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.
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.
precision controlled signalling and priority scanning capability...

ASTRO® Digital XTS 3000™/XTS 3500™/XTS 5000™ 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.
microphones and audio

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.

Spend more time on mission-critical communications — and less time having to ask “what’s your location?” with HMN4080A GPS Remote Speaker Microphone

GPS Remote Speaker Microphone

The Global Positioning System (GPS) Remote Speaker Microphone allows ASTRO® Digital XTS 5000™ portable two-way radio users in outdoor locations to be automatically tracked by satellite throughout North America. 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.

HMN4080A† GPS Remote Speaker Microphone

†Compatible only with the ASTRO® Digital XTS 5000™ portable two-way radio (Models I, II, III and Ruggedized) with a radio host code of R06.01.00 or later and 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.

- RMN6193C Remote Speaker Microphone
- RMN6191C Noise-Cancelling Remote Speaker Microphone
- 019401J46 Replacement Coil Cord Assembly for Remote Speaker Microphone

Remote Speaker Microphones - CommanderTM 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.

- RMN5021B Commander Remote Speaker Microphone
- RMN5023C Fully Submersible Commander Remote Speaker Microphone

For a completely submersible radio/microphone system use with XTS 3000R, XTS 3500R and XTS 5000R portable radios.

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.

- RMN6038B 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 RMN6038B.

- RLN4941A Receive-Only Earpiece with Translucent Tube and Rubber Eartip
- AARLN4885B Receive-Only Covered Earbud
- WADN4190B Receive-Only Flexible Earpiece

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 NTN8327B, sold separately.

- NMN6247A Public Safety Microphone with 30 Inch Straight Cord
- NMN6250A Public Safety Microphone with 24 Inch Straight Cord
- NMN6251A Public Safety Microphone with 18 Inch Straight Cord
- NTN8327B 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.

- NTN7660C 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.

- RLN4294A Epaulet Strap, Velcro
- RLN4295A Epaulet Strap, with Clip

*Intrinsically Safe
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 BDN6676D that attaches to the radio, unless being used with speaker microphone.

1-WIRE SURVEILLANCE KITS

- **BDN6664A** - Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.
- **BDN6726A** - Receive-Only Earpiece with Standard Earphone (1-Wire). Black.
- **BDN6727A** - Extra Loud Receive-Only Earpiece with Standard Earphone (1-Wire). Black.

2-WIRE SURVEILLANCE KITS


3-WIRE SURVEILLANCE KITS

- **BDN6730A** - Earpiece with Microphone and Push-to-Talk Separate (3-Wire). Black.

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.

- **RLN5311A** - Earpiece with Microphone and PTT Combined (2-Wire). Beige.
- **RLN5312A** - Earpiece with 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.

- **NTN8370A** - Extreme Noise Kit. Includes 2 foam earplugs. For high-noise environments. Noise reduction = 24dB. Can be used with Clear Comfortable Earpieces, sold separately.
- **5080370E91** - Extra Loud Earphone. Black.

SURVEILLANCE REPLACEMENT ACCESSORIES

- **BDN6676D** - 3.5mm Jack Adapter with Quick Disconnect Latch
- **5080380F72** - Replacement Foam Plugs. Pack of 50.

Clear Comfortable Earpieces

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

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

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

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

RLN4922A Completely Discreet Earpiece Kit
RLN4919A Replacement Earguards, 5 per pack.
RLN4005A 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.

BDN6677A* EMS with PTT Interface. Black. For standard noise levels (up to 95dB).
BDN6678A* EMS with PTT Interface. Beige. For standard noise levels up to 95dB.
BDN6641A* EMS with PTT Interface. Grey. For high-noise levels (up to 105dB).
BDN6642B* Push-to-Talk Only Interface Module
BDN6643B* Push-to-Talk and Voice-Activated Interface Module

OPTIONAL ACCESSORIES FOR THE EMS

0180300E25 Earguard with Adjustable Loop
0180368E38 Remote Push-to-Talk Ring Switch.
0180368E33 Remote Push-to-Talk Body Switch.
0180368E32 Eartip Holder Black, size small. Secures Ear Microphone in ear.
0180368E31 Eartip Holder Black, size medium. Secures Ear Microphone in ear.
0180368E30 Eartip Holder Black, size large. Secures Ear Microphone in ear.
0180368E29 Eartip Holder Clear, size large. Secures Ear Microphone in ear.
0180368E28 Eartip Holder Black, size medium. Secures Ear Microphone in ear.
0180368E27 Eartip Holder Black, size small. Secures Ear Microphone in ear.
420368E44 Replacement Belt Clip with Screws
0180305J46 Training CD-ROM

For Ear Microphone System and Temple Transducer.

*Intrinsically Safe
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 the user to customize the CommPort system for almost any application.

NTN1624A* Integrated Ear Microphone/Receiver System with Palm PTT
Includes 3.5mm adapter BDN6676D.

NTN1625A* Integrated Ear Microphone/Receiver System with PTT on Radio Adapter
Includes 3.5mm adapter BDN6676D.

NTN1663A* Integrated Ear Microphone/Receiver System with Ring PTT
Includes 3.5mm adapter BDN6676D.

NTN1736A* Integrated Ear Microphone/Receiver System with Snap-On-Side PTT
Includes 3.5mm adapter BDN6676D.

NTN1741B* Integrated Ear Microphone/Receiver System with Body PTT
Includes 3.5mm adapter BDN6676D.

