

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.

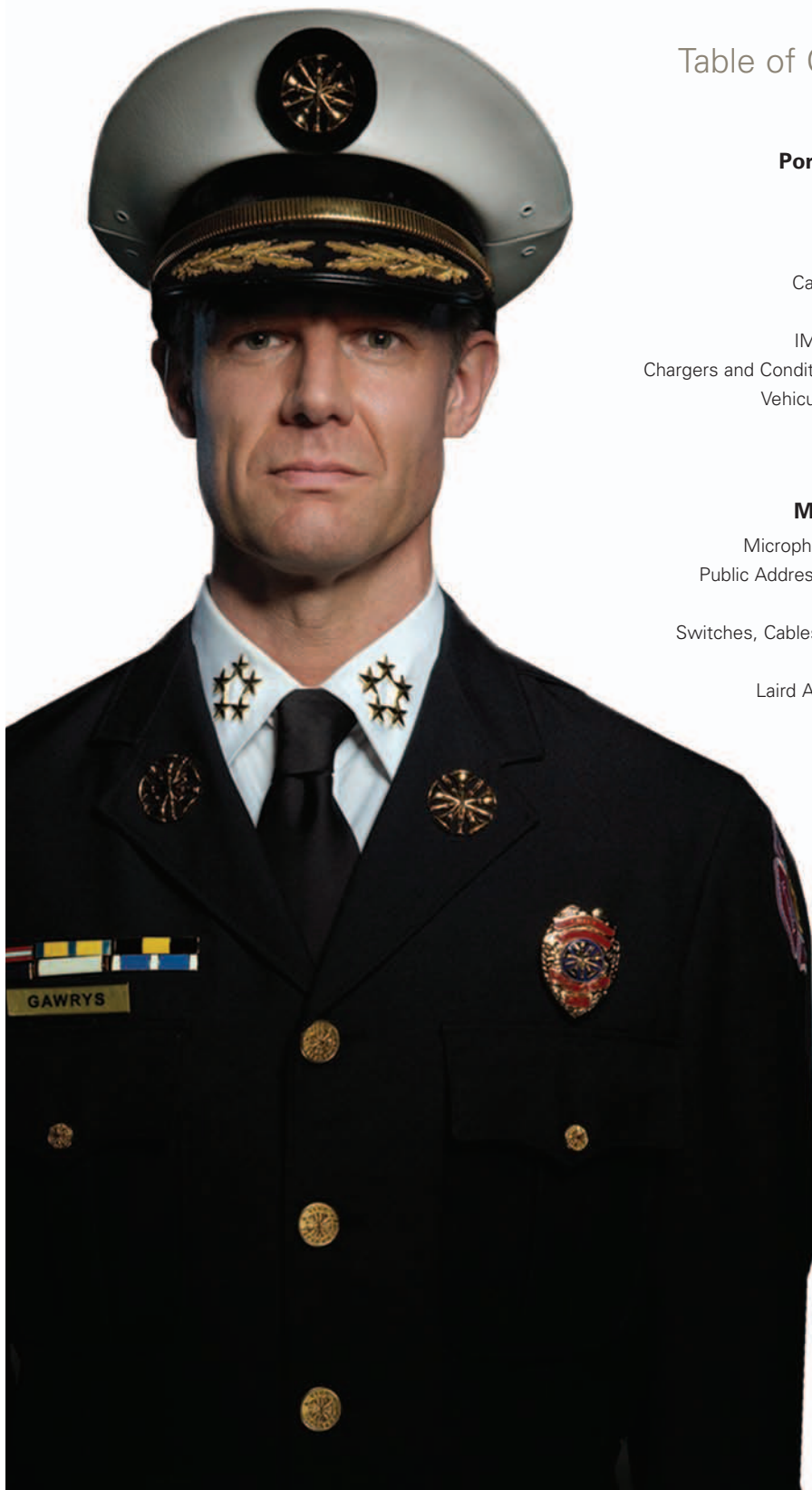


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Law Enforcement

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.

portable radio: audio

XTS 3000, XTS 3500, XTS 5000, XTS 1500,
XTS 2500, MT 1500, and PR1500



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

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

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

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



RMN5066A



RMN5089A

portable radio: audio

XTS 3000, XTS 3500, XTS 5000, XTS 1500,
XTS 2500, MT 1500, and PR1500



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



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



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



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



portable radio: audio

*XTS 3000, XTS 3500, XTS 5000, XTS 1500,
XTS 2500, MT 1500, and PR1500*

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 For XTS 1500/2500, MT 1500 and PR1500 only.
BDN6728A*	Receive-Only Earpiece with Volume Control and Earloop (1-Wire), Black For XTS 1500/2500, MT 1500 and PR1500 only.

