6508 Replacement Cable for NTN1625
- NTN8821 CommPort Maintenance Kit
  Includes 10 replacement ear tubes, 10 microphone seal strips and 2 windscreens.
- NTN8986 Adhesive Pads. For secure attachment to ear. Pack of 90.
- NTN8988 Ear Straps. For secure attachment to ear. Pack of 10.
- 4285838B01 Replacement Collar Clip
- 4202006A01 Replacement Back Cover Clip
- BDN6676 3.5 mm Jack Adapter with Quick Disconnect Latch

*Intrinsically Safe (FM)
Pellet-Style Earpieces
Pellet-style earpieces allow users to receive communication discreetly and are comfortable for extended-wear use.

BDN6780  Earbud with Microphone and Push-to-Talk
Requires adapter BDN6676.
BDN6781  Earbud, receive-only. Requires BDN6676 adapter unless being used with a speaker or microphone.
7580372E70  Replacement Foam Cushion for Pellet Earpieces
BDN6676  3.5mm Jack Adapter with Quick Disconnect Latch

Temple Transducer
The Temple Transducer represents a significant achievement in headset design and functionality. It allows the user to receive audio without covering the ear. The receiver portion of this accessory rests on the temples and is capable of converting the receive audio from a two-way radio into sound vibration. The sound vibration is transmitted through the surrounding human tissue and bone directly into the inner ear where it is received by the user. It features an In-line PTT and noise-cancelling boom microphone. The Temple Transducer enhances communication and safety by not impairing the user’s hearing of the external sound environment, such as machinery and equipment, warning and fire alarms, the intercom, traffic and even casual conversations with co-workers.

RMN4049*  Temple Transducer
0180305J46  Training CD-ROM. For Ear Microphone System and Temple Transducer.

Rugged Temple Transducer
The Rugged Temple Transducer comes equipped with all the features of the basic model. It sports a bigger Push-to-Talk button and a larger noise-cancelling boom microphone. It is fully adjustable for different head sizes, making it comfortable for extended-wear. Over-the-head band allows users to wear helmets, hardhats and other head gear – and it really stays in place. Water-resistant boom microphone is ideal for use in blowing rain and the secure cap on PTT prevents accidental activation in mission critical situations.

RMN5049*  Rugged Temple Transducer

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

The Racing Headset

RMN5015 lets users take charge... in spite of high background noise.

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

RMN5015 Racing Headset with Noise-Cancelling Swivel Boom Microphone
Behind-the-Head style.
Noise reduction rating = 24dB

BDN6673 Adapter Cable for RMN5015
clear communication...

**Noise-Cancelling Headsets With Boom Microphone**
Ideal for two-way communication in extremely noisy environments. Dual-Muff, tactical headsets include two microphones on the outside of the earcups which reproduce the ambient sound back into the headset. Harmful sounds are suppressed to a safe level and low sounds are amplified up to 5 times the original level, but never more than 82dB. Includes on/off volume control on earcups and 3-foot coiled cord. Easily replaceable eartips are filled with liquid and foam combination to provide excellent sealing and comfort. Requires RKN4095 In-line PTT adapter cable.

Hardhat not included.

RMN4052  Tactical Headband Style Headset, Grey. Noise Reduction Rating = 24dB. Requires RKN4095 Adapter Cable
RKN4095  In-Line PTT Adapter Cable
For use with RMN4051, RMN4052 and RMN4053 headsets.

**Hardhat Mount Headset With Noise-Cancelling Boom Microphone**
Ideal for two-way communication in high-noise environments, it mounts easily to hardhats with slots and has an excellent noise reduction of 22dB. Easily replaceable eartips are filled with liquid and foam combination to provide excellent sealing and comfort. 3-foot coiled cord assembly.

Requires RKN4095 In-line PTT Adapter Cable.

Hardhat not included.

RMN4051  Two-way Hardhat-mount Headset. Black.

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

NMN6258  Medium Weight Headset, Over-the-Head Style with In-line PTT. Noise reduction rating = 24dB.
NMN6259  Medium Weight Headset, Behind-the-Head Style with In-line PTT. Noise reduction rating = 24dB.