OPTIONAL ACCESSORIES FOR COMMPORT

NKN6610A Replacement Palm PTT Cable for NTN1624A
NKN6613A Replacement Ring PTT Cable for NTN1625A
NKN6625A Replacement Snap-On-Side PTT Cable for NTN1736A
NNTN4187A Replacement Remote PTT Body Switch for NNTN4186A
NKN6618A Replacement Cable for NTN1625A
NNTN4188B* Ear Microphone Assembly
NNTN4187A CommPort Maintenance Kit. Includes 10 replacement ear tubes, 10 microphone seal strips and 2 windscreens.
NNTN4196B Adhesive Pads. For secure attachment to ear. Pack of 90.
NNTN4196A Ear Straps. For secure attachment to ear. Pack of 10.
4285838B01 Replacement Collar Clip
4202006A01 Replacement Back Cover Clip
BDN6676D 3.5mm Jack Adapter with Quick Disconnect Latch

*Intrinsically Safe
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 BDN6676D or the earjack on speaker microphones.

BDN6719A Flexible Ear Receiver with 3.5mm Threaded Plug
Adapter BDN6676D required if not used with speaker microphones.
BDN6676D 3.5mm Jack Adapter with Quick Disconnect Latch
7500372E11 Replacement Foam Ear Cushion for BDN6717B.

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

BDN6780A* Earbud with Microphone and Push-to-Talk. Requires adapter BDN6676D.
BDN6781A* Earbud, receive-only. Requires adapter BDN6676D unless being used with a speaker or microphone.
BDN6676D* 3.5mm Jack Adapter with Quick Disconnect Latch
7500372E70 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.

RMN4049A* 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.

RMN5049A* Rugged Temple Transducer
The Racing Headset

RMN5015A Racing Headset with Noise-Cancelling Swivel Boom Microphone
  Behind-the-Head style. Noise reduction rating = 24dB
BDN6673B Adapter Cable for RMN5015A

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 BDN6676D.

RMN4056B Receive-Only Dual-Muff Headband Style Headset. For use with 3.5mm threaded jack. Can be plugged directly into radio with 3.5mm adapter BDN6676D. Noise reduction = 24dB
RMN4057B 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 BDN6676D
BDN6676D 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 BDN6676D required.

NMN6245A Single-Muff Lightweight Headset with In-Line PTT Switch
  Requires audio adapter BDN6676D.
NMN6246B Ultra-Light Headset with Boom Microphone, In-Line PTT Switch Earbud style receiver. Requires audio adapter BDN6676D.
NMN1020A Lightweight Headset with Boom Microphone. Can be worn with helmet or safety glasses. Includes adapter cable NKN6498A. Requires audio adapter BDN6676D.
NKN6498A Headset Adapter Cable. For use with NMN1020A
BDN6676D 3.5mm Jack Adapter with Quick Disconnect Latch
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 RKN4095A required. Hardhat not included.

RMN4095A Adapter Cable with In-Line Push-to-Talk. For use with RMN4051B/RMN4052A/RMN4053A.

Replacement Earseals
RLN4923B Replacement Earseals for RMN4051B/RMN4052A/RMN4053A 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 RKN4095A required. Hardhat not included.

RMN4094A Adapter Cable with In-Line Push-to-Talk. For use with RMN4051B.
RMN4095A In-Line PTT Adapter Cable. For use with RMN4051B/RMN4052A/RMN4053A.

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.

NUN6258A* Medium Weight, Dual-Muff, Over-the-Head Style Headset with In-line PTT Noise reduction rating = 24dB.
NUN6259A* 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 BDN6673B, sold separately.

BDN6645A* Push-to-Talk Headset with Boom Microphone Requires adapter cable BDN6673B. Noise reduction rating = 24dB.
BDN6635B Voice-Activated (VOX) Headset with Boom Microphone Requires adapter cable BDN6673B. Noise reduction rating = 24dB.
BDN6636B* Voice-Activated (VOX) Headset with Throat Microphone Requires adapter cable BDN6673B. Noise reduction rating = 24dB.
BDN6673B* Radio Adapter Cable

*Intrinsically Safe
You’d be surprised how much time can be saved in emergencies when each user’s radio is always in the same place — made easy by this versatile case selection of Motorola Original® carry accessories.

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, full nuckle 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

| Leather Carry Case with Belt Loop, D-rings and T-strap | NTN8387A  |
| High-Activity Swivel Leather Case | NTN8385B  |
| Features 2.5 inch swivel belt loop, D-rings and T-strap. | NTN8386B  |
| High-Activity Swivel Leather Case | NTN8725A  |
| Features 3 inch swivel belt loop, D-rings and T-strap. | NTN8725B  |

MODEL II & III RADIOS ONLY

| Leather Case with Belt Loop, D-rings and T-strap | NTN8382B  |
| High-Activity Swivel Leather Case | NTN8380C  |
| Features 2.5 inch swivel belt loop, D-rings and T-strap. | NTN8381C  |
| High-Activity Swivel Leather Case | NTN8725A  |
| Features 3 inch swivel belt loop, D-rings and T-strap. | NTN8724A  |

Carrying Accessories

T-STRAPS

| NTN8383A  | Leather T-strap, Plain Action Snap |
| NTN8384A  | Leather T-strap, Hard Action Snap |

Provides additional strength at the snap.

HIGH-ACTIVITY BELT LOOPS

| NTN8381B  | 2.5 inch Leather Swivel Belt Loop |
| NTN8384B  | 3 inch Leather Swivel Belt Loop |

BELT CLIPS

| NTN8386B  | Standard Removable 2.25 inch Belt Clip Attachment |
| NTN8460A  | Public Safety 3 inch Belt Clip Attachment |

CARRYING STRAP

| NTN8243A  | 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.

