MOTOROLA

# *Motorola*
# *Two-Way Portable and Mobile Radio*
## Accessory and Battery Catalog

**PORTABLE RADIOS**
ASTRO® 25
MT™ 1500
PR1500

**MOBILE RADIOS**
ASTRO® 25
PM1500™

# Motorola Quality...

## *exceptional dependability*

You already depend on Motorola two-way radios for mission critical communications.

Now rely on Motorola Original® accessories to provide custom radio solutions.

You likely chose your Motorola two-way radios for their ease of use and exceptional reliability — certainly a sound decision. Choosing Motorola Original® accessories for your radios 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 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 an inferior microphone, your radio may not perform at the moment you have to use it.

We offer a full collection of proven Motorola Original® accessories for your important and critical communication needs. You'll find remote speaker microphones for more convenient control. Carrying cases for ease when on the move. Earpieces to ensure privacy. Headsets for hands-free operation. High-capacity batteries to extend communication time, and more. They're all ready to help ensure you perform with greater authority and confidence.

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**Law Enforcement**

Motorola Original® accessories complement your existing radios and are perfectly suited to the demands of police work.

**Fire Departments**

Motorola Original® accessories that are customized to fire fighting needs can help provide freedom in the heat of action.

**EMS Personnel**

Emergency personnel require accessories for communicating exact position and immediate condition. Motorola Original® accessories deliver.

**Government Agencies**

From border patrols to military operations Motorola Original® accessories help ensure that your agency will get the mission accomplished.

*HMN4080A*

## GPS Remote Speaker Microphone

The Global Positioning System (GPS) Remote Speaker Microphone allows ASTRO Digital XTS 2500 and 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 Coverage may be limited in buildings, parking garages and areas with heavy tree coverage. Both models have a channel selector, programmable button, volume control and emergency button.

### ASTRO Digital XTS 2500/5000

| | |
|---|---|
| HMN4080A*† | GPS Remote Speaker Microphone, Submersible (Delta-T) |
| HMN4084A*† | GPS Remote Speaker Microphone with 3.5mm audio jack |

†For XTS 2500: Models I, 1.5, II, III and Ruggedized. XTS 2500 radios must have Tanapa version B hardware and a radio host code of R10.00.00.

For XTS 5000: Models I, II, III and Ruggedized. Radios must have a radio host code of R06.01.00 or later.

## Remote Speaker Microphones (RSM)

This Remote Speaker Microphone is water-resistant and has a 6-foot coiled cord assembly, 3.5mm audio jack on the head of the microphone, swivel clip and quick disconnect latch.

### ASTRO Digital XTS 3000/3500/5000/1500/2500, MT 1500 and PR1500

| | |
|---|---|
| PMMN4045A* | Noise-Cancelling Remote Speaker Microphone |
| 0104026J83 | Replacement Coil Cord Assembly for PMMN4045A |

*PMMN4038A*

## Windporting Remote Speaker Microphones (RSM)

These Remote Speaker Microphones have a 6-foot coiled cord assembly, swivel clip and quick disconnect latch.The windporting feature dramatically lessens background noise from high winds and other severe weather conditions. IP57 Submersible model tested at 1 meter for 30 minutes.

| | |
|---|---|
| PMMN4038A* | Windporting Remote Speaker Microphone, IP57 Submersible |
| PMMN4051A* | Windporting Remote Speaker Microphone with 3.5mm audio jack |
| 0104023J42 | Replacement Coil Cord Assembly for PMMN4038A |
| 0104028J67 | Replacement Coil Cord Assembly for PMMN4051A |

*RMN5066A*

## Remote Speaker Microphones – Commander™ II Series

The Commander II Remote Speaker Microphone features an emergency button, volume control, and 2 programmable buttons. These microphones feature windporting technology and are ideal for firefighters and police. Delta-T submersible model tested at 1 meter of water for 2 hours using a Remote Speaker Microphone at a temperature 27˚C hotter than the water.

### ASTRO Digital XTS 3000/5000

| | |
|---|---|
| RMN5066A* | Remote Speaker Microphone, Submersible (Delta-T) |
| RMN5067A* | Remote Speaker Microphone with 3.5mm audio jack |
| RMN5088A* | Remote Speaker Microphone with Channel Selector, Submersible (Delta-T) |
| RMN5089A* | Remote Speaker Microphone with Channel Selector and 3.5mm audio jack |

*RMN5089A*

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

*Intrinsically Safe

**MOTOROLA® ORIGINAL**

## 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 audio jack 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.

**ASTRO Digital XTS 3000/3500/5000/1500/2500, MT 1500 and PR1500**

| | |
|---|---|
| RMN5038A* | Remote Speaker Microphone with Emergency Button |

*RMN5038A*

## Remote Speaker Microphone Audio Accessories

The following earpieces are compatible with all Remote Speaker Microphones with a 3.5 mm audio jack on the head of the microphone.

**ASTRO Digital XTS 3000/3500/5000/1500/2500, MT 1500 and PR1500**

| | |
|---|---|
| RLN4941A* | Receive-Only Earpiece with Translucent Tube and Rubber Eartip |
| AARLN4885B* | Receive-Only Covered Earbud |
| WADN4190B* | Receive-Only Flexible Earpiece |
| PMLN4620A | Receive-Only D-Shell Earpiece |

*RLN4941A*

*AARLN4885B*

## Public Safety Microphones (PSM)

Public Safety Microphones include straight cord assembly, swivel clip, quick disconnect latch, high/low volume toggle switch and a 3.5mm audio jack. Use with radio's antenna, sold separately.

**ASTRO Digital XTS 3000/3500/5000**
**3.5mm threaded audio jack is located at the radio connector**

| | |
|---|---|
| NMN6247A* | UHF Public Safety Microphone with 30 inch Straight Cord. Require RF adapter. |
| NMN6250A* | UHF Public Safety Microphone with 24 inch Straight Cord. Require RF adapter. |
| NMN6251A* | UHF Public Safety Microphone with 18 inch Straight Cord. Require RF adapter. |
| NTN8327B* | RF Adapter. Required for use with all UHF Public Safety Microphones. |
| 6685046F01 | RF Adapter Tool |

**ASTRO Digital XTS 1500/2500, MT 1500 and PR1500**
**3.5mm non-threaded audio jack is located on the microphone head. Not for VHF use.**

| | |
|---|---|
| RMN5072A* | Public Safety Microphone with 30 inch Straight Cord. RF adapter included. |
| RMN5073A* | Public Safety Microphone with 24 inch Straight Cord. RF adapter included. |
| RMN5074A* | Public Safety Microphone with 18 inch Straight Cord. RF adapter included. |
| RLN5918A* | Replacement RF Adapter |