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



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



REPLACEMENT ACCESSORIES

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



portable radio: audio

XTS 3000, XTS 3500, XTS 5000, XTS 1500,
XTS 2500, MT 1500, and PR1500



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



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.



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



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.



portable radio: audio systems and headsets

XTS 3000, XTS 3500, XTS 5000, XTS 1500,
XTS 2500, MT 1500, and PR1500



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

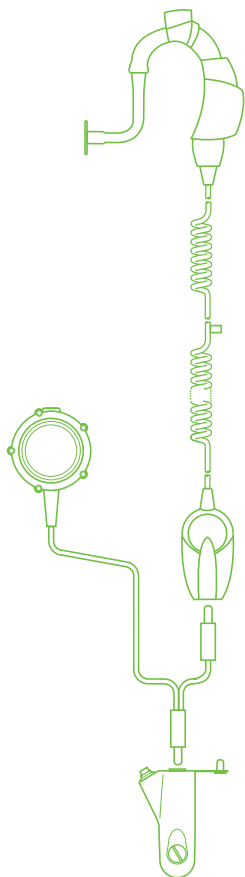
- NKN6510A Replacement Palm PTT Cable for NTN1624A
- NKN6512A Replacement Ring PTT Cable for NTN1663A
- NKN6525A Replacement Snap-On-Side PTT Cable for NTN1736A
- NNTN4188A Replacement Remote PTT Body Switch for NNTN4186A
- NKN6508A Replacement Cable for NTN1625A
- NTN8819B* Ear Microphone Assembly
- 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



portable radio: headsets

XTS 3000, XTS 3500, XTS 5000, XTS 1500,
XTS 2500, MT 1500, and PR1500



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

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

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.

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
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RLN6379A

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.



RMN4049A



RMN5049A

portable radio: headsets

XTS 3000, XTS 3500, XTS 5000, XTS 1500,
XTS 2500, MT 1500, and PR1500

Winning Quality

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



RMN5015A



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

NMN6245A



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



portable radio: headsets

XTS 3000, XTS 3500, XTS 5000, XTS 1500,
XTS 2500, MT 1500, and PR1500



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
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. Separate In-line PTT Adapter Cable RKN4095A required. Hardhat not included.

- RMN4051B* Two-way, Hardhat Mount Headset with Noise-Cancelling Boom Microphone. Black.
- RKN4095A Adapter cable with In-Line PTT. 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.

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



RMN4052A



RMN4051B



NMN6258A



BDN6645A

portable radio: carry accessories

XTS 3000, XTS 3500, XTS 5000, XTS 1500,
XTS 2500, MT 1500, and PR1500



NNTN4115A



NTN8725A



NTN7247A

Radios sold separately.

- NTN8387A
- NTN8385B
- NTN8386B
- NTN8725A
- NTN8382B
- NTN8380C
- NTN8381C
- NTN8725A
- NTN9184A

- NNTN4115A
- NNTN4116A
- NNTN4117A
- NTN7247A

- NTN8383A
- NTN8384A

- NTN8039B
- NTN8040B

- NTN5243A

- NTN8266B
- NTN8460A

- HLN6853A

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

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

MODEL II & III RADIOS ONLY

- Leather Case with Belt Loop, D-rings and T-strap
- High-Activity Swivel Leather Case
Features 2.5 inch swivel belt loop, D-rings and T-strap.
- High-Activity Swivel Leather Case
Features 3 inch swivel belt loop, D-rings and T-strap.
- High-Activity Nylon Case with Belt Loop and T-strap
- Leather Case with Belt Loop.
For Clamshell batteries only.

ASTRO Digital XTS 1500/2500, MT 1500 and PR1500

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

Carrying Accessories

T-STRAPS

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

HIGH-ACTIVITY BELT LOOPS

- 2.5 inch Leather Swivel Belt Loop
- 3 inch Leather Swivel Belt Loop

CARRYING STRAP

- Adjustable, Black Nylon Carrying Strap
Attaches to D-ring on cases.

BELT CLIPS

ASTRO Digital XTS 3000/3500/5000

- Standard Removable 2.25 inch Belt Clip Attachment
- Public Safety 3 inch Belt Clip Attachment

ASTRO Digital XTS 1500/2500, MT 1500 and PR1500

- 2.25 inch Spring Action Belt Clip



NTN8381C

NTN8382B



NTN8040B
NTN8039B

NTN5243A



HLN9844A



portable radio: carry accessories

XTS 3000, XTS 3500, XTS 5000, XTS 1500,
XTS 2500, MT 1500, and PR1500



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.