- HLN6602A Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
- 1505592B02 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.

- 1505592B02 Replacement Strap for HLN6602A/RLN4570A

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
- 4088584B09 RadioPAk Extension Belt
For waists larger than 40 inches.

Waterproof Bag
HLN985B 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.

- TDN9327A Portable Radio Hanger for door panels up to 2.75 inches
- TDN9372A Portable Radio Hanger for door panels 2.75 to 3.25 inches
Batteries

**PREMIUM NICKEL CADMIUM - NiCd**
- NTN8294BR NiCd, 1525 mAh 7.5 Volt
- NTN8295AR NiCd, 1525 mAh 7.5 Volt. Intrinsically Safe.
- NTN8297AR NiCd, 1525 mAh 7.5 Volt. Intrinsically Safe, Ruggedized.

**PREMIUM NICKEL METAL HYDRIDE - NiMH**
- NTN8299BR NiMH, 1700 mAh 7.5 Volt. Intrinsically Safe.
- NTN8923AR NiMH, 1800 mAh 7.5 Volt
- RNN4006B NiMH, 2500 mAh 7.5 Volt
- RNN4007AR NiMH, 2500 mAh 7.5 Volt. Intrinsically Safe.

**PREMIUM LITHIUM ION BATTERIES - Li-ion**
- NTN9862B Li-ion, 2750 mAh 7.2 Volt

**PREMIUM ALKALINE BATTERY SHELLS**
- NTN9177A Disposable Battery Shell–Black
- NTN9183A Disposable Battery Shell–Orange
  Twelve AA Alkaline batteries required, sold separately.

**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.

- HNN9031B NiCd, 1525 mAh 7.5 Volt
- HNN9032B NiCd, 1525 mAh 7.5 Volt. Intrinsically Safe.
- HNTN4435B NiMH, 1800 mAh 7.5 Volt
- HNTN4436B NiMH, 1700 mAh 7.5 Volt. Intrinsically Safe.
- HNTN4437B NiMH, 1700 mAh 7.5 Volt. Intrinsically Safe, Ruggedized.
- NTN8662B Li-ion, 2750 mAh 7.2 Volt

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.

**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.

- HNN9031B NiCd, 1525 mAh 7.5 Volt
- HNN9032B NiCd, 1525 mAh 7.5 Volt. Intrinsically Safe.
- HNTN4435B NiMH, 1800 mAh 7.5 Volt
- HNTN4436B NiMH, 1700 mAh 7.5 Volt. Intrinsically Safe.
- HNTN4437B NiMH, 1700 mAh 7.5 Volt. Intrinsically Safe, Ruggedized.
- NTN8662B Li-ion, 2750 mAh 7.2 Volt

**PREMIUM NICKEL CADMIUM - NiCd**
- NTN8294BR NiCd, 1525 mAh 7.5 Volt
- NTN8295AR NiCd, 1525 mAh 7.5 Volt. Intrinsically Safe.
- NTN8297AR NiCd, 1525 mAh 7.5 Volt. Intrinsically Safe, Ruggedized.

**PREMIUM NICKEL METAL HYDRIDE - NiMH**
- NTN8299BR NiMH, 1700 mAh 7.5 Volt. Intrinsically Safe.
- NTN8923AR NiMH, 1800 mAh 7.5 Volt
- RNN4006B NiMH, 2500 mAh 7.5 Volt
- RNN4007AR NiMH, 2500 mAh 7.5 Volt. Intrinsically Safe.

**PREMIUM LITHIUM ION BATTERIES - Li-ion**
- NTN8610BR Li-ion, 1650 mAh 7.2 Volt. Slim.

**PREMIUM ALKALINE BATTERY SHELLS**
- NTN9177A Disposable Battery Shell–Black
- NTN9183A Disposable Battery Shell–Orange
  Twelve AA Alkaline batteries required, sold separately.

**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.

- HNN9031B NiCd, 1525 mAh 7.5 Volt
- HNN9032B NiCd, 1525 mAh 7.5 Volt. Intrinsically Safe.
- HNTN4435B NiMH, 1800 mAh 7.5 Volt
- HNTN4436B NiMH, 1700 mAh 7.5 Volt. Intrinsically Safe.
- HNTN4437B NiMH, 1700 mAh 7.5 Volt. Intrinsically Safe, Ruggedized.
- NTN8662B Li-ion, 2750 mAh 7.2 Volt

**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.
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.

- NTN1667A Universal Charger, 110 Volt, US Plug
- NTN1668B Universal Charger, 220 Volt, Euro Plug
- RPX4748B 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.

- WPLN4086CR Charger Kit, 110 Volt AC. Includes single-unit base and 7 Volt adapter plate.
- WPLN4087CR Charger Kit, 220 Volt AC. Includes single-unit base and 7 Volt adapter plate.
- WPPN4002BR 110 Volt AC Single-Unit Base Charger Only
- Adapter plates sold separately.
- WPPN4006AR 220 Volt AC Single-Unit Base Charger Only
- Adapter plates sold separately.
- WPPN4071SR 7 Volt Adapter Plate
- WPPN4076BR 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

- RLN4814A Vehicular Mounting Bracket and Hard Wire Cable
  For Single-Unit Motorola Conditioning Chargers. Includes DC Hard Wire Cable 3080384M21
  3080384A21 DC Hard Wire Cable with 3 A In-line fuse.