**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. Radio adapter cable BDN6640 required, sold separately.

BDN6645*  Push-to-Talk Headset with Boom Microphone
Requires adapter cable BDN6640. Noise reduction rating = 24dB.
BDN6635*  Voice-Activated (VOX) Headset with Boom Microphone
Requires adapter cable BDN6640. Noise reduction rating = 24dB.
BDN6636*  Voice-Activated (VOX) Headset with Throat Microphone
Requires adapter cable BDN6640. Noise reduction rating = 24dB.
BDN6673*  Radio Adapter Cable

*Intrinsically Safe (FM)
Leather 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. Motorola carry cases were developed to meet the demands of public safety and other users who operate in the most rigorous of environments. Leather cases are constructed of top grain, 8 ounce leather and all stainless steel hardware. High-activity cases have a swivel D-ring button and belt loop. To remove case from belt loop, rotate case 180 degrees and slide case upward, out of the holder. Case stays on belt more securely in high-activity applications while allowing the radio to swing freely with body movements.

NNTN4115  Leather Case with High-Activity Swivel
Features 3 inch swivel belt loop, D-rings and T-strap.
NNTN4116  Leather Case with High-Activity Swivel
Features 2.5 inch swivel belt loop, D-rings and T-strap.
NNTN4117  Leather Case with Belt Loop
Features 3 inch belt loop, D-rings and T-strap.

Nylon Carrying Case
NTN7247   Nylon Case with Snap Belt Loop and T-strap

Carrying Accessories
T-STRAPS
NTN8383   Leather T-strap, Plain Action Snap
NTN8384   Leather T-strap, Hard Action Snap

HIGH-ACTIVITY BELT LOOPS
NTN8039   Leather Swivel Belt Loop. 2.5 Inches.
NTN8040   Leather Swivel Belt Loop. 3 Inches.

BELT CLIPS
HLN6853   2.25 Inch Spring Action Belt Clip
HLN9844   2 Inch Removable Belt Clip Attachment

CARRYING STRAP
NTN5243   Adjustable, Black Nylon Carrying Strap
Attaches to D-ring on case.
Unlike rigid holders, the universal-fit RadioPAk is lightweight and comfortable. An ideal companion for two-way radios, as well as iDEN® portables and Cellular phones.

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

HLN6602 Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
1505596Z02 Replacement Strap for HLN6602/RLN4570

Break-A-Way Chest Pack
All the features of the original Universal Chest Pack (HLN6602) plus break-a-way tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure.

1505596Z02 Replacement Strap for HLN6602/RLN4570

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.

RLN4815 RadioPAk Radio/Utility Case
4280384F89 RadioPAk Extension Belt
For waists larger than 40 inches.

Waterproof Bag
HLN9985 Waterproof Bag with Large Strap

Portable Radio Hangers
Portable Radio Hangers slide over and hang from the vehicle door panel allowing convenient, easy mounting. Radio belt clip required.

TDN9327 Portable Radio Hanger for door panels up to 2.75 Inches.
TDN9373 Portable Radio Hanger for door panels 2.75 to 3.25 Inches.
Battery Characteristics

NiCd batteries provide the maximum number of charge/discharge cycles and are best suited for temperature extremes.

NiMH batteries provide more talk-time per shift and are less prone to memory effect.

Li-Ion batteries offer the best power-to-weight ratio of all chemistries, with no memory effect.

Batteries

**PREMIUM NICKEL CADMIUM - NiCd**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Capacity</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTN9815</td>
<td>NiCd, 1525 mAh 7.5 Volt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NTN9816*</td>
<td>NiCd, 1525 mAh 7.5 Volt</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**IMPRES™ Batteries**

IMPRES batteries, when used with an IMPRES charger, provide automatic, adaptive reconditioning, end-of-life display and other advanced features. Data is stored in the battery and communicated to the charger via a unique IMPRES communication protocol which is designed to maximize talk-time and optimize battery cycle life – all automatically.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Capacity</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTN9858</td>
<td>NiMH, 1850 mAh 7.5 Volt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NTN9857*</td>
<td>NiMH, 1700 mAh 7.5 Volt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NNTN6263*</td>
<td>NiMH, 1700 mAh 7.5 Volt, Ruggedized</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NNTN7335</td>
<td>Li-Ion, 2700 mAh 7.2 Volt</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Single-Unit, Rapid-Rate, Universal Charger**