*WADN4190A*

*PMLN4620A*

*NMN6250A*

*RMN5073A*

## 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.

**ASTRO Digital XTS 3000/3500/5000/1500/2500, MT 1500 and PR1500**

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

*RLN4294A*

*RLN4295A*

*Intrinsically Safe

## Surveillance Kits

Surveillance accessories allow the user to receive messages privately through the earpiece – ideal when discreet communication is required. The following surveillance accessories require the 3.5mm threaded adapter jack BDN6676D that attaches to the radio, unless being used with XTS 3000/3500/5000 UHF Public Safety Microphones.
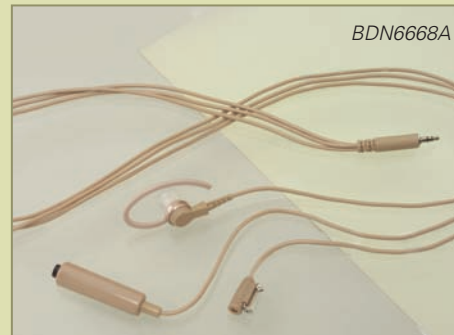
### 1-WIRE SURVEILLANCE KITS

| | |
|---|---|
| BDN6664A* | Receive-Only Earpiece with Standard Earphone (1-Wire), Beige |
| BDN6665A*† | Extra Loud 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 |
| BDN6666A* | Receive-Only Earpiece with Volume Control and Earloop (1-Wire), Beige<br>For XTS 1500/2500, MT 1500 and PR1500 only. |
| BDN6728A* | Receive-Only Earpiece with Volume Control and Earloop (1-Wire), Black<br>For XTS 1500/2500, MT 1500 and PR1500 only. |

*BDN6668A*

### 2-WIRE SURVEILLANCE KITS

| | |
|---|---|
| BDN6667A* | Earpiece with Microphone and Push-to-Talk Combined (2-Wire), Beige |
| BDN6669A*† | Extra Loud Earpiece with Microphone and Push-to-Talk Combined (2-Wire), Beige |
| BDN6729A* | Earpiece with Microphone and Push-to-Talk Combined (2-Wire), Black |
| BDN6731A*† | Extra Loud Earpiece with Microphone and Push-to-Talk Combined (2-Wire), Black |

### 3-WIRE SURVEILLANCE KITS

| | |
|---|---|
| BDN6668A* | Earpiece with Microphone and Push-to-Talk Separate (3-Wire), Beige |
| BDN6670A*† | Extra Loud Earpiece with Microphone and Push-to-Talk Separate (3-Wire), Beige |
| BDN6730A* | Earpiece with Microphone and Push-to-Talk Separate (3-Wire), Black |
| BDN6732A*† | Extra Loud Earpiece with Microphone and Push-to-Talk Separate (3-Wire), Black |

*RLN5312A*

## Surveillance Kits - With Extended-Wear Comfort Earpiece

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

| | |
|---|---|
| RLN5314A | Comfort Earpiece, Receive-Only, Beige |
| RLN5313A | Comfort Earpiece, Receive-Only, Black |
| RLN5311A | Earpiece with Microphone and PTT Combined (2-Wire), Beige |
| RLN5312A | Earpiece with Microphone and PTT Combined (2-Wire), Black |

## Quick Disconnect 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, which now includes a new quick disconnect adapter. The Quick Disconnect Adapter allows users, especially those in multiple shift operations, to easily remove or alternate acoustic tubes. 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.

*RLN6230A*

| | |
|---|---|
| RLN6230A | Extreme Noise Kit. Includes 2 foam earplugs. For high-noise environments.<br>Noise reduction = 24dB. Can be used with Clear Comfortable Earpieces, Black |
| RLN6231A | Extreme Noise Kit. Includes 2 foam earplugs. For high-noise environments.<br>Noise reduction = 24dB. Can be used with Clear Comfortable Earpieces, Beige |
| RLN6232A | Low Noise Kit - Clear Acoustic Tube Assembly. Includes 1 clear rubber eartip.<br>For low-noise environments, does not provide hearing protection, Black |
| RLN6241A | Low Noise Kit - Clear Acoustic Tube Assembly. Includes 1 clear rubber eartip.<br>For low-noise environments, does not provide hearing protection, Beige |
| 5080369E39† | Extra Loud Earphone, Beige |
| 5080370E91† | Extra Loud Earphone, Black |

*RLN6241A*

### REPLACEMENT ACCESSORIES

*BDN6676D*

| | |
|---|---|
| RLN6242A | Quick Disconnect Acoustic Tube Replacement |
| 5080384F72 | Replacement Foam Plugs. Noise reduction = 24dB. Pack of 50. For RLN6230A and RLN6231A. |
| 5080370E97 | Replacement Standard Clear Rubber Eartips. Pack of 25. For RLN6232A and RLN6241A. |
| BDN6676D | 3.5 mm Threaded adapter jack with Quick Disconnect Latch |

*Intrinsically Safe

†Extra Loud Earphone (exceeds OSHA limits)

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## 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.

| | |
|---|---|
| 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 |

*Clear Comfortable Earpieces*

## 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. Simply Remove the earpiece from any standard 2 or 3-Wire Surveillance Kit and plug in the neckloop, which is easily hidden under clothing.

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

*RLN4922A*

*Completely Discreet Earpiece*

## 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, Black. For standard noise levels (up to 95dB). |
| BDN6678A* | EMS, Beige. For standard noise levels p to 95dB). |
| BDN6641A* | EMS, Grey. For high-noise levels (up to 105dB). |
| BDN6708B* | Push-to-Talk Only Interface Module |
| BDN6671B* | Push-to-Talk and Voice-Activated Interface Module |

*BDN6677A and BDN6708A*

### OPTIONAL ACCESSORIES FOR THE EMS

| | |
|---|---|
| 0180300E25 | Earguard with Adjustable Loop |
| 0180358B38* | Remote Push-to-Talk Ring Switch |
| 0180300E83* | Remote Push-to-Talk Body Switch |
| 0180358B32 | Earholder. Black, size small. Secures Ear Microphone in ear. |
| 0180358B33 | Earholder. Black, size medium. Secures Ear Microphone in ear. |
| 0180358B34 | Earholder. Black, size large. Secures Ear Microphone in ear. |
| 0180358B35 | Earholder. Clear, size small. Secures Ear Microphone in ear. |
| 0180358B36 | Earholder. Clear, size medium. Secures Ear Microphone in ear. |
| 0180358B37 | Earholder. Clear, size large. Secures Ear Microphone in ear. |
| 4280369E44 | Replacement Belt Clip with Screws |
| 5080358B28 | Eartips. Black, size medium. Pack of 10. |
| 5080358B29 | Eartips. Black, size large. Pack of 10. |
| 5080358B30 | Eartips. Beige, size medium. Pack of 10. |
| 5080358B31 | Eartips. Beige, size large. Pack of 10. |
| 0180305J46 | Training CD-ROM. For Ear Microphone System and Temple Transducer. |

*0180300E83*

*0180300E25*

*Intrinsically Safe

NTN1624A


NTN1663A


NTN1736A


NNTN4186A

## 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 many applications.

| | |
|---|---|
| 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. |
| NNTN4186A* | Integrated Ear Microphone/Receiver System with Body PTT. Includes 3.5mm adapter BDN6676D. |