Vehicular Power Adapter

- 3080384G15 Vehicular Power Adapter
**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**

WPLN4111AR IMPRES Single-Unit Charger, 110 Volt, US Plug
WPLN4112AR IMPRES Single-Unit Charger, 220 Volt, Euro Plug
WPLN4113AR IMPRES Single-Unit Charger, 240 Volt, UK Plug

5889254E01 Battery Adapter. Required for NTN4538DR, NTN4593DR, NTN7014BR and NTN8818A batteries.

**IMPRES™ Multi-Unit Chargers**

WPLN4108BR IMPRES Multi-Unit Charger, 110 Volt, US Plug
WPLN4109BR IMPRES Multi-Unit Charger, 220 Volt, Euro Plug
WPLN4110BR IMPRES Multi-Unit Charger, 240 Volt, UK Plug

4385922B01 Battery Adapter. Required for NTN4538DR, NTN4593DR, NTN7014BR and NTN8818A batteries.

**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.

WPLN4130A IMPRES Multi-Unit Charger with Display Modules, 110 Volt, US Plug
WPLN4131A IMPRES Multi-Unit Charger with Display Modules, 220 Volt, Euro Plug
WPLN4132A IMPRES Multi-Unit Charger with Display Modules, 240 Volt, UK Plug

4385922B01 Battery Adapter. Required for NTN4538DR, NTN4593DR, NTN7014BR and NTN8818A batteries.

**IMPRES™ Individual Charger Display Module**

This module is compatible with the standard IMPRES™ Multi-Unit Charger WPLN4108BR, WPLN4109BR and WPLN4110BR. Up to 6 modules can be used per charger, one for each charging pocket. Includes detailed installation instructions.

RLN5382A 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
essential power systems...

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).

WPLN4079BR 6-Station BMSPLUS, 110 Volt AC, 50/60 Hz, US Plug
WPLN4080BR 6-Station BMSPLUS, 230 Volt AC, 50/60 Hz, Euro Plug
WPLN4081BR 6-Station BMSPLUS, 230 Volt AC, 50/60 Hz, UK Plug
WPPN4085AR BMSPLUS Li-ion Field Upgrade Kit. Upgrades WPLN4079AR, WPLN4080AR, WPLN4081AR

Allows units to support Li-ion batteries.

NDN4005B 3-Station BMS, 110 Volt AC, 50/60 Hz. Does not support Li-ion or 3-cell batteries.
NDN4006B 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

WPN4019AR Adapter. Compatible with NiCd batteries only.
WPN4022AR Adapter. Compatible with both NiCd and NiMH batteries.
WPN4086AR 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.

WPLN4124AR BOS II, 4-Station, 90-264 Volt AC, US Plug. Adapter Plates Required.
WPLN4125AR 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, XTS 3500, XTS 5000 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 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.

RLN4884B Vehicular Travel Charger
RLN5914A Universal Mounting Bracket for RLN4884B. 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, XTS 3500 and XTS 5000. 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.

NTN9176C Vehicular Charger
Vehicular Adapters
Allow users to adapt XTS 3000, XTS 3500 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 HSN1000B – 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 NTN8327A are required.

Vehicular Adapters
- NTN8561F XTS Vehicular Adapter: Closed Face with Limited Keypad Access, Mini-UHF.
- NTN8560F XTS Vehicular Adapter: Open Face with Limited Keypad Access, Mini-UHF.
- NTN1607F XTS Vehicular Adapter: Closed Face, BNC.
- NTN1606F XTS Vehicular Adapter: Open Face with Limited Keypad Access, BNC.

Adapter Kits for Accessories
- NTN8941A XTVA Data Cable Kit. Required for additional accessories, sold separately.
- NTN8943A XTVA Accessory Adapter Kit. Required for additional accessories, sold separately.

Required Accessories for Vehicular Adapters
- NTN8400B Trunnion. Required for operation.
- 6685987A01 Tool Wrench for RF Switch. Required for operation.
- NTN8327A RF Adapter. Required for operation.

Optional Accessories for Vehicular Adapters
- HNN4069E Standard White Palm Microphone
- PNN7737B Hand Held Control Head
- HSN1000B External Speaker, Amplified, 6-Watt
- HN18300B Emergency Foot Switch
- SLN7290A Emergency Push Button
- NNN4055A MTVA PA/Speaker Cable

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.
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, 806-889 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.

- 8506518V01 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 non-obtrusive. 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.
high performance in a small size...

ASTRO® Digital XTS 1500™/2500™, MT 1500™ and PR1500 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.”
NMN6191C Noise-Cancelling Remote Speaker Microphone is the perfect choice when you must be heard the first time.


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.

microphones and accessories

The Remote Speaker Microphone with Emergency Button has an earphone jack located on the microphone head that allows the user to receive discrete audio when used with the following earpieces: AARLN4885B, AARLN4885B, and WADN4190B.
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.
NMN6193C* Remote Speaker Microphone
NMN6191C* Noise-Canceling 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.
RMN5038A* 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.
RMN5072A* Public Safety Microphone with 30 Inch Straight Cord
RMN5073A* Public Safety Microphone with 24 Inch Straight Cord
RMN5074A* 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 RMN5038A and Public Safety Microphones RMN5072A, RMN5073A and RMN5074A.
RNU441A Receive-Only Earpiece with Translucent Tube and Rubber Eartip
AARL1486B Receive-Only Covered Earbud
WADN4190B 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.
RNU4294A Epaulet Strap, Velcro
RNU4295A Epaulet Strap, with Clip

*Intrinsically Safe
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 BDN6676D that attaches to the radio, unless being used with speaker microphone.