These tri-chemistry chargers support Nickel Cadmium, Nickel Metal Hydride and Lithium-ion batteries. They will rapid charge most batteries to 90% capacity in one to two hours and employ trickle and maintenance modes that ensure batteries are safely charged to full-capacity.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTN1667</td>
<td>Universal Charger, 110 Volt</td>
</tr>
<tr>
<td>NTN1668</td>
<td>Universal Charger, 220 Volt</td>
</tr>
<tr>
<td>RPX4749</td>
<td>Charger Base with Transformer, 230 Volt UK Plug</td>
</tr>
</tbody>
</table>

*Intrinsically Safe (FM)
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 build-up. Optional accessories are available that allow the MCC to be used in both AC and DC environments - that’s flexibility.

WPPN4002_R Base Charge Unit, 110 Volt AC. Adapter plates sold separately.
WPLN4168_R MCC Kit, 110 Volt AC. Includes single-unit base and adapter plate
WPPN4098_R XTS Adapter plate only
WPPN4065_R Multi-Unit Conditioning Charger, 4-Station Base, 110 Volt
   Adapter plates sold separately.

Vehicular Mounting
RLN4814A Vehicular Mounting Bracket and Hard Wire Cable
   For Single-Unit Motorola Conditioning Chargers
   Includes DC Hard Wire Cable 3080384M21.
3080384M21 DC Hard Wire Cable with 3 AH In-line fuse.

Vehicular Power Adapter
3080384G15 Vehicular Power Adapter

Vehicular Travel Charger
A great traveling companion that ensures constant communication while on the road. Its small, compact design allows the radio to be used while rapid charging in the charger base. Unit includes a voltage regulated vehicular charger adapter, custom charger base, mounting bracket and coil cord.

RLN4884 Vehicular Travel Charger
RLN4914 Universal Mounting Bracket for RLN4884. Includes screws and nylon strap cord.

TRAVEL CHARGER TRANSFORMERS
2580600E05 Transformer, US, 120 Volt
2580600E06 Transformer, European, 230 Volt
2580600E07 Transformer, UK, 230 Volt
2580600E08 Transformer, Argentina, 220 Volt

Vehicular Charger
This vehicular charger is a 12 Volt DC unit that supports NiCd, NiMH and Li-Ion batteries. A microprocessor senses the type of battery installed and controls the rate of charge accordingly. Batteries are charged at a rapid-rate until fully charged at which point the unit reverts to a trickle charge. Batteries can be charged while on the radio or stand alone. The radio can be operated while in the charger and this unit is PAC RT compatible. The vehicular charger consists of a console, mounting hardware and supply cable.

WPLN4208 Vehicular Charger
**IMPRES™ Smart Energy Systems**

Through the use of its advanced charging algorithm and automatic reconditioning features, the IMPRES Smart Energy System ensures maximum talk-time and optimized battery cycle life. This smart energy system automatically reconditions IMPRES batteries based on actual usage, keeping them in peak condition. Talk-time and cycle life are optimized and the need for manual maintenance programs is eliminated. Its advanced conditioning features allow batteries to be safely left on the charger for extended periods of time without incurring the damaging heat build-up which can decrease battery cycle life. In addition, batteries left in the charger are kept fully charged so they are always ready when needed. This rapid-rate, tri-chemistry charging system will also charge compatible non-IMPRES batteries and supports multiple radio platforms including SABER, XTS and HT 1000 Series portables.

**IMPRES™ Single-Unit Chargers**

- WPLN4111_R  IMPRES Single-Unit Charger, 110 Volt, US Plug
- WPLN4112_R  IMPRES Single-Unit Charger, 220 Volt, Euro Plug
- WPLN4113_R  IMPRES Single-Unit Charger, 240 Volt, UK Plug
- 5889254E01  Battery Adapter. Required for NTN4538_R, NTN4593_R, NTN7014_R and NTN8818 batteries.