### OPTIONAL ACCESSORIES FOR COMMPORT
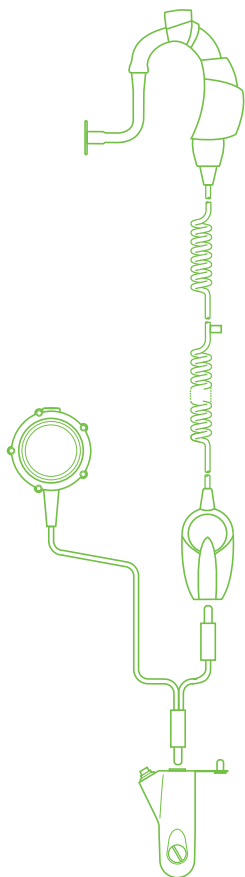
| | |
|---|---|
| NKN6510A | Replacement Palm PTT Cable for NTN1624A |
| NKN6512A | Replacement Ring PTT Cable for NTN1663A |
| NKN6525A | Replacement Snap-On-Side PTT Cable for NTN1736A |
| NNTN4188A | Replacement Remote PTT Body Switch for NNTN4186A |
| NKN6508A | Replacement Cable for NTN1625A |
| NTN8819B* | Ear Microphone Assembly |
| 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. |
| RLN5037A | Replacement Ear Tubes. Pack of 10. |
| 4285838B01 | Replacement Collar Clip |
| 4202006A01 | Replacement Back Cover Clip |
| BDN6676D | 3.5mm jack adapter with Quick Disconnect Latch |


NKN6525A


BDN6676D

*Intrinsically Safe

<br>

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### Bluetooth® Wireless Headset

Bluetooth Wireless technology takes the wires away so you're free to do more, from almost anywhere. Users can quickly and easily connect to the compatible Motorola Bluetooth headset. Bluetooth headset and adapter sold separately or as a kit. Not recommended for Mission Critical applications.

**ASTRO Digital XTS 5000/1500/2500 and PR1500**

| | |
|---|---|
| RLN6379A | Bluetooth Kit. Includes Bluetooth headset and adapter for radios. |
| 98682H | H300 Bluetooth Headset |
| RMN5104A | Bluetooth adapter for radios |


RLN6379A

### 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 audio jack on XTS 3000/3500/5000 UHF Public Safety Microphones.

| | |
|---|---|
| BDN6719A | Flexible Ear Receiver with 3.5mm Threaded Plug |
| BDN6676D | 3.5mm jack adapter with Quick Disconnect Latch |
| 7580372E11 | Replacement Foam Ear Cushion |

### Temple Transducers

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.


BDN6719A

### 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. |
| BDN6676D* | 3.5mm jack adapter with Quick Disconnect Latch |
| 7580372E70 | Replacement Foam Cushion for Pellet Earpieces |


BDN6780A

### Temple Transducer

This headset allows the user to receive audio without covering the ear. 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.

| | |
|---|---|
| RMN4049A* | Temple Transducer |
| 0180305J46 | Training CD-ROM. For Ear Microphone System and Temple Transducer. |


RMN4049A

### Rugged Temple Transducer

The larger 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 |


RMN5049A

*Intrinsically Safe

### Winning Quality

The same winning quality and dependability you see at professional football stadiums and speedways can be yours with Motorola headsets.

*RMN5015A*

*NMN6245A*

## 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. |
| 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. They can be plugged directly into the radio when used with BDN6676D.

#### ASTRO Digital XTS 3000/3500/5000

| | |
|---|---|
| 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. 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.

#### ASTRO Digital XTS 3000/3500/5000

| | |
|---|---|
| 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. |
| NKN6498A | Headset Adapter Cable. For use with NMN1020A |
| BDN6676D | 3.5mm jack adapter with Quick Disconnect Latch |

*NMN6246B*

## 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.

| | |
|---|---|
| RMN4052A | Tactical Headband Style Headset. Grey, Noise reduction = 24dB. |
| RMN4053A | Tactical Hardhat Mount Headset. Grey, Noise reduction = 22dB. |
| RKN4095A | Adapter Cable with In-Line Push-to-Talk<br>For use with RMN4051B/RMN4052A/RMN4053A. |

**REPLACEMENT EARSEALS**

| | |
|---|---|
| RLN4923B | Replacement Earseals for RMN4051B/RMN4052A/RMN4053A<br>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. Separate In-line PTT Adapter Cable RKN4095A required. Hardhat not included.

| | |
|---|---|
| RMN4051B* | Two-way, Hardhat Mount Headset with<br>Noise-Cancelling Boom Microphone. Black. |
| RKN4095A | Adapter cable with In-Line PTT. For use with<br>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.

| | |
|---|---|
| NMN6258A* | Medium Weight, Dual-Muff, Over-the-Head Style Headset<br>with In-line PTT. Noise reduction rating = 24dB. |
| NMN6259A* | Medium Weight, Dual-Muff, Behind-the-Head Style Headset<br>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<br>Requires adapter cable BDN6673B. Noise reduction rating = 24dB. |
| BDN6635C | Voice-Activated (VOX) Headset with Boom Microphone<br>Requires adapter cable BDN6673B. Noise reduction rating = 24dB. |
| BDN6636C* | Voice-Activated (VOX) Headset with Throat Microphone<br>Requires adapter cable BDN6673B. Noise reduction rating = 24dB. |
| BDN6673B* | Radio Adapter Cable |



*RMN4052A*



*RMN4051B*



*NMN6258A*



*BDN6645A*

*Intrinsically Safe (FM)

*NNTN4115A*

*NTN8725A*

*NTN7247A*

*Radios sold separately.*

## Leather and Nylon Carrying Cases

Motorola carry cases were developed to meet the demands of public safety and other users who operate in the most rigorous of environments.

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.

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.

### ASTRO Digital XTS 3000/3500/5000

**MODEL I RADIOS ONLY**

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

**MODEL II & III RADIOS ONLY**

| | |
|---|---|
| NTN8382B | Leather Case with Belt Loop, D-rings and T-strap |
| NTN8380C | High-Activity Swivel Leather Case<br>Features 2.5 inch swivel belt loop, D-rings and T-strap. |
| NTN8381C | High-Activity Swivel Leather Case<br>Features 3 inch swivel belt loop, D-rings and T-strap. |
| NTN8725A | High-Activity Nylon Case with Belt Loop and T-strap |
| NTN9184A | Leather Case with Belt Loop.<br>For Clamshell batteries only. |

*NTN8381C*

### ASTRO Digital XTS 1500/2500, MT 1500 and PR1500

| | |
|---|---|
| NNTN4115A | Leather Case with High-Activity Swivel<br>Features 3 inch swivel belt loop, D-rings and T-strap. |
| NNTN4116A | Leather Case with High-Activity Swivel<br>Features 2.5 inch swivel belt loop, D-rings and T-strap. |
| NNTN4117A | Leather Case with Belt Loop<br>Features 3 inch belt loop, D-rings and T-strap. |
| NTN7247A | Nylon Case with Snap Belt Loop and T-strap |