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.



TDN9327A



TDN9373A

HLN6602A



RLN4570A



RLN4815A



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.

portable radio: batteries

*XTS 3000, XTS 3500, XTS 5000, XTS 1500,
XTS 2500, MT 1500, and PR1500*

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. Intrinsicly Safe.
NNTN4435B	NiMH, 1800 mAh
NNTN4436B	NiMH, 1700 mAh. Intrinsicly Safe.
NNTN4437B	NiMH, 1700 mAh. Intrinsicly 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. Intrinsicly Safe.
NNTN6263A	NiMH, 2000 mAh. Intrinsicly 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. Intrinsicly Safe.
NTN8297AR	NiCd, 1525 mAh. Intrinsicly Safe, Ruggedized.

ASTRO Digital XTS 1500/2500, MT 1500 and PR1500

NTN9815B	NiCd, 1525 mAh
NTN9816B	NiCd, 1525 mAh. Intrinsicly Safe.

PREMIUM NICKEL METAL HYDRIDE - NiMH

ASTRO Digital XTS 3000/3500/5000

NTN8299BR	NiMH, 1700 mAh. Intrinsicly Safe.
NTN8923AR	NiMH, 1800 mAh
RNN4006B	NiMH, 3500 mAh
RNN4007AR	NiMH, 3500 mAh. Intrinsicly 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

portable radio: IMPRES systems and chargers

XTS 3000, XTS 3500, XTS 5000, XTS 1500,
XTS 2500, MT 1500, and PR1500



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



WPLN4111AR

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

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

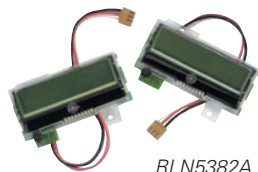
IMPRES Individual Charger Display Module

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.
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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.



RLN5382A

IMPRES CD

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



WPLN4130A

portable radio: chargers

XTS 3000, XTS 3500, XTS 5000, XTS 1500,
XTS 2500, MT 1500, and PR1500

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
NTN1669B	Universal Charger, 230 Volt, UK Plug
RPX4749B	Charger Base with Transformer, 230 Volt, UK Plug

NTN1667A



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.

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.

WPPN4002BR
3080384G15



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.

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

WPPN4065BR



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

portable radio: maintenance systems

XTS 3000, XTS 3500, XTS 5000, XTS 1500,
XTS 2500, MT 1500, and PR1500



Battery Maintenance System^{PLUS} (BMS^{PLUS})

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

WPLN4079BR	6-Station BMS ^{PLUS} , 110 Volt AC, 50/60 Hz, US Plug
WPLN4080BR	6-Station BMS ^{PLUS} , 230 Volt AC, 50/60 Hz, Euro Plug
WPLN4081BR	6-Station BMS ^{PLUS} , 230 Volt AC, 50/60 Hz, UK Plug
WPPN4085BR	BMS ^{PLUS} 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^{PLUS} (BMS^{PLUS}) 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

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.

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



WPLN4079BR



NDN4005B



WPLN4124BR

portable radio: vehicular accessories

XTS 3000, XTS 3500, XTS 5000, XTS 1500,
XTS 2500, MT 1500, and PR1500



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.

portable radio: vehicular adapters

*XTS 3000, XTS 3500, XTS 5000, XTS 1500,
XTS 2500, MT 1500, and PR1500*



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.

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

portable radio: antennas

*XTS 3000, XTS 3500, XTS 5000, XTS 1500,
XTS 2500, MT 1500, and PR1500*

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
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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
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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
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mobile radio: public address and speakers

*XTL 5000 – ASTRO Control Heads,
XTL 1500/2500/5000 05, and PM1500*



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
- HMN1018A Hang Up Handset with Normal Armored Cable (Old style)

mobile radio: public address and speakers

*XTL 5000 – ASTRO Control Heads,
XTL 1500/2500/5000 05, and PM1500*

TDN6253A



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.

TDN6254A



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.