**IMPRES™ Multi-Unit Chargers**

- WPLN4108_R  IMPRES Multi-Unit Charger, 110 Volt, US Plug
- WPLN4109_R  IMPRES Multi-Unit Charger, 220 Volt, Euro Plug
- WPLN4110_R  IMPRES Multi-Unit Charger, 240 Volt, UK Plug
- NLN7967  Wall Mount for Multi-Unit Chargers

**IMPRES™ Multi-Unit Chargers with Display Modules**

Charger Display Modules provide powerful, “real time” analyzing information for IMPRES batteries, including current charge status, battery mAh, percent rated capacity and battery voltage. Readout displays battery kit number, serial number and chemistry and the time remaining to complete the charge for NiCd and NiMH batteries. It also forecasts the number of cycles to next reconditioning and more.

- WPLN4130  IMPRES Multi-Unit Charger with Display Modules, 110 Volt, US Plug
- WPLN4131_R  IMPRES Multi-Unit Charger with Display Modules, 220 Volt, Euro Plug
- WPLN4132_R  IMPRES Multi-Unit Charger with Display Modules, 240 Volt, UK Plug
- NLN7967  Wall Mount for Multi-Unit Charger

**IMPRES™ Individual Charger Display Module**

This module is compatible with the standard IMPRES™ Multi-Unit Charger WPLN4108_R, WPLN4109_R and WPLN4110_R. Up to 6 modules can be used per charger, one for each charging pocket. Includes detailed installation instructions.

- RLN5382  Charger Display Module for IMPRES Multi-Unit Charger Version 1.3 or Later.

Note: Display Modules compatible with Multi-Unit Charger version 1.2 or earlier require a software flash update.

Version number is located on label on the bottom of the IMPRES™ Multi-Unit charger. If no version is shown, it is earlier than version 1.2. Version 1.2 will appear as V1.20, 1.3 will appear as V1.30, etc.

**IMPRES™ CD**

This CD provides an interactive guide to the IMPRES Charging System. It outlines the benefits and gives examples of application usage.

- 0180305J70  IMPRES CD
Battery Maintenance SystemPLUS (BMSPLUS)
Increase the useful life of your batteries. Using interchangeable battery adapters (sold separately), the BMSPLUS is capable of charging and discharging, analyzing, conditioning and cycle testing batteries. It supports NiCd, NiMH and Li-Ion battery chemistries (Li-Ion 6-station units only) and tracks better voltage and capacity (mAh). Its easy-to-use design supports hundreds of two-way, cellular and camcorder batteries. The BMSPLUS offers a 3-year warranty and includes serial printer* port (RS-232).

WPLN4079_R  6-Station BMSPLUS, 110 Volt AC, 50/60 Hz, US Plug
WPLN4080_R  6-Station BMSPLUS, 230 Volt AC, 50/60 Hz, Euro Plug
WPLN4081_R  6-Station BMSPLUS, 230 Volt AC, 50/60 Hz, UK Plug
WPPN4085_R  BMSPLUS Li-Ion Field Upgrade Kit
  Upgrades WPLN4079AR, WPLN4080_R, WPLN4081_R.
  Allows units to support Li-Ion batteries.
NDN4005  3-Station BMS, 110 Volt AC, 50/60 Hz
  Does not support Li-Ion or 3-cell batteries.
NDN4006  3-Station BMS, 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.

Battery Maintenance SystemPLUS (BMSPLUS) Adapters
WPPN4097_R  NiCd and NiMH Adapter, 7.5 Volt

Battery Optimizing System II (BOS II)
No other battery analyzer matches the speed, accuracy, versatility and ease-of-use of the BOS II in providing powerful analyzing capabilities. Users can select from 12 pre-programmed service programs making it quick and easy to get up and running. Because the BOS II is programmable, users can create custom programs to perform a wide variety of tasks specific to individual needs. 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, helping reduce battery replacement costs.

WPLN4124_R  BOS II, 4-Station, 90-264 Volt AC, US Plug. Adapter Plates Required.
WPLN4125_R  BOS II, 4-Station, 90-264 Volt AC, Euro/UK Plug. Adapter Plates Required.
RL_76341  Standard Battery Adapter. For use with XTS 2500 radios.