*NTN8382B*

## Carrying Accessories

**T-STRAPS**

| | |
|---|---|
| NTN8383A | Leather T-strap, Plain Action Snap |
| NTN8384A | Leather T-strap, Hard Action Snap<br>Provides additional strength at the snap. |

**HIGH-ACTIVITY BELT LOOPS**

| | |
|---|---|
| NTN8039B | 2.5 inch Leather Swivel Belt Loop |
| NTN8040B | 3 inch Leather Swivel Belt Loop |

**CARRYING STRAP**

| | |
|---|---|
| NTN5243A | Adjustable, Black Nylon Carrying Strap<br>Attaches to D-ring on cases. |

*NTN8040B*
*NTN8039B*

*NTN5243A*

**BELT CLIPS**

**ASTRO Digital XTS 3000/3500/5000**

| | |
|---|---|
| NTN8266B | Standard Removable 2.25 inch Belt Clip Attachment |
| NTN8460A | Public Safety 3 inch Belt Clip Attachment |

**ASTRO Digital XTS 1500/2500, MT 1500 and PR1500**

| | |
|---|---|
| HLN6853A | 2.25 inch Spring Action Belt Clip |
| HLN9844A | 2 inch Removable Belt Clip Attachment |

*HLN9844A*

*NTN8460A*

**MOTOROLA** ®
**ORIGINAL**

### Chest Packs and RadioPAk

These versatile carry accessories fit virtually any radio.

Lightweight and comfortable, each of these packs make

an ideal companion for two-way radios.

*HLN6602A*

### 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 |
| 1505596Z02 | Replacement Strap for HLN6602A/RLN4570A |

### Break-A-Way Chest Pack

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

| | |
|---|---|
| RLN4570A | Break-a-Way Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch. |
| 1505596Z02 | Replacement Strap for 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 |
| 4280384F89 | RadioPAk Extension Belt For waists larger than 40 inches. |

### Waterproof Bag

| | |
|---|---|
| HLN9985B | Waterproof Bag with Large Strap |

### Portable Radio Hangers

Portable Radio Hangers slide over and 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. |
| TDN9373A | Portable Radio Hanger for door panels 2.75 to 3.25 inches. |

*RLN4570A*

*RLN4815A*

*TDN9373A*

*TDN9327A*

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.

## 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*

*NTN8299BR*

*NTN9815B*

### 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.

**ASTRO Digital XTS 3000/3500/5000**

| | |
|---|---|
| HNN9031B | NiCd, 1525 mAh |
| HNN9032B | NiCd, 1525 mAh. Intrinsically Safe. |
| NNTN4435B | NiMH, 1800 mAh |
| NNTN4436B | NiMH, 1700 mAh. Intrinsically Safe. |
| NNTN4437B | NiMH, 1700 mAh. Intrinsically Safe, Ruggedized. |
| NTN9862C | Li-ion, 2750 mAh |
| NNTN6034A | Li-ion, 4150 mAh |

**ASTRO Digital XTS 1500/2500, MT 1500 and PR1500**

| | |
|---|---|
| NTN9858C | NiMH, 2100 mAh |
| NTN9857C | NiMH, 2000 mAh. Intrinsically Safe. |
| NNTN6263A | NiMH, 2000 mAh. Intrinsically Safe, Ruggedized. |
| NNTN7335A | Li-ion, 2700 mAh. Ruggedized. |

### Batteries

**PREMIUM NICKEL CADMIUM – NiCd**

**ASTRO Digital XTS 3000/3500/5000**

| | |
|---|---|
| NTN8294BR | NiCd, 1525 mAh |
| NTN8295AR | NiCd, 1525 mAh. Intrinsically Safe. |
| NTN8297AR | NiCd, 1525 mAh. Intrinsically Safe, Ruggedized. |

**ASTRO Digital XTS 1500/2500, MT 1500 and PR1500**

| | |
|---|---|
| NTN9815B | NiCd, 1525 mAh |
| NTN9816B | NiCd, 1525 mAh. Intrinsically Safe. |

**PREMIUM NICKEL METAL HYDRIDE – NiMH**

**ASTRO Digital XTS 3000/3500/5000**

| | |
|---|---|
| NTN8299BR | NiMH, 1700 mAh. Intrinsically Safe. |
| NTN8923AR | NiMH, 1800 mAh |
| RNN4006B | NiMH, 3500 mAh |
| RNN4007AR | NiMH, 3500 mAh. Intrinsically Safe. |

**PREMIUM ALKALINE BATTERY SHELLS**

**ASTRO Digital XTS 3000/3500/5000**

| | |
|---|---|
| NTN9177A | Clamshell – Black. Twelve AA Alkaline batteries required, sold separately. |
| NTN9183A | Clamshell – Orange. Twelve AA Alkaline batteries required, sold separately. |

**ASTRO Digital XTS 1500/2500, MT 1500 and PR1500**

| | |
|---|---|
| NNTN6686A | Clamshell – Black. Twelve AA Alkaline batteries required, sold separately. |

## 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 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 |
| WPLN4112BR | IMPRES Single-Unit Charger, 220 Volt, Euro Plug |
| WPLN4113ARA | IMPRES Single-Unit Charger, 240 Volt, UK Plug |

### 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 |
| NLN7967A | Wall Mount for Multi-Unit Chargers |



*WPLN4111AR*

### 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.

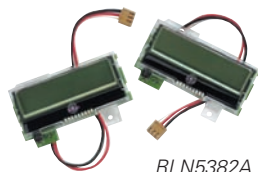| | |
|---|---|
| WPLN4130A | IMPRES Multi-Unit Charger with Display Modules, 110 Volt, US Plug |
| WPLN4131AR | IMPRES Multi-Unit Charger with Display Modules, 220 Volt, Euro Plug |
| WPLN4132AR | IMPRES Multi-Unit Charger with Display Modules, 240 Volt, UK Plug |
| NLN7967A | Wall Mount for Multi-Unit 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 with Software Version 1.3 or Later. |

Note: Display Modules compatible with Multi-Unit Charger with Software 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.



*WPLN4130A*



*RLN5382A*

### 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 |

## 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*

| | |
|---|---|
| NTN1667A | Universal Charger, 110 Volt, US Plug |
| NTN1668B | Universal Charger, 220 Volt, Euro Plug |
| NTN1669B | Universal Charger, 230 Volt, UK Plug |
| RPX4749B | 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.