1-WIRE SURVEILLANCE KITS

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 ear tip and clear, comfortable acoustic tube. Users hear transmissions clearly, while the clear tube provides a discreet appearance.
RLN5314A Receive-Only Comfort Earpiece. Beige.
RLN5313A Receive-Only Comfort Earpiece. Black.
RLN5311A Earpiece w/Microphone and PTT Combined (2-Wire). Beige.
RLN5312A 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.
NTN8370A Extreme Noise Kit. Includes 2 foam earplugs. For high-noise environments. Noise reduction =24dB. Can be used with Clear Comfortable Earpieces, sold separately.
NTN8371A Low Noise Kit - Clear Acoustic Tube Assembly. Includes 1 rubber ear tip. For low noise environments, does not provide hearing protection.
5080369E39† Extra Loud Earphone. Beige.
5080370E91† Extra Loud Earphone. Black.

SURVEILLANCE REPLACEMENT ACCESSORIES
BDN6676D* 3.5mm Jack Adapter with Quick Disconnect Latch
5080384F72 Replacement Foam Plugs. Pack of 50
For use with NTN8370A. Noise reduction rating = 24dB.
For use with NTN8371A.

Clear Comfortable Earpieces
The Clear Comfortable Earpiece fits to the inside of the ear and is perfect for low noise environments. It’s made of easy-to-clean, chemically inert hypo-allergenic material. Compatible with NTN8371A and all Surveillance Kits.
RLN4760A Small Custom Earpiece - Right Ear
RLN4761A Medium Custom Earpiece - Right Ear
RLN4762A Large Custom Earpiece - Right Ear
RLN4763A Small Custom Earpiece - Left Ear
RLN4764A Medium Custom Earpiece - Left Ear
RLN4765A Large Custom Earpiece - Left Ear

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

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

RLN4922A Completely Discreet Earpiece Kit
RLN4919A Replacement Earguards, 5 per pack.
RLN4905A 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.

BDN6677A° EMS with PTT Interface. Black. For standard noise levels (up to 95dB).
BDN6679A° EMS with PTT Interface. Beige. For standard noise levels (up to 95dB).
BDN6681A° EMS with PTT Interface. Grey. For high-noise levels (up to 105dB).
BDN6708B° Push-to-Talk Only Interface Module
BDN6671B° 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.
0180300E83° Remote Push-to-Talk Body Switch.
0180358B34 Earholder. Black, size large. Secure Ear Microphone in ear.
4280369E44 Replacement Belt Clip with Screws
0180305J46 Training CD-ROM

For Ear Microphone System and Temple Transducer.

°Intrinsically Safe
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.

- **NTN1634A** Integrated Ear Microphone/Receiver System with Palm PTT Includes 3.5mm adapter BDN6676D.
- **NTN1625A** Integrated Ear Microphone/Receiver System with PTT on Radio Adapter Includes 3.5mm adapter BDN6676D.
- **NTN1663A** Integrated Ear Microphone/Receiver System with Ring PTT Includes 3.5mm adapter BDN6676D.
- **NTN1736A** Integrated Ear Microphone/Receiver System with Snap-On-Side PTT Includes 3.5mm adapter BDN6676D.
- **NNTN4186A** Integrated Ear Microphone/Receiver System with Body PTT Includes 3.5mm adapter BDN6676D.

**Optional Accessories for CommPort**
- **NKN6510A** Replacement Palm PTT Cable for NTN1624A
- **NKN6512A** Replacement Ring PTT Cable for NTN1663A
- **NKN6525A** Replacement Snap-On-Side PTT Cable for NTN1736A
- **NNTN4188A** Replacement Remote PTT on Body Switch for NNTN4186A
- **NKN6508A** Replacement Cable for NTN1625A
- **NTN8819B** Ear Microphone Assembly
- **NKN6568A** Replacement Cable for NTN1625A
- **NTN8821A** CommPort Maintenance Kit Includes 10 replacement ear tubes, 10 microphone seal strips and 2 windscreens.
- **NTN8986A** Adhesive Pads. For secure attachment to ear. Pack of 90.
- **NTN8988A** Ear Straps. For secure attachment to ear. Pack of 10.
- **4295588B01** Replacement Collar Clip
- **4220006A01** Replacement Back Cover Clip
- **BDN6676B** 3.5 mm Jack Adapter with Quick Disconnect Latch

*Irrinically Safe*
mission critical essentials...

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

- BDN6780A: Earbud with Microphone and Push-to-Talk
  Requires adapter BDN6676D.
- BDN6781A: Earbud, receive-only. Requires BDN6676D adapter unless being used with a speaker or microphone.
- 7580372E70: Replacement Foam Cushion for Pellet Earpieces
- BDN6676D: 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.

- RMN4049A*: 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.

- RMN5049A*: Rugged Temple Transducer

*Intrinsically Safe
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

RMN5015A 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.

RMN5015A  Racing Headset with Noise-Cancelling Swivel Boom Microphone Behind-the-Head style.
Noise reduction rating = 24dB.

BGN673DB  Adapter Cable for RMN5015A
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 earseals are filled with liquid and foam combination to provide excellent sealing and comfort. Requires RKN4095A In-line PTT adapter cable. Hardhat not included.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMN4092A</td>
<td>Tactical Headband Style Headset, Grey, Noise Reduction Rating = 24dB.</td>
<td>Requires RKN4095A Adapter Cable</td>
</tr>
<tr>
<td>RMN4093A</td>
<td>Tactical Hardhat Mount Headset, Grey, Noise Reduction Rating = 22dB.</td>
<td>Requires RKN4095A Adapter Cable.</td>
</tr>
<tr>
<td>RKN4095A</td>
<td>In-Line PTT Adapter Cable</td>
<td>For use with RMN4091B, RMN4092A and RMN4093A headsets.</td>
</tr>
</tbody>
</table>

**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 earseals are filled with liquid and foam combination to provide excellent sealing and comfort. 3-foot coiled cord assembly. Requires RKN4095A In-line PTT Adapter Cable. Hardhat not included.