• Quicktest™ diagnostic feature measures a battery’s state of health in approximately 2 to 5 minutes
• 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)
• 100-Watt Universal Power Supply (110-240 VAC) provides up to 4 amps of power per station
• Interchangeable adapter plates accommodate nearly all Motorola two-way batteries and other major brands
Antenna Characteristics

Heliflex antennas are engineered for maximum output and coverage.

Stubby antennas are non-obtrusive, ideal for wearing the radio on a belt.

Whip antennas are one-piece with a steel core for optimal radiation.
**Flexible Whip**
Antenna has a one-piece finish and steel core for optimal strength and better radiation characteristics. Provides more comfort when radio is worn on the belt.

- NAE6549_R 7 Inch Flexible Whip Antenna, 403-520 MHz
- 8505241U03 7 Inch Flexible Whip Antenna, 806-870 MHz
- 8505241U11 7 Inch Flexible Whip Dual Band Antenna, 764-870 MHz

**Stubby**
This quarterwave Stubby Antenna is ideal when radio is worn on the belt because the short antenna is unobtrusive. This is a broad band antenna that can be used for both 800 MHz and 900 MHz applications.

- 8505241U06 4 Inch Stubby Antenna, 806-941 MHz

**Helical**
Helical antennas are sturdy and dependable. Each antenna is designed and built to quality standards. The skirt at the base of the connector helps to seal out damaging elements. The connector is made of plated brass material for long life.

- 8505644V01 6 Inch Helical Antenna, 136-151 MHz
- 8505644V02 6 Inch Helical Antenna, 151-162 MHz
- 8505644V03 6 Inch Helical Antenna, 162-174 MHz
- NAE6546_R 3 Inch Helical Antenna, 403-435 MHz
- NAE6547_R 3 Inch Helical Antenna, 435-470 MHz
- NAE6548_R 3 Inch Helical Antenna, 470-520 MHz
Crowd Control
Keeping people away from potential dangers is a task made easier with Speakers on board each vehicle.

Crisis Situations
Day one calls for on-scene decisions. Day two moves command to a situation room. Control Station Accessories make it easy to convert radios for inside use.

Utility Repairs
Maximizing worker safety in high-crime areas is a number one priority, and an Emergency Switch is a ready solution if an alarm or help message needs to be sent.

Emergency Response
If just one number is heard wrong, help may not get to the correct address on time. An External Speaker can help make everything clear under noisy conditions.
high performance, quality, reliability and interoperability in daily communications...

ASTRO® XTL™ 1500, XTL 2500 and XTL 5000 mobile radios are ideal for demanding environments — law enforcement, fire, EMS, government agencies, construction and more. That’s because they support Project 25 and stand up to your toughest challenges. All models are capable of integrated voice and data service, and accept FLASHport™ software upgrades so you can add features as your communication needs evolve.

“This is car 67...

EMS’s expected ETA is twenty-four fifteen, fire department is on the scene.”
**Microphones and Accessories**

- **HMN4079** Keypad Microphone
- **HMN1090** Standard Palm Microphone
- **HMN1087** Gooseneck Push-to-Talk
  - Attaches to vehicle steering column.
  - For use with Visor Microphone.
- **HMN4089** Visor Microphone, Remote Mount
- **HMN1089** Modified GCAI Palm Microphone
  - Water-resistant.
- **HLN1457** Handset with Hang Up Cup with Coiled Cable. Includes cradle.
- **HKN1018** Hang Up Handset with Normal Armoured Cable
- **HLN1457** Handset with Hang Up Cup

**External Speaker**

Provides audio for high ambient noise environments.

- **HSN4038** External 7.5 Watt Speaker

**Motorcycle Speaker**

- **HSN6003** Motorcycle Speaker
  - Weather-resistant.