*WPPN4002BR*
*3080384G15*

### ASTRO Digital XTS 3000/3500/5000

| | |
|---|---|
| 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. |
| WPPN4021CR | 7 Volt Adapter Plate |
| WPPN4065BR | Multi-Unit Conditioning Charger, 4-Station Base, 110 Volt. Adapter plates sold separately. |

### ASTRO Digital XTS 1500/2500, MT 1500 and PR1500

| | |
|---|---|
| WPPN4002BR | Base Charge Unit, 110 Volt AC. Adapter plates sold separately. |
| WPLN4168AR | MCC Kit, 110 Volt AC. Includes single-unit base and adapter plate |
| WPPN4098AR | Adapter plate only |
| WPPN4065BR | Multi-Unit Conditioning Charger, 4-Station Base,110 Volt. Adapter plates sold separately. |



*WPPN4065BR*

Motorola Conditioning Chargers not compatible with NiMH batteries RNN4006B/RNN4007AR or any Li-ion batteries.

## 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 A In-line fuse. |



*RLN4814A*

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## Battery Maintenance System<sup>PLUS</sup> (BMS<sup>PLUS</sup>)

Increase the useful life of your batteries. Using interchangeable battery adapters (sold separately), the BMS<sup>PLUS</sup> 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 BMS<sup>PLUS</sup> offers a 3-year warranty and includes serial printer* port (RS-232).

*WPLN4079BR*

| | |
|---|---|
| WPLN4079BR | 6-Station BMS<sup>PLUS</sup>, 110 Volt AC, 50/60 Hz, US Plug |
| WPLN4080BR | 6-Station BMS<sup>PLUS</sup>, 230 Volt AC, 50/60 Hz, Euro Plug |
| WPLN4081BR | 6-Station BMS<sup>PLUS</sup>, 230 Volt AC, 50/60 Hz, UK Plug |
| WPPN4085BR | BMS<sup>PLUS</sup> 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 STAR Micronics SP200 series and printers with STAR printer emulation. STAR Micronics printers available at STAR Micronics distributors.

## Battery Maintenance System<sup>PLUS</sup> (BMS<sup>PLUS</sup>) Adapters

### ASTRO Digital XTS 3000/3500/5000

| | |
|---|---|
| WPPN4019AR | Adapter. Compatible with NiCd batteries only. |
| WPPN4022AR | Adapter. Compatible with both NiCd and NiMH batteries. |
| WPPN4086AR | Adapter. Compatible with NiCd, NiMH and Li-ion batteries. |

### ASTRO Digital XTS 1500/2500, MT 1500 and PR1500
| | |
|---|---|
| WPPN4097BR | NiCd and NiMH Adapter |
| PMLN5423A | Li-ion Adapter |

*NDN4005B*

## 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.

*WPLN4124BR*

### ASTRO Digital XTS 3000/3500/5000

| | |
|---|---|
| WPLN4124BR | BOS II, 4-Station, 90-264 Volt AC, US Plug. Adapter Plates Required. |
| WPLN4125BR | BOS II, 4-Station, 90-264 Volt AC, Euro/UK Plug. Adapter Plates Required. |
| RL75765 | BOS II Battery Adapter. For use with ASTRO XTS 3000/3500/5000 radios. |

### ASTRO Digital XTS 1500/2500, MT 1500 and PR1500

| | |
|---|---|
| WPLN4124BR | BOS II, 4-Station, 90-264 Volt AC, US Plug. Adapter Plates Required. |
| WPLN4125BR | BOS II, 4-Station, 90-264 Volt AC, Euro/UK Plug. Adapter Plates Required. |
| RL76341 | Standard Battery Adapter. For use with XTS 2500 radios. |
| PMLN5416A | Tri-Chemistry Adapter (Li-ion, NiCD, NiMH). 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
- 100W 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

*WPLN4208B*

## IMPRES Compatible Vehicular Charger

The IMPRES compatible vehicular charger has full IMPRES charger to battery communication capability. This ensures continuity of IMPRES battery charge data logging in a vehicular environment, so the IMPRES battery will receive adaptive, automatic reconditioning and will qualify for the 6-month capacity warranty extension. It is important to note that the IMPRES compatible vehicular charger will not recondition IMPRES batteries due to the operational demands in a vehicle, but it will provide an indication when the reconditioning is required in an IMPRES desktop charger.

WPLN4208B          IMPRES Compatible Vehicular Charger

This compact vehicular charger allows users to charge the battery while it's attached to the radio or alone.

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## Vehicular Adapters

Allow users to adapt XTS 5000 portable radio for mobile operation. Providing in-vehicle rapid and trickle charging for NiCd, NiMH and Li-ion batteries, these units offer quick radio release, dead battery operation, and are powered by attaching the radio supply cable to the 12V battery located inside police cars, utility trucks or other vehicles. Connectors are provided for the vehicle's external antenna, mobile microphone and optional amplified loudspeaker HSN1000B – all required to allow operation of the portable radio in a way that is similar to that of a mobile. Also included is a general interface connector for additional accessories. A colored LED indicates battery recharge status. For XTVA operation, a microphone and RF Switch NTN8327A are required.

*NTN8560F*
*Radio sold separately.*

### ASTRO Digital XTS 5000

| | |
|---|---|
| NTN8561F | Closed Face with Limited Keypad Access, Mini-UHF Connector |
| NTN8560F | Open Face with Limited Keypad Access, Mini-UHF Connector |
| NTN1607F | Closed Face, BNC Connector |
| NTN1606F | Open Face with Limited Keypad Access, BNC Connector |

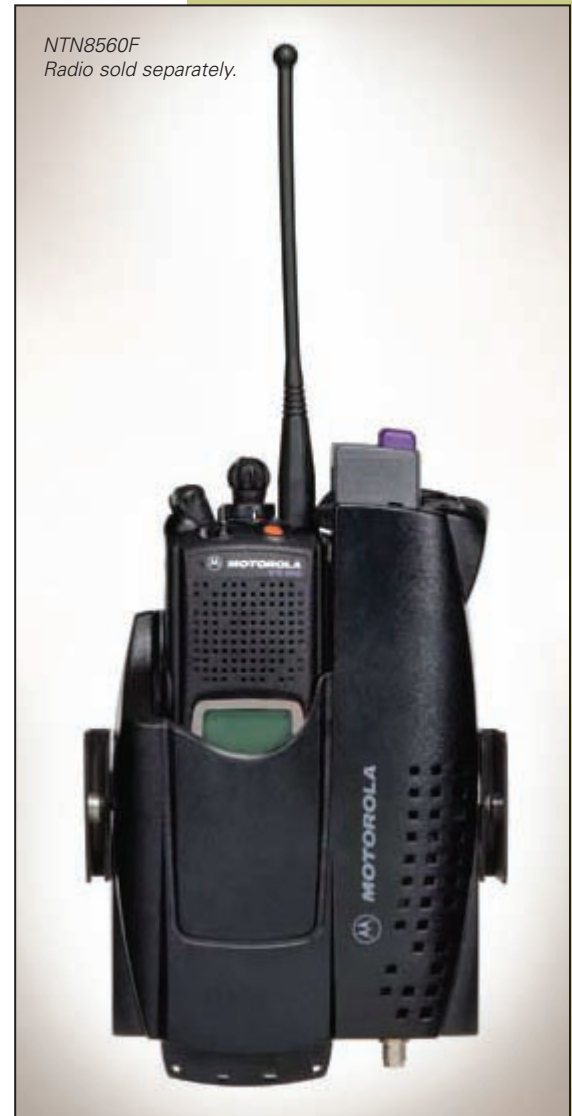### ADAPTER KITS FOR ACCESSORIES

| | |
|---|---|
| NTN8941A | XTVA Data Cable Kit. Required for additional accessories. |
| NTN8943A | XTVA Accessory Adapter Kit. Required for additional accessories. |