<table>
<thead>
<tr>
<th>Model</th>
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<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMN4091B</td>
<td>Two-way Hardhat mount Headset, Black.</td>
<td></td>
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</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Model</th>
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<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMN6258A</td>
<td>Medium Weight Headset, Over-the-Head Style with In-line PTT. Noise reduction rating = 24dB.</td>
<td></td>
</tr>
<tr>
<td>NMN6259A</td>
<td>Medium Weight Headset, Behind-the-Head Style with In-line PTT. Noise reduction rating = 24dB.</td>
<td></td>
</tr>
</tbody>
</table>

**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 BDN6640A required, sold separately.

<table>
<thead>
<tr>
<th>Model</th>
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<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDN66454A*</td>
<td>Push-to-Talk Headset with Boom Microphone</td>
<td>Requires adapter cable EDN66454A. Noise reduction rating = 24dB.</td>
</tr>
<tr>
<td>EDN6631B*</td>
<td>Voice-Activated (VOX) Headset with Boom Microphone</td>
<td>Requires adapter cable EDN66454A. Noise reduction rating = 24dB.</td>
</tr>
<tr>
<td>EDN6633B*</td>
<td>Voice-Activated (VOX) Headset with Throat Microphone</td>
<td>Requires adapter cable EDN66454A. Noise reduction rating = 24dB.</td>
</tr>
<tr>
<td>EDN6673B*</td>
<td>Radio Adapter Cable</td>
<td></td>
</tr>
</tbody>
</table>

*Intrinsically Safe
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. Momenia 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.

**NNTN4115A** Leather Case with High-Activity Swivel Features 3 inch swivel belt loop, D-rings and T-strap.

**NNTN4116A** Leather Case with High-Activity Swivel Features 2.5 inch swivel belt loop, D-rings and T-strap.

**NNTN4117A** Leather Case with Belt Loop Features 3 inch belt loop, D-rings and T-strap.

Nylon Carrying Case
NNTN7247A Nylon Case with Snap Belt Loop and T-strap

Carrying Accessories

<table>
<thead>
<tr>
<th>T-STRAPS</th>
<th>High-Activity Belt Loops</th>
<th>Belt Clips</th>
<th>CARRYING STRAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>NNTN8363A</td>
<td>Leather T-strap, Plain Action Snap</td>
<td>Leather Swivel Belt Loop, 2.5 inches.</td>
<td>Adjustable, Black Nylon Carrying Strap</td>
</tr>
</tbody>
</table>
| NNTN8384A | Leather T-strap, Hard Action Snap | Leather Swivel Belt Loop, 3 inches. | Attaches to D-ring on case.
| NNTN8039B | Leather Swivel Belt Loop. 2.5 inches. | 2.25 inch Spring Action Belt Clip | |
| NNTN8040B | Leather Swivel Belt Loop. 3 inches. | 2 Inch Removable Belt Clip Attachment | |
| HLN8853A | 2.25 Inch Spring Action Belt Clip | | |
| HLN8844A | 2 Inch Removable Belt Clip Attachment | | |

You’d be surprised how much time can be saved in emergencies when each user’s radio is always in the same place — made easy by this versatile case selection of Motorola Original® carry accessories.
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.

- **HLN6602A** Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
- **150598202** 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
- **150598202** Replacement Strap for HLN6602A/RLN4570A

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
- **428389499** RadioPAk Extension Belt

Waterproof Bag
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.

- **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 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**

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity (mAh)</th>
<th>Voltage (Volt)</th>
<th>Intrinsically Safe</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTN9815B</td>
<td>1525</td>
<td>7.5</td>
<td>Yes</td>
</tr>
<tr>
<td>NTN9816B</td>
<td>1525</td>
<td>7.5</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**IMPRES™ NiMH Batteries**

IMPRESSION 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>Model</th>
<th>Capacity (mAh)</th>
<th>Voltage (Volt)</th>
<th>Intrinsically Safe</th>
<th>Ruggedized</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTN9858C</td>
<td>1850</td>
<td>7.5</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>NTN9857C</td>
<td>1700</td>
<td>7.5</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>NTN9826A</td>
<td>1700</td>
<td>7.5</td>
<td>Yes, Ruggedized</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>Model</th>
<th>Voltage (Volt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTN1687A</td>
<td>110</td>
</tr>
<tr>
<td>NTN1688A</td>
<td>220</td>
</tr>
<tr>
<td>NTN1689A</td>
<td>240</td>
</tr>
</tbody>
</table>
**Motorola Conditioning Charger (MCC)**

The MCC features Instant Fault Detection technology that detects faulty batteries in seconds. You'll know right away when a battery won't operate at peak performance - saving you time and trouble. Each unit rapidly charges NiCd and NiMH batteries and optimizes battery performance. Its patented, negative pulse charging process minimizes overheating and overcharging, extending useful battery life. Batteries can be left on the charger for extended periods of time, without worry of heat build-up. Optional accessories are available that allow the MCC to be used in both AC and DC environments - that's flexibility.