HSN4018C



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



mobile radio: switches, cables and trunnions

*XTL 5000 – ASTRO Control Heads,
XTL 1500/2500/5000 05, and PM1500*



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



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

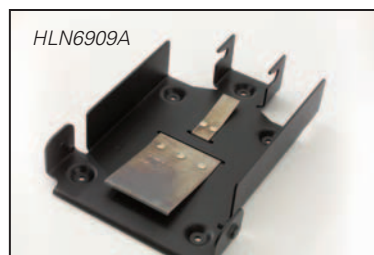
	ASTRO XTL 1500/2500/5000 05 Control Head, PM1500
GKN6271A	Ignition Sense Cable
HKN6182A	Cable Keyloading Adapter - GCAI

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



mobile radio: antennas

*XTL 5000 – ASTRO Control Heads,
XTL 1500/2500/5000 05, and PM1500*



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 3/8 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 3/8 Mount, White
RAE4168A	450-470 MHz 3dB Phantom NMO 3/8 Mount, Black
RDE5514A	450-470 MHz 3dB Phantom with 3/8 stud permanent mount N female, White
RAF4220A	806-866 MHz 3dB Phantom NMO 3/8 Mount, White
RAF4217A	821-896 MHz 3dB Phantom NMO 3/8 Mount, White



RAE4167A

RDE5514A

mobile radio: antennas

*XTL 5000 – ASTRO Control Heads,
XTL 1500/2500/5000 05, and PM1500*



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 3/8 inch mount – sold separately.

RDD5410A	150-174 MHz 1/4 Wave Chrome Center Tunable A-Base Whip
RDD5408A	150-174 MHz 1/4 Wave Chrome Center Tunable A-Base Whip with Spring
RDF5433A	806-896 MHz 3dB Chrome Open Collinear A-Base
RDD5553A	118-896 MHz 1/4 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 3/8 inch mount – sold separately.

RAD4229A	162-174 MHz 1/4 Wave Stainless Antenna
RDD5227A	152-162 MHz 1/4 Wave Stainless Antenna
RDD5228A	152-162 MHz 1/4 Wave Black Antenna
RDE5485A	450-470 MHz 1/4 Wave Stainless Antenna
RDE5486A	450-470 MHz 1/4 Wave Black Antenna
RDF5436A	806-896 MHz 1/4 Wave Stainless Antenna
RDF5439A	806-866 MHz 3dB Stainless Open Coil Flexible Antenna
RDF5437A	806-896 MHz 1/4 Wave Black Antenna
RDF5438A	806-866 MHz 3dB Black Open Coil Flexible Antenna
RDF5617A	118-970 MHz 1/4 Wave Stainless Field Tunable Antenna
RDF5657A	118-970 MHz 1/4 Wave Black Field Tunable Antenna
RDB4497A	27-54 MHz 1/4 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 3/8 inch mount – sold separately.

RDD5229A	132-525 MHz VHF Broadband 1/4 Wave with spring
RDD5230A	144-174 MHz 1/2 Wave No ground Plane 2.4dB
RDD5413A	144-174 MHz 1/2 Wave No ground Plane 2.4dB with spring
RDD5231A	144-174 MHz 3dB Base Loaded 1/2 Wave
RDD5414A	144-174 MHz 3dB Base Loaded 1/2 Wave with spring
RDE5487A	450-470 MHz 3dB Base Loaded 1/2 Wave
RDE5488A	450-470 MHz 5dB 1/2 Wave Closed Collinear
RDE5785A	450-470 MHz 5dB Closed Collinear with spring
RDF5440A	806-866 MHz 3dB Base Loaded 1/2 Wave
RDB4499A	42-48 MHz Base Loaded Wideband



RDD5414A

RDD5231A

mobile radio: antennas

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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	3/8 inch Hole brass NMO Mount with 17' RG58A/U cable, no connector
3080384M48	3/8 inch Hole brass NMO Mount with 17' RG58U cable, mini-UHF connector (not attached)
RRDN5461A	3/8 inch Hole brass NMO Mount with 17' RG58A/U cable, mini-UHF connector (not attached)
RRDN5628A	3/8 inch Hole brass NMO Mount with 17' Teflex – no connector
RRDN6063A	3/8 inch Hole brass NMO Mount with 17' RG58A/U cable, PL259 connector (not attached)
RRDN6945A	3/8 inch Hole brass NMO Mount with 17' RG58U cable, PL259 connector (not attached)
RRDN6946A	3/8 inch Hole brass NMO Mount with 17' RG58U cable, no connector
RRDN6798A	3/8 inch or 3/16 inch Hole (up to 1/2 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	3/8 inch Hole Mount O-ring 6-pack
RAN4052A	3/8 inch Hole Brass Mount. For use with RG58 size cable (not included) no connector

mobile radio: antennas

*XTL 5000 – ASTRO Control Heads,
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Mobile Antennas

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

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

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 perfectly complement your radio's performance. So don't wait any longer to increase your productivity with optimum two-way radio performance.



MOTOROLA

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