### REQUIRED ACCESSORIES FOR VEHICULAR ADAPTERS

| | |
|---|---|
| NTN8940B | Trunnion. Required for operation. |
| NTN8270A | Tool Wrench for RF Switch. Required for operation. |
| NTN8327B | RF Switch. Required for operation. |

### OPTIONAL ACCESSORIES FOR VEHICULAR ADAPTERS

| | |
|---|---|
| HMN4069F | Standard White Palm Microphone |
| PLN7737B | Hand Held Control Head |
| HSN1000B | External Speaker, Amplified, 6-Watt |
| HLN9330B | Emergency Foot Switch |
| GLN7280A | Emergency Push Button |
| NKN6455A | MTVA PA/Speaker Cable |

*HMN4069F*　　　　*HSN1000B*　　　　*HLN9330B*

## 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.

**ASTRO Digital XTS 3000/3500/5000**

| | |
|---|---|
| 8505241U05 | 6 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 |

**ASTRO Digital XTS 1500/2500, MT 1500 and PR1500**

| | |
|---|---|
| NAE6549AR | 7 inch Flexible Whip Antenna, 380-520 MHz |
| 8505241U03 | 7 inch Flexible Whip Antenna, 806-870 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.

**ASTRO Digital XTS 3000/3500/5000**

| | |
|---|---|
| 8505644V01 | 7.5 inch Helical Antenna, 136-151 MHz |
| 8505644V02 | 7 inch Helical Antenna, 151-162 MHz |
| 8505644V03 | 6.5 inch Helical Antenna, 162-174 MHz |
| 8505644V04 | 3.5 inch Helical Antenna, 403-435 MHz |
| 8505644V05 | 3 inch Helical Antenna, 435-470 MHz |
| 8505644V06 | 3 inch Helical Antenna, 470-520 MHz |

**ASTRO Digital XTS 1500/2500, MT 1500 and PR1500**

| | |
|---|---|
| 8505644V01 | 7.5 inch Helical Antenna, 136-151 MHz |
| 8505644V02 | 7 inch Helical Antenna, 151-162 MHz |
| 8505644V03 | 6.5 inch Helical Antenna, 162-174 MHz |
| NAE6546AR | 3 inch Helical Antenna, 403-435 MHz |
| NAE6547AR | 3 inch Helical Antenna, 435-470 MHz |
| NAE6548AR | 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.

**ASTRO Digital XTS 3000/3500/5000**

| | |
|---|---|
| 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 non-obtrusive. This broad band antenna can be used for both 800 and 900 MHz applications.

**ASTRO Digital XTS 3000/3500/5000/1500/2500, MT 1500 and PR1500**

| | |
|---|---|
| 8505241U06 | 4 inch Stubby Antenna, 806-941 MHz |

### Dipole

Dipole antennas are injection molded in lasting polyurethane. The wide skirt at the bottom of the connector protects against damaging environmental elements. The dipole antenna is ideal when strong and solid signal clarity is demanded.

**ASTRO Digital XTS 1500/2500, MT 1500 and PR1500**

| | |
|---|---|
| NAF5039A | 8 inch Dipole Antenna 806-870 MHz |



8505241U05

8505644V01

8505644V03

8505644V04

8505241U06

HMN1079A

HMN1080A

HMN4079C

HMN1090A

## Mobile Microphones and Accessories

### XTL 5000 – ASTRO Control Heads

| | |
|---|---|
| HMN1081A | Palm Microphone. For use with W9 Control Head. |
| HMN1079A | Water-Resistant Motorcycle Palm Microphone |
| HMN1080A | Standard Palm Microphone |

### ASTRO XTL 1500/2500/5000 05 Control Head, PM1500

| | |
|---|---|
| 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 |
| HMN1089A | Modified GCAI Palm Microphone. Water-resistant. |
| HMN4097A | Telephone Style Handset with Keypad |
| HKN1018A | Hang Up Handset with Normal Armored Cable (Old-style) |
| HLN1457A | Handset with Hang Up Cup (Old-style) |

TDN6253A

TDN6254A

HSN4018C

### Speakers for Siren and Public Address Kits

**XTL 5000 – ASTRO Control Heads**

| | |
|---|---|
| TDN6251A | Siren Speaker. Round with Chrome Finish |
| TDN6252A | Siren Speaker. Rectangular with Chrome Finish |
| TDN6253A | Siren Speaker. Under hood with Grey Finish |
| TDN6254A | Siren Speaker. Round with Grey Finish |

### Sirens/DEK

**XTL 5000 – ASTRO Control Heads**

| | |
|---|---|
| H1336B | Mobile Siren/PA (Includes DEK) |
| H1500B | Siren PA (Does not include DEK) |
| H1338A | 8 Status/Message Message buttons included, only applicable for Systems 3.X and Earlier. |

### External Speaker
Provides audio for high ambient noise environments.

**XTL 5000 – ASTRO Control Heads**

| | |
|---|---|
| HSN4018C | External Speaker |

**ASTRO XTL 1500/2500/5000 05 Control Head, PM1500**

| | |
|---|---|
| HSN4038A | External 7.5 Watt Speaker |
| HSN4032B | External 13 Watt Speaker |

### Motorcycle Speaker

**ASTRO XTL 1500/2500/5000 05 Control Head, PM1500**

| | |
|---|---|
| HSN6003C | Motorcycle Speaker. Weather-resistant. |

### Control Station Accessories

**XTL 5000 – ASTRO Control Heads**

| | |
|---|---|
| RMN5083A | Desktop Microphone |
| HPN4007C | Control Station Power Supply, High Power |
| HKN4139A | Power Cable |
| HLN6042A | Control Station Tray |

**ASTRO XTL 1500/2500/5000 05 Control Head, PM1500**

| | |
|---|---|
| RMN5070A | Desk Microphone |
| HLN6042A | Desk Tray with Speaker |
| HLN6925A | Control Station Mount |
| HPN4007C | Power Supply, 25-60 Watt Rated. |

RMN5070A

HPN4007C

HSN4038A

## Emergency Switches

Enables user to send emergency messages to desktop consoles where signalling unit ID number is displayed, and alarm is sounded.