- **WPN4002BR** Base Charge Unit, 110 Volt AC. Adapter plates sold separately.
- **WPN4168A** MCC Kit, 110 Volt AC. Includes single-unit base and adapter plate.
- **WPN4098A** Adapter plate only.
- **WPN4085A** 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 cord.

- **RLN4884B** Vehicular Travel Charger
- **RLN4891A** Universal Mounting Bracket for RLN4884B. 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.

- **NTN9176C** Vehicular Charger

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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>
<th>Voltage</th>
<th>Plug Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>WPLN4112AR</td>
<td>IMPRES Single-Unit Charger, 220 Volt, Euro Plug</td>
<td>220 Volt</td>
<td>Euro Plug</td>
</tr>
<tr>
<td>WPLN4113AR</td>
<td>IMPRES Single-Unit Charger, 240 Volt, UK Plug</td>
<td>240 Volt</td>
<td>UK Plug</td>
</tr>
</tbody>
</table>

Battery Adapter: Required for NTN4538DR, NTN4593DR, NTN7014BR and NTN8818A batteries.

IMPRES™ Multi-Unit Chargers

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Voltage</th>
<th>Plug Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>WPLN4108BR</td>
<td>IMPRES Multi-Unit Charger, 110 Volt, US Plug</td>
<td>110 Volt</td>
<td>US Plug</td>
</tr>
<tr>
<td>WPLN4109BR</td>
<td>IMPRES Multi-Unit Charger, 220 Volt, Euro Plug</td>
<td>220 Volt</td>
<td>Euro Plug</td>
</tr>
<tr>
<td>WPLN4110BR</td>
<td>IMPRES Multi-Unit Charger, 240 Volt, UK Plug</td>
<td>240 Volt</td>
<td>UK Plug</td>
</tr>
</tbody>
</table>

Battery Adapter: Required for NTN4538DR, NTN4593DR, NTN7014BR and NTN8818A batteries.

NLN7967A 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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Voltage</th>
<th>Plug Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>WPLN4130A</td>
<td>IMPRES Multi-Unit Charger with Display Modules, 110 Volt, US Plug</td>
<td>110 Volt</td>
<td>US Plug</td>
</tr>
<tr>
<td>WPLN4131A</td>
<td>IMPRES Multi-Unit Charger with Display Modules, 220 Volt, Euro Plug</td>
<td>220 Volt</td>
<td>Euro Plug</td>
</tr>
<tr>
<td>WPLN4132A</td>
<td>IMPRES Multi-Unit Charger with Display Modules, 240 Volt, UK Plug</td>
<td>240 Volt</td>
<td>UK Plug</td>
</tr>
</tbody>
</table>

Battery Adapter: Required for NTN4538DR, NTN4593DR, NTN7014BR and NTN8818A batteries.

NLN7967A Wall Mount for Multi-Unit Charger

IMPRES™ Individual Charger Display Module

This module is compatible with the standard IMPRES™ Multi-Unit Charger WPLN4108BR, WPLN4109BR and WPLN4110BR. Up to 6 modules can be used per charger, one for each charging pocket. Includes detailed installation instructions.

RLN5382A 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.

0190305J70 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).

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>插头类型</th>
</tr>
</thead>
<tbody>
<tr>
<td>WPLN4079BR</td>
<td>110 Volt AC, 50/60 Hz</td>
<td>US Plug</td>
</tr>
<tr>
<td>WPLN4080BR</td>
<td>230 Volt AC, 50/60 Hz</td>
<td>Euro Plug</td>
</tr>
<tr>
<td>WPLN4081BR</td>
<td>230 Volt AC, 50/60 Hz</td>
<td>UK Plug</td>
</tr>
<tr>
<td>WPPN4080BR</td>
<td>6-Station BMSPLUS Li-ion, 6-station unit</td>
<td></td>
</tr>
<tr>
<td>NDN4005B</td>
<td>110 Volt AC, 50/60 Hz</td>
<td>No support Li-ion or 3-cell batteries</td>
</tr>
<tr>
<td>NDN4006B</td>
<td>230 Volt AC, 50/60 Hz</td>
<td>No support Li-ion or 3-cell batteries</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

WPPN4097AR 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 extend battery life, helping reduce battery replacement costs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>插头类型</th>
</tr>
</thead>
<tbody>
<tr>
<td>WPLN4124AR</td>
<td>90-264 Volt AC</td>
<td>US Plug</td>
</tr>
<tr>
<td>WPLN4125AR</td>
<td>90-264 Volt AC</td>
<td>Euro/UK Plug</td>
</tr>
<tr>
<td>RL76341 Standard Battery Adapter</td>
<td>For use with XTS 2500 radios</td>
<td></td>
</tr>
</tbody>
</table>

- 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

Helixflex 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.

- NAE6549AR 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 non-obtrusive. 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
- NAE8546AR 3 Inch Helical Antenna, 403-435 MHz
- NAE8547AR 3 Inch Helical Antenna, 435-470 MHz
- NAE6546AR 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.

ASTRO® XTL 1500/2500/5000 05 mobiles
high performance, quality, reliability and interoperability in daily communications...

ASTRO® XTL™ 1500, 2500 and 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

- **HMN4079C**: Keypad Microphone
- **HMN1090A**: Standard Palm Microphone
- **HMN1087A**: Gooseneck Push-to-Talk
  - Attaches to vehicle steering column.
  - For use with Visor Microphone.
- **HMN4089A**: Visor Microphone, Remote Mount
- **HMN1088A**: Modified GCAI Palm Microphone
  - Water-resistant.
- **HKN1017A**: Handset with Hang Up Cup with Coiled Cable. Includes cradle.
- **HKN1018A**: Hang Up Handset with Normal Armoured Cable
- **HLN1457A**: Handset with Hang Up Cup

**External Speaker**

Provides audio for high ambient noise environments.