**Trunnion Kits**

- **HKN6186** Control Head Remote Mount Trunnion Kit
- **HLN6909** Quick Release, High Power Trunnion Kit
- **HLN6910** High Power Trunnion Kit
  - For XTL 5000 05 only.
- **HLN6861** Standard Installation Trunnion Kit
Control Station Accessories

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMN5070</td>
<td>GCAI Desk Microphone</td>
</tr>
<tr>
<td>HLN6042</td>
<td>Desk Tray with Speaker</td>
</tr>
<tr>
<td>HLN6925</td>
<td>Control Station Mount</td>
</tr>
<tr>
<td>HPN4007</td>
<td>Power Supply, 25-60 Watt Rated.</td>
</tr>
</tbody>
</table>

Emergency Switches

These switches enable the user to send an emergency message to a desktop console, where the signalling unit ID number is displayed and an alarm is sounded.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLN5113</td>
<td>Emergency Foot Switch</td>
</tr>
<tr>
<td>HLN5131</td>
<td>Emergency Push Button</td>
</tr>
<tr>
<td>GLN7278</td>
<td>Foot Switch Push-to-Talk</td>
</tr>
</tbody>
</table>

Miscellaneous Hardware

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLN6372</td>
<td>Key Lock Mount</td>
</tr>
</tbody>
</table>
A communication system is only as good as the mobile antennas used to transmit and receive — so whenever lives are on the line, Motorola Original® audio accessories should be the go-to choice.

### Power Cables
- **HKN4191** 10-Foot Power Cable
- **HKN4192** 20-Foot Power Cable
- **HKN6032** Motorcycle Power Cable
- **HKN6110** 100-Watt Power Cable

### Remote Mount Cables
- **HKN6164** 131-Foot Remote Mount Cable — 40 meters
- **HKN6165** 115-Foot Remote Mount Cable — 35 meters
- **HKN6166** 75-Foot Remote Mount Cable — 23 meters
- **HKN6167** 50-Foot Remote Mount Cable — 15 meters
- **HKN6168** 30-Foot Remote Mount Cable — 10 meters
- **HKN6169** 17-Foot Remote Mount Cable — 5 meters
- **HKN6170** 10-Foot Remote Mount Cable — 3 meters

### Remote Mount Kits
- **HKN6161** 20-Foot Dash Mount Data Cable Kit - IV&D
- **HKN6160** 6-Foot Dash Mount Data Cable Kit - IV&D

### Miscellaneous Cables
- **GKN6271** Ignition Sense Cable
- **HKN6182** Cable Keyloading Adapter - GCAI
Antennas

**VHF**
- HAD4006 136-144 MHz 1/4 Wave Roof Mount Antenna
- HAD4007 144-152 MHz 1/4 Wave Roof Mount Antenna
- HAD4008 152-162 MHz 1/4 Wave Roof Mount Antenna
- HAD4009 162-174 MHz 1/4 Wave Roof Mount Antenna
- HAD4017 146-174 MHz 1/4 Wave Roof Mount Antenna
- RAD4010_RB 136-174 MHz 3.0dB Wave Roof Mount Antenna

**UHF**
- HAE4003 450-470 MHz 1/4 Wave Roof Mount Antenna
- HAE4004 470-512 MHz 1/4 Wave Roof Mount Antenna
- HAE4011 450-470 MHz 3.5dB Gain Roof Mount Antenna
- HAE4012 470-495 MHz 3.0dB Gain Roof Mount Antenna
- HAE4013 494-512 MHz 3.0dB Gain Roof Mount Antenna
- RAE4014 450-470 MHz 5.0dB Gain Roof Mount Antenna
- RAE4014_RB 450-470 MHz 5.0dB Gain Roof Mount Antenna
- RAE4016_RB 494-512 MHz 5.0dB Gain Roof Mount Antenna
- HAE6010 380-433 MHz 3.5dB Gain Roof Mount Antenna
- HAE6011 380-433 MHz 5.0dB Gain Roof Mount Antenna
- HAE6012 380-433 MHz 1/4 Wave Roof Mount Antenna
- HAE6013 380-470 MHz Wideband 2.0dB Roof Mount Antenna

**700/800 MHz**
- HAF4013 762-870 MHz 3.0dB Gain Low Profile Antenna
- HAF4014 762-870 MHz 3.0dB Gain Elevated Feed Antenna
- HAF4016 762-870 MHz 1/4 Wave Roof Mount Antenna
- HAF4017 762-870 MHz 3.0dB Gain Collinear Roof Mount Antenna