**XTL 5000 – ASTRO Control Heads**

| | |
|---|---|
| HLN5113B | Emergency Foot Switch |

**ASTRO XTL 1500/2500/5000 05 Control Head, PM1500**

| | |
|---|---|
| HLN5113B | Emergency Foot Switch |
| HLN5131C | Emergency Push Button |
| GLN7278B | Foot Switch Push-to-Talk |

## Key Lock Mounts

**XTL 5000 – ASTRO Control Heads**

| | |
|---|---|
| HLN6025A | Key Lock Mount |

**ASTRO XTL 1500/2500/5000 05 Control Head, PM1500**

| | |
|---|---|
| HLN6372A | Key Lock Mount |

## Adapter Cables

Allows mobile radio users to convert existing ASTRO Digital SPECTRA and ASTRO Digital SPECTRA Plus accessory cables for use with the XTL 5000 (ASTRO Control Heads).

**XTL 5000 – ASTRO Control Heads**

| | |
|---|---|
| HKN6158A | Audio Cable Adapter |
| HKN6159A | Adapter Cable Data Power Cables |
| HKN4191B | 10-Foot Low-Mid Power Cable |
| HKN4192B | 20-Foot Low-Mid Power Cable |

## Extension Cables

Allows user to extend microphone cord length. Compatible with HMN1089A and HMN1090A only.

**ASTRO XTL 1500/2500/5000 05, PM1500**

| | |
|---|---|
| PMKN4033A | Microphone Extension Cable - 10 Foot |
| PMKN4034A | Microphone Extension Cable - 20 Foot |

## Remote Mount Cables

**XTL 5000 – ASTRO Control Heads**

| | |
|---|---|
| YKN4261A | 10-Foot Front Control Head Cable |
| YKN4246A | 30-Foot Front Control Head Cable |
| YKN4248A | 50-Foot Front Control Head Cable |
| YKN4249A | 75-Foot Front Control Head Cable |
| YKN4255A | 115-Foot Front Control Head Cable |
| YKN4256A | 150-Foot Front Control Head Cable |

**ASTRO XTL 1500/2500/5000 05 Control Head, PM1500**

| | |
|---|---|
| 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 |

HLN5113B

GLN7278B

HLN6372A

HLN6025A

## Power Cables

**ASTRO XTL 1500/2500/5000 05 Control Head, PM1500**

| | |
|---|---|
| HKN4191B | 10-Foot Power Cable |
| HKN4192B | 20-Foot Power Cable |
| HKN6032A | Motorcycle Power Cable |
| HKN6110B | 100-Watt Power Cable |

## Miscellaneous Cables

**ASTRO XTL 1500/2500/5000 05 Control Head, PM1500**

| | |
|---|---|
| GKN6271A | Ignition Sense Cable |
| HKN6182A | Cable Keyloading Adapter - GCAI |

## Remote Mount Kits

**XTL 5000 – ASTRO Control Heads**

| | |
|---|---|
| H1803A | Remote to Dash Mounting Kit |
| H1804A | Dash to Remote Mounting Kit |
| HKN6161A | 20-Foot Dash Mount Data Cable Kit - IV&D |
| HKN6160A | 6-Foot Dash Mount Data Cable Kit - IV&D |

## Trunnion Kits

**ASTRO XTL 1500/2500/5000 05 Control Head, PM1500**

| | |
|---|---|
| HKN6186A | Control Head Remote Mount Trunnion Kit |
| HLN6909A | Quick Release, High Power Trunnion Kit |
| HLN6910A | High Power Trunnion Kit. For XTL 5000 05 only. |
| HLN6861B | Standard Installation Trunnion Kit |

HLN6909A

## Laird Technologies

Laird Technologies designs and manufactures antennas to exacting electrical and mechanical specifications for critical applications in Defense, Public Safety, Transportation, Satellite, and Medical communications. These top quality mobile, portable and base antenna products utilize the latest patented technologies, lean manufacturing techniques, custom automation and vertical integration. These antennas are commonly used with wireless voice and data, asset tracking, and two-way radios, they are widely employed throughout the security, military, public safety, and other mission critical industries. Many of the Laird patented technologies offer solutions unavailable from other antenna manufacturers.

*RDE5798A*

### Phantom Elite®

This exclusive low-profile, stealth antenna with Patented Field Diversity™ technology etched on a circuit board is for use with VHF, UHF, Dual Band and 2.4 GHz applications. Includes antenna only and attaches to the standard NMO ¾ inch mount – sold separately.

| | |
|---|---|
| RDD5423A | 150-155 MHz Unity Gain Phantom Elite, White |
| RDD5424A | 150-155 MHz Unity Gain Phantom Elite, Black |
| RDE5797A | 450-470 MHz 3dB Phantom Elite, White |
| RDE5798A | 450-470 MHz 3dB Phantom Elite, Black |
| RDF5723A | 806-866 MHz 3dB Phantom Elite, White |
| RDF5724A | 806-866 MHz 3dB Phantom Elite, Black |

### Phantom®

Phantom true field diversity design ensures uninterrupted video and data transmissions in urban canyons and rural drop off areas 3dB MEG gain outperforms a 3dB whip in many applications. For mobile and fixed applications with NMO or permanent N female mount – sold separately.

**Dual Band Antennas**

| | |
|---|---|
| RDG4479A | 821-869/1850-1990 MHz 3dB Dual Band Phantom, White |
| RDG4480A | 821-869/1850-1990 MHz 3dB Dual Band Phantom, Black |

**Single-Band Antennas**

| | |
|---|---|
| RAD4209A | 142-160 MHz Tunable Phantom NMO mtg 60W, Black |
| RAD4210A | 142-160 MHz Tunable Phantom NMO mtg 60W, White |
| RAD4207A | 150-168 MHz Tunable Phantom NMO mtg 60W, White |
| RAE4167A | 450-470 MHz 3dB Phantom NMO ¾ Mount, White |
| RAE4168A | 450-470 MHz 3dB Phantom NMO ¾ Mount, Black |
| RDE5514A | 450-470 MHz 3dB Phantom with ⅝ stud permanent mount N female, White |
| RAF4220A | 806-866 MHz 3dB Phantom NMO ¾ Mount, White |
| RAF4217A | 821-896 MHz 3dB Phantom NMO ¾ Mount, White |

*RAE4167A*

*RDE5514A*

**MOTOROLA** ®
**ORIGINAL**

## A-Base

Gold-plated push-pin contact provides the most corrosion resistance and power transfer over time. Longer tuning ferrule allows for greater freedom in frequency adjustment without trimming. Includes antenna only and attaches to the standard NMO ¾ inch mount – sold separately.

| | |
|---|---|
| RDD5410A | 150-174 MHz ¼ Wave Chrome Center Tunable A-Base Whip |
| RDD5408A | 150-174 MHz ¼ Wave Chrome Center Tunable A-Base Whip with Spring |
| RDF5433A | 806-896 MHz 3dB Chrome Open Collinear A-Base |
| RDD5553A | 118-896 MHz ¼ Wave Chrome Tunable A-Base |

## Quarterwave Antennas

Quarterwaves are built with gold plated contacts for corrosion resistance and best power transfer. Stand up™ grommet will not degrade over time. High spring temper rod stays straighter longer. Stainless steel corona ball stays on the rod without dissimilar metal interaction. Includes antenna only and attaches to the standard NMO ¾ inch mount – sold separately.