- **HSN4038A**: External 7.5 Watt Speaker

**Motorcycle Speaker**

- **HSM6003B**: Motorcycle Speaker
  - Weather-resistant.

**Trunnion Kits**

- **HKN1818A**: Control Head Remote Mount Trunnion Kit
- **HLN6803A**: Quick Release, High Power Trunnion Kit
- **HLN6910A**: High Power Trunnion Kit
  - For XTL 5000 05 only.
- **HLN6861A**: Standard Installation Trunnion Kit
Control Station Accessories

- **HMN1088A** Desk Microphone
- **HLN6042A** Desk Tray with Speaker
- **HLN6925A** Control Station Mount
- **HPN4007A** Power Supply, 25-60 Watt Rated.

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.

- **HLN5113B** Emergency Foot Switch
- **HLN5131C** Emergency Push Button
- **GLN7271B** Foot Switch Push-to-Talk

Miscellaneous Hardware

- **HLN6372A** Key Lock Mount

The Emergency Foot Switch HLN5113B enables the user to send an emergency message to a desktop console.
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
- HKN4191B 10-Foot Power Cable
- HKN4192B 20-Foot Power Cable
- HKN6132A Motorcycle Power Cable
- HKN6110B 100-Watt Power Cable

Remote Mount Cables
- HKN6164A 131-Foot Remote Mount Cable — 40 meters
- HKN6165A 115-Foot Remote Mount Cable — 35 meters
- HKN6166A 75-Foot Remote Mount Cable — 23 meters
- HKN6167A 50-Foot Remote Mount Cable — 15 meters
- HKN6168A 30-Foot Remote Mount Cable — 10 meters
- HKN6169A 17-Foot Remote Mount Cable — 5 meters
- HKN6170A 10-Foot Remote Mount Cable — 3 meters

Remote Mount Kits
- HKN6181A 20-Foot Dash Mount Data Cable Kit - IV&D
- HKN6180A 6-Foot Dash Mount Data Cable Kit - H&D

Miscellaneous Cables
- GKN6271A Ignition Sense Cable
- HKN6182A Cable Keyloading-Adapter - GCAI
<table>
<thead>
<tr>
<th>Antennas</th>
<th>VHF</th>
<th>UHF</th>
<th>700/800 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAD4006A</td>
<td>136-144 MHz 1/4 Wave Roof Mount Antenna</td>
<td>HAE4003A</td>
<td>450-470 MHz 1/4 Wave Roof Mount Antenna</td>
</tr>
<tr>
<td>HAD4007A</td>
<td>144-152 MHz 1/4 Wave Roof Mount Antenna</td>
<td>HAE4004A</td>
<td>470-512 MHz 1/4 Wave Roof Mount Antenna</td>
</tr>
<tr>
<td>HAD4008A</td>
<td>146-174 MHz 1/4 Wave Roof Mount Antenna</td>
<td>HAE4011A</td>
<td>450-490 MHz 3.0dB Gain Roof Mount Antenna</td>
</tr>
<tr>
<td>HAD4009A</td>
<td>152-162 MHz 1/4 Wave Roof Mount Antenna</td>
<td>HAE4012A</td>
<td>450-470 MHz 3.0dB Gain Roof Mount Antenna</td>
</tr>
<tr>
<td>HAD4011A</td>
<td>152-162 MHz 3.5dB Gain Roof Mount Antenna</td>
<td>HAE4014A</td>
<td>450-470 MHz 3.0dB Gain Roof Mount Antenna</td>
</tr>
<tr>
<td>HAD4012A</td>
<td>162-174 MHz 1/4 Wave Roof Mount Antenna</td>
<td>RAE4014A</td>
<td>450-470 MHz 5.0dB Gain Roof Mount Antenna</td>
</tr>
<tr>
<td>HAD4017A</td>
<td>164-174 MHz 1/4 Wave Roof Mount Antenna</td>
<td>RAE4016ARB</td>
<td>494-512 MHz 5.0dB Gain Roof Mount Antenna</td>
</tr>
<tr>
<td>RAE4010ARB</td>
<td>146-174 MHz 3.0dB Wave Roof Mount Antenna</td>
<td>RAE6014ARB</td>
<td>450-470 MHz 5.0dB Gain Roof Mount Antenna</td>
</tr>
<tr>
<td>HAE6010A</td>
<td>380-433 MHz 3.0dB Gain Roof Mount Antenna</td>
<td>HAF4013A</td>
<td>762-870 MHz 3.0dB Gain Low-Profile Antenna</td>
</tr>
<tr>
<td>HAE6011A</td>
<td>380-433 MHz 5.0dB Gain Roof Mount Antenna</td>
<td>HAF4014A</td>
<td>762-870 MHz 3.0dB Gain Elevated Feed Antenna</td>
</tr>
<tr>
<td>HAE6012A</td>
<td>380-433 MHz 3.0dB Gain Roof Mount Antenna</td>
<td>HAF4016A</td>
<td>762-870 MHz 1/4 Wave Roof Mount Antenna</td>
</tr>
<tr>
<td>HAE6013A</td>
<td>380-470 MHz Wideband 2.5dB Roof Mount Antenna</td>
<td>HAF4017A</td>
<td>762-870 MHz 3.0dB Gain Collinear Roof Mount Antenna</td>
</tr>
</tbody>
</table>