| | |
|---|---|
| RAD4229A | 162-174 MHz ¼ Wave Stainless Antenna |
| RDD5227A | 152-162 MHz ¼ Wave Stainless Antenna |
| RDD5228A | 152-162 MHz ¼ Wave Black Antenna |
| RDE5485A | 450-470 MHZ ¼ Wave Stainless Antenna |
| RDE5486A | 450-470 MHz ¼ Wave Black Antenna |
| RDF5436A | 806-896 MHz ¼ Wave Stainless Antenna |
| RDF5439A | 806-866 MHz 3dB Stainless Open Coil Flexible Antenna |
| RDF5437A | 806-896 MHz ¼ Wave Black Antenna |
| RDF5438A | 806-866 MHz 3dB Black Open Coil Flexible Antenna |
| RDF5617A | 118-970 MHz ¼ Wave Stainless Field Tunable Antenna |
| RDF5657A | 118-970 MHz ¼ Wave Black Field Tunable Antenna |
| RDB4497A | 27-54 MHz ¼ Wave Stainless Antenna |

## Mobile Load Coil

Low loss coil form adds dimensional and frequency stability. ABS material is injection molded around solid brass inserts to create a housing that is virtually leak proof. All silver solder joints ensure electrically and mechanically secure connections. All NMO mountable. Includes antenna and attaches to the standard NMO ¾ inch mount – sold separately.

| | |
|---|---|
| RDD5229A | 132-525 MHz VHF Broadband ¼ Wave with spring |
| RDD5230A | 144-174 MHz ½ Wave No ground Plane 2.4dB |
| RDD5413A | 144-174 MHz ½ Wave No ground Plane 2.4dB with spring |
| RDD5231A | 144-174 MHz 3dB Base Loaded ⅝ Wave |
| RDD5414A | 144-174 MHz 3dB Base Loaded ⅝ Wave with spring |
| RDE5487A | 450-470 MHz 3dB Base Loaded ⅝ Wave |
| RDE5488A | 450-470 MHz 5dB ⅝ Wave Closed Collinear |
| RDE5785A | 450-470 MHz 5dB Closed Collinear with spring |
| RDF5440A | 806-866 MHz 3dB Base Loaded ⅝ Wave |
| RDB4499A | 42-48 MHz Base Loaded Wideband |

*RDD5414A*          *RDD5231A*

## Laird Technologies

Laird Technologies land mobile radio antennas are the industry standard for public safety agencies, fleet and transportation networks. From 27 MHz to 5.8 GHz, Laird Technologies designs and manufactures a wide variety of mobile antennas with a multitude of mounting options. Multiple cable options, connectors, mounts and bracket products provide a complete antenna system.



*RRDN6798A*

### Mobile Mounting Equipment

All brass construction and gold plated contact design ensure the most corrosion resistance and best power transfer available. Silver soldered ground lug and contact virtually eliminate RF noise or static.

| | |
|---|---|
| RRDN4927A | ¾ inch Hole brass NMO Mount with 17' RG58A/U cable, no connector |
| 3080384M48 | ¾ inch Hole brass NMO Mount with 17' RG58U cable, mini-UHF connector (not attached) |
| RRDN5461A | ¾ inch Hole brass NMO Mount with 17' RG58A/U cable, mini-UHF connector (not attached) |
| RRDN5628A | ¾ inch Hole brass NMO Mount with 17' Teflex – no connector |
| RRDN6063A | ¾ inch Hole brass NMO Mount with 17' RG58A/U cable, PL259 connector (not attached) |
| RRDN6945A | ¾ inch Hole brass NMO Mount with 17' RG58U cable, PL259 connector (not attached) |
| RRDN6946A | ¾ inch Hole brass NMO Mount with 17' RG58U cable, no connector |
| RRDN6798A | ¾ inch or ⅜ inch Hole (up to ½ inch thick) plate mount with 17' RG58A/U cable, no connector |
| RRDN6847A | Mobile-to-Base converter for VHF and UHF, N terminated |
| RRDN6848A | Quarterwave Chrome Rain Cap for NMO Mount |
| RRDN6849A | Quarterwave Black Rain Cap for NMO Mount |
| RRDN7132A | Chrome Quarterwave Nut |
| RAN4049A | ¾ inch Hole Mount O-ring 6-pack |
| RAN4052A | ¾ inch Hole Brass Mount. For use with RG58 size cable (not included) no connector |

## Through-hole Mount Antennas

### VHF ANTENNAS

| | |
|---|---|
| HAD4006A | 136-144 MHz ¼ Wave |
| HAD4007A | 144-152 MHz ¼ Wave |
| HAD4008A | 152-162 MHz ¼ Wave |
| HAD4009A | 162-174 MHz ¼ Wave |
| HAD4017A | 146-174 MHz ¼ Wave |
| RAD4010ARB | 136-174 MHz 3.0dB Wave |

### UHF ANTENNAS

| | |
|---|---|
| HAE6012A | 380-433 MHz ¼ Wave |
| HAE4003A | 450-470 MHz ¼ Wave |
| HAE6010A | 380-433 MHz 3.5dB Gain |
| HAE4012A | 470-494 MHz 3.5dB Gain |
| HAE4011A | 450-470 MHz 3.5dB Gain |
| HAE6011A | 380-433 MHz 5.0dB Gain |
| RAE4014A | 450-470 MHz 5.0dB Gain |
| HAE6013A | 380-470 MHz Wideband 2.0dB |
| HAE4004A | 470-512 MHz ¼ Wave |
| HAE4013A | 494-512 MHZ 3.5dB Gain |
| RAE4016ARB | 494-512 MHz 5.0dB Gain |

### 700-800 MHz ANTENNAS

| | |
|---|---|
| HAF4013A | 762-870 MHz 3dB Gain Low Profile |
| HAF4014A | 762-870 MHz 3dB Gain Elevated Feed |
| HAF4016A | 762-870 MHz ¼ Wave Through-hole Mount |
| HAF4017A | 762-870 MHz 3dB Gain Collinear Through-hole Mount |
| HAF4015A | 762-870 MHz 3dB Gain Motorcycle |
| HAF4018A | 762-870 MHz Low Profile Motorcycle |

## Mobile Antennas

A communication system is only as good as the mobile antenna used to transmit and receive — so whenever lives are on the line Motorola Original® accessories should be the go-to choice.

HAD4006A

HAE4003A

25

Call us today to enhance
your two-way radio capabilities
with high-performance
Motorola Original® accessories.

## STREAMLINED SOLUTIONS FOR
## A SINGLE RADIO OR ENTIRE FLEET

Every Motorola two-way radio can be customized to
suit your current and future communication needs.
All Motorola Original® accessories are built to the highest
standards of quality, and are specially engineered to
perfect complement your radio's performance.
So don't wait any longer to increase your productivity
with optimum two-way radio performance.

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